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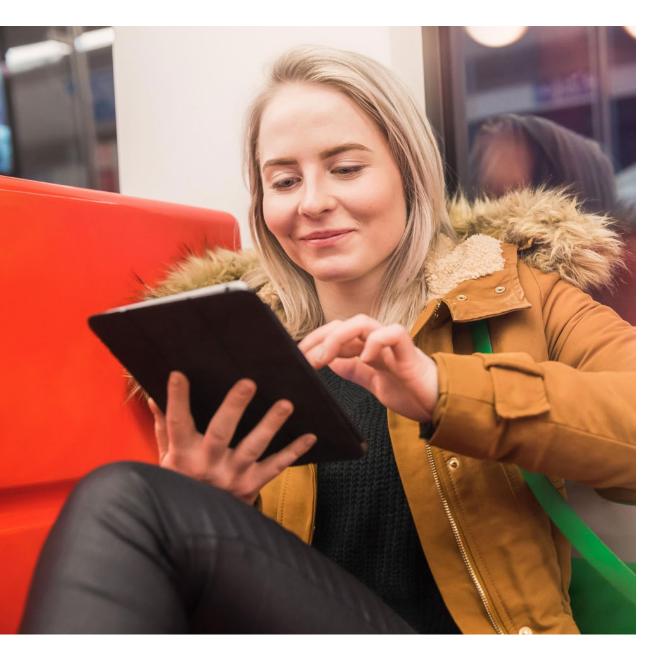


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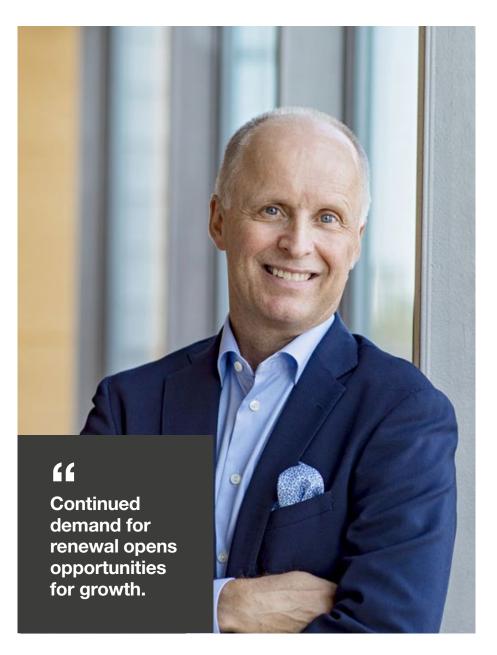
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Tieto 2018

CEO statement



CEO STATEMENT

Creating great everyday experiences in the data-rich world

The data-driven world is advancing and expanding, opening new avenues for innovation and business creation. At Tieto we are inspired by these opportunities - helping our customers to become more competitive and enriching society with unique services and experiences.

Our 50th anniversary made 2018 a special year for everyone at Tieto. The jubilee year demonstrated continuation of our multi-year performance improvement including highestever customer experience (rNPS), further improvement in employee engagement, and strong financial results with good cash flow and profitability which enabled continued dividend increase and payout. Furthermore, early in the year we were nominated into a prominent group of companies as a Top 100 Global Technology Leader by Thomson Reuters, and in the autumn we were ranked among the Top 25 companies globally in gender equality by Equileap. I want to thank our employees and all key stakeholders for making this development possible through long-term commitment and collaboration.

We are inspired by the opportunities at hand for advancing our customers' business and the society-level development with smarter use of data and technology. On 6 February 2019 we launched our new company strategy, with the aim to further enhance value creation for our customers. shareholders and employees. To accelerate customers' innovation and business creation. opportunities, we will expand our design and data-led consulting services, redefine customer engagement and build networked operations and leadership across the company. By this, we aim to be more agile, fast adapting to customer and market needs - and empower Tieto teams to co-create great everyday experiences for Nordic citizens and consumers. As part of the new strategy, we have also upgraded our growth and profitability ambitions for the coming years.



Employee experience and learning as lifestyle - foundations for success

The next chapter in our renewal is being built on a solid existing foundation supported by increased investments into areas contributing to our future competitiveness. As core part of this, we will in the next few years significantly increase our skills and capabilities in areas and roles such as data science, AI, data engineering, design, customer experience, software development, and cloud solutions.

As the competition over talent intensifies, the focus on employee experience and employer image become more important than ever. We have seen a strong upward trend in our employee engagement since 2014. Building on our Open Source culture with utmost respect for every individual at the core, we are committed to continue this trend and for example empower purpose-driven professional networks, aiming to make Tieto the most engaging workplace in the industry.

We encourage all of us in Tieto to embrace a 'Learning as a Lifestyle' mindset and offer an expanding selection of learning modules open for everyone to explore. In 2018 we welcomed around 3 000 new colleagues into our company through recruitment and enhanced our capabilities also through three acquisitions, welcoming Petrostreamz within

Oil & Gas, Swedish NSEC within Security Services and Swedish Meridium within Digital Customer Experience to the Tieto team. Through these activities we further enhance our competitiveness and cultural evolution, contributing to our profile as an employer of choice.

Empowering sustainable societies

Stemming from our strong Nordic valuebase, sustainability and social responsibility have always been at the core of Tieto. With a growing amount of technology solutions and explorations in the digital era, new sustainability aspects are emerging and gaining more weight in the minds of all stakeholders. Recent sustainability considerations include for example the ethical use of Al, as well as energy efficiency. At Tieto we are driving our Sustainability 2020 plan with focus on three areas: minimizing environmental impact, being an ethical forerunner and creating value for all stakeholders. As an example of our efforts to lead the way in 2018 we updated our company-wide Code of Conduct to further reflect the global demands of today, and by year end 87% of our employees completed the e-learning. During the year we also reinforced our commitment to drive ethical Al product and service development with

the launch of our Al ethics framework and certificate for employees working within this area. We are also actively engaged in important dialogues to enhance societal equality through digital democracy – a recent example being our collaboration with Startup Refugees in Finland.

Continued demand for renewal opens opportunities for growth

Driven by the speed of innovation and adoption of new technologies by both our customers and ourselves, the overall investment agenda in the market continues to be positively dynamic. Operational agility and innovation of new data-driven business models remain high on our customers' agenda. In 2018, the market continued its longer-term shift, with reduced spending on basic infrastructure services and increased spending on consulting and application services.

In 2019, the Nordic IT software and services market is anticipated to grow by 2–3%. Customers are expected to shift their spending towards business-led renewal with a focus on both unleashing value from data and on efficiency improvement. This provides a significant opportunity for IT service providers. The market for new services built around data and design is anticipated to grow double-digit over the next few years. In parallel, business

continuity and efficiency continue to be of high importance both to our customers and ourselves. The global market for product development services continues to develop favourably as the demand for advanced software engineering is expected to increase across several industry sectors.

As we operate in this highly dynamic data-rich market, we continue to see new opportunities for innovation, growth and impact on societal level. Grasping these opportunities sets a positive demand for accelerated learning, exchange of ideas and co-innovation. Building on our global talent, multi-year positive progress and the new strategy, we are set to take a very active role in making our customers more competitive - and believe we will see both customer and employee experience reach new record levels as result. In parallel, we look forward to contributing to the societies we live in, through even more advanced and sustainable utilization of modern technologies.

I would like to sincerely thank our customers, employees, partners and shareholders for making our 50th anniversary year a memorable one, and look forward to our close future collaboration.

KIMMO ALKIO

President and CEO

Tieto 2018



Governance

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Corporate Governance Statement

Tieto is committed to good corporate governance. In addition to the relevant legislation and rules of the Helsinki and Stockholm stock exchanges, Tieto complies with the Finnish Corporate Governance Code issued by the Securities Market Association of Finland in 2015 with the exception of the appointment procedure for electing two personnel representatives to the Board of Directors (Recommendation 5) as described in detail in **The Board of Directors** section.

This Corporate Governance Statement has been prepared in accordance with the Finnish Corporate Governance Code 2015. The code is available at www.cgfinland.fi. This statement

has been issued separately from the report by the Board of Directors and included in the Financial Review 2018. Tieto's Audit and Risk Committee has reviewed this statement.

This document and previous statements have been published on the company's website at **www.tieto.com/investors**. Updated and additional information is also available on the expensive. The Governance section of the website provides further information on matters such as the Annual General Meeting, Articles of Association, Board of Directors, Leadership Team and auditors, as well as remuneration.

GOVERNANCE AT TIETO





Annual General Meeting

Tieto's supreme decision-making body is the Annual General Meeting (AGM). Every shareholder has a right to participate in the AGM and each share in Tieto entitles its holder to one vote. However, no shareholder is allowed to vote at a General Meeting with more than one fifth (1/5) of the votes represented at the meeting.

The AGM elects the members of the Board of Directors (including the Chairman) and appoints auditors, decides on their compensation and discharges the members of the Board and President and CEO from liability. The AGM's approval is required for option programmes as well as Board authorizations for share repurchases and share issues. The meeting also makes the decision on the Board's dividend proposal.

The following persons are present at Tieto's AGM:

- Board of Directors: Chairman, Board members and new Board member candidates
- Leadership Team: President and CEO, CFO
- Auditors

For more information regarding the AGM 2019 and previous meetings, shareholders and participation possibilities, please visit **www.tieto.com/agm**.

Tieto's AGM 2018

- In 2018, the AGM convened on 22 March at Tieto's headquarters in Espoo, Finland.
 Altogether 391 shareholders and 48 503 546 shares (65.4% of the total outstanding shares) were represented at the meeting.
- No Extraordinary General Meetings were held in 2018.

Shareholders' Nomination Board

Tieto's AGM decided in 2010 to establish a Shareholders' Nomination Board (SNB), which is a body of shareholders responsible for preparing the proposals to the AGM for the election and remuneration of the members of the Board of Directors.

The SNB consists of five members. Four of the members represent the four major shareholders who on 31 August held the largest number of votes conferred by all shares in the company and who wished to participate in the nomination process. The fifth member is the Chairman of the Board of Directors of Tieto Corporation. The term of office of the SNB members expires when a new SNB has been appointed. The SNB itself is an organ that has been established for the time being. The charter of the SNB is available on the company's website at **www.tieto.com/investors**.

The SNB preparing the proposals to AGM 2019 consists of the following representatives announced by Tieto's shareholders:

Nominated by Cevian Capital Partners Ltd:

Martin Oliw

Main occupation: Partner, Cevian Capital AB

Born: 1977

Nationality: Swedish

Education: MSc. (Econ.), MSc. (Eng.)

Nominated by Solidium Oy:

Petter Söderström

Main occupation: Investment Director, Solidium Oy

Born: 1976

Nationality: Finnish Education: MSc. (Econ.)

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Nominated by Ilmarinen Mutual Pension Insurance Company:

Mikko Mursula

Main occupation: Chief Investment Officer, Ilmarinen Mutual Pension Insurance Company

Born: 1966

Nationality: Finnish Education: MSc. (Econ.)

Nominated by Elo Mutual Pension Insurance Company:

Satu Huber

Main occupation: Chief Executive Officer, Elo Mutual Pension Insurance Company

Born: 1958

Nationality: Finnish Education: MSc. (Econ.)

Representing the Board of Directors of Tieto Corporation:

Kurt Jofs

The SNB decided that Martin Oliw shall act as Chairman. The SNB convened three times and provided Tieto's Board of Directors on 22 January 2019 with its proposals for the AGM 2019. The SNB proposes to the Annual General Meeting that the Board of Directors shall have eight members and that the current Board members Kurt Jofs, Harri-Pekka Kaukonen, Timo Ahopelto, Liselotte Hägertz Engstam, Johanna Lamminen and Endre Rangnes be reelected and in addition, Tomas Franzén and Niko Pakalén are proposed to be elected as new Board members. Jonas Synnergren has informed that he is not available for re-election. The Shareholders' Nomination Board proposes that Kurt Jofs shall be re-elected as the Chairman of the Board of Directors.

The biographical details of the candidates and information on their holdings in Tieto are available on the company's website at **www.tieto.com/cv.**

The Shareholders' Nomination Board proposes that the remuneration of the Board of Directors will be annual fees as follows: EUR 98 000 (current EUR 91 000) to the Chairman, EUR 58 000 (current EUR 55 000) to the Deputy Chairman and EUR 38 000 (current EUR 36 000) to the ordinary members of the Board of Directors. The same fee as to the Board Deputy Chairman will be paid to the Chairman of Board Committee unless the same individual is also the Chairman or Deputy Chairman of the Board. In addition to these fees it is proposed that the Deputy Chairman and ordinary members of the Board of Directors be paid EUR 800 for each Board meeting and for each permanent or temporary committee meeting. It is the company's practice not to pay fees to Board members who are also employees of the Tieto Group.

The Shareholders' Nomination Board is of the opinion that increasing long-term shareholding of the Board members will benefit all the shareholders. Every member of the Board of Directors is expected to over a five year period accumulate a shareholding in Tieto that exceeds his/hers one-time annual remuneration. The Shareholders' Nomination Board therefore proposes that part of the fixed annual remuneration may be paid in Tieto Corporation's shares purchased from the market. An elected member of the Board of Directors may, at his/her discretion, choose to receive the fee from the following five alternatives:

- (i) No cash, 100 percent in shares
- (ii) 25 percent in cash, 75 percent in shares
- (iii) 50 percent in cash, 50 percent in shares
- (iv) 75 percent in cash, 25 percent in shares, or
- (v) 100 percent in cash, no shares.

The shares will be purchased in accordance with an acquisition program prepared by the company. If the remuneration cannot be paid in shares due to insider regulation, termination of the Board member's term of office or other reason relating to the member of the Board, the remuneration shall be paid fully in cash.



The Board of Directors

It is the general obligation of Tieto's Board of Directors to safeguard the interests of the company and its shareholders.

Composition and election of Tieto's Board of Directors

According to Tieto's Articles of Association, the Board of Directors shall consist of at least six and no more than twelve members. Board members have a term of office of one year, expiring at the closing of the first AGM following the election.

The company has defined as an objective that in addition to professional competence, Tieto's Board members shall be diversified in terms of gender, occupational and professional background and that the Board as a group shall have sufficient knowledge of and competence in, inter alia, the company's field of business and markets.

The SNB, which consists of representatives nominated by the company's largest shareholders, prepares a proposal on the composition of the Board to be presented to the AGM for its decision. In addition to the Board of Directors having established the diversity principles and included them in the Board charter, the company has taken steps to ensure that the principles have been included in the charter of the SNB and taken into account in the candidate search. The ratio of gender diversity of the members elected by the AGM has remained stable since 2012 and been either 2:6 or 2:5 (approximately 29% female and 71% male members).

In addition to the members proposed by the SNB and elected by the AGM, Tieto's personnel elects two members and two deputy members to the Board of Directors. The term of office for the personnel representatives is two years. This special appointment procedure is a departure from Recommendation 5 "Election of the Board of Directors" of the Corporate Governance Code 2015. Personnel representation is based on the Finnish Act on Personnel Representation in the Administration of Undertakings and was originally agreed between Tieto Corporation and the personnel of the Group by way of a Personnel Representation Cooperation Agreement in 2001.

The objectives of personnel representation are, inter alia, to provide opportunities for the personnel to influence and affect the organization, to improve communication and decision making within the Group, to increase mutual trust and confidence between corporate management and the personnel as well as to increase and develop the feeling of security among the personnel. The personnel representatives, however, are not entitled to participate in the handling of matters that concern the appointment or dismissal of corporate management, the contractual terms of the management, the terms of employment of staff or matters related to inclustrial actions.



Board of Directors as at 31 December 2018

Name	Born	Nationality	Education	Main occupation
Kurt Jofs (Chairman)	1958	Swedish	MSc. (Eng.)	Entrepreneur, investor and Board member
Harri-Pekka Kaukonen (Deputy Chairman)	1963	Finnish	DSc. (Tech.)	Professional Board member
Timo Ahopelto	1975	Finnish	MSc. (Tech.)	Entrepreneur, investor and Board member
Liselotte Hägertz Engstam	1960	Swedish	MSc. (Civ. Eng.)	Expert advisor, Board member
Johanna Lamminen	1966	Finnish	DSc. (Tech.), MBA	CEO, Gasum Ltd
Endre Rangnes	1959	Norwegian	BBA (Econ.)	Professional Board member
Jonas Synnergren	1977	Swedish	MSc. (Econ.)	Partner, Cevian Capital AB
Esa Koskinen (Personnel representative)	1955	Finnish	MSc. (Econ.)	Test Engineer
Robert Spinelli (Personnel representative)	1957	Swedish	General Data Processing	Customer Executive

Independence and attendance at Board and its committees' meetings in 2018

Name	Member since	Independent of the company	Independent of shareholder	Board	Audit and risk committee	Remuneration committee	Temporary committees
Kurt Jofs	2010	yes	yes	15/15		8/8	
Harri-Pekka Kaukonen	2016	yes	yes	15/15	7/7		6/6
Timo Ahopelto	2017	yes	no	15/15	5/7		6/6, 1/1
Liselotte Hägertz Engstam ¹⁾	2018	yes	yes	13/13	6/6		6/6
Johanna Lamminen	2016	yes	yes	14/15	1/1	5/5	6/6, 1/1
Sari Pajari ²⁾	2012	yes	yes	2/2		3/3	
Endre Rangnes	2014	yes	yes	14/15		8/8	1/1
Jonas Synnergren	2012	yes	no	15/15	7/7		1/1
Jonas Wiström ²⁾	2017	yes	yes	2/2		2/3	
Esa Koskinen	2014	no	yes	15/15			
Anders Palklint ³⁾	2014	no	yes	2/2			
Robert Spinelli ⁴⁾	2014	no	yes	13/13			

¹⁾ Board member as from 22 March 2018.

²⁾ Board member until 22 March 2018.

³⁾ Personnel representative until 22 March 2018.

⁴⁾ Personnel representative as from 22 March 2018. Prior to that, he served as the deputy member.



All Board members elected by the AGM of Tieto are independent of the company and five out of seven members are independent of the company's significant shareholders. The independence of the members is evaluated at the Board's constitutive meeting. The Board members shall inform the Board if any changes in these circumstances occur, in which case their independence will be re-evaluated.

More detailed background information regarding the Board members, such as working experience, past and present positions of trust and the Remuneration Statement, is presented on the company's website at **www.tieto.com/investors.**

Tasks of Tieto's Board

The main duties and working principles of the Board have been defined in a written charter. Additionally, the work of the Board is based on an annual action plan.

More specifically, the Board:

- approves the company's values, strategy and organizational structure
- defines the company's dividend policy
- approves the company's annual plan and budget and supervises their implementation
- monitors management succession issues, appoints and discharges the President and CEO
- decides on the President and CEO's compensation, sets annual targets and evaluates their accomplishment
- decides on the compensation of the President and CEO's immediate subordinates
- addresses the major risks and their management at least once a year
- reviews and approves interim reports, annual reports and consolidated financial statements
- reviews and approves the company's key policies
- is accountable for guiding the organization's strategy on environmental and social topics

- meets the company's auditors at least once a year without the company's management
- appoints the members and Chairmen of the Board's committees and defines their charters
- reviews assessments of its committees as well as the President and CEO
- · evaluates its own activities.

Work of Tieto's Board

The Board has scheduled meetings every one to two months. Besides the Board members, the meetings are attended by the President and CEO, Chief Financial Officer (CFO) and General Counsel, who acts as secretary of the meetings. In addition to the scheduled meetings, the Chairman shall convene the Board whenever needed as well as at the request of any of its members or the President and CEO.

Matters to be handled are prepared by the Board committees and the President and CEO. The Board receives information on the company's financial performance monthly and more detailed financial reports quarterly. Any material related to issues to be handled by the Board is provided four days prior to the meeting. Other case-specific materials are delivered at the management's initiative or the Board's request. Board members shall be informed about all significant company events immediately.

Work of Tieto's Board in 2018

- The Board convened 15 times in 2018 and the average attendance was 98.8%.
- The Board met five times during the year without the management present.
- The Board held one joint meeting with the auditors.
- The Board met the auditors once without the presence of the management.



Assessment of the Board

The performance of Tieto's Board is assessed annually; the latest assessment was carried out together with an external consultant in late 2018. Assessments review the Board's knowledge of the company's operations and management as well as its understanding of the field of business.

Additionally, the effectiveness of the Board work is evaluated. The SNB is informed of the results, which are also taken into consideration when the Board draws up its next annual plan.

Board committees

Tieto's Board is assisted by two permanent committees that prepare matters for which the Board is responsible. The Board defines the charters of the committees and decides on their composition. The Board establishes temporary committees whenever a subgroup is needed to prepare a specific topic. The entire Board remains responsible for the duties assigned to the committees.

Remuneration Committee

The Remuneration Committee (RC) comprises at least three non-executive directors elected by the Board. The majority of the members shall be independent of the company. The head of Human Resources (HR) acts as secretary of the meetings.

In 2018, all committee members were non-executive directors who were independent of the company and of significant shareholders. Based on the Board's decision, the RC was composed of:

- Kurt Jofs (Chairman)
- Johanna Lamminen
- Endre Rangnes

The committee meets regularly and at least twice a year. The Chairman of the committee reports to the Board when applicable. The main tasks of the committee are to:

- monitor the targets of the compensation schemes, implementation of the compensation schemes, performance assessment and compensation determination
- ensure that the targets set for earning the bonuses defined in the compensation scheme are met
- prepare a proposal for the Deputy Chairman of the Board
- prepare a proposal on the committees (members and Chairmen, and the duties and responsibilities of the committees)
- monitor corporate governance
- prepare a compensation proposal concerning the President and CEO and his immediate subordinates, and the principles of personnel compensation
- prepare for the Board option schemes and other share-based incentive schemes
- evaluate the performance of the President and CEO
- prepare the assessment of the Leadership Team
- prepare a proposal on the Board's charter.

Work of Tieto's RC in 2018

- The committee convened eight times in 2018 and the average attendance was 93.4%
- In addition to the normal responsibility within the scope of its Charter, the committee
 concentrated on reviewing, and developing remuneration of the company. The committee
 also followed the functioning of short and long-term incentive plans to ensure that they
 supported the achievement of the objectives.



Audit and Risk Committee

The Audit and Risk Committee (ARC) comprises at least three non-executive directors who are independent of the company and out of whom at least one member shall be independent of the significant shareholders. The Chairman and the members are elected by the Board. At least one committee member must have expertise in accounting, bookkeeping or auditing. Tieto's Deputy General Counsel acts as secretary of the meetings.

In 2018, all committee members were non-executive directors who were independent of the company and two of them independent of significant shareholders. All members have extensive experience in corporate management and financial issues and therefore have the required expertise.

Based on the Board's decision, the ARC was composed of

- Harri-Pekka Kaukonen (Chairman)
- Timo Ahopelto
- Liselotte Hägertz Engstam
- Jonas Synnergren

The committee convenes regularly at least four times a year and meets the company's auditors, also without the company's management present. The Chairman of the committee reports to the Board when applicable. The main tasks of the committee are to:

• review and supervise internal control – particularly the financial reporting process – and risk management issues

- discuss and review the interim and annual reports and the consolidated financial statements
- assess compliance with legislation, official regulations and the company's Code of Conduct
- evaluate the sufficiency of internal control and the internal audit
- examine, assess and approve the internal audit plan
- assess the appropriate coverage of risk management and monitor the efficiency of risk management
- review significant risks and unusual business events
- prepare for the Board's decision a proposal for the AGM on the nomination of external auditors and their compensation
- evaluate the external auditors' independence, assess the audit plan and examine the audit reports
- monitor the statutory audit and consult with the auditors regarding matters that should be brought to the Board's attention.

Work of Tieto's ARC in 2018

- The committee convened seven times in 2018 and attendance was 92.9%.
- In addition to its regular agenda, the committee followed up progress in project and delivery management and quality issues as well as arranged the statutory auditor selection process for financial year 2019.



The President and CEO and operative management

Tieto Group's operative management consists of the President and CEO, the Leadership Team and the Industry Group, Service Line and Product Development Services (PDS) organizations. The Industry Solutions Service Line includes the New Data-Driven Businesses unit organized independently of other businesses.

The President and CEO is appointed by the Board and he is responsible for the Group's operative management, internal efficiency and quality.

The President and CEO is assisted by the Leadership Team, which includes the heads of Industry Groups and Service Lines, head of New Data-Driven Businesses, the CFO and the head of HR. Appointments of Leadership Team members are approved by the Chairman of the Board based on the President and CEO's proposal.

The Leadership Team members are accountable for the performance and development of their management areas and they supervise the operations of the units belonging to their areas. As a general rule, the business units in both management dimensions (Industry Groups, Service Lines and PDS) make their own operative decisions and are responsible for conducting their operative duties.

The Industry Group, Service Line and PDS organizations have a profit and loss responsibility. Further, the Leadership Team also monitors the company's sustainability performance and approves the sustainability goals in cooperation with the Board of Directors.

Members of the Leadership Team as at 31 December 2018

Kimmo Alkio

President and CEO

Born: 1963

Nationality: Finnish

Education: BBA and Executive MBA

Joined the company in 2011

Håkan Dahlström

Executive Vice President, Technology Services and Modernization

Born: 1962

Nationality: Swedish Education: MSc. (Eng.)

Joined the company in 2014

Ari Järvelä

Executive Vice President, New Data-Driven Businesses,

Business Consulting and Implementation

Born: 1969

Nationality: Finnish Education: MSc. (Eng.)

Joined the company in 2001

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Satu Kiiskinen

Executive Vice President, Industrial and Consumer Services

Born: 1965

Nationality: Finnish Education: MSc. (Econ.) Joined the company in 2013

Katariina Kravi

Executive Vice President, Human Resources

Born: 1967

Nationality: Finnish

Education: LL.M., trained on the bench

Joined the company in 2012

Tom Leskinen

Executive Vice President, Product Development Services

Born: 1966

Nationality: Finnish

Education: LicSc. (Tech.)

Joined the company in 2013

Cristina Petrescu

Executive Vice President, Public, Healthcare & Welfare

Born: 1968

Nationality: Swedish

Education: MSc. (Computer Science)

Joined the company in 2002

Janne Salminen¹⁾

Acting Chief Financial Officer

Born: 1964

Nationality: Finnish Education: MSc. (Econ.) Joined the company in 2009

Christian Segersven

Executive Vice President, Financial Services

Born: 1975

Nationality: Finnish Education: MSc. (Tech.) Joined the company in 2013

Markus Suomi

Chief Technology Officer

Born: 1971

Nationality: Finnish Education: MSc. (Eng.) Joined the company in 2018

The remuneration of the Leadership Team is presented in the tables of the **Remuneration Statement**. More detailed background information, such as full CVs of the Leadership Team, is presented on the company's website at **www.tieto.com/investors**.

¹⁾ Lasse Heinonen acted as the CFO until 17 July 2018. Tomi Hyryläinen started as the new CFO in February 2019.

Internal control and risk management

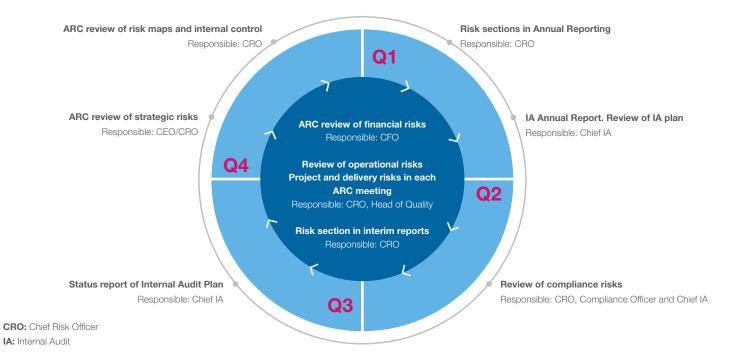
Tieto's internal control framework supports the execution of the strategy and ensures regulatory compliance. The foundation for internal control is set by the risk management framework, financial control, internal audit and supporting policies.

The aim of Tieto's internal control framework is to assure that operations are effective and well aligned with the strategic goals. The internal control framework is intended to ensure correct, reliable, complete and timely financial reporting and management information. The framework endorses ethical values, good corporate governance and risk management practices. The

activities related to internal control and risk management are part of Tieto's management practices and integrated into the business and planning processes.

Risk Management Framework

Tieto uses systematic risk management to develop the efficiency and control of business operations as well as their profitability and continuity.





The risk management framework consists of the risk management organization, related policies, operating principles, processes and tools. The risk management organization develops and maintains the company's risk management framework, including risk reporting, risk management governance and follow-up of risk exposures consisting of strategic, financial, operational and compliance risks.

The risk management organization consists of a central group wide unit and virtual team, whose members are located in the different units.

Each process owner is responsible for the continuous development and improvement of the established procedures, including controls and risk management. The Chief Risk Officer (CRO) has the responsibility to arrange and lead Tieto's risk management. The Internal Audit (IA) assures the efficiency of the framework and risk management in business operations. The ARC monitors the adequacy of the company's risk management, financial control, and internal audit functions.

Tieto has also specified its compliance management system, including the compliance organization, steering model and annual plan for compliance-related activities. The Group Compliance Officer is responsible for ensuring the effectiveness and functionality of the governance model and coordinating the compliance work. In 2018, the existing Tieto internal Compliance Board was extended to include Privacy and Security and renamed to Privacy, Security and Compliance Board.

Continuous development of the risk framework

During 2018 the main improvements were implementation and launch of Audit Management module to the GRC platform, also a new version of Privacy Risk Assessment module was implemented and launched during the year.

With the audit management system Tieto gets improved online visibility of the audits from planning to closure regarding scope, time plan, findings and reports to the stakeholders. The system covers Quality, Security, ISO, ISAE and both internal and external audits.

In addition, the company enhanced the Security incident management system that was introduced in 2017, to integrate it better to Tieto Internal SOC/CERT way of working.

The development of the risk management framework is carried out in close cooperation with Risk Coaches, Security Managers, Quality Partners and persons responsible for Privacy in the units and approved by the Tieto Leadership Team and validated by the ARC.

Financial control

The purpose of internal control over financial reporting is to ensure the correctness of financial reporting, including interim and annual reports and the compliance of financial reporting with regulatory requirements.

The ARC has the oversight role in Tieto's external financial reporting.



Financial reporting process and responsibilities

Tieto has a common accounting and reporting platform. Group consolidation and reporting are based on the reporting system, which facilitates common control requirements for all legal entities reporting to the Group. Tieto does continuous improvements to the common accounting and reporting platform to accommodate the internal needs and new regulatory requirements.

Financial reporting consists of monthly performance reports, including all the key performance indicators, rolling forecasts and interim financial reports.

Financial reports are regularly reviewed by Finance Partners in the units, the Leadership Team and the Board of Directors. The follow-up is based on a thorough comparison of the actual figures with the set objectives, forecasts and previous periods. If the figures deviate, the Leadership Team members are responsible for initiating corrective actions.

Internal audit

Tieto's Internal Audit function carries out both business- and control-related audit activities.

Business audit activities aim to ensure the efficiency and appropriateness of Tieto's operations. Control-related audit activities are intended to assess and assure the adequacy and effectiveness of internal controls and the risk management framework within Tieto. Internal audits are planned and carried out independently but in coordination with other control functions and the external auditors. Audits can also be initiated due to escalations/whistleblowing, fraud attempts, misconducts or other breaches of laws or the company's policies and rules. Internal Audit reports to the Chief Financial Officer (CFO), the President and CEO and the ARC. The annual audit plan and the annual internal audit report are approved by the ARC.

Major risks

Tieto has four risk categories: strategic, operational, financial and compliance risks.

Strategic risks are related to market volatility, IT market transformation to new technologies (including the rapid digitalization and automatization of society), change management, reskilling ability and speed, agility to respond to new entrants in the market, dependencies on few big customers in some business areas and ensuring delivery quality in the dynamic business environment.

Operational risks refer to changing the business model in business units, risk and continuity management, customer bidding and requirement analysis and maintaining a high professional standard in delivery management and guality assurance.

Financial risks mainly consist of credit risks, currency risks, interest rate risks and liquidity risks.

Compliance risks are connected to the organization failing to recognize or meet the requirements in the areas of legislation or other mandatory regulation (e.g. new General Data Protection Regulation, anti-corruption, anti-bribery, insider matters, sanctions and trade compliance), internal policies and rules or ethics and integrity.

Risks are aggregated by utilizing the corporate GRC platform, resulting in risk maps that are reviewed by Leadership Teams in the units and the ARC. Tieto's major risks and the measures for their mitigation are described below.



Market volatility

Changes in the Nordic core markets have a direct effect on market conditions and result in volatility that might have a negative impact on Nordic market growth. Changes in the economic environment and customer demand can affect both business volumes and price levels, which might result in lower income or slower income growth than expected.

These potential impacts are partly mitigated through multi-year contracts for continuous services. Tieto also aims to maintain long-term business relations and to be a preferred supplier to its key customers, including full stack IT deliveries. The company executes tight cost and investment control with continuous investment performance monitoring, accompanied with a clear structure for decision rights, which are defined in the Operative Decision Making and Authority Policy and Leadership Team Member Delegation Rights Rule.

Global service capabilities, cross-selling and tough price competition are the main drivers in the IT sector for the development of the global delivery model. Tieto's position as a leading enterprise cloud service provider in the Nordics is supported by existing and enhanced competencies, and by the choice of right partners.

Change and transformation

In large-scale adaptation to the market by organizational transformation and right-sizing, resistance to change can prolong the transition, which may affect operational efficiency long after the change.

The change management capacity is concentrated in a common programme management office (PMO), which provides standard tools and systems for the change, including communication, target setting and training for the transition period of strategy execution. PMO can also be used to plan reskilling, staffing and retention to respond to challenges from new entrants in the market.

The Results Management Office (RMO) sets common standards in project management and it is used to ensure compliance in project financials management and follow-up.

As a very large share of Tieto's sales and the majority of profits are generated in Finland, the company's high market share in this country means that achieving growth there is challenging, but possible. Sweden is the second-biggest market and generates a significant portion of the growth. Additionally, around half of our current consulting-type revenue is from short-term contracts, but a strong order backlog compensates for this.

Sudden changes in the market environment, customer demand and customer strategies or the competitive landscape in these areas might harm Tieto's operations and profitability.

To diversify the business, Tieto also provides services to several different industries and aims to develop its business mix with a view to providing full stack IT services / new hybrid cloud solutions and thereby strengthen its position amongst both current and new customers. An industrialized and standardized approach to providing services and solutions, employing automated processes, is a means of improving competitiveness and reducing the risk.

Service continuity

Close to 100% availability is the basis of trust among customers, stakeholders and society. Thus, business continuity planning is a high priority in Tieto's operational management in order to ensure that redundancy and fault tolerance are at the appropriate level.

To reduce the service continuity risk and to better understand the interdependencies in data centres, Tieto constantly reviews, maintains and improves its IT asset management, configuration management and monitoring systems. In addition to a comprehensive business interruption insurance portfolio, Tieto has recovery procedures and backup systems in place to handle potential service interruptions. Root cause analysis, best practices and experiences from previous incidents help in preparing for and mitigating service continuity risk.

Also, a comprehensive and robust Major Incident Management process reduces service interruptions.



Quality costs related to customer bidding and delivery management

Inability to appropriately understand and analyse customers' changing needs, their business processes and the exact requirements can lead to misjudgements in setting the scope of projects or services and, consequently, difficulties in meeting the specifications of customer agreements. This in turn can result in project overruns, operating losses or termination of customer contracts.

Tieto continuously gathers customer feedback to establish the requirement baselines and checklists for different business areas. Continuous improvement of the bid risk management, requirement analysis, delivery management and the quality assurance of the deliveries are carried out to mitigate the risk. Also, a specific risk management framework is used for better understanding of customer bidding and end-to-end risks, from sales to the closure of the delivery. In case of changes in customers' business requirements, it is contractually agreed that the consequent changes in project deliveries are managed throughout the project organization in a standardized manner.

Retention of employees

Fresh competition and demand for new services require ability and speed to reskill, attract new and retain existing competences and business knowledge for new service models and offerings. Tieto's success builds on passion, innovation, attracting talent, skills renewal, business knowledge and the maturity of the organization. In addition, the performance of its employees and managers both locally and in its delivery centres worldwide is key to its success.

Inability to retain key employees and to recruit new talent with the required competence might have a negative impact on the company's performance and strategy implementation. High employee turnover might also cause delays in customer projects, leading to penalties or loss of customer accounts.

To reduce these risks, Tieto implements unified delivery models across sites and offers its employees challenging jobs, diverse development possibilities, social recognition and training opportunities as well as interesting career paths through job rotation. Furthermore, the company has competitive compensation packages, including a company-wide incentive system. Attractive recruitment tools, strategies, talent management and competence development have a high strategic priority at Tieto. The company also focuses on Employer Branding to build and strengthen Tieto's image as an attractive employer both internally and externally.

Credit risks

Changes in the general market environment and global economy can usher in additional financial risks. Credit risks might arise if customers or financial counterparties are not able to fulfil their commitments towards Tieto.

Under Tieto's Credit Policy, the finance department together with the business organization is responsible for assessing customers' creditworthiness, taking into account past experience, their financial position and other relevant factors. Credit risk regarding financial counterparties is managed by using counterparty limits, as set out in Tieto's Treasury Policy.

A special focus has been put on raising awareness of credit risks with additional reporting and training processes. The collection process has been adjusted as part of the activities aiming at credit management improvement.

Currency risks

Tieto's currency transaction exposure arises from foreign trade, cash management and internal funding in foreign currencies. Translating the balance sheets and income statements of Group companies into euros creates a translation exposure.



As a substantial proportion of the Group's consolidated revenues are generated in Sweden, fluctuations of the Swedish krona against the euro may have an impact on the consolidated financial statements.

Tieto's Treasury Policy defines the principles and risk limits under which Group Treasury manages currency risks.

Liquidity risks

Exceptional market conditions in the financial market might impose temporary limitations on raising new funding and lead to an increase in funding costs.

Group Treasury monitors and manages Tieto's liquidity position by maintaining a sufficient loan and investment portfolio. Analyses of alternative financing sources for the company and their pricing are continuously updated. Tieto's financial risks are described in full in the notes to the consolidated financial statements.

Governance of risk and compliance

At Tieto, governance, risk, and compliance (GRC) are closely linked and consistently defined in corporate policies and rules with proper controls. In the finance function, for example, financial reporting, compliance and risk monitoring are efficiently integrated into daily operations. Thanks to automated processes, Tieto can readily adapt to changes in business conditions, regulations or corporate policy with the necessary risk management controls.

Tieto has invested in process automation, which is seen as a way to improve quality and reduce costs. Well-drafted policies and rules are made available to assure that the implications of automation on risk and compliance are fully understood by all parties in the organization.

Related-party transactions

Tieto discloses the information concerning related-party transactions in the report by the Board of Directors and notes of the consolidated financial statements.

Further, the company evaluates, and monitors transactions concluded between the company and its related parties and seeks to ensure that any conflicts of interest shall be taken into account in the decision making.

The related-party transactions are summarized in **note 28** of the consolidated financial statements. Tieto does not currently consider the related-party transactions material from the perspective of the company.

Furthermore, such transactions neither deviate from the company's normal business operations nor are they made on terms that deviate from market equivalent.



Insider administration

Tieto follows Nasdaq Helsinki's Rules of the Exchange and Guidelines for Insiders. In addition, Tieto's Board of Directors has adopted an internal Tieto Insider Rule.

Tieto has specified that the Board of Directors and the President and CEO of the parent company Tieto Corporation are subject to the requirement to notify their transactions. In addition, Tieto has set restrictions on trading for the members of the Leadership Team, persons participating in the preparation of interim reports and consolidated financial statements as well as other persons who are considered to receive information of a confidential and sensitive nature in their position or service.

The managers and other persons subject to trading restrictions are prohibited from dealing in Tieto's shares or other financial instruments during the closed period. The closed period covers 30 calendar days before the disclosure of an interim financial report or a financial statement release including the date of disclosure (= 30 + 1 days).

At Tieto, the General Counsel is in charge of insider administration. Tieto's Legal department shall monitor the compliance with the insider regulation and takes care of necessary guidance and training.

Auditors

The ARC prepares a proposal on the appointment of Tieto's auditors, which is then presented to the Board and finally to the AGM for its decision. The compensation paid to the auditors is decided by the AGM and assessed annually by the ARC.

The Board of Directors proposes to the Annual General Meeting, in accordance with the recommendation of the Audit and Risk Committee of the Board of Directors that the auditor to be elected at the AGM 2019 be reimbursed according to the auditor's invoice and in compliance with the purchase principles approved by the Committee.

The Board of Directors proposes to the Annual General Meeting, in accordance with the recommendation of the Audit and Risk Committee of the Board of Directors, that the firm of authorized public accountants Deloitte Oy be elected as the company's auditor for the financial year 2019. The firm of authorized public accountants Deloitte Oy has notified that Jukka Vattulainen, Authorized Public Accountant, will act as the auditor with principal responsibility.

Auditing

The AGM 2018 re-elected the firm of authorized public accountants PricewaterhouseCoopers Oy as the company's auditor for the financial year 2018. PricewaterhouseCoopers Oy notified the company that Authorized Public Accountant Tomi Hyryläinen acts as principal auditor. Due to the appointment of Tomi Hyryläinen as Tieto's CFO as from February 2019, PricewaterhouseCoopers Oy resigned from the audit assignment for the financial year 2018. The Finnish Patent and Registration Office designated Deloitte Oy as the new auditor. Authorized Public Accountant Jukka Vattulainen has acted as the auditor with principal responsibility.

In 2018, Tieto Group paid the auditors a total of EUR 1.1 (0.8) million in audit fees, of which EUR 0.8 (0.8) million to the Group's auditor PricewaterhouseCoopers and 0.3 (-) million to Deloitte, and a total of EUR 0.8 (0.3) million for other services, of which EUR 0.6 (0.3) million to the Group's auditor PricewaterhouseCoopers and 0.2 (-) to Deloitte.



Remuneration Statement

The aim of Tieto's remuneration principles is to attract and retain talent, motivate key people and align the goals of the company's shareholders and executives in order to enhance the value of the company.

Rules on how the company shall compensate its employees are defined in Tieto's HR Policy and related rules. The policy is globally applied to all Tieto entities and units to support the company's strategy, objectives and values.

Remuneration of the Board of Directors is decided by the AGM based on a proposal by the SNB. The RC is responsible for planning the remuneration of the Leadership Team members and preparing the principles underlying the remuneration of Tieto personnel. The Board of Directors decides on the remuneration of the President and CEO and other members of the Leadership Team based on a proposal by the RC.

Remuneration of the Board

According to the decision of AGM 2018, the annual remuneration of the Board of Directors is the following:

- EUR 91 000 to the Chairman,
- EUR 55 000 to the Deputy Chairman and
- EUR 36 000 to the ordinary members of the Board of Directors.

The same fee as to the Board Deputy Chairman will be paid to the Chairman of the Board Committee unless the same individual is also the Chairman or Deputy Chairman of the Board. In addition, remuneration of EUR 800 is paid for each Board meeting and each permanent or temporary committee meeting.

Further, the AGM 2018 decided that 40% of the fixed annual remuneration will be paid in Tieto Corporation's shares purchased from the market. No restrictions have been set on Board members concerning how they may assign these shares, but the company recommends that Board members should retain ownership of all the shares they have received as remuneration for as long as they serve on Tieto's Board.

In addition to the aforementioned share remuneration, the Board members do not belong to or are not compensated with other share-based arrangements, nor do the members have any pension plans at Tieto. Tieto executives or employees are not entitled to compensation for their Board positions or meeting attendance in the Group companies. None of the Board members, except the personnel representatives, have an employment relationship or service contract with Tieto.



Compensation of individual Board members and Board in 2018¹⁾

	Annual rem		
Name	EUR (60%) ²⁾	Shares (40%)3)	Meeting based, EUR
Kurt Jofs (Chairman and RC Chairman)	54 600	1 219	15 200
Harri-Pekka Kaukonen			
(Deputy Chairman and ARC Chairman)	33 023	736	19 200
Timo Ahopelto	21 607	482	18 400
Liselotte Hägertz Engstam ⁴⁾	21 607	482	17 600
Johanna Lamminen	21 607	482	18 400
Sari Pajari ⁵⁾	N/A	N/A	3 200
Endre Rangnes	21 607	482	15 200
Jonas Synnergren	21 607	482	15 200
Jonas Wiström ⁵⁾	N/A	N/A	2 400
In total	EUR 195 661	4 365 shares	EUR 124 800

Board of Directors' shareholdings in Tieto⁶⁾

Name	At 31 Dec 2018	At 31 Dec 2017
Kurt Jofs (Chairman, RC Chairman)	14 930	13 711
Harri-Pekka Kaukonen (Deputy Chairman and ARC Chairman)	2 079	1 343
Timo Ahopelto	982	500
Liselotte Hägertz Engstam ⁴⁾	482	N/A
Johanna Lamminen	1 560	1 078
Sari Pajari ⁵⁾	N/A	4 096
Endre Rangnes	2 835	2 353
Jonas Synnergren	4 578	4 096
Jonas Wiström ⁵⁾	N/A	500

¹⁾ The Board members have not received any other benefits.

²⁾ Gross compensation before taxes.

³⁾ Shares were purchased and delivered in May 2018.

⁴⁾ Board member as from 22 March 2018.

⁵⁾ Board member until 22 March 2018.

⁶ Corporations over which the Board members exercise control did not have shares or share-based rights on 31 December 2018.



Summary of Remuneration of the Tieto Leadership Team

Element	Purpose	Description
Salary	Recognizes of continuous daily contribution	Fixed compensation for performing defined job responsibilities. In addition to monthly salary, car and mobile phone benefits can be paid as per company policy. Salary is reviewed annually based on individual's performance and salary market condititions.
Short-term incentives	Rewards for company and individual performance	Cash-based plan rewarding for the short term (12-month) company and individual success. The bonus for the President and CEO is 50% and for other Leadership Team members 40% of the annual base salary when the performance is at expected level; the maximum bonus for the President and CEO is 100% and for the other Leadership Team members 75%. The amount of bonuses is decided by the Board of Directors after the consolidated financial statements have been prepared. Weighting of the reward factors for the President and CEO and other Leadership Team members is described in a separate table. The reward targets are set annually by the Board of Directors.
Long-term incentives	Encourages ownership culture	Share-based plans reward leadership and key employees for company growth and achievement of defined strategic goals. LTI plans are annually commencing plans with three-year performance period. Key principles of Tieto's share plans, such as the basis and size of rewards, are described on the company's website at www.tieto.com/investors.
Additional pension	Provides appropriate retirement benefits	President and CEO: defined contribution (DC) plan where the expenditure is 23% of the annual base salary. Retirement age is 63. Other Leadership team members based in Finland have DC plan where the expenditure is 15% of the annual base salary. Leadership team members based outside Finland are provided with individual pension plans according to local practices. Retirement ages are according to applicable local regulations.
Claw back	Ensures pay for performance	Claw back provisions apply to STI and LTI plan rewards in exceptional circumstances such as misconduct or misstatement of financial results.
Share ownership	Encourages to build meaningful shareholding in Tieto	The recommended minimum investment in the company's shares corresponds to the executive's one-time annual gross base salary.
Service contracts and severance pay	Provides for clear contractual terms	President and CEO: if agreement is terminated by Tieto, notice period is twelve months. In the event of termination company shall pay a severance payment equivalent to the base salary and the short-term target incentive for six months in addition to the salary for the notice period. If agreement is terminated by the President and CEO, notice period is six months. Change of control terms are the same as in termination except for the monetary value of the maximum amount of shares granted to him in the most recent long-term incentive plan in addition to the salary for the notice period. For other Leadership Team members termination term vary, amounts correspond to the periods of notice.



Share-based long-term incentives

The terms and conditions of all share-based plans are approved by the Board of Directors.

Long-Term Incentive Plan (LTI) 2015–2017 covered 106 key employees, including Leadership Team members. The plan consists of Performance Shares and Restricted Shares. The performance period was three years from 1 January 2015 to 31 December 2017. Share delivery took place in spring 2018.

Long-Term Incentive Plan (LTI) 2016-2018 covers Leadership Team members and key employees, total 106 participants. The LTI plan consists of Performance Share and Restricted Share Plans. A participant can belong to both share plans or to one plan only. The performance period is three years from 1 January 2016 to 31 December 2018. If the set performance metrics and other requirements are met the shares will be delivered to the participants in spring 2019.

Long-Term Incentive Plan (LTI) 2017-2019 covers Leadership Team members and key employees, total 151 participants. The LTI plan consists of Performance Share and Restricted Share Plans. A participant can belong to both share plans or to one plan only. The performance period is three years from 1 January 2017 to 31 December 2019. If the set performance metrics and other requirements are met the shares will be delivered to the participants in spring 2020.

Long-Term Incentive Plan (LTI) 2018-2020 covers Leadership Team members and key employees, total 246 participants. The LTI plan consists of Performance Share and Restricted Share Plans. A participant can belong to both share plans or to one plan only. The performance period is three years from 1 January 2018 to 31 December 2020. If the set performance metrics and other requirements are met the shares will be delivered to the participants in spring 2021.

The authorizations required by the Board to repurchase the company's own shares and to issue shares shall be proposed to be approved at the AGM on an annual basis. In connection with authorizing the Board to issue shares, the AGM 2018 decided that no more than 700 000 shares, corresponding to less than 1% of all of the shares in the company, may be issued as part of share-based incentive programmes.

Tieto has not established new option plans since AGM 2009. The last option programme 2009 expired when the subscription period for the 2009C series ended on 31 March 2016.

Pension plans

Tieto operates a number of different pension plans in accordance with national requirements and practices. In addition to statutory pension plans, the Leadership Team members are provided with additional pension schemes.

Currently, all additional schemes are classified as defined contribution plans. In contribution-based plans, the payments to the plans are recognized as expenses for the period to which they relate. After the payment of the contribution, the company has no further obligations in respect of such plans.

¹⁾ Last fund-based pension scheme was closed in August 2017.



President and CEO

EUR 637 500 (EUR 600 000).
EUR 3 366 (EUR 3 235)
Estimated EUR 440 194 (EUR 399 415 paid in 2018 for performance in 2017).
Target 50% of base salary based on the Group's external revenue and profit, PDS external revenue and profit and strategy implementation when achievements meet the targets. Maximum 100% of base salary based on the Group's external revenue and profit, PDS external revenue and profit and strategy implementation when achievements exceed the targets. Weighting of the reward factors Profit of the company and PDS 30% External revenue of the company and PDS 40% Strategy implementation 30%
An additional success-based incentive can be paid to the President and CEO in 2020. The incentive is subject to Tieto reaching in 2019 challenging profitability targets (EBIT) set by the Board of Directors in accordance with the company's renewed strategy and financial objectives. The maximum gross number of shares to be earned is 50 000, however not exceeding EUR 3 million. The payable incentive includes Tieto's shares and a cash proportion for covering taxes and tax-related costs arising from the reward.
In March 2018 based on criteria attainment a total of 9 950 shares were transferred to the President and CEO. In addition, a cash portion was paid corresponding to a value of 11 110 shares. The total value of paid gross reward was EUR 609 721. ¹⁾
Entitled to 20 000 Performance Shares if the target levels of the performance metrics are met, 40 000 shares at maximum. The performance period of the plan is 2016-2018. The fair value of these allocations amounts to EUR 537 624. ¹⁾
Entitled to 20 000 Performance Shares if the target levels of the performance metrics are met, 40 000 shares at maximum and 5 000 Restricted Shares. The performance period of the plan is 2017-2019. The fair value of these allocations amounts to EUR 617 796. ¹⁾
Entitled to 22 881 Performance Shares if the target levels of the performance metrics are met, 45 762 shares at maximum. The performance period of the plan is 2018-2020. The share allocation equaled to 100% of annual base salary at the time of grant. The fair value of these allocations amounts to EUR 647 441.12
EUR 660 246 (EUR 399 081)
EUR 314 530 (EUR 277 593) ²⁾

¹⁾ The fair market value for the Long-term Incentive Plans is calculated using the latest performance estimates and the value of the Tieto share on 31 December 2018, EUR 23.58.

Updated information on the shares and options held by the President and CEO is available on the company's website at www.tieto.com/investors under the insider register.

²⁾ Payments to defined contribution plans are recognized as expenses for the period to which they relate. After payment of the contribution the Group has no further obligations in respect of such plans.



Remuneration of Leadership Team members

The table below summarizes the remuneration of the Leadership Team members.

Leadership Team (excluding the President and CEO)

Total salaries 2018 (2017)	EUR 2 312 039 (EUR 2 789 836)
Total benefits 2018 (2017)	EUR 115 178 (EUR 122 444)
Special payments 2018 (2017)	EUR 0 (EUR 477 137 (Severance pay))
Total bonuses 2018 (2017)	Estimated EUR 782 506 (EUR 825 218 paid in 2018 for performance in 2017).
Basis of bonus 2018	Target 40% of base salary, maximum 75% of the base salary. The purpose of the bonus is to reward for company performance and individual performance. These two form the overall performance evaluation (OPE). OPE for each LT member is confirmed by the Board. CFO: in addition to individual performance measurement, the bonus is based on company performance, measured by the following factors • Profit of the company • External revenue • Cash flow improvement Other LT members: in addition to individual performance measurement, the bonus is based on • company and/or • own Industry Group- or Service Line-related performance criteria (operative margin, external revenue and other operational targets)
Long-Term Incentive Plan 2015–2017	In March 2018 based on criteria attainment a total of 25 292 shares were transferred to the Leadership Team members. In addition, a cash portion was paid corresponding to a value of 29 380 shares. The total value of paid gross reward was EUR 1 582 842.
Long-Term Incentive Plan 2016–2018	Leadership Team members are entitled to 81 000 Performance Shares if the maximum levels of the performance metrics are met and 9 000 Restricted Shares. The performance period of the plan is 2016–2018. The fair value of these allocations is EUR 1 300 909.1)
Long-Term Incentive Plan 2017–2019	Leadership Team members are entitled to 112 800 Performance Shares if the maximum levels of the performance metrics are met. The performance period of the plan is 2018–2020. The fair value of these allocations is EUR 1 595 894. ¹⁾
Long-Term Incentive Plan 2018–2020	Leadership Team members are entitled to 112 800 Performance Shares if the maximum levels of the performance metrics are met. The performance period of the plan is 2018–2020. The fair value of these allocations is EUR 1 595 894. ¹⁾
Expenditures related to share-based incentives	EUR 1 727 068 (EUR 1 102 133)
Pension expenditure	EUR 772 335 (EUR 1 058 548). ²⁾

¹⁾ The fair market value for Long-term Incentive Plan 2016–2018, Long-term Incentive Plan 2017–2019 and Long-term Incentive Plan 2018–2020 is calculated using the latest performance estimates and the value of the Tieto share on 31 December 2018, EUR 23.58.

²⁾ Payments to defined contribution plans are recognized as expenses for the period to which they relate. After payment of the contribution the Group has no further obligations in respect of such plans.



Shareholdings of the Leadership Team¹⁾

Name	Shares at 31 Dec 2018	Shares at 31 Dec 2017
Kimmo Alkio	30 000	32 971
Håkan Dahlström	7 308	3 042
Lasse Heinonen ²⁾	N/A	17 767
Ari Järvelä	10 427	6 945
Satu Kiiskinen	11 992	5 366
Katariina Kravi	8 368	5 476
Tom Leskinen	1 085	100
Cristina Petrescu	948	702
Janne Salminen ³⁾	1 597	N/A
Christian Segersven	200	0
Markus Suomi ⁴⁾	0	N/A

The compensation of the whole Leadership Team in 2017 is also summarized in **note 7** of the consolidated financial statements. The remuneration statement is available on the company's website at **www.tieto.com/investors**.

¹⁾ Corporations over which the CEO exercises control did not have shares nor share-based rights on 31 December 2018. Tieto does not have any active option programmes.

²⁾ Leadership Team member until 31 July 2018.

³⁾ Acting CFO as of 17 July 2018.

⁴⁾ Leadership Team member as from 1 April 2018.



Letter from the Chairman of the Remuneration Committee

Dear Shareholder,

Our strategy execution becoming customers' first choice for business renewal is in well underway. The breadth of our services and software, coupled with our targeted investments, have established a solid foundation for growth. In the coming years we will continue building on this strong foundation to further accelerate growth.

Our rewarding approach

The aim of Tieto's reward practices is to ensure that we can hire and retain top talent and offer market competitive total compensation. Also, we want to reward our employees for high performance in achieving both individual and company objectives. Tieto rewarding structures are designed to generate attraction and motivation which impact employee satisfaction and engagement. We are proud of improvement in employee engagement score which correlates directly with improvement in our customer experience results measured by Net Promoter Score.

Focus areas and remuneration activities in 2018

The Remuneration Committee agenda for 2018 continued on ensuring the reward practices are market competitive and thus support strategy execution. Our focused efforts in talent acquisition have paid off and over 3000 specialists, developers, architects and consultants have joined Tieto during 2018.

At the beginning of 2018, the Remuneration Committee approved the incentive payouts for the financial year 2017. Tieto paid out a total of EUR 30.6 million to the management and employees as short-term incentives and bonuses. The CEO and Leadership Team members received total of EUR 1.2 million as paid incentives.

We have provided strong value to all our key stakeholders. This is also reflected in our Long-Term Incentive Program (LTI) 2015–2017 result and share delivery to 123 plan participants took place in March 2018. The President and CEO received 9 950 net shares and other Leadership Team members in total 25 292 net shares.

A new Long-Term Incentive Plan for 2018–2020 was approved by the Board of Directors in early 2018, based on the recommendation from the Remuneration Committee. The purpose of the Long-Term Incentive Plan is to ensure that the company will meet the long-term targets, to align the interests of the management and shareholders, and reward selected employees who act as a role model our values. It is also a key element in the total compensation of Tieto management, which directly links the paid compensation to the company's success. Plan participation was extended to selected employees who demonstrate first-rate technical skills and are critical in ensuring successful execution of the next phase of our strategy. For the 2018–2020 plan, the performance metrics were agreed to be earnings per share (30%), total shareholder return (20%) and growth (50%) as in the previous plan.



Remuneration for 2018

The short-term incentive plan for 2018 to the President and CEO was based on both the agreed financial goals and success in strategy execution. Based on performance against the targets set, bonuses earned in 2018 (payable in spring 2019) ranged from 26% to 69% of salary for the President and CEO and Leadership Team members.

Share-based program 2016-2018 included 106 participants on 31 December 2018. Final share delivery from this plan is taking place in spring 2019 following the criteria set for the plan.

Remuneration for 2019

At the end of 2018, the Remuneration Committee started preparing a new long-term incentive plan for the years 2019–2021 with a continued focus on growth and profitability. In addition to senior management of the company, we will continue to nominate key technical talent into this new long-term incentive plan.

Short-term incentive measures are designed to further direct senior management focus into company profitability, growth and strategically important initiatives within own responsibility areas. In 2019 we are introducing more agile and flexible rewarding by increasing the use of anytime spot reward noticeably thus sharing our success with personnel.

Kurt Jofs

Chairman of the Board of Directors
Chairman of the Remuneration Committee



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REPORT BY THE BOARD OF DIRECTORS

Five-year key figures

	2018	20171)	2016	2015	2014
Net sales, EUR million	1 599.5	1 543.4	1 492.6	1 460.1	1 522.5
Operating profit (EBIT), EUR million	154.7	139.1	140.8	125.2	61.1
Operating margin, %	9.7	9.0	9.4	8.6	4.0
Profit before taxes, EUR million	152.8	135.7	136.8	119.3	56.6
Earnings per share, EUR					
Basic	1.67	1.46	1.46	1.23	0.48
Diluted	1.66	1.46	1.46	1.23	0.48
Equity per share, EUR	6.54	6.46	6.62	6.57	6.44
Dividend per share, EUR	1.45	1.40	1.37	1.35	1.30
Capital expenditure, EUR million	45.0	50.8	61.6	50.5	42.5
Acquisitions, EUR million	14.5	49.3	37.6	86.2	1.1
Return on equity, 12-month rolling, %	25.7	22.3	22.1	19.0	7.1
Return on capital employed, 12-month rolling, %	20.9	20.5	21.6	20.4	9.8
Gearing, %	28.5	32.7	22.5	2.7	-12.6
Interest-bearing net debt, EUR million	137.4	155.7	109.7	13.2	-59.2
Net debt/EBITDA	0.7	0.8	0.6	0.1	-0.4
Equity ratio, %	41.3	42.5	47.3	46.2	47.8
Personnel on average	14 907	13 889	13 472	13 184	14 007
Personnel on 31 Dec	15 190	14 329	13 876	13 083	13 720

¹⁾ 2017 comparative figures have been restated due to the adoption of IFRS 15.

See calculation of key figures on page Calculation of key figures.



IT market development

Operational agility and innovation of new data-driven business models are high on customers' agenda. Enterprises and public institutions are increasing their investments in innovating new data-rich services and differentiating experiences for their customers.

Data is the prime enabler of this change and the use cases cross over traditional industry boundaries, utilizing multiple sources of data and data-rich platforms. A large-scale revamp of business models is needed across industries, while ensuring business continuity.

Due to customers' need for business renewal and adoption of new technologies, the market remains dynamic. In 2019, the Nordic market is anticipated to grow by 2-3%. The mix is continuing to see a major shift, with reduced spending on basic infrastructure services and increased spending on consulting and application services that can unleash value from data. Investments in co-creating datadriven value propositions and utilizing data assets are increasing. Over 70% of customers' IT budgets are spent on business-led renewal to ensure competitiveness, and this provides a significant opportunity for IT service providers to support this renewal to derive value from data. The market for new services built around

new cloud-native applications, design and data is anticipated to grow by over 20%.

Value creation for customers requires continuous renewal and innovation, including:

- Design of service experiences and defining the business models
- Building and accessing the data assets needed for the new business models and experiences
- Adapting the enterprise architecture
- Rationalization of the application portfolio

 renew, refactor, retire, rewrite and
 develop new applications to realize new
 business models

Technology forms the backbone of the pursuit of this agenda. It is assumed that well-orchestrated hybrid infrastructure will ensure business agility and optimize costs. The technology architectures remain hybrid across public cloud, private cloud and onpremise platforms. Public cloud is assuming a greater significance while demand for private cloud and traditional infrastructure services is expected to remain good. Spending on public cloud is expected to grow annually by 25–30% and private cloud by 10–15% in the coming years.

Industry sector drivers

- In the FINANCIAL SERVICES sector, the digital transformation and core system renewals continue. Compliance with new regulations, open banking digitalization and real-time payments are driving fundamental changes in the sector. The rapid market changes have also increased demand for a variety of competences, resulting in temporarily increased cost inflation pressures across the Nordic countries. In Industry Solutions, there is a clear shift towards Software as a Service delivered on secure cloud platforms and consumption-based models. In infrastructure services, price pressure has remained strong and there is a clear trend for demand to shift towards the public cloud.
- In the PUBLIC sector, the digitalization
 of services and processes will continue
 with efficiency and citizen experience as
 key drivers. High demand for consulting
 services and system administration
 is attributable to the fact that many
 customers are experiencing a shortage
 of skilful competences. In Finland, Tieto
 is actively participating in Government
 development programmes and demand is

- good for case management solutions and new data-driven offerings, for example.
- In the **HEALTHCARE AND WELFARE** sector, the digitalization trend will continue to support easier and faster access to healthcare for citizens. All the Nordic countries are planning ambitious largescale projects to enhance eHealth. The prevailing trend is to move towards integrated healthcare and welfare systems supporting seamless care. Additionally, there is increased interest in artificial intelligence-based solutions, which is also attracting new startups into the market. In Finland, the social and healthcare reform has been postponed, resulting in some delays in the large-scale renewal of the Electronic Health Record; however, the reform is expected to provide good opportunities in the coming years. In Sweden, the focus is on the ongoing procurement of the Electronic Health Record.
- The Nordic MANUFACTURING sector continues to experience a shift from traditional production and distribution models to a more service-driven business model, and clients are seeking ways to adapt their ways of working accordingly.
 This is leading to the renewal of core



business processes and systems as well as increased investments in intelligent data-driven solutions. Customer experience is becoming increasingly important in the B2B segment, while at the same time there is a continuous focus on efficiency improvements.

- In the **FOREST** sector, there is a greater focus on finding new innovative applications for wood-based products as an alternative to fossil-based materials. In the paper industry, the need to lower production costs continues to drive the adoption of new digital solutions, such as Smart Manufacturing using IoT, advanced robotics and analytics. Companies in the **PULP AND PAPER** sector in the Nordics are starting to prepare for the modernization of their enterprise applications in the coming years to enable themselves to be more agile and adaptive to market demands.
- In the RETAIL AND LOGISTICS sector, enterprises are investing in new digital commerce, marketing and payment capabilities to be able to provide a seamless customer experience in all interaction across different touchpoints.
 In logistics, smart turnkey delivery solutions and new legislation supporting peer-to-peer logistic solutions is poised

- to revolutionize consumer deliveries in the Nordics, particularly in the urban landscape. The instore experience is increasing its importance as a means of differentiation in online retail competition. Retailers use data and analytics to better understand and predict consumer demand and plan their assortments accordingly.
- The ENERGY UTILITY market is going through many changes, mainly driven by regulatory requirements. The Advanced Meter Infrastructure market is preparing for the second generation of Smart Meters, helping consumers increase awareness of their energy consumption. The first signs of a more dynamic market are evident, with consumers starting to play an active role in the distributed energy market. In the oil & gas market, the market for new development projects is experiencing continued recovery, and demand for solutions that target increased productivity is improving.
- In the TELECOM sector, new opportunities based on 5G will enable telecom providers to diversify into new value-added services and provide key platforms for IoT- and cognitive automation-based innovations. Telecom service providers continue to explore

new areas and services to generate additional revenue. The sector continues to pursue increased efficiency through automation and cloudification of core operations. Closer co-operation between telecom and media companies with a view to providing convenient consumerspecific content is anticipated to provide growth opportunities in both segments. Additionally, data and consumer insight is expected to be a growth driver for both the telecom and media sector.

Annual report 2018



Strategy

Based on the strategy launched in 2016, Tieto aims to accelerate value to customers through the co-creation of new data-driven experience and business models, end-to-end industry-specific software and solutions, and modernization of customers' technology architecture (applications and infrastructure). Tieto continued to consistently execute the strategy based on the objectives set for the year. In 2018, the focus was on areas such as innovation with a special emphasis on the renewal of industry solutions, accelerating the company's data-driven businesses, customer experience, productivity and ensuring future skills.

Tieto's growth of 7% in local currencies clearly exceeds market growth and was supported by acquisitions, including Avega (December 2017), Petrostreamz (February 2018), NSEC (April 2018) and Meridium (November 2018). Growth in Sweden was strong, 11% in local currencies.

Active investments in improving the functionality and technological renewal of industry solutions continued during the year, and a number of important launches were completed. Related development investments increased by EUR 10 million during 2018. Tieto has pursued significant renewal to enable standardized software products, open

technologies and scalable architectures, especially in the case of Payments, Lifecare and SmartUtilities products. The renewal will enable faster development of functionality, access to a larger customer base and future growth. It proceeded according to plan, with a focus on the following solutions:

- Payments: The main investments have been made in renewing the architecture and technology platform of Tieto's Virtual Account Management solution, which will enable further scalability, better functionality and more flexible integration. The modernization of the product was completed during the summer and rollout to existing customers and onboarding new customers on the product are ongoing.
- Lifecare: The main investments are made in the development of the Healthcare Information System, which will also be compliant with open Electronic Health Records specifications. Several launches took place during the autumn and further development of functionalities in the renewed product will continue.
- SmartUtilities: The investments involve creating a standard Nordic platform for customer engagement for Nordic utility companies, building on the knowledge in the industry and consolidating multiple customized products in a common

SmartUtility platform that can be delivered as a service. Initial releases of the product were made available to pilot customers during 2018. The development of the platform will continue during 2019.

Growth businesses

In 2018, Tieto continued to invest in accelerating growth based on selected businesses. The largest portion of investments was targeted at selected industry solutions, including the use cases in Tieto's Data-Driven Businesses. The large-scale renewal in 2018 provides a good foundation for accelerated growth in the coming years. The focus is on the following solutions and services:

Selected industry solutions with aggregated annual sales of around EUR 410 million in 2018

- Lifecare (Healthcare and welfare)
- Case Management (Public sector)
- Credit solutions (Financial services)
- Payments (Financial services)
- Hydrocarbon Management (Oil and gas segment)
- Production Excellence (Manufacturing sector)
- SmartUtilities (Energy)

Selected growth services with annual sales of around EUR 200 million in 2018

- Data-Driven Businesses (annual sales around EUR 5 million)
- Cloud services (annual sales around EUR 125 million¹¹)
- Customer Experience Management (annual sales close to EUR 60 million)
- Security Services (annual sales over EUR 10 million).

In the full year, sales of the growth businesses increased by around 7% in local currencies, comprising growth of 3% in the selected industry solutions and 17% in selected growth services.

In Data-Driven Businesses, several artificial intelligence-related projects for diverse uses are ongoing across industries. Tieto engages in intensive co-creation activities with customers through a well-tested process and technology stack. The focus has been on driving scale for solutions such as Intelligent Wellbeing, enabling predictive treatment models using healthcare and welfare data, and Empathic Building, utilizing IoT, analytics and system integration to ensure employee wellbeing and efficient workspaces. Additionally, Tieto's Digital Data Platform (Platform as a Service) solution contributed to the significant growth of this



business. The Digital Data Platform processes massive amounts of data scattered across several sources, and has been well received by customers in a number of industries. Tieto together with its clients has achieved good results, for example, from combining data from the healthcare, social welfare and education segments with a view to preventing social exclusion.

Sales of Tieto's infrastructure cloud¹⁾ (Infrastructure as a Service and Platform as a Service), mainly comprising the company's private cloud offerings, increased by 15% in local currencies in the full year. In addition to its infrastructure cloud, Tieto provides public cloud services through its OneCloud infrastructure solution as well as through several other public cloud-enabled service practices, including cloud native development, the company's Datalake solution and Software as a Service. provided by both Tieto and its partners. Tieto is forging ahead with its initiatives to ensure the leading position as a cloud service provider for both application renewal and infrastructure optimization. The implementation of the Public Cloud Programme and the internal training programme to scale up public cloud-certified professionals across service practices continues.

Annual report 2018

Customer Experience Management (CEM) posted growth of 16% in local currencies in the full year. There is an increasing need for partners that can combine strategy, design and technology in a cost-efficient way. Tieto has gained a strong position due to its holistic, agile and technology-agnostic approach combined with its global delivery capabilities. In November, Tieto acquired Meridium AB, a Swedish company employing about 60 digital customer experience professionals.

Security Services' growth accelerated further in the fourth quarter with growth of over 50% in local currencies. In the full year, net sales increased by 16% in local currencies. Demand for security services is good due to customers' increased use of cloud as well as regulatory requirements. Along with the integration of NSEC, acquired in April, Tieto is able to serve customers with demanding requirements related to Nordic cybersecurity services.

New strategy and financial objectives launched

On 6 February 2019, Tieto launched a new strategy to take advantage of the rapidly developing opportunities in the data-rich world – and to continue to elevate financial performance and shareholder value.

The cornerstones of the renewed strategy are to

- significantly grow design- and data-led services, driving customers' innovation and modernization.
- simplify operations, as well as
- continue to focus on the Software,
 Infrastructure and Product Development
 Services businesses.

Implementation of the new strategy will gradually begin during the second quarter.

More details available at

www.tieto.com/investors.

Accelerated value creation is reflected in Tieto's updated financial objectives:

- Growth over 5% (CAGR 2019–2022) with continued active M&As supporting growth
- Adjusted operating margin 13%¹⁾ –
 main drivers include growth, simplified
 operations and automation
- Net debt/EBITDA below 2.0 in the long term²
- Aim is to increase base dividend annually in absolute terms

¹⁾ Adjusted for amortization of acquisition-related intangible assets, restructuring costs, capital gains/losses, goodwill impairment charges and other items affecting comparability. In accordance with IFRS16, taking effect on 1 Jan 2019.

²⁾ In accordance with IFRS 16, taking effect on 1 Jan 2019 – equals around 1.5 prior to IFRS 16

¹⁾ Based on infrastructure cloud (Infrastructure as a Service and Platform as a Service), excl. selected services such as cloud-enabled consulting and shared integration services, previously included in cloud services sales.



Performance drivers 2019

Tieto aims to grow faster than the market during the year. To support this ambition, Tieto is committed to actions driving competitiveness and will continue its investments in innovation and growth.

In 2019, acquisitions will support the ambition of accelerating growth. Aggregated annual sales of the companies acquired in 2018 amounted to around EUR 13 million, of which EUR 4 million was included in Tieto's sales in 2018.

Performance drivers also include:

- investments in offering development
- recruitments in new service areas and related competence development
- salary inflation
- continued drive for competitiveness and efficiency.

At the Group level, full-year offering development costs are anticipated to remain at around 5% of Group sales. Capital expenditure (CAPEX) is anticipated to remain below 4% of Group sales.

Tieto continues to invest in new capabilities and competencies. In 2018, Tieto recruited around 850 employees (net amount, including attrition), which will also affect the cost base in 2019. Salary inflation is anticipated to amount to over EUR 30 million in 2019, partly offset by increasing offshoring and the management of the competence pyramid.

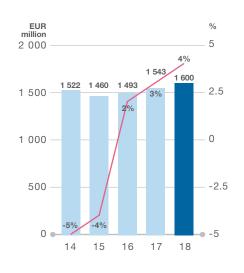
The new strategy aims to enhance Tieto's competitiveness with targeted investments in high-growth digital services and software, increased activity in customer engagement and agile teams functioning with higher autonomy. The simplified operations will ensure faster access to relevant capabilities for customers while reducing the need for internal coordination and administration. Tieto currently anticipates that operational simplification will affect around 700 roles globally and result in annualized gross savings of EUR 30-35 million, partially affecting performance already in 2019. The design of operations continues over the upcoming months and the impact on each business and country will be specified during the process. In parallel, Tieto will increase investments in design- and data-centric capabilities and anticipates that the company will add 2 500-3 000 competences for these roles during the strategy period.



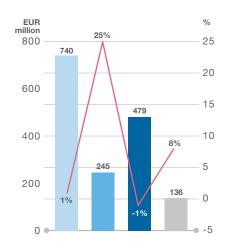
Financial performance

Net sales increased by 3.6% to EUR 1 599.5 (1 543.4) million, growth of 6.6% in local currencies. Acquisitions added EUR 45 million in sales, mainly affecting Business Consulting and Implementation, and the impact of divestments on sales was EUR 7 million. Currency fluctuations had a negative impact of EUR 47 million on sales, mainly due to the weaker Swedish Krona.

NET SALES AND GROWTH



NET SALES AND GROWTH BY SERVICE LINE



- Technology Services and Modernization
- Business Consulting and Implementation
- Industry Solutions
- Product Development Services

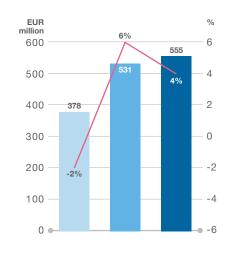


Operating profit (EBIT) amounted to EUR 154.7 (139.1) million, representing a margin of 9.7% (9.0). Adjusted¹⁾ operating profit stood at EUR 162.8 (161.4) million, or 10.2% (10.5) of net sales. Further details on adjustments are available in the table on page Calculation of key figures. At the Group level, offering development costs were up by EUR 6 million, of which EUR 3.6 million were capitalized (net impact on operating profit over EUR 2 milion). With respect to investments in Industry Solutions, part of development costs related to the Healthcare Information System platform are capitalized, according to the company's accounting policies. Additionally, currency changes had a negative impact of around EUR 8 million on operating profit, and profitability was also affected by salary inflation.

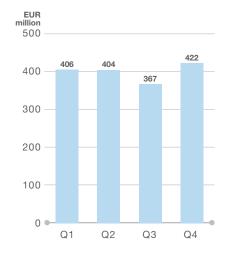
Depreciation and amortization amounted to EUR 55.0 (54.7) million, including EUR 5.2 (4.3) million in amortization of acquisition-related intangible assets. Net financial expenses stood at EUR 1.9 (3.4) million in the full year. Net interest expenses were EUR 2.1 (2.1) million and net gains from foreign exchange transactions EUR 1.0 (-0.2) million. Other financial income and expenses amounted to EUR -0.8 (-1.1) million.

Earnings per share (EPS) totalled EUR 1.67 (1.46). Adjusted¹⁾ earnings per share amounted to EUR 1.76 (1.69).

NET SALES AND GROWTH BY INDUSTRY GROUP



NET SALES BY QUARTER

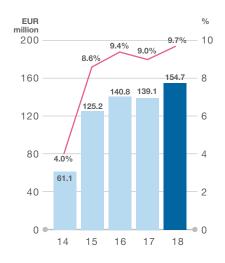


- Financial Services
- Public. Healthcare and Welfare
- Industrial and Consumer Services

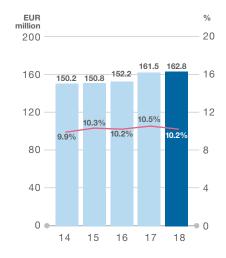
¹⁾ Adjusted for restructuring costs, capital gains/losses, goodwill impairment charges and other items affecting comparability



OPERATING PROFIT (EBIT) AND MARGIN



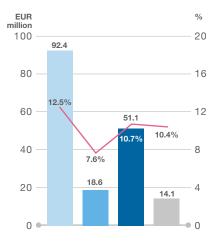
ADJUSTED OPERATING PROFIT (EBIT) AND MARGIN



ADJUSTED OPERATING PROFIT (EBIT) AND MARGIN BY QUARTER



ADJUSTED OPERATING PROFIT BY SERVICE LINE



- Technology Services and Modernization
- Business Consulting and Implementation
- Industry Solutions
- Product Development Services



Financial performance by service line

EUR million	Customer sales 2018	Customer sales 2017	Change,	Operating profit 2018	Operating profit 2017
Technology Services and Modernization	740.0	735.4	1	85.4	78.5
Business Consulting and Implementation	244.6	195.9	25	18.9	16.1
Industry Solutions	478.9	486.0	-1	54.4	54.4
Product Development Services	135.8	126.1	8	13.9	12.0
Support Functions and Global Management	-	-	-	-18.1	-21.9
Total	1 599.5	1 543.4	4	154.7	139.1

Operating margin by service line

%	Operating margit 2018	Operating margit 2017	Adjusted ¹⁾ operating margin 2018	Adjusted ¹⁾ operating margin 2017
Technology Services and Modernization	11.5	10.7	12.5	12.1
Business Consulting and Implementation	7.7	8.2	7.6	8.3
Industry Solutions	11.4	11.2	10.7	11.9
Product Development Services	10.2	9.5	10.4	9.7
Total	9.7	9.0	10.2	10.5

¹⁾ Adjusted for restructuring costs, capital gains/losses, goodwill impairment charges and other items affecting comparability

In TECHNOLOGY SERVICES AND

were up by 3%. Strong growth of application services and infrastructure cloud continued. Sales of infrastructure cloud were up by 15% and application services by 7% in local currencies. The decline in traditional infrastructure services continued and amounted to 3%. Adjusted operating margin somewhat improved, mainly due to good volume development.

In BUSINESS CONSULTING AND

IMPLEMENTATION, the acquisition of Avega supported strong growth while also organically, sales were up by 5%. The acquisition of Avega implemented in 2017 has strengthened Tieto's market position in business consulting in Sweden. In Customer Experience Management, strong development continued across the markets and sales were up by 16%. Adjusted operating profit improved, mainly due to good volume development and the acquisitions.

In INDUSTRY SOLUTIONS, sales in local currencies were up by 2%, organically up by 3%. The Hydrocarbon Management and Content Management solutions had strong growth while the architectural renewal affected growth in Payments and SmartUtilities, Tieto's solution for the energy utility segment. Growth for the Payment solutions turned positive after the launch of renewed Virtual Account Management and Tieto continued to expand its customer base towards the year end. Growth of Lifecare was in line with the market, somewhat affected by the ongoing reform in the Finnish healthcare segment. Operating profit, including an increase of around EUR 10 million in offering development costs, was down.

In PRODUCT DEVELOPMENT SERVICES,

sales growth in local currencies was 13%. Growth was attributable to strong volume development with the largest key customers and good development in the automotive segment. Operating profit improved due to strong volume development.

¹⁾ Based on infrastructure cloud (Infrastructure as a Service and Platform as a Service), excl. selected services such as cloud-enabled consulting and shared integration services, previously included in cloud services sales.



Customer sales by industry group

EUR million	Customer sales 2018	Customer sales 2017	Change, %
Financial Services	377.6	384.4	-2
Public, Healthcare and Welfare	530.8	501.7	6
Industrial and Consumer Services	554.9	531.2	4
IT services	1 463.7	1 417.3	3
Product Development Services	135.8	126.1	8
Total	1 599.5	1 543.4	4

M&A impact by service line

EUR million	Sales growth, % (in local currencies) 2018	Organic growth, % (in local currencies) 2018
Technology Services and Modernization	3	3
Business Consulting and Implementation	28	5
Industry Solutions	2	3
IT services	6	3
Product Development Services	13	13
Total	7	4

M&A impact by industry group

EUR million	Sales growth, % (in local currencies) 2018	Organic growth, % (in local currencies) 2018
Financial Services	1	-1
Public, Healthcare and Welfare	9	8
Industrial and Consumer Services	7	1
IT services	6	3
Product Development Services	13	13
Total	7	4

In FINANCIAL SERVICES, sales in local currencies were up by 1%. Growth was strongest in the Business Consulting and Implementation area whereas the architectural renewal affected growth in Industry Solutions. Growth for Tieto's Payments solutions turned positive after the launch of renewed Virtual Account Management and Tieto continued to expand its customer base towards the year end.

In PUBLIC, HEALTHCARE AND WELFARE,

sales in local currencies were up by 9%. Growth was healthy in the public sector across the markets. Overall, the market is active with several digitalization initiatives and transition projects ongoing.

In INDUSTRIAL AND CONSUMER

SERVICES, sales in local currencies were up by 7%, supported by the acquisition of Avega. Good development was experienced especially in Hydrocarbon Management whereas sales development in SmartUtilities was negative due to the ongoing large-scale renewal.



Cash flow and financing

Net cash flow from operations amounted to EUR 174.2 (151.0) million, including an increase of EUR 3.2 (15.3) million in net working capital. Payments for restructuring amounted to EUR 8.4 (21.3) million.

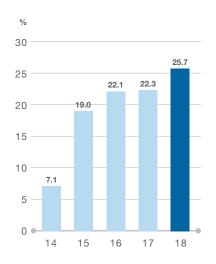
Full-year tax payments were EUR 21.4 (16.9) million.

The equity ratio was 41.3% (42.5). Gearing decreased to 28.5% (32.7). Interest-bearing net debt totalled EUR 137.4 (155.7) million, including EUR 302.4 (234.7) million in interest-bearing debt, EUR 1.7 (2.5) million in finance lease liabilities, EUR 1.6 (2.8) million in finance lease receivables, EUR 0.5 (0.5) million in other interest-bearing receivables and EUR 164.6 (78.2) million in cash and cash equivalents.

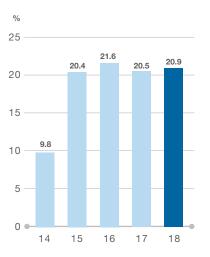
Interest-bearing long-term loans amounted to EUR 185.5 (102.5) million at the end of December. Tieto's EUR 100 million bond will mature in September 2024 and it carries a coupon of fixed annual interest of 1.375%. A loan of EUR 85 million was drawn from the European Investment Bank in November 2018 and it will be amortized within nine years.

Interest-bearing short-term loans amounted to EUR 118.6 (134.6) million, including the EUR 100 million bond maturing in May 2019. The syndicated revolving credit facility of EUR 150 million expiring in May 2021 was not in use at the end of December.

RETURN ON EQUITY



RETURN ON CAPITAL EMPLOYED





Investments and development

Tieto is seeking to grow faster than the market in the long term. Tieto will accelerate future growth through offering development and new competencies as well as acquisitions. Additionally, the company will continue to invest in standardization and automation to drive improvements in productivity and quality.

Full-year capital expenditure totalled EUR 45.0 (50.8) million. Capital expenditure represented 2.8% (3.3) of net sales and was mainly related to data centres. Net payments for acquisitions totalled EUR 14.5 (49.3) million.

Tieto's offering development costs amounted to around EUR 80 million in 2018, representing 5.0% of Group sales (EUR 75 million in 2017, representing 5.0% of net sales). These costs comprise service and product development, which in 2018 focused especially on large-scale technology renewal in industry solutions. Additionally, the costs for related internal development, e.g. automation in infrastructure services, are included in this amount. In 2018, Tieto capitalized EUR 3.6 million of the development costs (in 2017, no development costs were capitalized).

Order backlog

The significance of traditional measures for the order backlog is impacted by the shift from traditional large outsourcing agreements towards agile methods and consumption-based business models. Additionally, traditional development programmes are cut into smaller projects. While this change in customer behaviour affects the order backlog levels, it is not expected to have any significant impact on Tieto's market opportunities and business outlook.

The order backlog was impacted by a negative currency effect and amounted to EUR 1 698 (1 860) million. Of the backlog, 54% (52) is expected to be invoiced during 2019. The order backlog includes all signed customer orders that have not been recognized as revenue, including estimates of the value of consumption-based contracts.



Major agreements

During the year, Tieto signed a number of new agreements with customers across all the industry groups. However, according to the terms and conditions of these agreements, Tieto is not able to disclose most of the contracts.

In January, Tieto signed a new agreement with Nynäshamn municipality under which it will provide IT services to support the municipality's digitalization journey. The four-year contract is worth around SEK 43 million and includes an option to extend for up to five years.

In February, Posti, Finland's postal service, and Tieto agreed on a partnership covering data centre and cloud services with the objective of modernizing Posti's IT infrastructure. Responding to a changing industry landscape, Posti focuses on improving both quality and customer experience. The co-operation supports Posti's business-oriented solutions.

In February, Värmdö municipality selected Tieto's cloud-based solution to modernize its document and case management. The solution is based on Tieto's leading and standardized public sector solution, Public 360° Online, which includes all

core processes such as billing, domain management and plan management. The system enables a more efficient way of working and improves the service provided to citizens. The contract period extends over four years, with the possibility of renewal for another three years.

In February, Suomen Osuuskauppojen Keskuskunta (SOK) Corporation, a Finnish network of retail and service companies, chose Tieto to modernize its IT infrastructure by integrating legacy applications into a SAP environment. With the solution SOK Corporation focuses on modernizing legacy applications.

In February, Asfinag, an Austrian publicly owned corporation that plans, finances, builds and maintains Austrian autobahns and handles their toll collection, signed an agreement with Tieto on IT service delivery for 2018, which contains, for example, services for SAP and software development. As the main full-service IT partner for Asfinag, Tieto will contribute to sustainable improvement and increase efficiency in the customer's processes. The agreement has an estimated value of EUR 7 million.

In March, Högland Såg & Hyvleri, a familyowned sawmill and wood processing
company in Sweden, signed an agreement
with Tieto to replace its present wood supply
system with Tieto's TIFF solution. TIFF,
a Software-as-a-Service (SaaS) solution,
optimizes wood and fibre supply operations
with a comprehensive set of industry-specific
modules that digitalize the processes from
contract signing to invoicing and from
harvesting to mill delivery.

In March, Kraft Bank, a new Norwegian bank that was launched in spring 2018 to help customers with financial difficulties, chose Tieto's Al solution for core banking to offer end-to-end automated loan processing. Tieto's solution includes processing for home loans, unsecured loans, debit cards and savings accounts, including Vipps and direct withdrawal. The engine for credit rating analysis has built-in machine learning and will provide more accurate decisions. Through open APIs, Kraft will have the opportunity to make use of a wide range of channels, such as financial institutions and partner banks, and also to utilize third-party FinTech partners. The five-year contract is worth around NOK 20 million.

In March, Tieto signed a contract extension with Sodexo, one of the world's largest multinational corporations providing the onsite business community and public sector with support services. Based on the contract, Tieto will provide service desk and data centre services to support Sodexo's digitalization journey. The five-year contract extension is worth around SEK 120 million.

In March, Tieto signed a new agreement, following a public procurement, with Haninge municipality for the delivery of IT services as part of the municipality's continued digitalization journey. The agreement includes application management, server capacity, cloud services and system operation, as well as consulting services for further development. It also gives the municipality increased access to cost-effective services on Tieto's platforms. The three-year contract is worth approximately SEK 18 million, with an option to extend it with three additional years.

In April, Tieto signed a contract with Suomen voimatieto (SVT) and SPS Energiapalvelut (SPS) to deliver the Tieto SmartUtilities solution for Billing and Customer Management. Tieto SmartUtilities is a modular Software as a Service solution designed for Nordic energy



companies. The scalable cloud service meets strict information security requirements. The contract is for four years with an option to extend it with additional years.

In April, Tieto signed a contract with Palm Paper Group to deliver ProductionExcellence services for six corrugated packaging mills. Based on the solution, Palm Paper Group will harmonize sales, warehouse and logistic processes, running on a centralized Business and Production platform. The three-year contract is worth approximately EUR 2 million, with an option to roll out the solution at Palm Paper Group's 20 other corrugated packaging mills.

In May, Singapore LNG Corporation (SLNG) chose Tieto to provide the Transport and Revenue modules of Tieto Energy Components to manage hydrocarbon accounting for the entire LNG import value chain. Energy Components takes care of business processes for planning, unloading, inventory control, re-gasification, gas sales and gas delivery.

In May, the Finnish Border Guard chose Tieto to provide a new maritime search and rescue (SAR) command and control system. The system is scheduled for commissioning by the end of 2020. It will digitalize the exchange of information between maritime SAR command centres and search and rescue units and make it more effective. The command and control system will also offer a variety of ready-made interfaces to connect new, external services and functions to the management of maritime SAR operations.

In June, Tieto signed a comprehensive agreement with Region Skåne to deliver IT services that support the region's continued digitalization journey. The goal is to support the region's efforts to create safer and more equal healthcare services. The agreement is for four years with the option to extend until 2031. The contract is worth SEK 410 million.

In June, Wiener Netze, one of the biggest energy distribution companies in Europe, accepted the bid submitted by a consortium consisting of Siemens, Landis+Gyr and Iskraemeco. Wiener Netze will implement the rollout of 1.6 million smart meters in Vienna and its surroundings jointly with Siemens as the prime contractor supported by the consortium and technology partners, with Tieto as one key contributor. The Tieto SmartUtilities solution enables Siemens to manage a fully digitalized flow from planning to installation of smart meters with a high degree of automation and security.

In July, Facevalue, a business banking platform company that specializes in working capital solutions and electronic invoicing, selected Tieto to provide Card Suite software services. Tieto Card Suite will enable Facevalue to manage multiple card programmes in collaboration with different banks in key regions as part of its networked banking application for businesses and individuals across Europe. As one of the first organizations to use Tieto Card Suite in SaaS, Facevalue will gain benefits from the service, as it is not only efficient, resilient and open, but also complies with the Payment Card Industry Data Security Standard (PCI DSS).

In July, Tieto and FläktGroup, the European market leader for energy efficient indoor air technology solutions, signed a five-year extension agreement on OneCloud laaS Onsite. Based on the agreement, Tieto provides FläktGroup with a platform for the applications running in the customer's premises. The extension is part of a prior significant agreement under which Tieto provides OneCloud datacenter and cloud services to modernize and harmonize FläktGroup's infrastructure services.

In July, OTP Bank, a significant financial services provider in Central and Eastern

Europe, selected Tieto to replace its legacy card back-office system in Hungary. The modernization will streamline and improve the bank's card issuing and merchant management services. Through a single platform, Tieto will automate the bank's new business and card management systems, and enable a faster time to market for launching new payment products and services.

In August, Automatia Pankkiautomaatit renewed its service agreement with Tieto. The length of the renewed agreement is five years. The agreement covers ICT infrastructure services, including production, development and test environments. Automatia delivers high-quality services to its customers based on 100% availability.

In September, APA, Australia's largest natural gas infrastructure business, partnered with Tieto to implement the Capacity Trading and Auctioning functionality. In addition to the upgrade, implementation and test automation services, Tieto will provide deliverables and consulting services to help APA adapt to the changes in the capacity trading reform package recommended by the Australian Energy Market Commission (AEMC) and achieve business value.



In September, Tieto signed an agreement to provide Nynäshamn municipality with a digitalized document and case management system. The solution, based on Tieto's new version 5.0 of Public 360°, enables more efficient and digitalized work flows for the municipality's operations, which will in turn produce better services for citizens. Hence, it supports Nynäshamn's goal to be an innovative municipality that digitally handles central processes such as cases, registers, documents and committees. The agreement is for four years with an option to extend.

In October, Tieto extended its collaboration with Skellefteå municipality through a new agreement for the delivery of an operational system for social services that will simplify everyday tasks for employees and help the municipality offer better e-services to citizens. The system is based on the Tieto Lifecare solution and will support the management of processes within healthcare, social care and family care. The contract is worth around SEK 20 million and runs over six years, with three optional periods of three years each.

In November, Tieto signed a new infrastructure contract for a front-end environment with International Card Service

B.V., the leading Dutch credit card issuer. In combination with the new contract, ICS B.V. extended its current agreement for back-end infrastructure services with two years. Based on the contract, Tieto will provide PCI-DSS compliant infrastructure services and cloud solutions for both front- and back-end until 2022 with an option to extend with two additional years.

In November, SSAB and Tieto renewed their service agreement as a continuation of their long-term cooperation. The renewal is based on the contract signed in 2015. The contract covers a wide range of services from capacity services to application development for business-critical manufacturing, logistics and sales operations worldwide. Tieto is providing SSAB with an attractive model for productivity improvement and modernizing IT operations in the mainframe environment.

In December, the Scandinavian finance company EnterCard Group AB expanded and renewed its existing outsourcing agreement with Tieto. The new contract includes continuous modernization of EnterCard's IT environment with new technical solutions based on Tieto's OneCloud and Tieto Compliance Cloud. With these solutions

EnterCard's modernized environment will be more efficient, secure and suitable for future business needs. The contract runs for five years with an option to extend.

In December, Tieto signed a three-year contract with Volvo Car Dealers and TANKA in Sweden. Based on the contract, Tieto will provide Network and End User Service to Volvo Car Dealers across Sweden. The services enable Volvo Car Dealers to adopt a more efficient way of working and improve the service provided to customers. The contract is worth around SEK 30 million and includes an option to extend it with one to two additional years.

In December, Tieto signed a contract extension with Region Skåne, one of Sweden's largest county councils. Based on the contract, Tieto will take full responsibility for delivering user-friendly IT to Region Skåne's 35 000 employees. The services cover a number of areas such as printing, workplace support, multimedia and video conferencing as well as service desk and local service with related accessories and extra technician support. The two-year contract extension is worth around SEK 300 million and includes an option to extend for another six years.

In December, If Insurance, the leading property and casualty insurer in the Nordic region, extended its IT infrastructure agreement with Tieto for a fourth period. Based on the agreement, Tieto will help If on its journey to modernize the holistic IT infrastructure by exploiting the best technologies, and provide access to modern and cost-effective cloud services to support its hybrid infrastructure transformation. The new contract runs for five years with an option for two more years.



Changes in Group structure

On 31 January, Tieto divested its ProArc unit with a solution for technical document management to Constellation Software Inc. The unit was part of Software Innovation and focused on enterprise content management. Sales of the disposed business were around EUR 7 million.

On 28 February, Tieto signed an agreement to acquire Petrostreamz AS, a rapidly growing provider of advanced software and services for integrated asset modelling (IAM) in the oil and gas industry. By combining Tieto's solution Energy Components with Pipe-It, Petrostreamz software, into a forward-looking decision-making tool, the company will be better positioned to help upstream and midstream oil and gas clients derive value from data.

On 19 April, Tieto announced the acquisition of NSEC AB, a Swedish security services company employing about 30 security professionals. The acquisition further strengthens Tieto's cybersecurity capabilities and adds to Tieto's growing portfolio of security services. Headquartered in Stockholm, NSEC brings Tieto further

capabilities in managed security operations, security consulting, as well as product resell and deployment services, and thereby strengthens Tieto's position as a leading Nordic best of suite security services provider. Net sales of the acquired company amounted to EUR 4 million in 2017.

On 31 August, Tieto divested the assets and rights of its cross-advertising services to Atex Media Command AB due to limited synergies with its businesses. Cross-advertising is a cloud-based solution that provides end-to-end multi-channel advertising management, covering the whole process from sales, CRM and booking to production and invoicing. The divested business had annual sales of around EUR 2 million and was part of Industry Solutions.

On 5 November, Tieto acquired Meridium AB, a Swedish company employing about 60 digital customer experience professionals. With the acquisition of Meridium AB, Tieto strengthens its presence in Sweden and enhances its capabilities to serve Nordic customers in developing ways to interact with their customers in the digital world.



Personnel

The number of full-time employees amounted to 15 190 (14 329) at the end of December. The number of full-time employees in the global delivery centres totalled 7 690 (6 979), or 50.6% (48.7) of all personnel.

In the full year, the number of full-time employees was up by a net amount of around 900, including net recruitments of around 750 in IT services, close to 100 in Product Development Services. Additionally, acquisitions added around 50 employees (net of acquisitions and divestments).

Attrition was on the rise during 2018 across Tieto's markets. The company, however, has been very successful in attracting and retaining talent. The 12-month rolling employee turnover stood at 12.2% (11.3) at the end of December. Group-level salary inflation is expected to be close to 4% on average in 2019.

The dynamic business environment is placing high demands on competence development and good employee experience. The emergence of new business models and the constant need to accelerate innovation and efficiency continue to drive competence renewal.

Tieto's Human Resources (HR) is responsible for developing people practices at Tieto. The HR function is led by the Group-level Head of HR while country HR teams are responsible for country-specific HR operations. In addition, Business HR support is also assigned to the respective service lines and industry groups.

Tieto has identified three main areas that impact how employees experience their work: culture, technology and physical space. This laid the foundation for the Better Life@Work initiative, which was launched in 2018. The priorities of Better Life@Work consist of four key action streams: strengthen Open Source Culture, boost learning for the future, simplify Tieto and improve digital tools.

Tieto's Open Source Culture is a foundation for building a good employee experience, supported by advanced technology and a modern working environment. The company's Open Source Culture is based on openness and transparency, and it aims to make employees feel included, empowered, and able to influence their work as well as contribute to an inspiring working environment.

Curiosity and life-long learning are crucial parts of the company's success and culture. Building an environment where employees are curious to learn about new technologies and ways of working motivates them. The Learning as a Lifestyle initiative focuses on supporting employees in gaining future strategic competencies and ensures that reskilling and upskilling take place proactively. In 2018, Tieto finalized moving all Tieto learning modules to our new learning experience platform.

In addition to carrying out development programmes, Tieto strengthened its competences in 2018 across different businesses with recruitments and acquisitions. New recruitments included roles such as industry and solution consultants, architects and software developers. Being a responsible, active and engaged corporate citizen in a larger ecosystem and collaborating with the company's partners from suppliers to universities and industry networks enabled Tieto to bring in hundreds of new employees.

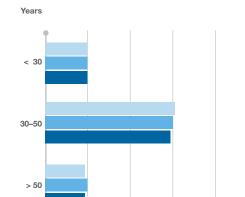
Employee engagement, as an outcome measure of the perceived Employee

Experience, is measured on an annual basis through Tieto's internal employee survey, VOICE. The overall employee engagement score was good at 75%, showing positive development since 2014.

The Tieto Human Resources (HR) Policy serves as the overall strategic direction for Tieto's people practices, and applies to all employees and operations globally. This policy states that Tieto supports and respects the principles set out in the United Nations Universal Declaration of Human Rights and the ILO Declaration on Fundamental Principles and Rights at Work.



PERSONNEL BY AGE

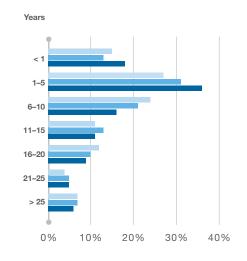


40%

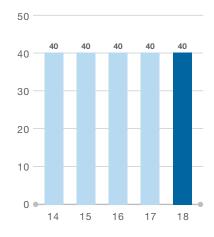
60%

80%

LENGTH OF EMPLOYMENT



AVERAGE AGE OF EMPLOYEES, 2014–2018



2016

2017

2018

20%

2017

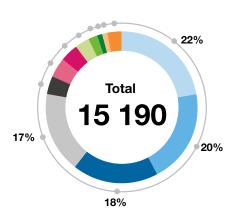
2016

2018

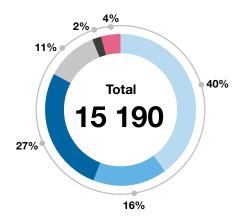
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PERSONNEL BY COUNTRY



PERSONNEL BY SERVICE LINE



- Finland 22%
- Sweden 20%
- India 18%
- The Czech Republic 17%
- Latvia 4%
- Norway 4%
- Poland 4%
- China 3%
- Estonia 2%
- Austria 1%
- Lithuania 1%
- Other 3%

- Technology Services and Modernization
- Business Consulting and Implementation
- Industry Solutions
- Product Development Services
- Industry Groups
- Support functions and global management





Non-financial information

Non-financial information

This section describes Tieto's sustainability activities as required in Chapter 3a of the Finnish Accounting Act on non-financial information (NFI). The linkages between NFI areas and Tieto's sustainability focus areas are identified in the chart describing policies and processes. More information is available in the **Sustainability Report**.

Description of Tieto's business model

Tieto is one of the largest software and IT service companies in the Nordics. The company's value-adding services comprise new data-driven services, business critical software solutions, infrastructure services, product development services and related capabilities to support customers' business renewal, innovation and efficient operations.

Tieto's role varies from advisory and consulting services and the design of services to building and running IT solutions. Tieto aims to co-create new solutions and innovate new data-driven business models with customers and partners. Value creation

and competitiveness are based on solutions combining best-of-breed technologies with integration capabilities, industrialized service delivery and strong global delivery capability.

Description of management of NFI topics

Tieto has a systematic approach to managing sustainability, including appropriate policies, processes, governance and organization, competences and communication.

Tieto's sustainability work is facilitated by the company's Sustainability Team and supported by the Sustainability Steering Group, chaired by the Vice President, Communication and Sustainability. The steering group advises the Leadership Team and Board of Directors and approves the sustainability section of the integrated annual report. The Sustainability Steering Group represents different functions and units of Tieto, ensuring that the voices of various internal and external stakeholders are considered. Tieto's aim is to maintain a balanced male and female representation in the steering group, as well as younger and more experienced management representation.

Tieto's Leadership Team and the Board of Directors reviewed sustainability matters on five occasions during 2018. The topics included the review of the renewed Code of Conduct and annual integrated report, review and approval of the Sustainability 2020 Plan, and review of NFI information, including relevant sustainability-related risks and Tieto's societal engagements in 2019, among other things.

Tieto's Sustainability 2020 Plan comprises nine focus areas that are developed through engagement with relevant external stakeholders as well as through internal prioritizations. As digitalization can advance wellbeing and environmental conditions in other industries, sustainability is regarded as an opportunity rather than a risk for the company. Tieto's sustainability areas are the material topics covering capabilities, products, services and facilities needed to serve customers. The focus areas also include sustainability benefits that IT solutions can deliver to customers, such as helping them to reduce their CO₂ emissions, combat the grey economy or improve people's health and wellbeing. Each sustainability area has publicly stated goals, and the action plans, implementation and reporting are run by nominated sustainability area owners and

partners. Sustainability area goals and results for 2018 are presented in the table in this section.

The Sustainability 2020 Plan is developed and managed according to Tieto's Sustainability management process, which follows the United Nations Global Compact Management Model and GRI standards. Linkages to United Nations Sustainable Development Goals, which are considered a strategic tool enabling corporations to contribute to a more sustainable society, are established where relevant. The management of the sustainability areas – including policies, processes, due diligence and escalation channels – is illustrated in the chart in this section.

Tieto's ethical values are summarized in the Code of Conduct Policy, which applies of to all of Tieto's employees, and a separate Supplier Code of Conduct Rule applied to any third party contributing to the company's services, products and other business activities. Those are based on the United Nations Global Compact principles regarding human rights, labour rights, anti-corruption and the environment as well as the OECD Guidelines for Multinational Enterprises. The policies cover all of the sustainability areas,

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Governance

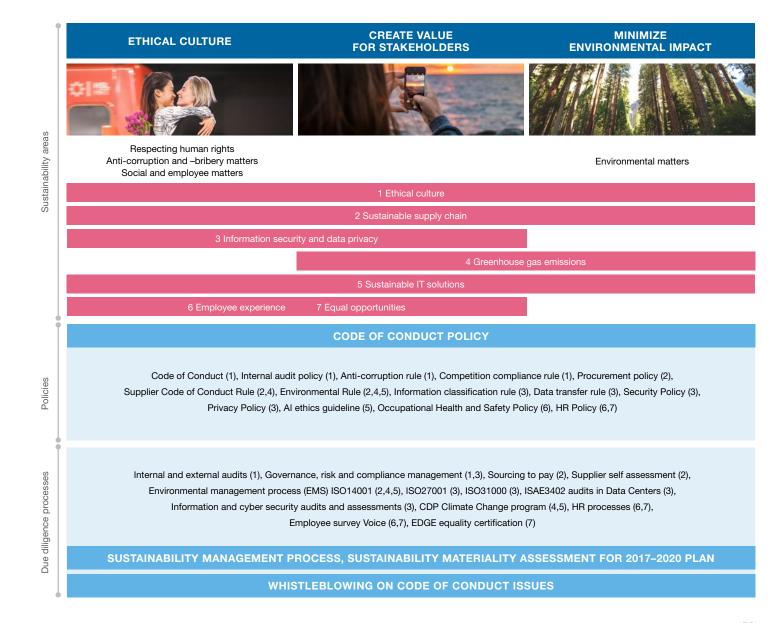
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POLICIES AND PROCESSES OF NFI MATTERS

which are also linked to other, topic-specific policies and more detailed rules. The policies cover the relevant legal, certification and other best practice requirements and are reviewed annually. In 2018, substantial updates were carried out to the Code of Conduct and Supplier Code of Conduct including policy, stakeholder training and communication updates.

Escalations involving possible Code of Conduct breaches are reported to the General Counsel. All escalations are investigated confidentially through a predefined process by an escalation function consisting of the General Counsel, Compliance Officer, Chief Audit Executive and Vice President, Communication and Sustainability. The outcomes of all investigations are reported as part of compliance risk reporting to the Compliance and Privacy Board and Audit and Risk Committee of the Board of Directors. In addition, sustainability areas have separate channels for incident reporting and continuous improvement.





Main risks in non-financial area

The aim of Tieto's internal control framework is to assure that operations are effective and well aligned with the strategic goals. The internal control framework is intended to ensure correct, reliable, complete and timely financial reporting and management information. The framework endorses ethical values, good corporate governance and risk management practices. Risk management and major risks are described in detail in the **Corporate Governance Statement**.

The risk management framework consists of the risk management organization, related policies, operating principles and tools. The risk management organization develops and maintains the company's risk management framework, including risk reporting, risk management governance and follow-up of risk exposures consisting of strategic, financial, operational and compliance risks.

Tieto's risks with respect to sustainability and NFI topics are mainly compliance risks. These risks include a reputational factor, which in

addition to negative publicity could lead to score drops in sustainability indices and deviations in audits. Severe breaches in these areas could also lead customers relying on highly reputable partners to lose their trust in us.

Fraudulent, unethical, or even illegal actions by individuals in areas such as corruption or conflict of interest can occur if anti-corruption awareness and team culture are not at a sufficiently high level. Such situations can have negative consequences ranging from disqualification from public tenders to sanctions. Compliance trainings, audits and follow-up are used to mitigate the risk.

Stress-related health issues as well as discrimination and harassment are human and labour rights related risks. From an operational perspective, deliveries could be compromised if key resources go on long sick leaves. Health issues have an impact on costs as well. Both health issues and discrimination and harassment can lead to environments where employees may not reach their full potential. Discrimination could also hinder the company's ability to develop solutions to societal problems.

Tieto believes that diversity in personnel, whether in terms of gender, age or cultural background, is needed to stay competitive in the fast-paced ICT industry. Diversity and inclusion are an integral part of the company's Open Source Culture as well as Human Resources activities. Being able to unwind and maintain wellbeing is equally crucial. The employee health and wellbeing index is measured and follow-up actions taken where necessary to improve employee wellbeing.

Tieto's supplier base consists of direct and indirect suppliers. Supply chains may include compliance risks related to the environment, human and labour rights or even corruption. Severe breaches against international conventions in the supply chain could lead to customers deciding to terminate contracts. Tieto mitigates these risks through its supplier sustainability programme and on-boarding practices, consisting of both compliance and audit activities.



Goals and results for each sustainability area

Sustainability area	Goal	Target 2020	Result 2018	Result 2017	Status	Sustainable Development Goal ¹⁾
EQUAL OPPORTUNITIES	Completion of Code of Conduct e-learning for awareness on equality, ratio	100%	87%	88%	On target	8 ECONOCIO SORI ORI CONOCIO CONTINUO DI
EMPLOYEE	Employee engagement score	73%	75%	73%	Target reached	3 approximate —///*
EXPERIENCE	% of employees who are always or often stressed and unable to recover	Keep low	Not reported ²⁾	3%	Not reported	3 approximate —///*
ETHICAL CULTURE	Completion of Code of Conduct e-learning, ratio	100%	87%	88%	On target	16 PAGE ARRIVE SECURIOR MATERIAL PAGE ARRIVED
INFORMATION SECURITY AND DATA PRIVACY	Total number of substantiated complaints regarding breaches of customers' privacy and losses of customer data	0	1	0	On target	16 PASS ARREST STREET,
SUSTAINABLE SUPPLY CHAIN	New or renewed suppliers agreeing to Tieto's Supplier Code of Conduct, ratio ³⁾	100%	100%	100%	Target reached	3 Medicine 7 Medicine 8 Medicine 10 Medicine 13 Medicine 13 Medicine 16 Medicine Medicine 16 Medicine Medic
GREENHOUSE GAS EMISSIONS	Reduction of CO ₂ emissions from Tieto's indirect energy consumption ⁴⁾	-50%	-12%	-44%	Target reached ⁵⁾	13 illes
SUSTAINABLE IT SOLUTIONS	Total ktons CO ₂ avoided by customers through use of Tieto's IT services	Increase customers' avoided CO ₂ emissions exceeding Tieto's own CO ₂ emissions	76 kton CO ₂	75 kton CO ₂	On target	3 mention 7 mention 13 cm 16 not been miles of the control of the

¹⁾ United Nations Sustainable Development Goals: https://sustainabledevelopment.un.org/

² The employee stress indicator was not measured in 2018 due to changes in measuring frequency. The indicator will be followed up in 2019 and reported on in next year's report. However, actions to resolve causes of stress continued throughout 2018 and all identified stress drivers were improved; access to information (+8%), clarity on roles and responsibilities (+9) and freedom to express ideas/views without fear of negative consequences (+6%).

³⁾ Scope: Agreements made through Procurement function.

⁴⁾ Tieto's CO₂ emission reporting follows the methodology of the Greenhouse Gas Protocol Corporate Standard. The greenhouse gas emission reduction goal is reported on market based CO₂ emissions.

⁵⁾ Aggregated reduction of CO₂ emissions totals 56% comparing to 2016 baseline.



Shareholders' Nomination Board

In September, the shareholders who wished to participate in the work of the Shareholders' Nomination Board nominated the following members:

- Martin Oliw, Partner, Cevian Capital AB,
- Petter Söderström, Investment Director, Solidium Oy,
- Mikko Mursula, Chief Investment Officer, Ilmarinen Mutual Pension Insurance Company,
- Satu Huber, Chief Executive Officer, Elo Mutual Pension Insurance Company and
- Kurt Jofs, Chairman of the Board of Directors, Tieto Corporation.

The largest shareholders were determined on the basis of the shareholdings registered in the Finnish and Swedish book-entry systems on 31 August 2018.

The Board of Directors

It is the general obligation of Tieto's Board of Directors to safeguard the interests of the company and its shareholders.

Composition and election of Tieto's Board of Directors

According to Tieto's Articles of Association, the Board of Directors shall consist of at least six and no more than twelve members. Board members have a term of office of one year, expiring at the closing of the first AGM following the election.

The company has defined as an objective that in addition to professional competence, Tieto's Board members shall be diversified in terms of gender and educational/professional background and that the Board as a group shall have sufficient knowledge of and competence in, inter alia, the company's field of business and markets.

The SNB, which consists of representatives nominated by the company's largest shareholders, prepares a proposal on the composition of the Board to be presented to the AGM for its decision. In addition to the Board of Directors having established the diversity principles and included them in

the Board charter, the company has taken steps to ensure that the principles have been included in the charter of the SNB and taken into account in the candidate search. The ratio of gender diversity of the members elected by the AGM has remained stable since 2012 and been either 2:6 or 2:5 (currently 40.0% female and 60.0% male members).

In addition to the members proposed by the SNB and elected by the AGM, Tieto's personnel elects two members and two deputy members to the Board of Directors. The term of office for the personnel representatives is two years. This special appointment procedure is a departure from Recommendation 5 "Election of the Board of Directors" of the Corporate Governance Code 2015. Personnel representation is based on the Finnish Act on Personnel Representation in the Administration of Undertakings and was originally agreed between Tieto Corporation and the personnel of the Group by way of a Personnel Representation Cooperation Agreement in 2001.

The objectives of personnel representation are, inter alia, to provide opportunities for the personnel to influence and affect the organization, to improve communication

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and decision making within the Group, to increase mutual trust and confidence between corporate management and the personnel as well as to increase and develop the feeling of security among the personnel. The personnel representatives, however, are not entitled to participate in the handling of matters that concern the appointment or dismissal of corporate management, the contractual terms of the management, the terms of employment of staff or matters related to industrial actions.

All Board members elected by the AGM of Tieto are independent of the company and

five out of seven members are independent of the company's significant shareholders. The independence of the members is evaluated at the Board's constitutive meeting. The Board members shall inform the Board if any changes in these circumstances occur, in which case their independence will be reevaluated.

More detailed background information regarding the Board members, such as working experience, past and present positions of trust and the Remuneration Statement, is presented on the company's website at www.tieto.com/investors.

Board of Directors as at 31 December 2018

Name	Born	Nationality	Education	Main occupation
Kurt Jofs (Chairman)	1958	Swedish	MSc. (Eng.)	Entrepreneur, investor and Board member
Harri-Pekka Kaukonen (Deputy Chairman)	1963	Finnish	DSc. (Tech.)	Professional Board member
Timo Ahopelto	1975	Finnish	MSc. (Tech.)	Entrepreneur, investor and Board member
Liselotte Hägertz Engstam	1960	Swedish	MSc. (Civ. Eng.)	Expert advisor, Board member
Johanna Lamminen	1966	Finnish	DSc. (Tech.), MBA	CEO, Gasum Ltd
Endre Rangnes	1959	Norwegian	BBA (Econ.)	Professional Board member
Jonas Synnergren	1977	Swedish	MSc. (Econ.)	Partner, Cevian Capital AB
Esa Koskinen (Personnel representative)	1955	Finnish	MSc. (Econ.)	Test Engineer
Robert Spinelli (Personnel representative)	1957	Swedish	General Data Processing	Customer Executive



The President and CEO and operative management

Tieto Group's operative management consists of the President and CEO, the Leadership Team and the Industry Group, Service Line and Product Development Services (PDS) organizations. The Industry Solutions Service Line includes the New Data-Driven Businesses unit organized independently of other businesses.

The President and CEO is appointed by the Board and he is responsible for the Group's operative management, internal efficiency and quality.

The President and CEO is assisted by the Leadership Team, which includes the heads of Industry Groups and Service Lines, head of New Data-Driven Businesses, the CFO and the head of HR. Appointments of Leadership Team members are approved by the Chairman of the Board based on the President and CEO's proposal.

The Leadership Team members are accountable for the performance and development of their management areas and they supervise the operations of the units belonging to their areas. As a general rule, the business units in both management

dimensions (Industry Groups, Service Lines and PDS) make their own operative decisions and are responsible for conducting their operative duties.

The Industry Group, Service Line and PDS organizations have a profit and loss responsibility. Further, the Leadership Team also monitors the company's corporate responsibility (CR) performance and approves the CR goals in cooperation with the Board of Directors.

Tieto announced the following changes in its Leadership Team during the year:

- Ari Järvelä was appointed as Head of Business Consulting and Implementation service line as from 1 April. He also continues in his role as head of Data-Driven Businesses and as a member of Tieto's Leadership Team.
- In July, Tieto appointed Tomi Hyryläinen (M.Sc., Econ.) as Chief Financial Officer (CFO) and a member of the company's Leadership Team as of February 2019.
 Janne Salminen, currently Head of Treasury and Group reporting, took on the role of acting CFO as of 17 July 2018.

- In March, Tieto appointed Markus
 Suomi (M.Sc., Software Engineering
 and Industrial Economics) as Chief
 Technology Officer (CTO) and a member
 of the company's Leadership Team as
 of 1 April. Suomi will drive collaboration
 and co-innovation with global technology
 partners as well as fast adoption of the
 latest technologies for the benefit of Tieto
 and its Nordic customers.
- In November, Tieto appointed Julius
 Manni (M.Sc., Economics and Business
 Administration) as Chief Experience
 Officer and a member of the company's
 Leadership Team as of 1 March 2019.
 Manni will be responsible for driving
 holistic customer experience and identity
 development, taking an active role in the
 company's innovation agenda and leading
 marketing and communications.



Members of the Leadership Team as at 31 December 2018

Kimmo Alkio

President and CEO

Born: 1963

Nationality: Finnish

Education: BBA and Executive MBA

Joined the company in 2011

Håkan Dahlström

Executive Vice President, Technology Services

and Modernization

Born: 1962

Nationality: Swedish Education: MSc. (Eng.) Joined the company in 2014

Ari Järvelä

Executive Vice President, New Data-Driven Businesses.

Business Consulting and Implementation

Born: 1969

Nationality: Finnish
Education: MSc. (Eng.)
Joined the company in 2001

Satu Kiiskinen

Executive Vice President, Industrial and

Consumer Services

Born: 1965

Nationality: Finnish Education: MSc. (Econ.) Joined the company in 2013

Katariina Kravi

Executive Vice President, Human Resources

Born: 1967

Nationality: Finnish

Education: LL.M., trained on the bench

Joined the company in 2012

Tom Leskinen

Executive Vice President, Product

Development Services

Born: 1966

Nationality: Finnish
Education: LicSc. (Tech.)
Joined the company in 2013

Cristina Petrescu

Executive Vice President, Public, Healthcare

& Welfare Born: 1968

Nationality: Swedish

Education: MSc. (Computer Science)

Joined the company in 2002

Janne Salminen¹⁾

Acting Chief Financial Officer

Born: 1964

Nationality: Finnish Education: MSc. (Econ.) Joined the company in 2009

Christian Segersven

Executive Vice President, Financial Services

Born: 1975

Nationality: Finnish Education: MSc. (Tech.) Joined the company in 2013

Markus Suomi

Chief Technology Officer

Born: 1971

Nationality: Finnish Education: MSc. (Eng.) Joined the company in 2018

¹⁾ Lasse Heinonen acted as the CFO until 17 July 2018. Tomi Hyryläinen has started as the new CFO in February 2019.

The remuneration of the Leadership
Team is presented in the tables of the
Remuneration Statement. More detailed
background information, such as full CVs of
the Leadership Team, is presented on the
company's website at www.tieto.com/
Investors.

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Auditors

The ARC prepares a proposal on the appointment of Tieto's auditors, which is then presented to the Board and finally to the AGM for its decision. The compensation paid to the auditors is decided by the AGM and assessed annually by the ARC.

The Board of Directors proposes to the Annual General Meeting, in accordance with the recommendation of the Audit and Risk Committee of the Board of Directors that the auditor to be elected at the AGM 2019 be reimbursed according to the auditor's invoice and in compliance with the purchase principles approved by the Committee.

The Board of Directors proposes to the Annual General Meeting, in accordance with the recommendation of the Audit and Risk Committee of the Board of Directors, that the firm of authorized public accountants Deloitte Oy be elected as the company's auditor for the financial year 2019. The firm of authorized public accountants Deloitte Oy has notified that Jukka Vattulainen, Authorized Public Accountant, will act as the auditor with principal responsibility.

Auditing

The AGM 2018 re-elected the firm of authorized public accountants PricewaterhouseCoopers Oy as the company's auditor for the financial year 2018. PricewaterhouseCoopers Oy notified the company that Authorized Public Accountant Tomi Hyryläinen acts as principal auditor. Due to the appointment of Tomi Hyryläinen as Tieto's CFO as from February 2019, PricewaterhouseCoopers Oy resigned from the audit assignment for the financial year 2018. The Finnish Patent and Registration Office designated Deloitte Oy as the new auditor, Authorized Public Accountant Jukka Vattulainen has acted as the auditor with principal responsibility.

In 2018, Tieto Group paid the auditors a total of EUR 1.1 (0.8) million in audit fees, of which EUR 0.8 (0.8) million to the Group's auditor PricewaterhouseCoopers and 0.3 (-) million to Deloitte, and a total of EUR 0.8 (0.3) million for other services, of which EUR 0.6 (0.3) million to the Group's auditor PricewaterhouseCoopers and 0.2 (-) to Deloitte.



Shares and shareholders

Tieto Corporation's issued and registered share capital on 31 December 2018 totalled EUR 76 555 412.00 and the number of shares was 74 109 252.

Tieto's shares have no par value and their book counter value is one euro. Tieto's shares are listed on NASDAQ in Helsinki and Stockholm. The company has one class of shares, with each share conferring equal dividend rights and one vote. The company's Articles of Association include a restriction on voting at the Annual General Meeting, where no-one is allowed to vote with more than one-fifth of the votes represented at the meeting. The Articles of Association are available at www.tieto.com/investors.

Shareholders and holding of own shares

The company had 26 746 registered shareholders at the end of 2018. Based on the ownership records of the Finnish and Swedish central securities depositories, 34.1% of Tieto's shares were held by Finnish and 2.9% by Swedish investors. In total, there

were 25 012 retail investors in Finland and Sweden and they held 12% of Tieto's shares.

The members of the Board of Directors, the President and CEO and their close associates together held 0.1% of the shares and votes registered in the book-entry system on 31 December 2018. The President and CEO is also participating in Tieto's long-term share-based incentive plans. Potential rewards will be paid partly in Tieto shares. As the number of additional shares related to these incentives is dependent on the company's performance these are not included in this aggregate number.

Tieto has three longer-term shareholders holding 10% or more of the shares: Cevian Capital Partners Ltd, Solidium Oy and Silchester International Investors LLP. Based on the latest information (31 August 2018), Cevian Capital's holding was 11 066 684 shares, representing 14.9% of the shares and voting rights. Solidium Oy held 10.0% of Tieto's shares on 31 December 2018. Based on its announcement made on 23 June 2015, Silchester International Investors LLP's aggregate holding in Tieto was 7 401 027

shares, which represents 10.0% of the shares and voting rights.

Tieto is not aware of any shareholder agreements or cross-shareholdings that would limit the amount of shares available for trading. The free float of the shares, excluding the treasury shares currently held by the company, can be considered to be 100%.

At the end of 2018, the number of shares in the company's or its subsidiaries' possession totalled 282 903, representing 0.4% of the total number of shares and voting rights. Related to the company's share-based reward plan, a total of 103 224 shares held by Tieto were transferred to the participants of the plan. The number of outstanding shares, excluding the treasury shares, was 73 826 349 at the end of the year.

Share-based incentive plans

Tieto has three share-based incentive plans, a Performance Share Plan 2016, 2017 and 2018 and a Restricted Share Plan 2016, 2017 and 2018. The potential rewards will be paid partly in the company's shares and partly in cash, in 2019, 2020 and 2021 respectively. The share rewards to be delivered to the participants will consist of shares to be acquired from the market. Thus, no new shares will be issued in connection with the plans. The rewards to be paid on the basis of the plans correspond to the value of an approximate maximum total of 1 500 000 Tieto shares (including the proportion to be paid in cash). The company has not issued any bonds with warrants and does not have any stock option programmes.

Board authorizations

The 2018 Annual General Meeting authorized the Board of Directors to decide on the repurchase of the company's own shares. The amount of own shares to be repurchased shall not exceed 7 400 000 shares, which currently corresponds to approximately 10% of all the shares in the company. The authorization is intended to be used to develop the company's capital structure.

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Share information

	2018	2017	2016	2015	2014
Number of shares					
Number of shares	74 109 252	74 109 252	74 109 252	74 009 953	73 675 903
Outstanding shares ¹⁾					
At year end	73 826 349	73 723 125	73 697 570	73 544 869	73 165 084
Average	73 809 855	73 722 565	73 660 433	73 426 563	72 944 228
Share capital at year end, EUR	76 555 412	76 555 412	76 555 412	76 555 412	76 555 412
Per share data					
Earnings per share, EUR					
Basic	1.67	1.46	1.46	1.23	0.48
Diluted	1.66	1.46	1.46	1.23	0.48
Equity per share, EUR	6.54	6.46	6.62	6.57	6.44
Share price performance and trading volumes					
NASDAQ Helsinki					
Highest price of share, EUR	30.74	29.98	28.47	25.00	22.64
Lowest price of share, EUR	22.86	24.39	22.20	19.98	16.15
Average price of share, EUR	27.56	26.85	24.83	22.48	19.45
Turnover, number of shares	29 333 439	35 895 771	34 827 778	37 041 013	28 085 320
Turnover, %	39.6	48.4	47.0	50.0	38.1

	2018	2017	2016	2015	2014
NASDAQ Stockholm					
Highest price of share, SEK	318.80	289.50	275.90	246.10	207.90
Lowest price of share, SEK	235.40	232.20	205.70	183.00	142.10
Average price of share, SEK	283.89	259.19	229.09	210.32	177.45
Turnover, number of shares	1 829 632	2 540 715	1 802 382	1 802 615	3 138 593
Turnover, %	2.5	3.4	2.4	2.4	4.3
Market capitalization,					
EUR million	1 747.5	1 925.4	1 920.9	1 829.5	1 584.8
Dividends					
Dividend, EUR 1 000	103 465	103 212	101 001	99 290	95 177
Dividend per share, EUR	1.45	1.40	1.37	1.35	1.30
Payout ratio, %	86.8	95.9	93.8	109.8	270.8
Price-weighted ratios					
NASDAQ Helsinki					
Price per earnings ratio (P/E)	14	18	18	20	45
Dividend yield, %	6.1	5.4	5.3	5.5	6.0
NASDAQ Stockholm					
Price per earnings ratio (P/E)	14	18	18	20	45
Dividend yield, %	6.1	5.4	5.3	5.5	6.0

¹⁾ Adjusted for shares held by the company



Major shareholders on 31 December 2018

	Shares	%
1 Cevian Capital ¹⁾	11 066 684	14.9
2 Solidium Oy	7 415 418	10.0
3 Silchester International Investors LLP ²⁾	7 401 027	10.0
4 Ilmarinen Mutual Pension Insurance Co.	1 443 415	1.9
5 Swedbank Robur fonder	1 423 054	1.9
6 Elo Pension Co.	810 000	1.1
7 The State Pension fund	773 000	1.0
8 Svenska litteratursällskapet i Finland r.f.	636 345	0.9
9 Åbo Akademi University Foundation	495 500	0.7
10 Nordea Funds	383 816	0.5
Top 10 shareholders total	31 848 259	43.0
- of which nominee registered	18 467 711	24.9
Nominee registered other	29 901 319	40.3
Others	12 359 674	16.7
Total	74 109 252	100.0

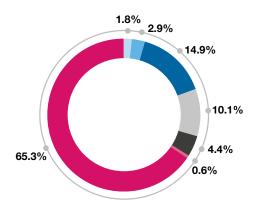
Based on the ownership records of Euroclear Finland Oy and Euroclear Sweden AB.

Number of shares

	Sha	Shareholders		res
	No	%	No	%
1–100	6 573	39.0	354 830	0.5
101–500	6 679	39.7	1 737 417	2.3
501-1 000	1 793	10.6	1 374 688	1.9
1 001–5 000	1 494	8.9	3 173 873	4.3
5 001–10 000	149	0.9	1 042 806	1.4
10 001–50 000	105	0.6	2 152 190	2.9
50 001–100 000	25	0.1	1 767 017	2.4
100 001–500 000	17	0.1	3 757 132	5.1
500 001-	8	0.0	58 738 739	79.3

Based on the ownership records of Euroclear Finland Oy

OWNERSHIP STRUCTURE ON 31 DEC 2018, % OF SHARES



- Corporations
- Finance and insurance institutions
- Public organizations
- Households
- Non-profit organizations
- Foreign
- Nominee registered

¹⁾ Based on the ownership records of Euroclear Finland Oy, Cevian Capital's holding on 31 August 2018 was 11 066 684 shares, representing 14.9% of the shares and voting rights.

 $^{^{21}}$ On 23 June 2015, Silchester International Investors LLP announced that its holding in Tieto Corporation was 7 401 027 shares, which represents 10.0% of the shares and voting rights.



Dividend

The distributable funds of the parent company amount to EUR 642.7 million, of which net profit for the current year amounts to EUR 139.6 million. The Board of Directors proposes a dividend of EUR 1.25 (1.20) per share for 2018. In light of the company's strong cash flow and targeted capital structure, the Board of Directors proposes an additional dividend of EUR 0.20 (0.20). Tieto will maintain its capacity to invest in growth both organically and inorganically after dividends. The proposed dividend payout does not endanger the solvency of the company.

The dividend shall be paid to shareholders who are recorded in the shareholders' register held by Euroclear Finland Ltd or the register of Euroclear Sweden AB on the proposed dividend record date, 25 March 2019.

Near-term risks and uncertainties

Consolidated net sales and profitability are sensitive to volatility in exchange rates, especially that of the Swedish Krona and Norwegian Krona. Sales to Sweden and Norway represent close to half of the Group's sales. Further details on management of currency risks are provided in the Financial Statements and on currency impacts at www.tieto.com/currency.

Tieto's ambition to drive customer transformation poses a risk of lower prices in existing services while it also expands the company's sales opportunities. At the same time, new disruptive technologies, such as cloud computing, drive customer demand towards standardized and less labour-intensive solutions. These changes might result in the need for continuous restructuring and the need to recruit new competences. That may lead to temporarily overlapping personnel costs.

The transformation to the new operating model, announced on 6 February, may affect performance in the short term while the impact of the simplified structure on the full-year results is anticipated to be positive.

The company's development is relatively sensitive to changes in the demand from large customers as Tieto's top 10 customers currently account for 29% of its net sales,

with Product Development Services having the highest customer concentration in the company. However, the share has decreased by several percentage points during the past years.

Typical risks faced by the IT service industry relate to the development and implementation of new technologies and software. In Tieto's case these relate to both own software development and implementation of third-party software for service delivery. Furthermore, additional technology licence fees, the quality of deliveries and related project overruns and penalties pose potential risks.

The new EU General Data Protection
Regulation took effect in May 2018. Tieto is
well prepared for the new regulation although
there is increased uncertainty with regards to
how the authorities will interpret the regulation.
As many customers still continue to finalize
their preparations for the regulation changes,
Tieto can tap into opportunities in businesses
such as security and application services.

Companies around the world are facing new risks arising from tax audits and some countries may introduce new regulation.

Additionally, changes in the tax authorities' interpretations could have unfavourable impacts on taxpayers.



Events after the period

On 6 February, Tieto launched a new strategy to take advantage of the rapidly developing opportunities in the data-rich world – and to continue to elevate financial performance and shareholder value. More details available at www.tieto.com/investors.

Full-year outlook for 2019

Tieto expects its full-year adjusted¹⁾ operating profit (EBIT) to increase from the previous year's level (EUR 168.0 million²⁾ in 2018). The definition of adjusted operating profit has been revised to improve comparability of operating profit also in light of the company's acquisitions.

¹⁾ Adjusted for amortization of acquisition-related intangible assets, restructuring costs, capital gains/losses, goodwill impairment charges and other items affecting comparability ²⁾ Not restated for IFRS 16

Financial calendar 2019

21 MARCH

Annual General Meeting

Tieto will publish three interim reports in 2019:

25 APRIL

Interim report 1/2019 (8.00 am EET)

19 JULY

Interim report 2/2019 (8.00 am EET)

24 OCTOBER

Interim report 3/2019 (8.00 am EET)

Adjusted earnings per share

= Net profit for the period excluding adjustments, net of tax



Calculation of key figures

Earnings per share

Net profit for the periodAverage number of shares

Calculation of alternative performance measures

Tieto presents certain financial measures, which, in accordance with the "Alternative Performance Measures" guidance issued by the European Securities and Markets Authority, are not accounting measures defined or specified in IFRS and are, therefore, considered alternative performance measures. Tieto believes that alternative performance measures provide meaningful supplemental information to the financial measures presented in the consolidated financial statements prepared in accordance with IFRS and increase the understanding of the profitability of Tieto's operations. Alternative performance measures are not accounting measures defined or specified in IFRS and, therefore, they are considered non-IFRS measures, which should not be viewed in isolation or as a substitute to the IFRS financial measures.

Average number of shares Adjustments = Restructuring costs + capital gains/losses + goodwill impairment charges + other items affecting comparability Adjusted operating profit (EBIT) = Operating profit + adjustments Adjusted operating profit Adjusted operating profit (EBIT) margin (EBIT), % Net sales Equity per share Total equity Number of shares at the year-end Capital expenditure = Acquisitions of intangible assets and property, plant and equipment Acquisitions = Acquisitions of subsidiaries and business operations, net of cash acquired Return on equity, = Profit before taxes and non-controlling interests – income taxes * 100 12-month rolling, % Total equity (12-month average) Return on capital employed, = Profit before taxes and non-controlling interests + * 100 12-month rolling, % interest and other financial expenses Total assets - non-interest-bearing liabilities (12-month average) Equity ratio, % = Total equity * 100 Total assets – advance payments Interest-bearing net debt = Interest-bearing liabilities - interest-bearing receivables cash and cash equivalents - securities carried as current assets Net debt/EBITDA = Interest-bearing net debt EBITDA (12-month average, excluding capital gains) Gearing, % = Interest-bearing net debt * 100 Total equity



Reconciliation of alternative performance measures

Adjusted operating profit (EBIT)

EUR million	2018	2017
Operating profit (EBIT)	154.7	139.1
+ restructuring costs	9.3	22.7
+ premises related expenses	0.3	-
- capital gains	-4.6	-
+ capital losses	-	0.3
+/- M&A related items	1.4	-0.2
+/- other items	1.8	-0.5
Adjusted operating profit (EBIT)	162.8	161.4

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CONSOLIDATED FINANCIAL STATEMENTS (IFRS)

Income statement

EUR million	Note	2018	2017
Net sales	1, 2	1 599.5	1 543.4
Other operating income	3	22.0	17.4
Materials and services		-247.9	-235.0
Employee benefit expenses	7	-905.0	-873.3
Depreciation and amortization	11, 12	-55.0	-54.7
Impairment losses	24	-2.9	-
Other operating expenses	4	-261.8	-261.8
Share of results in joint ventures	24	5.8	3.2
Operating profit (EBIT)		154.7	139.1
	_		
Interest and other financial income	5	2.3	1.5
Interest and other financial expenses	5	-5.2	-4.7
Net foreign exchange gains/losses	5	1.0	-0.2
Profit before taxes		152.8	135.7
Income taxes	10	-29.6	-28.0
Net profit for the financial year		123.2	107.7
Net profit for the financial year attributable to			
Owners of the Parent company		123.2	107.7
Non-controlling interest		0.0	0.0
		123.2	107.7
Earnings per share attributable to owners of the Parent company, EUR per share	6		
Basic		1.67	1.46
Diluted		1.66	1.46

Statement of other comprehensive income

EUR million		2018	2017
Net profit for the financial year		123.2	107.7
Items that may be reclassified subsequently to profit or loss			
Translation differences		-15.9	-19.0
Items that will not be reclassified subsequently to profit or loss			
Remeasurements of the defined benefit plans	9	-0.6	-3.1
Income tax related to remeasurements	10	0.1	0.6
Total comprehensive income		106.8	86.3
Total comprehensive income attributable to			
Owners of the Parent company		106.8	86.3
Non-controlling interest		0.0	0.0
		106.8	86.3

Notes are an integral part of these consolidated financial statements.



Statement of financial position

Assets

EUR million	Note	31 Dec 2018	31 Dec 2017
Non-current assets			
Goodwill	11, 25, 26	442.6	441.3
Other intangible assets	11	45.6	51.1
Property, plant and equipment	12	92.3	94.9
Interests in joint ventures	24	16.0	16.3
Deferred tax assets	10	23.6	25.7
Defined benefit plan assets ¹⁾	9	5.5	7.4
Finance lease receivables	18	0.7	0.8
Other financial assets at amortized cost		0.5	0.4
Other financial assets at fair value through profit or loss		0.5	0.5
Other non-current receivables ¹⁾	13	14.9	8.9
Total non-current assets		642.3	647.4
Current assets			
Trade and other receivables ¹⁾	13	382.9	413.6
Finance lease receivables	18	0.9	2.0
Current tax assets		6.9	8.7
Cash and cash equivalents	14	164.6	78.2
Total current assets		555.3	502.5
Total assets		1 197.6	1 149.9

¹⁾ Comparative figures reclassified from current to non-current assets.

Equity and liabilitites

EUR million	Note	31 Dec 2018	31 Dec 2017
Equity	15		
Share capital		76.6	76.6
Share premium and other reserves		41.5	42.6
Invested unrestricted equity reserve		12.8	12.8
Retained earnings		351.7	343.8
Equity attributable to owners of the Parent company		482.5	475.8
Non-controlling interest		0.0	0.4
Total equity		482.5	476.1
Non-current liabilities			
Loans	16, 18	185.5	102.5
Deferred tax liabilities	10	38.0	38.5
Provisions	17	3.3	2.6
Defined benefit obligations	9	9.9	11.9
Other non-current liabilities		3.2	4.5
Total non-current liabilities		240.0	160.0
Current liabilities			
Trade and other payables	19	340.1	362.9
Current tax liabilities		8.9	5.9
Provisions	17	7.4	10.3
Loans	16, 18	118.6	134.6
Total current liabilities		475.0	513.7
The state of the s		4 407 0	4 4 4 0 0
Total equity and liabilities		1 197.6	1 149.9

Notes are an integral part of these consolidated financial statements.



Statement of cash flows

EUR million	Note	2018	2017
Cash flow from operating activities			
Net profit for the financial year		123.2	107.7
Adjustments			
Depreciation, amortization and impairment losses	11, 12, 24	57.9	54.7
Profit/loss on sale of property, plant and equipment, subsidiaries and business operations	3, 25	-5.0	0.0
Share of results in joint ventures	24	-5.8	-3.2
Other adjustments		-0.1	-3.5
Net financial expenses	5	1.9	3.4
Income taxes	10	29.6	28.0
Change in net working capital			
Change in current receivables		20.3	-27.9
Change in current non-interest-bearing liabilities		-23.5	12.5
Cash generated from operating activities before interests and taxes		198.6	171.8
Interest received		2.1	1.6
Interest paid		-3.9	-3.6
Other financial income received		7.7	9.8
Other financial expenses paid		-12.0	-15.2
Dividends received	24	3.2	3.5
Income taxes paid		-21.4	-16.9
Cash flow from operating activities		174.2	151.0

EUR million	Note	2018	2017
Cash flow from investing activities			
Acquisition of subsidiaries and business operations, net of cash acquired	25	-14.5	-43.7
Capital expenditure	20	-45.0	-47.0
Disposal of subsidiaries and business operations, net of cash disposed	25	8.4	-0.3
Proceeds from sale of property, plant and equipment	20	0.6	0.4
Change in loan receivables		1.2	2.7
Cash flow from investing activities		-49.3	-87.9
-			
Cash flow from financing activities			
Dividends paid		-103.4	-101.0
Repayments of finance lease liabilities	16	-0.8	-1.0
Short-term financing, net (increase +/decrease -)	16	-116.9	61.6
Proceeds from long-term borrowings	16	185.0	0.5
Repayments of long-term borrowings	16	-1.6	-0.3
Other financing cash flow		-3.5	-
Cash flow from financing activities		-41.2	-40.2
Change in cash and cash equivalents		83.7	22.9
Cash and cash equivalents at the beginning of period	14	78.2	56.7
Foreign exchange differences		2.7	-1.4
Change in cash and cash equivalents		83.7	22.9
Cash and cash equivalents at the end of period		164.6	78.2

Notes are an integral part of these consolidated financial statements.



Statement of changes in shareholders' equity

		Owners of the Parent company								
EUR million	Note	Share capital	Share premium and other reserves	Own shares	Translation differences	Invested unrestricted equity reserve	Retained earnings	Total	Non- controlling interest	Total equity
31 Dec 2017		76.6	42.6	-11.6	-78.5	12.8	433.8	475.8	0.4	476.1
Adjustment on initial application of IFRS 9, net of tax		-	-	-	-	-	-0.4	-0.4	-	-0.4
Adjustment on initial application of IFRS 2 amendment		_	-	_	-	-	4.0	4.0	-	4.0
Other adjustment		-	-	3.9	-	-	-3.9	0.0	-	0.0
1 Jan 2018		76.6	42.6	-7.7	-78.5	12.8	433.5	479.4	0.4	479.7
Comprehensive income										
Net profit for the financial year		-	-	-	-	-	123.2	123.2	0.0	123.2
Other comprehensive income, net of tax										
Remeasurements of the defined benefit plans, net of tax		-	-	-	-	-	-0.5	-0.5	-	-0.5
Translation differences		-	-1.1	-	-14.8	-	0.0	-15.9	-	-15.9
Total comprehensive income		-	-1.1	-	-14.8	-	122.7	106.8	0.0	106.8
Transactions with owners										
Contributions and distributions										
Share-based incentive plans	8	-	-	2.6	-	-	0.1	2.7	-	2.7
Dividends		-	-	-	-	-	-103.4	-103.4	-	-103.4
Changes in ownership interests										
Acquisition of non-controlling interest without change in control		-	-	-	-	-	-2.9	-2.9	-0.4	-3.3
Total transactions with owners		-	-	2.6	-	-	-106.2	-103.6	-0.4	-104.0
31 Dec 2018		76.6	41.5	-5.1	-93.3	12.8	450.0	482.5	0.0	482.5

Notes are an integral part of these consolidated financial statements.



Statement of changes in shareholders' equity

	_									
		Owners of the Parent company								
EUR million	Note	Share capital	Share premium and other reserves	Own shares	Translation differences	Invested unrestricted equity reserve	Retained earnings	Total	Non- controlling interest	Total equity
31 Dec 2016		76.6	43.4	-11.6	-52.3	12.8	419.2	488.1	-	488.1
Adjustment on initial application of IFRS 15, net of tax		-	-	-	_	-	0.6	0.6	-	0.6
1 Jan 2017		76.6	43.4	-11.6	-52.3	12.8	419.8	488.7	-	488.7
Comprehensive income										
Net profit for the financial year		-	-	-	-	-	107.7	107.7	0.0	107.7
Other comprehensive income, net of ta	ıx									
Remeasurements of the defined benefit plans, net of tax		_	-	-	-	_	-2.4	-2.4	-	-2.4
Translation differences		-	-0.8	-	-26.2	-	8.0	-19.0	-	-19.0
Total comprehensive income		-	-0.8	-	-26.2	-	113.3	86.3	0.0	86.3
Transactions with owners										
Contributions and distributions										
Share-based incentive plans	8	-	-	-	-	-	1.7	1.7	-	1.7
Dividends		-	-	-	-	-	-101.0	-101.0	-	-101.0
Changes in ownership interests										
Acquisition of non-controlling interest										
without change in control		-	-	-	-	-	-	-	0.4	0.4
Total transactions with owners		-	-	-	-	-	-99.3	-99.3	0.4	-98.9
31 Dec 2017		76.6	42.6	-11.6	-78.5	12.8	433.8	475.8	0.4	476.1

Notes are an integral part of these consolidated financial statements.



NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (IFRS)

Accounting policies for the consolidated accounts

Corporate information

Tieto Corporation (business identity code 0101138-5) is a Finnish public limited IT service and software company organized under the laws of Finland. It is domiciled in Espoo and the address of the Group head office is Keilalahdentie 2-4, 02101 Espoo, Finland. The company is listed on NASDAQ Helsinki and Stockholm. The Board of Directors approved these consolidated financial statements to be published on 28 February 2019. According to the Limited Liability Companies Act, the shareholders have the right at the Annual General Meeting to either approve, amend or reject the consolidated financial statements after the publication.

Basis of preparation

These consolidated financial statements of Tieto Corporation have been prepared in accordance with International Financial Reporting Standards (IFRS) and IFRIC interpretations as adopted by the European Union. The financial statements also comply with Finnish accounting principles and corporate legislation complementing the IFRSs. The consolidated financial statements are presented in millions of euros and have been prepared under the historical cost convention, unless otherwise stated in these accounting policies. All figures presented have been rounded, and consequently the sum of individual figures can deviate from the presented sum figure. Key figures have been calculated using exact figures.

Adoption of new and amended IFRS standards and interpretations

The Group has applied the following new or amended standards starting from 1 January 2018.

IFRS 15 Revenue from Contracts with Customers

IFRS 15 is based on the principle that revenue is recognized when control of a good or service transfers to a customer. The adoption of IFRS 15 resulted in changes in accounting policies and adjustments to the amounts recognized in the financial statements. In accordance with

the transition provisions in IFRS 15, the new principles have been adopted retrospectively and comparatives for the 2017 financial year have been restated. The Group applied the following practical expedients when adopting IFRS 15: completed contracts were not restated, the variable consideration amounts were not estimated for the comparative accounting periods and contracts were not retrospectively restated for contract modifications. According to IFRS 15, the set-up costs related to transition projects are capitalized and amortized during the period when the revenue for related continuous operating service contract is recognized. This resulted to EUR 0.6 million change on opening retained earnings as of 1 January 2017. The impact on 2017 net sales was EUR 0.2 million, on costs EUR 0.3 million and on operating profit EUR -0.1 million. The revised accounting policy on revenue recognition is described under heading Revenue recognition.

IFRS 9 Financial Instruments

IFRS 9 addresses the following aspects of Financial Instruments accounting: Recognition and derecognition, Classification and measurement, including impairment and Hedge accounting. The Group applied the exemption, as allowed by the standard, not to restate comparative periods. Differences in the carrying amounts of financial assets and financial liabilities resulting from the adoption of IFRS 9 have been recognized as a decrease of EUR 0.4 million (net of tax) in opening retained earnings for 1 January 2018. IFRS 9 implementation also resulted in changes in the accounting policies applied to financial instruments which are described under heading Financial Instruments.

Amendments to IFRS 2 'Share-based Payments – Classification and Measurement of Share-based Payment Transactions'

The amendments clarify the accounting for certain types of arrangements. Three accounting areas are covered: measurement of cash-settled share-based payments, classification of share-based payments settled net of tax withholdings, and accounting for a modification of a share-based payment from cash-settled to equity-settled.

The Group has share-based incentive plans for key employees for which more information is disclosed in these financial statements. The amendment regarding the classification of share-based incentive plans net of tax withholdings had an impact on the consolidated



financial statements of the Group. As Tieto's share-based incentive plans will according to the amendment be fully accounted for as equity-settled, the fair values of the programmes over the vesting period will be fully determined based on the share price at the grant date. On transition, the Group has reclassified EUR 4.0 million from liabilities to equity.

The group has not yet applied the following new and amended standards and interpretations already issued. Those will be adopted as of the effective date.

IFRS 16 Leases (effective for the financial years beginning on or after 1 January, 2019)

IFRS 16 will result in almost all leases being recognized on the statement of financial position, as the distinction between operating and finance leases is removed. Under the new standard, an asset (the right to use the leased item) and a financial liability to pay rentals are recognized in the statement of financial position. The Group will apply exceptions allowed by the standard for short-term and low-value leases. The accounting for lessors will not significantly change.

The Group will adopt the modified retrospective approach upon transition, resulting with all transition impact being reported as adjustment to opening retained earnings and comparative periods are not restated. The Group will use practical expedient not to reassess definition of a lease and apply IFRS 16 to all existing operating leases as of 31 Dec 2018.

On the reporting date, the Group has non-cancellable operating lease commitments of EUR 182.0 million, see **note 27**. It is estimated that IFRS 16 has the following impact on the Group financial statements:

Income Statement (EUR million)

As reporte	IFRS 16 Impact	
Employee benefit expenses (currently including car benefit expenses)	-905.0	decrease of <1%
Depreciation, amortization and impairment losses	-55.0	increase of ~90%
Other operating expenses	-261.8	decrease of ~20%
EBIT	154.7	increase of ~2.5-3.0%
Interest expenses	-5.2	increase of 100-115%
Profit before taxes	152.8	decrease of ~1%

Statement of Financial Position (EUR million)

Lessee reporting ¹⁾	IFRS 16 Impact ²⁾
Right of use assets (increase)	EUR 155-165 million
Lease liabilities (increase)	EUR 158-168 million
Deferred rent and Accrued lease payments as of 31 Dec 2018 (decrease)	EUR 1.5–2.0 million

¹⁾ Impact on Lessor accounting not material.

²⁾ Impacts premises, cars and equipment.

Key figures	As reported in 2018	IFRS 16 Impact
Net debt	137.4	increase of 115-125%
Net debt/EBITDA	0.7	increase of ~0.5

Other standards

Other new or amended IFRS standards or IFRIC interpretations that are not yet effective are not expected to have a material impact on Tieto's consolidated financial statements in the current or future reporting periods.



Consolidation principles

The consolidated financial statements include the Parent company Tieto Corporation and all subsidiaries over which the Parent company has directly or indirectly more than one half of the voting rights, or the Parent company is otherwise in control of the company. Control exists when Tieto is exposed to, or has rights to, variable returns from its involvement with the entity and can affect those returns through its power over the entity.

Subsidiaries are consolidated from the date on which control is achieved until the date on which control ceases by using the acquisition method. The consideration transferred for the acquisition of a subsidiary is the fair values of the assets transferred, the liabilities incurred and the equity interests issued by the Group and it includes also the fair value of any asset or liability resulting from a contingent consideration. Contingent consideration classified as liability is remeasured at its fair value at each reporting date and the subsequent changes to fair value are recognized in profit or loss. Acquisition related costs are expensed as incurred. Identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. On an acquisition-by-acquisition basis, the Group recognizes any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

The excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired is recognized as goodwill at the acquisition date. If the cost of the acquisition is less than the fair value of the net assets acquired in the case of a bargain purchase, the resulting gain is recognized in profit or loss.

Intra-group receivables, payables and transactions including dividends and internal profit are eliminated on consolidation. When necessary, subsidiaries' accounting policies have been aligned to correspond to the Group's accounting policies. The result for the period and items of other comprehensive income are allocated to the equity holders of the company

and non-controlling interests and presented in the income statement and statement of other comprehensive income. Non-controlling interests are shown separately under shareholders' equity.

Companies, where Tieto has assumed management responsibility, has contractually based joint control with a third party and has right to the net assets of the company based on the contractual arrangement are included in the consolidated financial statements as joint ventures. Joint ventures are accounted by using the equity method under which the investments in joint ventures are initially recognized at cost and adjusted thereafter to recognize the Group's share of the post-acquisition profits or losses and movements in other comprehensive income. When the Group's share of joint venture's losses exceeds the carrying amount of the investment, the investment is recognized at zero value in the statement of financial position and the Group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the joint venture.

Sales to and purchases from joint ventures are made on normal market terms and conditions and at market prices. The Group's share of the joint ventures' result for the period is separately disclosed in the income statement.

Segment reporting

Tieto's operating model comprises of a matrix structure of service lines and industry groups, of which the service line dimension constitutes the main operating segments in which the strategic decisions are made. The reportable operating segments in the service line dimension are Technology Services and Modernization, Business Consulting and Implementation, Industry Solutions and Product Development Services. The operating segments are reported in a manner consistent with the internal reporting provided to the Leadership team which has been identified as Tieto's chief operating decision maker being responsible for allocating resources and assessing performance of the operating segments as well as deciding on strategy. Segment reporting is prepared according to IFRS accounting principles.



No internal sales occur between the reportable segments as in the internal reporting, revenue and costs are recognized directly to the respective customer projects in the service lines. The performance of segments is assessed based on operating profit (EBIT).

Group level costs related to Global management, Support functions and other non-allocated costs are not included in the service line segments but are reported under Support Functions and Global Management in the segment reporting.

Foreign currency transactions

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The consolidated financial statements are presented in euros, which is the Parent company's functional and presentation currency.

Foreign currency transactions are translated into local functional currencies using the exchange rates prevailing on the transaction date. The foreign currency monetary items are translated using period end exchange rates. The foreign currency non-monetary items held at fair value are translated into the functional currency using the exchange rate prevailing at the date when the fair value was determined or remeasured. Other non-monetary items are recognized at the exchange rate prevailing on the transaction date.

For internal, long-term loans to subsidiaries, when classified as net investment in foreign operation, all related unrealized foreign exchange gains and losses are recognized in profit or loss in the separate financial statements. In the consolidated financial statements, such exchange differences are recognized initially in other comprehensive income and reclassified from equity to profit or loss on disposal of the net investment.

Other foreign exchange gains and losses related to business operations are included in operating profit. Foreign exchange gains and losses associated with financing are recognized in finance income and expenses.

For those Group entities whose functional and presentation currency is not the euro, the income statements and statements of financial position are translated into the Group presentation currency as follows:

- assets and liabilities for each statement of financial position presented are translated using the exchange rates prevailing at the reporting date;
- income and expenses for each income statement are translated using the average exchange rates of the reporting period;
- all resulting translation differences are recognized in other comprehensive income.

When a subsidiary is sold, any translation differences are recognized in the consolidated income statement as part of the gain or loss on the sale.

Goodwill and fair value adjustments to the carrying amounts of assets and liabilities arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated into euro using the exchange rates prevailing at the reporting date. Translation differences arising are recognized in other comprehensive income.

Revenue recognition

The business models of the Group consist of continuous services, software solutions, projects and consulting. Goods mainly include sales of software licenses. Revenue comprises the fair value for the sale of IT services and goods, net of value-added tax, discounts and exchange rate differences.

Revenue from service contracts is based on service volumes or time and materials and the performance obligations are recognized over the accounting period in which the services are rendered or project completed. The services are generally satisfied and the control transferred to the customer over time given that either the customer simultaneously receives and consumes the benefits provided by the Group, or the Group's performance does not create an asset with an alternative use for the Group, in which case there is an enforceable right to payment for work completed to date.



In majority of the businesses, covering continuous services, time and material projects and consulting, the performance obligations satisfied are invoiced on monthly basis and the consideration is payable when invoiced. The standard payment term is 30 days, net, according to the Group's Credit Policy. Goods, typically distinct licenses, are invoiced on delivery. The license revenue is recognized at a point in time when the license is delivered, the legal title has passed, the customer has accepted the license and has access to the licensed software. The contract assets or liabilities do not typically arise in the businesses described above.

For contracts comprising fixed-price projects, revenue is recognized based on the actual service provided by the reporting date as a proportion of the total services to be provided. This is determined based on the cost of actual labour hours spent relative to the total expected cost of labour hours, as it best depicts the transfer of control to the customer. Estimates of revenues, costs or progress towards completion are revised if circumstances change and any resulting increases or decreases in estimated revenues or costs are reflected in profit or loss in the period in which the circumstances that give rise to the revision become known by the management. Invoicing and customer payments in the fixed-price projects follow the payment schedule defined in the customer contract. If the services rendered by the Group exceed the payment, a contract asset is recognized, and if the payments exceed the services rendered, a contract liability is recognized.

The customer contracts of the Group typically comprise several of the business models described above. The most appropriate presentation on how the nature, amount, timing and uncertainty of revenue and cash flows are affected by economic factors is considered to be the disaggregation of revenue presented in the segment reporting in **note 1**. The disaggregation of Customer sales from long-term fixed-price contracts by segment represents the revenue from contracts for which the risks are different compared to other contracts with customers.

Some contracts include delivery of hardware together with variety of services from the Group. Hardware is usually provided by another service provider. The installation of hardware is simple, does not include an integration service from Tieto and could be performed by another party. It is, therefore, accounted for as a separate performance obligation. In these contracts, Tieto

usually acts as an agent, as the Group does not obtain control of the hardware provided by another party before it is transferred to the customer.

Where the contracts include multiple performance obligations, the transaction price is allocated to each performance obligation based on the stand-alone selling prices, which are observable from the contracts and represent prices for services rendered in similar circumstances to similar customers. Revenue from contracts granting a discount retrospectively to the customer is recognized based on the price specified in the contract, net of the estimated discounts. Accumulated customer specific experience is used to estimate and provide for the discounts and revenue is only recognized to the extent that it is highly probable that a significant reversal will not occur.

Tieto grants assurance type of warranties which guarantee that the delivery complies with agreed specifications. These are accounted for in accordance with IAS 37 Provisions, Contingent Liabilities and Contingent Assets.

The Group does not have any contracts where the period between the transfer of the promised goods or services to the customer and payment by the customer exceeds one year. Consequently, the Group does not adjust any of the transaction prices for the time value of money.

The Group capitalizes material costs of set-up activities related to transition projects in the initial phase of continuous operating service contracts, when the criteria for capitalization according to IFRS 15 are met. The set-up activities do not result in the transfer of a promised good or service and are not identified as a performance obligation to the customer. The capitalized costs of a contract are amortized during the period when the revenue for related continuous operating service contract is recognized.

Management judgement is required when estimating recognition of revenue for fixed price projects and amounts of retrospective discounts. Judgment is also used when determining what is the contract and what are the set-up costs to be capitalized. More information is disclosed under heading Critical accounting estimates and assumptions.



Income taxes

Tax expense for the period includes current taxes of the Group companies based on taxable profit for the year, together with tax adjustments for previous years and changes in deferred taxes. Tax is recognized in the income statement, except to the extent that it relates to items recognized in other comprehensive income or directly in equity, in which case the related income tax is also recognized in other comprehensive income or directly in equity, respectively. The share of results in joint ventures is reported in the income statement based on the net result and thus, including the income tax effect.

Deferred income tax is recognized, using the liability method, on temporary differences between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. Deferred income tax is determined using the tax rates and laws which have been enacted or substantively enacted at the reporting date and are expected to apply when the related deferred income tax asset is realized or the deferred income tax liability is settled. The most significant temporary differences arise from depreciation differences, tax losses carried forward and intangible assets. Deferred taxes are accounted for temporary differences except for the following: goodwill not deductible for taxation purposes, the initial recognition of an asset or liability in a transaction other than a business combination that affect neither accounting nor taxable profit or loss, and differences related to investments in subsidiaries to the extent that they will probably not be reversed in the foreseeable future.

A deferred tax asset is recognized only to the extent that it is probable that future taxable profits will be available against which the asset can be utilized. The deferred tax assets and liabilities arising from consolidation are recognized in the consolidated statement of financial position if it is probable that the related tax effects will occur.

Government grants

Government grants are recognized as other operating income on a systematic basis over the periods necessary to match them with the related costs that they are intended to compensate. Investment grants related to acquisitions of property, plant and equipment and intangible assets are deducted from the cost of the asset in question in the statement of financial position and recognized as income on a systematic basis over the useful life of the asset in the form of reduced depreciation or amortization expense.

Research and development costs

Research costs are expensed when incurred. Development costs related to major new software products are capitalized as intangible assets when it is probable that the development will generate future economic benefits for the Group, and certain criteria related to commercial and technological feasibility are met. Development costs comprise service and solution development focusing on, for example, industry-specific software, customer experience management and security services, as well as cloud services. Additionally, the costs for related internal development, e.g. automation in infrastructure services, are included in development costs.

Subsequent to initial recognition, capitalized development costs are measured at cost less accumulated amortization and impairment losses.



Goodwill and other intangible assets

Goodwill arising on a business combination represents the excess of the aggregate of the consideration transferred, the amount of non-controlling interests in the acquiree and previously held equity interest in the acquiree over the fair value of the Group's share of the identifiable net assets acquired. Goodwill is not amortized, but tested for impairment at least annually. Goodwill is measured at cost less accumulated impairment losses. In respect of joint ventures, goodwill is included in the carrying amount of the investment.

Other intangible assets than goodwill are recognized initially at cost. An intangible asset is recognized only if it is probable that the future economic benefits attributable to the asset will flow to the Group and the cost of the asset can be measured reliably. All other costs are expensed as incurred. After initial recognition, intangible assets are measured at cost less amortizations and accumulated impairment losses. Intangible assets are amortized over their useful lives with the straight-line method. Tieto does not have any intangible assets with indefinite useful lives.

Intangible assets acquired in business combinations are measured at fair value at the acquisition date. These are usually customer or technology related and have finite useful lives.

The Group applies the following useful lives:

	Years
Software	3
Other intangible assets	3–10
Technology related intangible assets recognized at fair value from acquisitions	3–10
Customer related intangible assets recognized at fair value from acquisitions	2–10

Gains and losses on disposal of intangible assets are included in other operating income and expenses.

Impairment testing of goodwill

Goodwill recognized in a business combination is tested for impairment annually or whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. For the purpose of impairment testing, goodwill is allocated to the operating segments of the Group, which are the cash generating units (CGU) expected to benefit from the synergies of the business combination. If the carrying amount of goodwill allocated to the operating segments exceeds its recoverable amount, an impairment loss equal to the difference is recognized in profit or loss. The recoverable amount is the higher of the value in use represented by the net present value of future cash flows and the fair value less costs to sell. Impairment losses on goodwill are not reversed.



Property, plant and equipment

Property, plant and equipment are measured at cost less accumulated depreciation and impairment losses. Government grants received are deducted from the cost.

Land is not depreciated. Property, plant and equipment acquired in business combinations are measured at fair value at the acquisition date. Depreciation is recognized according to plan based on the estimated economic lives of the individual assets and accounted for in accordance with the straight-line method. The assets' residual useful lives are reviewed, and adjusted if appropriate, at each reporting date. Assets procured under finance lease agreements are capitalized as property, plant and equipment and depreciated during the estimated useful lives.

The group applies the following useful lives:

	Years
Buildings and structures	25–40
Data processing equipment ¹⁾	1–5
Other machinery and equipment	5
Other tangible assets	5

¹⁾ Purchases of personal computers are expensed immediately.

Leases

Group as a lessee

Lease agreements are classified as finance or operating leases. Assets procured under finance lease agreements are capitalized at the commencement of the lease term and depreciated during the estimated useful lives. The annual rents are disclosed as amortization of the finance lease liability and interest expenses.

Leases in which a significant portion of the risks and rewards of ownership is retained by the lessor are classified as operating leases. Payments made under operating leases are recognized to the income statement on a straight-line basis over the lease period.

Group as a lessor

If an arrangement conveys a right to use a specific asset to a purchaser, often together with related services, the assets, mainly technical equipment, are classified as embedded finance leases. Sales derived from these embedded finance leases are recognized at the beginning of the agreement period. The annual payments are disclosed as amortization of the finance lease loan receivable and interest income.



Financial instruments

Application of IFRS 9 as of 1 January 2018, resulted in the following changes in Financial Instruments measurement categories:

	Measureme		Carrying	amount,	EUR million	
	Original (IAS 39)	New (IFRS 9)	Original	New	Difference ²⁾	
Non-current financial assets						
Other shares and securities	Available					
owned by the Parent company	for sale	FVPL ¹⁾	0.5	0.5	0.0	
Finance lease receivables	Amortized cost	Amortized cost	0.8	0.8	0.0	
Other interest-bearing receivables	Amortized cost	Amortized cost	0.4	0.4	0.0	
Current financial assets						
Trade receivables	Amortized cost	Amortized cost	308.9	308.0	0.9	
		FVPL ^{1) 3)}	0.0	0.4	-0.4	
Cash and cash equivalents ⁴⁾	Amortized cost	Amortized cost	78.2	78.2	0.0	
Derivatives ⁵⁾	FVPL ¹⁾	FVPL ¹⁾	1.8	1.8	0.0	
Finance lease receivables	Amortized cost	Amortized cost	2.0	2.0	0.0	
Non-current financial liabilities						
Finance lease liabilities	Amortized cost	Amortized cost	1.7	1.7	0.0	
Bonds	Amortized cost	Amortized cost	99.8	99.8	0.0	
Other interest-bearing loans	Amortized cost	Amortized cost	1.0	1.0	0.0	
Other interest-bearing liabilities	Amortized cost	Amortized cost	3.8	3.8	0.0	
Current financial liabilities						
Derivatives	FVPL ¹⁾	FVPL ¹⁾	0.9	0.9	0.0	
Trade payables	Amortized cost	Amortized cost	104.2	104.2	0.0	
Accrued interest	Amortized cost	Amortized cost	1.8	1.8	0.0	
Finance lease liability	Amortized cost	Amortized cost	0.8	0.8	0.0	
Cash Pool liabilities towards Joint Ventures	Amortized cost	Amortized cost	16.4	16.4	0.0	
Loans	Amortized cost	Amortized cost	117.4	117.4	0.0	

The classification of Financial assets depends on the business model for managing the financial assets and contractual cash flows.

Recognition, de-recognition and measurement

Regular way purchases and sales of financial assets are accounted for at trade date, the date on which the Group commits to purchase or sell the asset, for all categories of financial assets, where entity hold them and which are not derivatives.

Financial assets are derecognized when the rights to receive cash flows from the investments have expired or have been transferred and the Group has transferred substantially all risks and rewards of ownership. Financial liabilities are derecognized when the obligation is discharged, cancelled or expired.

All financial instruments are initially recognized at fair value. Transaction costs are included in the carrying value only if the financial instrument is not recorded at fair value through profit or loss in which case transaction costs are expensed in profit or loss. Usually the fair value equals the amount received or paid.

¹⁾ FVPL = Fair Value through Profit or Loss

²⁾ The differences noted in this column are the result of applying the new expected credit loss model. The reclassifications of the financial instruments on adoption of IFRS 9 did not result in any changes to measurements.

³⁾ Trade receivables to be sold via non-recourse factoring

⁴⁾ Fixed term deposits, principally comprising of funds held with banks and other financial institutions

⁵⁾ Derivatives, comprising foreign exchange forward contracts, currency options, power derivatives and interest rate swaps.



Impairment of financial assets

Financial assets that are subject to impairment calculations include trade receivables, contract assets, finance lease receivables and cash and cash equivalents.

Regarding finance lease receivables, impairment will be evaluated on an individual case-by-case basis, at least on each reporting date. For cash and cash equivalents, the Group considers these not to be subject to impairment unless unexpected circumstances occur.

For all the other assets mentioned above, Tieto has elected to apply the simplified option permitted by IFRS 9 and always calculates lifetime expected credit losses (ECL). The Group has elected to use the practical expedient and calculate ECL based on a pre-defined provision matrix. Therefore, the Group has performed its external customer segmentation so that each customer segment would bear similar credit characteristics, based on the following criteria:

- Country Group (Finland, Sweden, Norway, Other European Union countries, Other countries)
- Industry Group (Financial Services, Public Healthcare & Welfare, Industrial Customer Services, Product Development Services)
- Balance due status (Not yet due, overdue 1–7 days, 8–30 days, 31–60 days, 61–90 days, over 90 days)

For each segment, the ECL rate (expressed as a percentage) indicates the historical average defaults identified during the past three years and also the Group's assessment of the possible impact from changes in the overall economic environment in which its customers operate. These general provisions can be increased if the customer has filed for bankruptcy but has not yet registered the fact or if there are any facts or circumstances indicating that the customer's credit risk is above industry/country average.

When calculating ECL for contract assets, the ECL rate set for "not yet due" invoices in the provision matrix is used.

Cash and cash equivalents

Cash and cash equivalents comprise cash balances and call deposits with banks and other liquid investments that are readily convertible to known amount of cash within three months and which are subject to an insignificant risk of changes in value. Bank overdrafts are included in current liabilities in the statement of financial position.

Provisions

A provision is a liability of uncertain timing or amount, which should be recognized when the entity has a present legal or constructive obligation as a result of a past event and it is more likely than not that an outflow of economic benefits will be required to settle the obligation and the amount of the obligation can be measured reliably. Provisions are measured at the present value of the expenditures expected to be required to settle the obligation using a pre-tax rate that reflects current market assessments of the time value of money and the risks specific to the obligation.

Employee benefits

Post-employment benefits

Group companies in different countries have number of different post-employment benefit plans in accordance with local requirements and practices. The majority of the plans are classified as defined contribution plans. The fixed contributions to defined contribution plans are recognized as employee benefit expenses in the period to which they relate. The Group has no further legal or constructive payment obligations once the contributions have been paid.

Other post-employment benefit plans than defined contribution plans are defined benefit plans. Typically, defined benefit plans define an amount of post-employment benefit that an employee



will receive on retirement, usually dependent on one or more factors such as age, years of service and compensation. Defined benefit plans are funded with payments to insurance companies.

For defined benefit plans the net liability recognized in the statement of financial position equals the present value of the defined benefit obligation at the closing date less the fair value of the plan assets. The present value of the defined benefit obligation is determined separately for each plan by independent actuaries using the projected unit credit method.

Current service costs, past service costs and gains or losses on settlements are recognized in employee benefit expenses. Net interest expense or income is recognized in financial items under interest expense or interest income. All remeasurements of the defined benefit liability or asset arising from experience adjustments and changes in actuarial assumptions are recognized directly in other comprehensive income.

Share-based payments

Tieto has share-based incentive plans for its key employees. The plans are accounted for as equity-settled and they include both market and non-market based vesting conditions. The plans are valued at fair value based on the market price of Tieto share at the grant date, and recognized as an employee benefit expense during the vesting period with a corresponding entry in equity.

The level of the realization of the set financial targets influences the amount in which rewards are recognized and paid. The expense determined at the grant date is based on the Group's estimate of the number of shares that will ultimately vest. The estimate is reviewed at each reporting date and the potential impact of any adjustments to the initial estimates is recognized in profit or loss and a corresponding adjustment is made to equity.

Equity, dividends and own shares

Dividends proposed by the Board of Directors are not deducted from distributable equity until approved by the Annual General Meeting of Shareholders.

When Tieto Corporation's own shares are repurchased, the amount of the consideration paid, including directly attributable costs, is recognized as a deduction in equity.

Earnings per share

Basic Earnings per share (EPS) is calculated by dividing the net profit attributable to the shareholders of the Parent company by the weighted average number of shares in issue during the year, excluding shares purchased by Tieto and held as treasury shares.

Diluted earnings per share is calculated by adjusting the weighted average number of shares outstanding during the year with the shares estimated to be delivered based on the share-based incentive plans.

Critical accounting estimates and assumptions

The preparation of the financial statements in accordance with IFRS requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and contingent liabilities at the reporting date as well as the reported amounts of revenues and expenses during the reporting period. In addition, management judgement is required in the application of accounting policies, especially when IFRS standard has alternative accounting, valuation and presentation methods. Although these estimates are based on management's best knowledge of current events and actions, actual results may differ from the estimates.



Management believes that the following accounting principles represent those matters requiring the exercise of judgement where a different opinion could result in significant changes to reported results.

Revenue recognition

Recognition of revenue for fixed-priced projects requires an estimation of the revenues, costs and progress towards completion for which the actuals may differ from the estimates. The estimates are revised if circumstances change. Any resulting changes to revenues or costs are recognized in profit or loss in the period in which the change become known by the management.

For contracts where the total transaction price is not known when the contract is initiated, the retrospective discounts are estimated based on management's experiences of the earlier purchases of the customers under similar contracts. This estimation is regularly updated during the contract period. Revenue is only recognized to the extent that it is highly probable that a significant reversal in the amount of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is subsequently resolved.

The Group typically provides the customers with wide variety of comprehensive services. The individual service delivery contracts are often structured under a common frame contract where general terms for the service delivery to the customer are defined. The content of the delivery, performance obligations and usually also pricing, are defined in the service delivery contracts. Management judgement is used to identify what is the entirety of which revenue is recognized; either an individual service delivery contract or a group of combined contracts.

Material costs of set-up activities related to transition projects in the initial phase of continuous operating service contracts are capitalized. Management judgement has been used when developing an internal guidance on what kind of tasks are defined as set-up activities in Tieto.

More information on revenue is disclosed in **notes 1** and **2**.

Valuation of assets acquired and liabilities assumed in business combinations

Assets acquired and liabilities assumed in business combinations are recognized at fair value. The valuation requires management to determine the appropriate valuation techniques and inputs for fair value measurements, such as discount rate. The management believes that the used estimates and assumptions are sufficiently reasonable for determining fair values. Information about the valuation of the assets acquired and liabilities assumed in business combinations are disclosed in **note 25**.

Valuation of goodwill

Goodwill is tested for impairment at least annually. Determining whether goodwill is impaired requires an estimation of the value-in-use of the cash-generating units to which goodwill has been allocated. The value-in-use calculation requires management to estimate the future cash flows expected to arise from the cash-generating units and an appropriate discount rate to calculate present value. Details of the impairment testing and the key assumptions used are explained further in **note 26**.

Capitalized development costs

Management judgement is required when the Group capitalizes costs of internally generated intangible assets. The most critical judgment areas relate to the fulfilment of the criteria when development costs can be capitalized, the estimation of future economic benefits that are expected from the intangible asset and the depreciation period of the intangible asset. Capitalized development costs are disclosed in **note 11**.

Provisions

Provisions require management to assess the best estimate of the future costs needed to settle the present obligation at the reporting date. The actual costs may differ from the estimated costs. The most significant provisions relate to restructurings for which more information is disclosed in **note 17**.



Deferred taxes

The group operates globally and is, therefore subject to changing tax laws in multiple jurisdictions. The interpretation of tax legislation requires management judgment, and the applied interpretations may include uncertainties. At each reporting date, the management assesses the amount of probable future taxable profits against which unused tax losses can be utilized. As the actual profits may differ from the forecasts, the change will affect the taxes in future periods. More information on taxes is disclosed in **note 10**.

Employee benefits

The present value of pension obligations is based on actuarial calculations in which several financial and demographic assumptions are used. Any change in these assumptions will impact the carrying amount of pension obligations. The assumptions used are disclosed in **note 9**.

At each reporting date, the number of shares that are expected to vest from the Group's share-based incentive plans is revised. As part of this evaluation, the changes in the forecasted performance of the Group, the expected turnover of the personnel participating in the plans and other information impacting the number of shares to vest, is taken into consideration. More information on the share-based payment plans is disclosed in **note 8**.

Valuation of accounts receivables

The Group estimates the impairment losses on accounts receivables based on expected credit losses. For this purpose, the external customers have been segmented based on customer location and industry so that each customer segment would bear similar credit characteristics. The calculation of expected credit losses rate (expressed as a percentage) requires management judgment as the Group will take into consideration historical average defaults identified during the past 3 years, and these rates are then being adjusted by Group's assessment of overall market situation in each customer country group. More information on expected credit losses is disclosed in **note 20**.



PERFORMANCE OF THE YEAR

1. Segment information

Tieto's operating model comprises of industry groups and service lines, the service lines forming the reportable operating segments according to IFRS. The service lines are: Techonology Services and Modernization, Business Consulting and Implementation, Industry Solutions (together "IT services") and Product Development Services. In 2018, Tieto implemented internal business transfers that help the Company capture consulting-driven market opportunities as well as further drive customer value. As from 1 April 2018, business transfers from Technology Services and Modernization to Business Consulting and Implementation include enterprise application-related business for cloud-born applications, integration consulting and Value Networks as a related solution. Annual sales of the transferred businesses amount to around EUR 37 million. The comparative figures have been restated.

Techonology Services and Modernization

Tieto's Technology Services and Modernization service line provides enterprises with life cycle management services of customer application and IT infrastructure, covering a wide variety of different technologies. The services include e.g. cloud and other emerging services, security services as well as software application development and management. The service line has a clear geographical focus on Finland, Sweden and Norway, and Tieto is positioned as the number one provider in Finland and among top 3 providers in Sweden. Services are delivered from both onshore locations in the Nordic countries and offshore delivery centres in the Czech Republic, India and Baltic countries.

Business Consulting and Implementation

Tieto's Business Consulting & Implementation (BCI) service line includes IT architecture consulting, customer experience management, business process and change management and transformation and system integration services. BCI focuses on building repeatable concepts for customers with predefined business practises. The segment currently focuses on Finland and Sweden, and it serves customers also in Norway, Austria, the Baltic countries and Russia. Services are delivered primarily by employees based in the Nordic countries but also through delivery centres in the Baltic countries and India. BCI service line has the largest market share in Finland.

Industry Solutions

Tieto's Industry Solutions service line is embedded in its three industry groups having their customers mainly in the Nordic countries. Tieto has industry solutions for its global customer base in the oil and gas, payments and forest sectors. As from 1 May 2018, Tieto's Financial Digital Channels business (previously part of the Industry Solutions service line), with net sales of EUR 11 million, was transferred to Business Consulting and Implementation. The comparison figures have been restated.

Product Development Services

Product Development Services provides product development services with focus on telecom, expanding to new domains such as automotive. Services are provided globally for communications infrastructure companies, consumer electronics and semiconductor companies as well as automotive industry. Global services are currently provided mainly from delivery centres in Poland, China, Sweden, Czech and Finland.

Group level costs, e.g. costs related to Global management, Group's share of support functions and other non-allocated costs are not included in the service line segments but are reported under Support Functions and Global Management in the segment reporting.



Customer sales by service line

EUR million	2018	2017	Change %
Technology Services and Modernization	740.0	735.4	1
Business Consulting and Implementation	244.6	195.9	25
Industry Solutions	478.9	486.0	-1
Product Development Services	135.8	126.1	8
Group total	1 599.5	1 543.4	4

Customer sales by industry group

EUR million	2018	2017	Change %
Financial Services	377.6	384.4	-2
Public, Healthcare and Welfare	530.8	501.7	6
Industrial and Consumer Services	554.9	531.2	4
Product Development Services	135.8	126.1	8
Group total	1 599.5	1 543.4	4

Customer sales by country

EUR million	2018	2017	Change %
Finland	692.7	675.9	2
Sweden	625.1	599.0	4
Norway	155.9	161.2	-3
Other	125.9	107.4	17
Group total	1 599.5	1 543.4	4

Tieto does not have individual significant customers as defined in IFRS 8.

Customer sales from long-term fixed-price contracts by segment

EUR million	2018
Technology Services and Modernization	4.4
Business Consulting and Implementation	3.6
Industry Solutions	19.2
Product Development Services	0.2
Group total	27.5

Comparative information not available.

Operating profit (EBIT) by service line

EUR million	2018	2017	Change %
Technology Services and Modernization	85.4	78.5	9
Business Consulting and Implementation	18.9	16.1	17
Industry Solutions	54.4	54.4	0
Product Development Services	13.9	12.0	16
Support Functions and Global Management	-18.1	-21.9	17
Operating profit (EBIT)	154.7	139.1	11

Operating margin (EBIT) by service line

%	2018	2017	Change pp
Technology Services and Modernization	11.5	10.7	1
Business Consulting and Implementation	7.7	8.2	0
Industry Solutions	11.4	11.2	0
Product Development Services	10.2	9.5	1
Operating margin (EBIT)	9.7	9.0	1



Calculation of alternative performance measures

Tieto presents certain financial measures, which, in accordance with the "Alternative Performance Measures" guidance issued by the European Securities and Markets Authority, are not accounting measures defined or specified in IFRS and are, therefore, considered alternative performance measures. Tieto believes that alternative performance measures provide meaningful supplemental information to the financial measures presented in the consolidated financial statements prepared in accordance with IFRS and increase the understanding of the profitability of Tieto's operations. Alternative performance measures are not accounting measures defined or specified in IFRS and, therefore, they are considered non-IFRS measures, which should not be viewed in isolation or as a substitute to the IFRS financial measures.

Adjusted operating profit (EBIT) by service line

EUR million	2018	2017	Change %
Technology Services and Modernization	92.4	88.6	4
Business Consulting and Implementation	18.6	16.3	14
Industry Solutions	51.1	57.7	-11
Product Development Services	14.1	12.3	14
Support Functions and Global Management	-13.4	-13.4	0
Adjusted operating profit (EBIT)	162.8	161.4	1

Adjusted operating margin (EBIT) by service line

%	2018	2017	Change pp
Technology Services and Modernization	12.5	12.1	0
Business Consulting and Implementation	7.6	8.3	-1
Industry Solutions	10.7	11.9	-1
Product Development Services	10.4	9.7	1
Adjusted operating margin (EBIT)	10.2	10.5	0

Adjusted operating profit (EBIT) = Operating profit + adjustments

Adjusted operating profit margin (EBIT), %

= Adjusted operating profit (EBIT)

Net sales

Adjustments = Restructuring costs + capital gains/losses +

goodwill impairment charges + other items affecting comparability

Reconciliation of alternative performance measures

EUR million	2018	2017
Operating profit (EBIT)	154.7	139.1
+ restructuring costs	9.3	22.7
+ premises related expenses	0.3	-
- capital gains	-4.6	-
+ capital losses	-	0.3
+/- M&A related items	1.4	-0.2
+/- other items	1.8	-0.5
Adjusted operating profit (EBIT)	162.8	161.4



Personnel by service line

	End of period				Average		
	2018	Change %	Share %	2017	2018	2017	
Technology Services and Modernization	6 123	6	40	5 757	5 973	5 792	
Business Consulting and Implementation	2 404	8	16	2 224	2 319	1 921	
Industry Solutions	4 081	4	27	3 925	4 075	3 882	
Product Development Services	1 608	5	11	1 532	1 573	1 414	
Service Lines total	14 217	6	94	13 438	13 941	13 009	
Industry Groups	345	24	2	279	340	261	
Support Functions and Global Management	628	3	4	612	626	619	
Group total	15 190	6	100	14 329	14 907	13 889	

Personnel by country

	End of period				Avera	age
	2018	Change %	Share %	2017	2018	2017
Finland	3 392	1	22	3 364	3 396	3 395
Sweden	3 106	2	20	3 036	3 078	2 733
India	2 721	6	18	2 571	2 697	2 514
Czech Republic	2 538	13	17	2 254	2 421	2 243
Latvia	671	10	4	612	638	629
Norway	607	1	4	600	601	611
Poland	662	23	4	538	632	482
China	497	8	3	460	483	387
Estonia	301	10	2	274	293	291
Austria	162	21	1	134	149	135
Lithuania	115	9	1	106	112	98
Other	418	10	3	381	407	370
Group total	15 190	6	100	14 329	14 907	13 889
Onshore countries	7 498	2	49	7 350	7 451	7 086
Offshore countries	7 692	10	51	6 979	7 456	6 803
Group total	15 190	6	100	14 329	14 907	13 889

Non-current assets by country

EUR million	31 Dec 2018	31 Dec 2017	Change %
Finland	81.4	84.6	-4
Sweden	39.7	42.8	-7
Norway	8.1	12.0	-32
Other	8.8	6.5	35
Group total	137.9	145.9	-5

Non-current assets include property, plant and equipment and intangible assets excluding goodwill.

Depreciation by service line

EUR million	2018	2017	Change %
Technology Services and Modernization	31.2	32.5	-4
Business Consulting and Implementation	0.2	0.2	-
Industry Solutions	0.8	0.9	-9
Product Development Services	0.0	0.1	-58
Support Functions and Global Management	6.9	5.7	21
Group total	39.2	39.5	-1

Amortization on intangible assets recognized at fair value from acquisitions by service line

EUR million	2018	2017	Change %
Technology Services and Modernization	-	-	-
Business Consulting and Implementation	1.6	0.5	>100
Industry Solutions	3.6	3.7	-5
Product Development Services	-	-	-
Support Functions and Global Management	-	-	-
Group total	5.2	4.3	22



Amortization on other intangible assets by service line

EUR million	2018	2017	Change %
Technology Services and Modernization	9.0	8.5	6
Business Consulting and Implementation	0.4	0.3	3
Industry Solutions	0.4	0.6	-27
Product Development Services	-	-	-
Support Functions and Global Management	0.8	1.5	-42
Group total	10.6	10.9	-3

2. Revenue

Assets and liabilities related to contracts with customers

EUR million	Note	31 Dec 2018	31 Dec 2017	1 Jan 2017
Trade receivables	13	293.9	308.9	282.4
Contract assets	13, 20	39.5	53.6	53.9
Contract liabilities	19	30.5	30.8	42.2

Revenue recognized in relation to contract liabilities

EUR million	2018	2017
Revenue recognized from the opening value of contract liabilities	25.5	29.8

Unsatisfied fixed-price long-term contracts

EUR million	2018	2017
Transaction price allocated to long-term fixed price contracts that are		
partially or fully unsatisfied on 31 Dec	35.9	1)

¹⁾ As permitted under the transitional provisions in IFRS 15, the transaction price allocated to unsatisfied performance obligations as of 31 Dec 2017 is not disclosed.

It is expected that 75% of the transaction price allocated to the long-term fixed-price contracts as of 31 Dec 2018 will be recognized as revenue during 2019 (EUR 27.0 million). The remaining 25% (EUR 8.9 million) will be recognized in 2020 or later reporting periods.

All other contracts with the customers are for periods of one year or less or are billed based on time incurred or products or services delivered. As permitted under IFRS 15, the transaction price allocated to these unsatisfied contracts is not disclosed.

Assets recognized from costs to fulfil a contract

EUR million	2018	2017
Capitalized set-up costs on 31 Dec	8.7	1.8
Amortization of capitalized set-up costs	0.6	0.6

In the statement of financial position, capitalized set-up costs of EUR 8.1 million are presented within other non-current receivables and current portion of EUR 0.6 million in trade and other receivables.



3. Other operating income

EUR million	2018	2017
Gain on sale of property, plant and equipment	0.4	0.3
Gain on sale of subsidiaries and business operations	4.6	-
Rental income	2.0	2.7
Government grants released	0.7	0.4
Foreign exchange gains on derivatives	3.7	3.7
Decrease of contingent considerations	3.8	1.8
Other	6.8	8.5
Total	22.0	17.4

4. Other operating expenses

EUR million	2018	2017
Rents, licences and maintenance related to software	61.3	61.6
Data and phone communication	11.3	11.4
ICT purchases and services	40.5	37.4
Advertising and marketing	5.8	6.6
Travelling	16.8	19.4
Training	7.4	6.0
Consulting	27.1	24.2
Fees to auditors	1.9	1.1
Premises related	68.8	70.5
Foreign exchange losses on derivatives	1.4	1.2
Other operating expenses	19.5	22.4
Total	261.8	261.8

Fees to auditors

	2018		2017
EUR million	Deloitte	PwC	PwC
Audit fees	0.3	0.8	0.8
Tax advisory	0.1	0.1	0.1
Other services	0.1	0.5	0.2
Total	0.4	1.4	1.1



5. Financial income and expenses

2018 EUR million	Interest income	Interest expenses	Foreign exchange gains and losses	Other financial income	Other financial expenses	Total
Financial assets at fair value through profit or loss	-	-	-3.4	-	-	-3.4
Financial assets at amortized cost	2.2	-	4.4	0.1	-	6.7
Financial liabilities measured at amortized cost	-	-4.3	-	-	-0.9	-5.2
Total according to IFRS 9 classification	2.2	-4.3	1.0	0.1	-0.9	-1.9
Net defined benefit obligation	-	-0.0	-	-	-	-0.0
Total	2.2	-4.3	1.0	0.1	-0.9	-1.9

2017 EUR million	Interest income	Interest expenses	Foreign exchange gains and losses	Other financial income	Other financial expenses	Total
Financial assets at fair value through profit or loss	-	-	-4.9	0.0	-	-4.9
Loans and receivables	1.5	-	4.7	-	-	6.2
Available for sale financial assets	-	-	-	-	-0.1	-0.1
Financial liabilities measured at amortized cost	-	-3.6	-	-	-1.0	-4.6
Total according to IAS 39 classification	1.5	-3.6	-0.2	0.0	-1.1	-3.4
Net defined benefit obligation	-	-0.0	-	-	-	-0.0
Total	1.5	-3.6	-0.2	0.0	-1.1	-3.4

Foreign exchange gains and losses included in the operating profit were EUR 2.3 (1.5) million in 2018.

EMPLOYEE BENEFITS

6. Earnings per share

	2018	2017
Net profit for the financial year attributable to owners of the Parent company (EUR million)	123.2	107.7
Earnings per share (EUR)		
Basic	1.67	1.46
Diluted	1.66	1.46
Weighted average number of shares during the year		
Basic	73 809 855	73 722 565
Effect of dilutive share-based incentive plans	189 324	184 114
Diluted	73 999 179	73 906 679

7. Employee benefit expenses

EUR million	2018	2017
Wages and salaries	674.1	633.7
Termination benefits	-	21.9
Post-employment benefits		
Defined contribution plans	74.3	75.3
Defined benefit plans	2.7	-0.9
Other statutory social costs	126.1	119.4
Share-based payments	7.2	4.4
Other personnel expenses	20.6	19.5
Total	905.0	873.3

Management remuneration

	2018		201	7
EUR thousand	President and CEO	Leadership team	President and CEO	Leadership team
Salaries and benefits	640.9	2 427.2	603.2	2 912.3
Bonuses ¹⁾	440.2	782.5	399.4	825.2
Share-based payments	660.0	1 727.1	399.1	1 102.1
Statutory pensions	176.3	395.7	139.4	326.3
Supplementary pensions	138.3	376.6	138.2	732.2
Termination benefits	-	-	-	477.1
Total	2 055.7	5 709.1	1 679.3	6 375.2

¹⁾ 2018 based on estimated amount. Comparative figure updated with the actual amount paid.



The President and CEO, Kimmo Alkio is entitled to a bonus corresponding maximum of 100% of base salary based on the Group's external revenue, profit and achievement of strategic goals when achievements exceed the targets set. The annual contribution for the President and CEO's supplementary pension arrangement is 23% of the annual base salary. The President and CEO's retirement age is 63. In case his assingment is terminated, the period of notice is 12 months and the severance payment is equivalent to 12–18 months' salary. The President and CEO participates in the Long-term incentive programmes according to respective terms and conditions decided by the Board of Directors. In 2018, after deductions for applicable taxes, a total of 9 950 (4 256) shares were delivered to the President and CEO.

The other Leadership team members are entitled to a bonus corresponding maximum of 75% of base salary based on their individual goals when achievements exceed the targets set. The annual contribution for the Leadership team members' supplementary pension arrangement is 15% and 23% (for one member) of the annual base salary. The retirement age of the Leadership team members is according to national legislation. The period of notice for the Leadership team members varies between 6 and 12 months and the terms for the termination benefits vary. The Leadership team members participate in the Long-term incentive programmes according to respective terms and conditions decided by the Board of Directors. In 2018, after deductions for applicable taxes, a total of 25 292 (8 731) shares were delivered to the Leadership team members.

Remuneration for the Board of Directors

EUR thousand	2018	2017
Kurt Jofs (Chairman and RC Chairman)	106.2	113.4
Harri-Pekka Kaukonen (Deputy Chairman and ARC Chairman)	74.2	75.0
Timo Ahopelto	54.4	53.6
Johanna Lamminen	54.4	52.8
Sari Pajari	3.2	52.0
Endre Rangnes	51.2	56.0
Jonas Synnergren	51.2	61.6
Jonas Wiström	2.4	48.8
Liselotte Hägertz Engstam	53.6	-
Markku Pohjola	-	3.2
Lars Wollung	-	1.6
Total	450.8	518.0

Each member of the Board of Directors receives a fixed yearly remuneration and additional meeting based remuneration. According to the decision by the Annual General Meeting, the yearly remuneration is as follows: Chairman EUR 91 000, Deputy Chairman EUR 55 000, ordinary member EUR 36 000 and Committee Chairman EUR 55 000 (if not the Chairman or the Deputy Chairman). The yearly remuneration is compensated in cash (60%) and in shares (40%). The meeting based remuneration is EUR 800 for each Board meeting and for each permanent or temporary Committee meeting.



8. Share-based incentive plans

The aim of Tieto's share-based incentive plans is to align the objectives of shareholders and key employees in order to increase the value of the company in the long-term. In 2018, Tieto's share-based incentive plans included Performance Share Plans 2016–2018, 2017–2019 and 2018–2020 as well as Restricted Share Plans 2016–2018, 2017–2019 and 2018–2020. The rewards from the plans will be paid partly in the company's shares and partly in cash. The cash proportion is intended to cover taxes and tax-related costs arising from the reward. As a rule, no reward will be paid, if a participant's employment or service ends before the reward payment. The Board of Directors anticipates that share rewards to be delivered to the participants under the plans will consist of shares to be acquired from the market. Thus, no new shares will be issued in connection with the plans.

The Performance Share Plan 2015–2017 and the Restricted Share Plan 2015–2017 ended in 2018. Based on the achievements of the targets a total of 220 085 gross shares were earned and of these 103 224 net shares were delivered to the participants. Tieto used its treasury shares for the reward payments.

At the end of the period it is estimated that EUR 9.2 million future cash payment will be paid to the tax authorities from share-based payments.



Main terms and conditions of the share-based incentive plans

	Performance Share Plan			
	2016–2018	2017–2019	2018–2020	
Plan launched	3 Feb, 2016	2 Feb, 2017	22 Feb, 2018	
Performance Period	2016–2018	2017–2019	2018–2020	
Vesting conditions	Total Shareholder Return of Tieto share (TSR), strategic target related to Tieto's growth and Tieto's Earnings per Share (EPS). Valid employment or director agreement of a key employee upon the reward payment.			
Exercised	In shares and cash in 2019	In shares and cash in 2020	In shares and cash in 2021	
Number of participants on 31 Dec 2018	105	146	139	
Other	On 31 Dec 2018, rewards to be paid correspond to the value of approximate number of 337 900 Tieto gross shares.	On 31 Dec 2018, rewards to be paid correspond to the value of approximate number of 392 350 Tieto gross shares.	On 31 Dec 2018, rewards to be paid correspond to the value of approximate number of 392 712 Tieto gross shares.	

	Restricted Share Plan			
	2016–2018	2017–2019	2018–2020	
Plan launched	3 Feb, 2016	2 Feb, 2017	22 Feb, 2018	
Vesting period	2016–2018	2017–2019	2018–2020	
Vesting conditions	Valid employment or director agreement of a key employee upon the reward payment.			
Exercised	In shares and cash in 2019	In shares and cash in 2020	In shares and cash in 2021	
Number of participants on 31 Dec 2018	61	65	171	
Other	On 31 Dec 2018, rewards to be paid correspond to the value of approximate number of 31 800 Tieto gross shares.	On 31 Dec 2018, rewards to be paid correspond to the value of approximate number of 40 700 Tieto gross shares.	On 31 Dec 2018, rewards to be paid correspond to the value of approximate number of 71 525 Tieto gross shares.	



Assumptions made in determining the fair value of the Share-based incentive plans

For Performance Share Plans and Restricted share plans the fair value has been determined at grant using the fair value of Tieto Corporation share as of the grant date, expected outcome and expected dividends.

The fair value of social costs settled in cash are remeasured at each reporting date until settlement.

For share plan grants made in 2018, the fair value has been determined at grant date using the following share price and expected dividends:

Share price at grant: EUR 29.06Expected dividends: EUR 4.42

• Share price at year end: EUR 23.58

Share-based payments included in employee benefit expenses

EUR million	2018	2017
Equity-settled share-based incentive plans	6.3	1.9
Cash-settled share-based incentive plans ¹⁾	0.9	2.5
Total	7.2	4.4

¹⁾ Tieto's share-based incentive plans are accounted for as equity-settled from 1 Jan 2018 onwards. Social costs from the plans are reported as cash-settled.

9. Pension plans

Tieto manages Defined benefit plans through insurance companies. The employer has guaranteed to the members of the plans a certain level of benefit after their retirement, which depends on the length of service and salary base. The salary base is an average of last years' salaries indexed with common salary index. After the retirement, the benefit payable is indexed yearly.

In Sweden, the Group's risk is only on active employees, but in Finland the Group's risk covers also around 1 000 non-active employees. When the pensioner who has a vested pension, retires, the final amount of the pension is revised in the Finnish pension plan and as a result, the employer may incur additional costs. In addition, in the Finnish pension plan, the index increases that are borne by the employer during the period between the grant date of the vested pension and the beginning of the pension are charged only in the year when the pension is granted. In some insurance contracts, under certain conditions, the insured person has the right to retire earlier than at the normal retirement age. These additional expenses are charged on the beginning of the retirement.

In Finland, the plan covers 6 active employees and it is closed for future pension accruals. The active employees have been able to transfer their defined benefit pension to a defined contribution plan from 1 Jan 2017, and some have chosen this option. As a result, a settlement gain of EUR 2.4 million was recognized in 2017 personnel expenses and the net defined benefit liability decreased by the corresponding amount.



In Sweden, the plan covers approximately 110 active employees. As the Group does not have actuarial or investment risk for those plan members whose employment has ceased, the plan members are removed from the pension plan and a settlement is recognized annually. In 2018, a settlement loss of EUR 1.7 million was recognized in personnel expenses and the net defined benefit liability increased by the corresponding amount.

Defined benefit cost recognized in income statement and in other comprehensive income

EUR million	2018	2017
Service cost		
Current service cost	1.0	1.2
Settlements	1.7	-2.1
Net interest	-0.0	-0.0
Total	2.7	-0.9
Amounts recognized in other comprehensive income		
Remeasurement		
Gains (-)/losses (+) from change in demographic assumptions	-1.3	0.0
Gains (-)/losses (+) from change in, financial assumptions	-0.4	7.6
Gains (-)/losses (+) from experience adjustments	-0.6	0.2
Gains (-)/losses (+) on plan assets	2.9	-4.7
Total	0.6	3.1

Amounts recognized in the statement of financial position

	Present value of defined benefit obligaton ¹⁾		Fair value of plan assets ²⁾		Net liability	
EUR million	2018	2017	2018	2017	2018	2017
1 Jan	88.6	93.7	-84.1	-87.3	4.5	6.4
Current service cost	1.0	1.2	-	-	1.0	1.2
Interest expense/income	1.6	2.0	-1.5	-1.9	0.0	0.0
Contribution	-	-	-3.6	-4.3	-3.6	-4.3
Benefits paid	-2.2	-2.6	2.2	2.6	0.0	0.0
Curtailment and settlement	-4.4	-12.3	6.2	10.2	1.7	-2.1
Actuarial gains/losses	-2.3	7.8	2.9	-4.7	0.6	3.1
Exchange rate difference	-1.5	-1.2	1.8	1.3	0.3	0.1
31 Dec	80.7	88.6	-76.3	-84.1	4.4	4.5

 $^{^{1)}}$ Of which EUR 43.8 (50.5) million in Finland and EUR 36.9 (38.1) million in Sweden.

 $^{^{\}rm 2)}$ Of which EUR 33.9 million (38.7) in Finland and EUR 42.4 million (45.4) in Sweden.

EUR million	2018	2017
Defined benefit obligations	9.9	11.9
Defined benefit plan assets	-5.5	-7.4
Net liability	4.4	4.5



Allocation of plan assets

	2018		201	17
	EUR million	%	EUR million	%
In Sweden, plan assets are comprised as follows				
Equity instruments	13.6	32.0	16.9	37.2
Debt instruments	19.5	46.1	18.6	40.9
Property	4.5	10.7	5.1	11.3
Other	4.7	11.2	4.8	10.6
Total	42.4	100.0	45.4	100.0

In Finland, the plan assets are accrued from the insurance premiums paid to the insurance company and accumulated up to the reporting date. The assets are part of the insurance company's investment assets and they are responsible for reporting the assets. A specification of the plan assets is not available.

Actuarial assumption

%	2018	2017
Finland		
Discount rate	1.8	1.4
Future salary increases	3.3	3.4
Future pension increases	1.9	2.0
Inflation rate	1.6	1.7
Sweden		
Discount rate	2.3	2.4
Future salary increases	3.4	3.3
Future pension increases	1.9	1.8
Inflation rate	1.9	1.8

Sensitivity analysis of actuarial assumptions

The following table shows how possible change in one assumption, holding other assumptions constant, affect the defined benefit obligation.

	Change in assumption	Increase in assumption	Decrease in assumption
Impact on defined benefit obligation in Finland			
Discount rate	0.5%	-6.6%	7.4%
Future pension increase	0.5%	6.8%	-6.2%
Life expectancy	+1 year	5.4%	
Impact on defined benefit obligation in Sweden			
Discount rate	0.5%	-11.0%	12.4%
Future salary increase	0.5%	3.5%	-3.5%
Future pension increase	0.5%	12.3%	-11.1%
Life expectancy	+1 year	5.1%	



Maturity profile of the defined benefit obligation

The weighted average duration of the defined benefit obligation is 14 years in Finland and 18 years in Sweden.

The following table shows the maturity profile of the future benefit payments which are the basis for the calculated undiscounted defined benefit obligation.

EUR million	2018
Maturity under 1 year	2.2
Maturity 1–5 years	10.0
Maturity 5–10 years	15.0
Maturity 10–30 years	57.6
Maturity over 30 years	12.2
	97.0

Expected contributions in 2019

Expected contributions to post-employment benefit plans for the year ending 31 Dec 2019 are EUR 3.8 million.

Multi-employer plans

The ITP pension plans operated by Alecta and Collectum in Sweden are multi-employer defined benefit pension plans which pool the assets contributed by various entities that are not under common control and the assets provide benefits to employees of more than one entity. It has not been possible to get sufficient information for the calculation of obligations and assets by employer from Alecta and Collectum and, therefore, these plans have been accounted for as defined contribution plans in the consolidated financial statements. In Tieto 2 522 employees are included in these pension plans. The yearly contribution to the plans are around EUR 13 million.

INCOME TAXES

10. Income taxes

Income tax expense in income statement

EUR million	2018	2017
Current taxes	26.9	22.4
Change of deferred taxes	3.1	6.5
Taxes for prior years	-0.4	-0.9
Total	29.6	28.0
Reconciliation of income tax expense		
Profit before taxes	152.8	135.7
Tax calculated at the domestic corporation tax rate of 20%	30.6	27.1
Effect of different tax rates in foreign subsidiaries	0.3	1.5
Taxes for prior years	-0.4	-0.9
Income not subject to tax due to tax exemption	-0.9	-0.9
Expenses not deductible for tax purposes	2.0	1.7
Realisability of deferred tax assets	-2.7	-0.4
Deferred tax resulting from change in tax rate	-1.3	0.4
Tax on foreign dividend distribution	2.7	1.0
Share of joint ventures' results reported net of tax	-1.2	-0.6
Other items	0.5	-0.9
Total	29.6	28.0
Effective tax rate, %	19.4	20.6

Deferred tax assets and deferred tax liabilities

EUR million	31 Dec 2018	31 Dec 2017
Deferred tax assets	23.6	25.7
Deferred tax liabilities	38.0	38.5
Net deferred tax liability	-14.4	-12.8

Majority of the deferred tax assets and liabilities are expected to be recovered after more than 12 months.



Movements in deferred tax assets and liabilities during the year

		Charged to	Charged to other	Acquisitions and		
EUR million	1 Jan 2018	income statement	comprehensive income	disposals	Other changes	31 Dec 2018
Deferred tax asset						
Restructuring costs	1.0	-0.2	-	-	-	0.8
Other provisions	1.9	-0.2	-	-	0.1	1.8
Employee benefits	3.0	0.4	-0.4	-	0.1	3.1
Depreciation difference	9.6	0.1	-	-	-	9.7
Other temporary difference	3.0	0.5	-	-	-0.3	3.2
Fair value adjustments	0.1	-0.3	0.3	-	0.1	0.2
Tax losses carried forward	7.1	-2.7	-	0.5	-0.1	4.8
Total	25.7	-2.4	-0.1	0.5	-0.1	23.6
Deferred tax liability						
Depreciation difference	0.1	-	-	-	-	0.1
Intangible assets	26.5	-1.7	-	-	-0.6	24.2
Employee benefits	1.5	0.1	-0.5	-	-	1.1
Finance leases	0.1	-	-	-	-	0.1
Untaxed reserves	6.9	0.4	-	-	-0.1	7.2
Other temporary difference	3.4	1.9	-	0.2	-0.2	5.3
Total	38.5	0.7	-0.5	0.2	-0.9	38.0
Net deferred tax liability	-12.8	-3.1	0.4	0.3	0.8	-14.4

On 31 Dec 2018, the Group had deferred tax assets on recognized tax losses carried forward totalling EUR 4.8 (7.1) million of which EUR 4.7 million had no expiry date, EUR 0.1 million will expire during the years 2019–2023.

On 31 Dec 2018, the Group had deferred tax assets on operational tax losses carried forward totalling EUR 0.7 (2.3) million which were not recognized due to uncertainty of utilization.



		Charged to	Charged to other	Acquisitions and		
EUR million	1 Jan 2017	income statement	comprehensive income	disposals	Other changes	31 Dec 2017
Deferred tax asset						
Restructuring costs	1.2	-	-	-	-0.2	1.0
Other provisions	2.4	-0.5	-	-	-	1.9
Employee benefits	3.5	-0.7	0.2	-	-	3.0
Depreciation difference	10.5	-0.7	-	-	-0.2	9.6
Other temporary difference	4.0	-0.8	-	-	-0.2	3.0
Fair value adjustments	-	0.1	-	-	-	0.1
Tax losses carried forward	8.3	-1.0	-	0.3	-0.5	7.1
Total	29.9	-3.6	0.2	0.3	-1.1	25.7
Deferred tax liability						
Depreciation difference	0.1	-	-	-	-	0.1
Intangible assets	26.3	-0.9	-	1.8	-0.7	26.5
Employee benefits	1.7	0.3	-0.4	-	-0.1	1.5
Finance leases	0.4	-0.3	-	-	-	0.1
Untaxed reserves	4.1	2.9	-	-	-0.1	6.9
Other temporary difference	2.3	0.9	0.2	-	-	3.4
Total	34.9	2.9	-0.2	1.8	-0.9	38.5
Net deferred tax liability	-5.0	-6.5	0.4	-1.5	-0.2	-12.8



ASSETS

11. Intangible assets

		.				
		Software acquired	Intangible assets recognized		Advance	
EUR million	Goodwill	separately	from acquisitions	Other ¹⁾	payments	Total
Acquisition cost 1 Jan 2018	441.3	37.9	43.7	45.4	4.5	572.8
Acquisitions of subsidiaries	12.8	0.0	2.3	0.1	-	15.2
Additions	-	6.0	-	4.0	2.1	12.1
Disposals	-3.5	-2.8	-3.1	-2.0	-	-11.4
Reclassifications	-	3.2	-	-0.6	-3.7	-1.1
Translation differences	-8.0	-0.2	-0.7	-0.1	-0,0	-9.0
Acquisition cost 31 Dec 2018	442.6	44.0	42.2	46.7	3.0	578.5
Accumulated amortization						
and impairments 1 Jan 2018	-	-30.7	-14.4	-34.5	-0.9	-80.5
Acquisitions of subsidiaries	-	-0,0	-	-	-	-0.0
Disposals	-	2.1	1.5	2.0	-	5.6
Amortization	-	-7.2	-5.2	-3.4	-	-15.8
Impairments	17	-	-	-	-	0.0
Reclassifications	-	1.0	-	-0.6	-	0.4
Translation differences	-	0.2	-0.1	0.0	0.0	0.1
Accumulated amortization						
and impairments 31 Dec 2018	-	-34.6	-18.3	-36.5	-0.9	-90.3
Carrying value 1 Jan 2018	441.3	7.2	29.3	10.9	3.7	492.4
Carrying value 31 Dec 2018	442.6	9.4	23.9	10.2	2.1	488.2

¹⁾ Additions in other intangible assets include EUR 3.6 million capitalized development costs.



		Software	Intangible assets			
EUR million	Goodwill	acquired separately	recognized from acquisitions	Other	Advance payments	Total
Acquisition cost 1 Jan 2017	409.7	126.7	38.1	56.0	7.8	638.3
Acquisitions of subsidiaries	40.6	-	8.1	-	-	48.7
Additions	-	6.0	-	4.8	2.0	12.8
Disposals	-	-95.7	-0.9	-4.4	-0.5	-101.5
Reclassifications	-	1.1	-	-10.7	-4.8	-14.4
Translation differences	-9.0	-0.2	-1.6	-0.3	0.0	-11.1
Acquisition cost 31 Dec 2017	441.3	37.9	43.7	45.4	4.5	572.8
Accumulated amortization and impairments 1 Jan 2017	-	-120.8	-11.4	-42.8	-1.3	-176.3
Disposals	-	95.7	0.9	4.6	0.5	101.7
Amortization	-	-5.8	-4.3	-5.1	-	-15.2
Impairments	-	-	-	-	-	0.0
Reclassifications	-	0.0	-	8.6	0.0	8.6
Translation differences	-	0.2	0.4	0.2	0.0	0.8
Accumulated amortization and impairments 31 Dec 2017	-	-30.7	-14.4	-34.5	-0.9	-80.5
Carrying value 1 Jan 2017	409.7	5.9	26.7	13.2	6.5	462.0
Carrying value 31 Dec 2017	441.3	7.2	29.3	10.9	3.7	492.4



12. Property, plant and equipment

EUR million	Land	Buildings and structures	Machinery and equipment	Capitalized finance leases	Other tangible assets	Advance payments and work in progress	Total
Acquisition cost 1 Jan 2018	1.2	3.8	303.4	3.9	53.9	3.1	369.3
Acquisitions of subsidiaries	-	-	0.2	-	0.3	-	0.5
Additions	-	-	30.4	-	2.8	4.3	37.4
Disposals	-	-	-17.2	-	-1.8	-0.2	-19.2
Reclassifications	-	-	1.0	-	0.8	-1.2	0.6
Translation differences	-	-	-3.1	-	-0.7	-0,0	-3.8
Cost 31 Dec 2018	1.2	3.8	314.6	3.9	55.3	6.0	384.8
Accumulated amortization and impairments 1 Jan 2018	-	-1.6	-252.3	-1.6	-18.0	-1.0	-274.4
Acquisitions of subsidiaries	-	-	-0.2	-	-0.2	-	-0.4
Disposals	-	-	17.0	-	1.8	0.1	18.9
Depreciation	-	-0.1	-32.3	-0.8	-6.0	-	-39.2
Reclassifications	-	-	0.0	-	-0.4	-	-0.4
Translation differences	-	-	2.5	-	0.5	0.0	3.0
Accumulated amortization and impairments 31 Dec 2018	-	-1.7	-265.2	-2.4	-22.3	-0.9	-292.5
Carrying value 1 Jan 2018	1.2	2.2	51.1	2.4	35.9	2.1	94.9
Carrying value 31 Dec 2018	1.2	2.1	49.3	1.6	33.0	5.1	92.3



EUR million	Land	Buildings and structures	Machinery and equipment	Capitalized finance lease	Other tangible assets	Advance payments and work in progress	Total
Acquisition cost 1 Jan 2017	1.2	3.8	413.2	55.7	23.2	13.5	510.6
Acquisitions of subsidiaries	-	-	0.0	-	-	-	0.0
Additions	-	-	25.8	-	10.8	1.5	38.1
Disposals	-	-	-137.5	-51.6	-0.8	-0.3	-190.2
Reclassifications	-	-	4.2	-	21.0	-11.5	13.7
Translation differences	-	-	-2.3	-0.2	-0.3	-0.1	-2.9
Acquisition cost 31 Dec 2017	1.2	3.8	303.4	3.9	53.9	3.1	369.3
Accumulated amortization and impairments 1 Jan 2017	_	-1.5	-356.4	-50.4	-7.1	-1.3	-416.7
Disposals	-	-	137.2	49.8	0.6	0.3	187.9
Depreciation	-	-0.1	-35.1	-1.1	-3.2	-	-39.5
Reclassifications	-	-	-	-	-8.5	0.0	-8.5
Translation differences	-	-	2.0	0.2	0.2	0.0	2.4
Accumulated amortization and impairments 31 Dec 2017	-	-1.6	-252.3	-1.6	-18.0	-1.0	-274.4
Carrying value 1 Jan 2017	1.2	2.3	56.8	5.3	16.1	12.2	93.9
Carrying value 31 Dec 2017	1.2	2.2	51.1	2.4	35.9	2.1	94.9

EQUITY AND LIABILITIES

13. Non-current and current trade and other receivables

EUR million No	ote	31 Dec 2018	31 Dec 2017
Non-current			
Prepaid expenses and accrued income ¹⁾		3.7	4.2
Other ¹⁾		11.2	4.7
Total		14.9	8.9
Current			
Trade receivables at amortized cost		293.9	308.9
Trade receivables at fair value through profit or loss		0.9	0.4
Prepaid expenses and accrued income			
Contract assets		39.5	53.6
Licence fees		20.4	24.1
Rents		3.1	3.2
Social costs		1.6	1.4
Accrued interest income		0.1	0.0
Other prepaid expenses ¹⁾		14.0	14.0
Derivate receivables	22	2.6	1.8
Other ¹⁾		6.6	6.2
Total		382.9	413.6

¹⁾ Comparative figures reclassified from current to non-current assets.

14. Cash and cash equivalents

EUR million	31 Dec 2018	31 Dec 2017
Cash in hand and at bank	135.8	64.0
Short-term deposits	28.8	14.2
Total	164.6	78.2

Short-term deposits are readily convertable to a known amount of cash within 3 months' time. Cash and cash equivalents are carried at nominal value, which corresponds to their fair value.

EUR 24.8 (24.4) million of cash and bank balances relate to cash in China and India where repatriation is limited due to local regulation and consequently, the cash is not immediately available to the parent company.

15. Share capital and reserves

EUR million	Number of shares	Share capital	Share issue premiums and other reserves	Tota
1 Jan 2017	73 697 570	76.6	43.4	120.0
Shares delivered from the share-based incentive plans ¹⁾ Translation difference	25 555 -	<u>-</u>	- -0.8	3.0-
31 Dec 2017	73 723 125	76.6	42.6	119.2
Shares delivered from the share-based incentive plans ¹⁾ Translation difference	103 224	-	- -1.1	- -1.1
31 Dec 2018	73 826 349	76.6	41.5	118.1
Treasury shares ²⁾	282 903			
Total number of shares on 31 Dec 2018 ²⁾	74 109 252			

¹⁾ Shares granted from treasury shares without effect to share capital.

The company has one class of shares, and each share has one vote at the Annual General Meeting and equal rights to dividend and other distribution of assets. The company's Articles of Association includes a voting constraint at the Annual General Meeting that no-one is entitled to vote on more than one-fifth of the votes represented at the Annual General Meeting. Tieto's shares have no nominal value and their book value counter value is one euro. All issued shares have been fully paid.

Share issue premiums and other reserves include share issue premium of Parent company and statutory reserve fund of Tieto Sweden AB.

Distributable funds

On 31 Dec 2018, the distributable funds of the parent company totaled EUR 624.7 million of which retained earnings were EUR 472.3 million. The Board of Directors proposes to the Annual General Meeting in 2019 that a dividend of EUR 1.45 per share is paid for 2018 (dividend of EUR 1.40 per share paid for 2017).

²⁾ On 31 Dec 2017, the number of shares in the company's possession totalled 386 127 and the total number of shares was 74 109 252.



16. Interest-bearing loans and borrowings

EUR million	31 Dec 2018	31 Dec 2017
Non-current Non-current		
Bonds	99.2	99.8
Other loans	85.5	1.0
Finance lease liabilities	0.8	1.7
Total	185.5	102.5
Current		
Bonds	99.9	117.4
Cash Pool liabilities towards joint ventures	17.8	16.4
Finance lease liabilities	0.8	0.8
Total	118.6	134.6

The bond carries a coupon of fixed annual interest of 1.375% and will mature in Sep 2024. More information on debt structure is disclosed in **note 20**.

Liabilities arising from financing activities

EUR million	31 Dec 2017	Cash flows	Foreign exchange gains and losses	Acquisitions and disposals	Other	31 Dec 2018
EUN IIIIIIUII	31 Dec 2017	Casii ilows	and losses	and disposais	Other	31 Dec 2016
Non-current interest-bearing loans	100.8	183.4	0.0	1.0	-100.6	184.6
Current interest-bearing loans	133.8	-116.9	0.0	0.3	100.6	117.8
Finance lease liabilities	2.5	-0.8	0.0	-	-	1.7
Total	237.1	65.7	0.0	1.3	-	304.1

			Foreign exchange	Acquisitions		Derecognition		
EUR million	31 Dec 2016	Cash flows	gains and losses	and disposals	New leases	of leases	Other	31 Dec 2017
Non-current interest-bearing loans	99.6	0.2	0.0	0.8	-	-	0.2	100.8
Current interest-bearing loans	67.3	61.6	0.0	0.4	4.7	-	-0.2	133.8
Finance lease liabilities	5.5	-1.0	-	-	-	-2.0	0.0	2.5
Total	172.4	60.8	0.0	1.2	4.7	-2.0	0.0	237.1



17. Provisions

EUR million	Provisions for restructuring	Provisions for loss-making contracts	Other provisions
1 Jan 2018	7.5	1.9	3.5
Translation differences	-0.2	0.0	-0.0
Acquisitions of subsidiaries	-0.3	-	-0.0
Increases in provisions	7.1	1.4	2.8
Use of provisions	-8.4	-1.5	-0.7
Reversal of provisions	-0.2	-0.3	-1.8
31 Dec 2018	5.4	1.6	3.8
of which			
Non-current	0.5	0.0	2.9
Current	4.9	1.6	0.9
Total	5.4	1.6	3.8

Major part of the new restructuring costs in 2018 are related to efficiency programmes in Sweden.

EUR million	Provisions for restructuring	Provisions for loss-making contracts	Other provisions
1 Jan 2017	9.9	2.1	4.9
Translation differences	-0.2	-0 0	-0 0
Increases in provisions	20.2	1.5	1.6
Use of provisions	-21.3	-1.5	-1.8
Reversal of provisions	-1.1	-0.2	-1.2
31 Dec 2017	7.5	1.9	3.5
of which			
Non-current	0.4	0.0	2.2
Current	7.1	1.9	1.3
Total	7.5	1.9	3.5

18. Lease commitments

Finance leases

Finance lease receivables

EUR million	31 Dec 2018	31 Dec 2017
Amortization periods of finance lease gross receivables		
Within one year	0.9	2.1
Between one and five years	0.7	0.8
Gross investment	1.6	2.9
Unearned future finance income	0.1	0.1
Net investment	1.6	2.8
Present value of minimum lease payment receivables		
Within one year	0.9	2.0
Between one and five years	0.7	0.8
Net investment	1.6	2.8

Tieto treats certain customer dedicated IT hardware assets, normally servers, as finance lease receivables.

Finance lease liabilities

Future minimum lease payments and their present value under finance lease agreements:

EUR million	31 Dec 2018	31 Dec 2017
Finance lease future payments		
Within one year	0.9	0.9
Between one and five years	0.9	1.7
Total	1.7	2.6
Present value of future minimum lease payments		
Within one year	0.8	0.8
Between one and five years	0.8	1.7
Total	1.7	2.5
Future interest charge	0.1	0.1



FINANCIAL INSTRUMENTS - FAIR VALUES AND RISK MANAGEMENT

Tieto has finance leases for IT equipment and software. Certain leases include purchase options. Renewals are subject to separate negotiations. Interest rate of financial lease liabilities on 31 Dec 2018 was 3.7% (3.7%).

Operating leases

Operating lease agreements are typically rent agreements for premises, cars, servers and other data equipment and which do not fulfill the criteria for finance lease.

Rental expenses related to operating leases

EUR million	2018	2017
Premises rents	44.5	45.9
Other rental expenses of operating leases	13.9	11.9
Total	58.4	57.8

Future rent and other operating lease commitments are disclosed in **note 27**.

19. Trade and other payables

EUR million	Note	31 Dec 2018	31 Dec 2017
Trade payables		101.5	104.2
Contract liabilities		30.5	30.8
Accrued liabilities			
Employee-related accruals		126.0	135.9
Interest		2.2	1.8
Rent		3.0	3.8
Derivative liabilities	22	0.4	0.9
Other accrued expenses		29.8	39.6
Value added tax liabilities		31.8	30.8
Payroll tax liabilities		14.9	15.1
Total		340.1	362.9

20. Management of financial risks

The group's activities expose it to a variety of financial risks: market risk (including currency risk, interest rate risk and commodity risk), credit risk and liquidity risk. The operative management of the treasury activities of Tieto is centralized into Group Treasury. The Group Treasury is responsible for managing the Group's financial risk position and maintaining adequate liquidity. The Treasury Policy, which has been approved by the Board of Directors, defines the principles for measuring and managing liquidity risk, interest rate risk, foreign exchange risks and counterparty risk of the Group. The Treasury Policy also defines the division of responsibilities with regard to financial risk management. The Group reviews and monitors financial risks on a regular basis.

Market risk

Currency risk management TRANSACTION RISK

Currency risk means the risk that the result or economic situation of the Group changes due to changes in exchange rates. Foreign trade, Group internal transactions and liquidity management in non-euro countries generate transaction exposure to the Group. The objective of the Groups' currency risk policy is to secure profitability of operative business by managing recognized exposures while maintaining on a Group level a sufficient flexibility to adjust to changing currency markets. The Treasury Policy defines the approved hedging instruments for Tieto, and the Group's policy is to hedge all identified currency exposures within the limits defined in the Policy. The underlying exposure includes financial items such as foreign currency accounts receivables and payables of operating companies, internal funding and foreign currency bank account balances, and estimated cash flows such as firm commitments and future trade transactions.



Swedish krona, Norwegian krona, Czech koruna, Indian rupee, Polish zloty and US dollar are the largest currencies in the exposure. Russian rouble does not have a material impact on Group exposure. During 2018, Tieto used currency forward contracts and swaps to mitigate the risks. Gains and losses from foreign exchange contracts are recognized in the concolidated income statement.

Group companies must hedge all their identified currency risks with the Group Treasury unless there are legal restrictions preventing this. The benchmark for the Group's currency position is a situation where all the identified currency risks are eliminated. A deviation from this benchmark is defined as an open position. The following deviations can be made based on the total size of the Group's gross currency position (identified currency risks, excluding the hedging transactions):

- +/- 15 %: Group Treasury
- +/- 25 %: Treasury Committee
- Greater deviation: Board of Directors

The overall operational hedging ratio at the end of Dec 2018 was 99% (94%).

Identified currency transaction risk exposure and sensitivity analysis

	Financial items	Estimat- ed cash	Total foreign exchange		Transaction exposure	Foreign exchange hedge	Net effect
EUR million	exposure	flows	exposure	hedges	sensitivity ¹⁾	sensitivity ¹⁾	gain/(loss)
SEK							
31 Dec 2018	0.7	23.9	24.6	-25.1	-0.1	2.5	2.4
31 Dec 2017	-80.0	18.3	-61.7	56.0	8.0	-5.6	2.4
NOK							
31 Dec 2018	-12.3	-2.0	-14.3	14.2	1.2	-1.4	-0.2
31 Dec 2017	-13.2	6.8	-6.4	5.6	1.3	-0.6	0.8
PLN							
31 Dec 2018	-0.1	-6.9	-7.0	6.9	0.0	-0.7	-0.7
31 Dec 2017	0.1	-9.5	-9.4	9.2	0.0	-0.9	-0.9
CZK							
31 Dec 2018	-7.0	-44.4	-51.4	51.1	0.7	-5.1	-4.4
31 Dec 2017	-5.0	-34.4	-39.4	40.1	0.5	-4.0	-3.5
INR							
31 Dec 2018	-	-33.3	-33.3	33.1	-	-3.3	-3.3
31 Dec 2017	-	-22.1	-22.1	21.9	-	-2.2	-1.9
USD							
31 Dec 2018	1.7	11.6	13.3	-13.1	-0.2	-	-1.3
31 Dec 2017	0.5	-	0.5	-	-0.1	-	-0.1
Other							
31 Dec 2018	-1.8	-1.5	-3.3	1.5	0.2	-0.2	0.0
31 Dec 2017	-1.6	-2.9	-4.5	2.9	0.2	-0.3	-0.1

¹⁾ The maximum pre-tax effect (EUR million) of 10% negative change in exchange rates on the Group's foreign exchange position over the following year.



TRANSLATION RISK

According to the Treasury Policy, hedging translation exposure is subject to Board of Directors' decision. Exposure includes the acquisition price, share capital and restricted and non-restricted reserves of subsidiaries in non-euro countries, as well as the result of the period. SEK 2 967 million exposure forms the majority of the translation risk. The translation position was unhedged at the end of 2018.

Interest rate risk management

The most significant part of Group's interest rate risk arises from Group's borrowings and financial investments. The objective of interest rate risk management is to minimize the effect of interest rate fluctuations on Tieto's annual results and economic positions. Group Treasury is responsible for the monitoring and operative management of the Group's interest rate position. Interest rate position includes loans, financial investments and interest rate derivative contracts. The Treasury Policy defines the interest rate risk management principles and allowed interest rate hedging instruments for the Group. According to the Treasury Policy, 12 months is defined as a benchmark for the Group's interest rate position, in terms of weighted average time to re-pricing. At the end of 2018, most of the funding was based on fixed rate 6-year bond, issued in May 2013 and September 2018, as well as long-term loan from European Investment Bank. Consequently, the average time to re-pricing for the loans, at the end of the year was 28 months (9 months in 2017).

Group borrowings and financial investments overview

31 Dec 2018			Average rate	Rate
EUR million	Amount	Duration	%	sensitivity ²⁾
Capital markets	-199.1	3.0	2.1	0.0
Money markets	164.6	0.0	5.6	1.6
Other loans	-85.4	0.4	1.1	-0.9
Other receivables	0.5	0.1	0.4	0.0

		Average rate	Rate
Amount	Duration	%	sensitivity ²⁾
-99.8	1.4	2.9	0.0
78.2	0.0	1.2	0.8
-118.5	0.1	0.1	-1.2
0.5	1.1	0.4	0.0
	-99.8 78.2 -118.5	-99.8 1.4 78.2 0.0 -118.5 0.1	Amount Duration % -99.8 1.4 2.9 78.2 0.0 1.2 -118.5 0.1 0.1

²⁾ The maximum pre-tax effect (EUR million) of 1% rise in interest rates on the Group's net interest expenses over the following year.

Commodity risk management

Majority of power procurement has been centralized to a selected supplier and under the selected model, Group does not enter into any new power derivative agreements in its own name.

Liquidity risk management and funding

Liquidity risk management and funding principles are defined in the Treasury Policy. One of the key tasks of Group Treasury is to secure adequate funding for the Group. The Group has a committed EUR 150 million credit facility, which matures in 2021. In May 2013, the Group issued a six-year bond of EUR 100 million which is scheduled to be repaid in 2019. The Group has also overdraft facilities and a EUR 250 million commercial paper programme available to maintain flexibility in funding. Additionally, there is a EUR 50 million sale of receivables facility.

In June 2018, Group concluded with the European Investment Bank EUR 85 million financing agreement, which was drawn during November. In September, the Group issued another six-year bond of EUR 100 million.



Debt structure

			Maturity structure						
31 Dec 2018 EUR million		Amount drawn	Amount available	2019	2020	2021	2022	2023	2024–
Loans	Bond	200.0	-	100.0	-	-	-	-	100.0
	Commercial paper programme	-	250.0	-	-	-	-	-	-
	Revolving credit facility	-	150.0	-	-	-	-	-	-
	Liabilities towards joint ventures	17.8	-	17.8	-	-	-	-	-
	European Investment Bank	85.0	85.0	-	-	6.5	13.1	13.1	13.1
	Other loans	0.4	-	0.4	-	-	-	-	-
		303.3	485.0	118.3	-	6.5	13.1	13.1	113.1
	Interest payments	-	-	4.7	1.8	1.8	1.7	1.7	1.9
Trade payables	Outflow	-	-	101.5	-	-	-	-	-
Other liabilities	Financial lease liability	1.7	-	0.9	0.8	-	-	-	-
Total		305.0	485.0	225.4	2.6	8.3	14.8	14.8	115.0



Maturity structure 31 Dec 2017 Amount **Amount EUR** million available 2018 2019 2020 2021 2022 2023drawn Bond Loans 100.0 100.0 Commercial paper programme 115.0 135.0 115.0 Revolving credit facility 150.0 -Liabilities towards Joint Ventures 16.0 16.0 ----85.0 European Investment Bank --2.5 Other loans 3.6 0.9 0.2 -370.0 133.5 234.6 100.9 0.2 Interest payments 2.8 1.1 0.0 Trade payables Outflow 104.2 Other liabilities Financial lease liability 2.6 0.9 0.9 0.8 Total 237.2 370.0 241.4 102.9 1.0



Credit risk management

Credit risk is managed on Group level. Credit risk derives from financial investments, derivative contracts and customer-related risks, such as accounts receivables. Group Treasury maintains a list of approved counterparties for commercial paper investment and other financial transactions in accordance with limits set in the Treasury Policy. According to the Treasury Policy, core banks of the Group should have a minimum long-term rating of Baa3 or BBB-. The Credit Policy defines the limits for the acceptable level of customer credit risk in terms of invoicing schedules and payment terms. Customer-related credit risks are assessed based on payment history and financial strength in accordance with the Credit Policy. During the comparative year 2017, bad debt provisions were booked if the customer was late by more than 90 days. Provisions for bad debts increased by EUR 0.5 million and EUR 0.1 million of bad debts were written off in 2017.

Since 2018, the Group has applied the impairment requirements as defined in IFRS 9. The Group elected to use the simplified method of applying life-time expected credit losses for all its financial assets and Provision Matrix for its customer related impairment estimates. Default event is defined as 90 days past due or write off event due to inability of collecting the debt.

The Group has performed its external customer segmentation so that each customer segment would bear similar credit characteristics and are subject to separately defined loss rate, based on the following criteria:

- Country Group (Finland, Sweden, Norway, Other European Union countries, Other countries)
- Industry Group (Financial Services, Public Healthcare & Welfare, Industrial Customer Services, Product Development Services)
- Balance due status (Not yet due, overdue 1–7 days, 8–30 days, 31–60 days, 61–90 days, over 90 days)
- Expected credit loss rates applied during 2018 are based on historial defaults identified during years 2015–2017. The Group did not adjust the rates for any macroeconomic conditions, since no significant changes or events were identified in those economic environments, where the Group's customers operate.

In addition, the Group uses customer credit insurance, given by global credit insurer, as a collateral. Excluded from credit incurance cover are all Public Sector customers and some other selected customers. For those customer receivables which are covered by insurer, no impairment is calculated, since the Group considers that the credit risk is significantly mitigated by transferring that to the insurer. In case of default by customer under insurance, the credit insurer covers 90% of the open accounts receivables, or up to limit received from credit insurer.

The Group has a sale of receivables facility with one of its core banks. The total facility size is EUR 50 million. Such receivables are classified at fair value through profit or loss and, therefore, no credit losses are calculated, see **Note 13**. There are no major concentrations of credit risk in the Group, whether through exposure to individual customers, specific industry sectors and/or regions. The maximum exposure to customer related credit risk at the reporting date is the carrying value of trade receivables.



Group trade receivables maturity and expected credit losses

31 Dec 2018 EUR million	Not yet due	Overdue 1–7 days	Overdue 8–30 days	Overdue 31–60 days	Overdue 61–90 days	Overdue over 90 days	Grand Total
Gross trade receivables subject to impairment	151.2	26.3	1.3	2.0	0.8	0.9	182.4
Average expected loss rate applied	-0.1%	-0.4%	-2.5%	-4.0%	-5.1%	-22.4%	-0.4%
Collective loss allowance	-0.2	-0.1	-0.0	-0.1	-0.0	-0.2	-0.7
Individual loss allowance	-0.0	-0.0	-	-0.0	-0.0	-0.1	-0.1
Total loss allowance	-0.2	-0.2	-0.0	-0.1	-0.0	-0.3	-0.8
Trade receivables net of ECL	150.9	26.1	1.3	1.9	0.8	0.6	181.6
Trade receivables covered by collateral	93.6	15.8	1.4	0.5	0.5	0.5	112.3
Total trade receivables at amortized cost	244.5	42.0	2.7	2.3	1.2	1.1	293.9

When calculating ECL for contract assets, the ECL rate set for "not yet due" invoices in the provision matrix is used, based on the same customer segmentation groups.



Net contract assets

31 Dec 2018 EUR million	Not yet due
Contract assets	39.6
Average ECL applied	-0.3%
Collective loss allowance	-0.1
Net contract assets	39.5

The following table shows the movement in lifetime ECL that has been recognised for trade and other receivables.

	Trade receivables		Contract assets	
EUR million	2018	2017	2018	2017
1 Jan	1.9	1.5	-	-
Amounts restated through retained earnings	0.4	-	0.1	-
1 Jan, adjusted	2.3	1.5	0.1	-
Impairment losses recognized	5.2	0.5	-	-
Amounts written off this year as uncollectable	-	-0.1	-	-
Impairment losses reversed	-6.6	-	-	-
Amount recovered during the year	-0.1	-	-	-
31 Dec	0.8	1.9	0.1	-

Impairment losses recognized on trade receivables and contract assets are included in other operating expenses in the income statement.

Capital management

The objective is to keep the capital structure on a level securing adequate financial flexibility for the operations. The capital structure of the Group is being continuously monitored through Net debt/EBITDA ratio. The ratio is calculated by dividing interest-bearing net debt with the average 12 months' EBITDA (excluding capital gains) of the Group.

	31 Dec 2018	31 Dec 2017
Net debt	137.4	155.7
12 months EBITDA (excluding capital gains)	208.0	193.8
Net debt/EBITDA (excluding capital gains)	0.7	0.8

Net debt/EBITDA ratio (excluding capital gains, but including advances received) is a covenant for Revolving credit facility. Tieto Group is within limits for this covenant as at the reporting date and comparative period.

Offsetting financial assets and liabilities

Agreements with derivatives' counterparties are based on ISDA Master Agreements or on agreements with similar content with regards to offsetting financial assets and liabilities. Based on the terms of these agreements, offsetting is possible only under certain circumstances, such as, default of either of parties or other force majeure events. If any of those occur, then the net position owing/receivable to a single counterparty will be taken as owing.



Derivative financial assets and liabilities

				Related amount the statement of f		
31 Dec 2018 EUR million	Gross amounts of recognized financial instruments in statement of financial position	Gross amounts set off in the statement of financial position	Net amounts of financial instruments recognized	Financial Instruments	Cash collateral received	Net amount
Derivative financial assets	2.6	-	2.6	-0.3	-	2.3
Derivative financial liabilities	-0.4	-	-0.4	0.3	-	-0.1
31 Dec 2017 EUR million						
Derivative financial assets	1.8	-	1.8	-0.5	-	1.3
Derivative financial liabilities	-0.9	-	-0.9	0.5	-	-0.4



21. Financial assets and liabilities - carrying amount and fair value and fair value hierarchy

Financial assets

	31 Dec 2018		31 Dec 2		
	Carrying	Fair	Carrying	Fair	Fair value
EUR million	amounts	values	amounts	values	hierarchy
Financial assets at fair value					
through profit or loss					
Trade receivables at fair value					
through profit or loss1)	0.9	0.9	0.4	0.4	Level 2
Current derivative receivables	2.6	2.6	1.8	1.8	Level 2
Other financial assets at fair value					
through profit or loss	0.5	0.5	0.5	0.5	Level 3
Financial assets at amortized cost					
Non-current					
Loan receivables, interest-bearing	1.1	1.1	1.2	1.2	Level 2
Current					
Loan receivables, interest-bearing	0.9	0.9	2.0	2.0	Level 2
Trade receivables	293.9	293.9	308.9	308.9	Level 2
Accrued interest income	0.1	0.1	0.0	0.0	Level 2
Cash and cash equivalents	164.6	164.6	78.2	78.2	Level 2
Total	464.8	464.8	393.1	393.1	

Financial liabilities

	31 Dec 2018		31 Dec	2017		
EUR million	Carrying amounts	Fair values	Carrying amounts	Fair values	Fair value hierarchy	
Financial liabilities at fair value through profit or loss						
Current derivative liabilities	0.4	0.4	0.9	0.9	Level 2	
Financial liabilities measured at amortized cost						
Non-current						
Finance lease liability	0.8	0.8	1.7	1.7	Level 2	
Loans ²⁾	184.6	201.3	100.8	103.7	Level 2	
Other	2.8	2.8	3.8	3.8	Level 2	
Current						
Trade payables	101.5	101.5	104.2	104.2	Level 2	
Accrued interest	2.2	2.2	1.8	1.8	Level 2	
Finance lease liability	0.8	0.8	0.8	0.8	Level 2	
Loans	117.8	117.8	133.8	133.8	Level 2	
Total	411.0	427.6	347.8	350.6		

Foreign exchange derivatives' fair values are calculated according to foreign exchange and interest rates on the closing date.

Loans and receivables and financial liabilities are held at amortized cost using the effective interest rate method. Their carrying amounts are considered to approximate their fair value except for:

¹⁾ Trade receivables sold under non-recourse factoring agreements (EUR 0.9 million on 31 Dec 2018) are classified as Financial assets at fair value through profit or loss and presented separately from other trade receivables. Group estimates that the carrying amout approximates the fair value due to their short-term nature.

²⁾ Fixed rate bond where carrying amount has not been adjusted to match the fair value. Fair value of the bond has been calculated based on the prevailing market rate at the end of the reporting period.



GROUP STRUCTURE AND GOODWILL

Tieto 2018

22. Derivatives

Nominal amounts of derivatives

Includes the gross amount of all nominal values for contracts that have not yet been settled or closed. The amount of nominal value outstanding is not necessarily a measure or indication of market risk, as the exposure of certain contracts may be offset by other contracts.

EUR million	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	170.0	179.6
Electricity price futures contracts	-	0.9

Fair values of derivatives

The net fair values of derivative financial instruments at the reporting date	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	2.2	0.8
Electricity price futures contracts	-	0.1

Derivatives are used for economic purposes only.

Gross positive fair values of derivatives	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	2.6	1.7
Electricity price futures contracts	-	0.1

Gross negative fair values of derivatives	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	-0.4	-0.9
Electricity price futures contracts	-	0,0

Foreign exchange derivatives' fair values are calculated according to foreign exchange and interest rates on the closing date.

23. Subsidiaries

Subsidiary shares owned by the Parent company

Company name	Domicile	Parent company's holding %	31 Dec 2018 Book value in the Parent company EUR million
Tieto Austria GmbH	Austria	100.0	0.8
Tieto (Beijing) Technology Co., Ltd.	China	100.0	0.4
Tieto Canada Inc.	Canada	100.0	1.0
Tieto China Co., Ltd.	China	100.0	4.3
Tieto Czech s.r.o.	Czech Republic	100.0	8.0
Tieto Czech Support Services s.r.o.	Czech Republic	100.0	0.0
Tieto Denmark A/S	Denmark	100.0	5.3
Tieto DK A/S	Denmark	100.0	1.6
Tieto Estonia AS	Estonia	100.0	3.3
Tieto Finland Oy	Finland	100.0	137.2
Tieto Finland Support Services Oy	Finland	100.0	1.6
Tieto Germany GmbH	Germany	100.0	0.5
Tieto Global Oy	Finland	100.0	1.1
Tieto Great Britain Ltd.	Great-Britain	100.0	0.5
Tieto Latvia SIA	Latvia	100.0	10.3
Tieto Lietuva UAB	Lithuania	100.0	2.6
Tieto Netherlands Holding B.V.	Netherlands	100.0	24.5
Tieto Norway AS	Norway	100.0	172.5
Tieto Poland Sp. z o.o	Poland	100.0	3.3
Tieto Sdn Bhd	Malaysia	100.0	0.2
Tieto Singapore Pte. Ltd.	Singapore	100.0	0.3
Tieto Support Services Sp. z o.o.	Poland	100.0	0.4
Tieto Sweden AB	Sweden	100.0	549.3
TietoEnator Inc.	The United States	100.0	8.0
Total			937.0



Shares in Group companies owned by subsidiaries

Company name	Domicile	Group holding	31 Dec 2018 Book value in the Parent company EUR million
Company name Avega Affero AB	Sweden	100.0	0.2
	Sweden	100.0	0.5
Avega Agila AB	Sweden	100.0	
Avega Aqilo AB	Sweden	100.0	0.1
Avega Catalyst AB		90.2	
Avega Complius AB	Sweden		0.0
Avega Dinamiko AB	Sweden	90.1	0.0
Avega Effectus AB	Sweden Sweden	100.0	0.9
Avega Group AB		100.0	45.9
Avega Kipeo AB	Sweden	100.0	1.6
Avega Kite AB	Sweden	100.0	0.0
Avega Miundo AB	Sweden	100.0	0.0
Avega Mtoni AB	Sweden	90.2	0.0
Avega Nuvem AB	Sweden	90.2	0.0
Avega Primero AB	Sweden	100.0	0.1
Avega Proferio AB	Sweden	100.0	0.9
Avega Qurio AB	Sweden	98.2	2.8
Avega Scire AB	Sweden	100.0	0.2
Avega Senso AB	Sweden	100.0	0.0
Emric AB	Sweden	100.0	34.9
Emric d.o.o. Beograd	Serbia	100.0	0.0
Emric Operations AB	Sweden	100.0	0.4
Meridium AB	Sweden	100.0	6.8
Petrostreamz Software e Serviços de Consultoria em Oil & Gas Ltda	Brazil	100.0	0.0
PT Emric Asia	Indonesia	100.0	0.0
Tieto India Pvt. Ltd.	India	100.0	80.8
Tieto Netherlands B.V.	Netherlands	100.0	2.9
Tieto Rus OOO	Russia	100.0	2.3
Tieto Sweden Support Services AB	Sweden	100.0	0.0
Tieto U.S. Inc.	The United States	100.0	1.0
Total			182.7

All subsidiary undertakings are included in the consolidation. In India, the official reporting period is 1.4.–31.3. according to the Indian legislation.

Tieto Great Britain Ltd. is exempt from the requirements of the Companies Act relating to the audit by virtue of section 479A of the Companies Act. The parent company Tieto Oyj has given a parent undertaking guarantee for all the outstanding liabilities of Tieto Great Britain Ltd at the end of the financial year 2018.



24. Interests in joint ventures

Tieto has established the following joint ventures in order to be able to produce high quality IT services required by the customer. All joint ventures are located in Finland.

Joint ventures

	Number o	of shares	Parent co	ompany´s 'e %	Voting	right %	Carryin EUR n	•
31 Dec	2018	2017	2018	2017	2018	2017	2018	2017
Tieto Esy Oy	7 300	7 300	80.0	80.0	34.0	34.0	5.5	4.9
Tietollmarinen Oy	3 570	3 570	70.0	70.0	30.0	30.0	3.0	2.5
Tietokarhu Oy	8 000	8 000	80.0	80.0	20.0	20.0	7.5	8.9
							16.0	16.3

Reconciliation to carrying value

EUR million	2018	2017
Acquisition cost, 1 Jan	3.7	3.7
Acquisition cost, 31 Dec	3.7	3.7
Equity adjustments, 1 Jan	12.6	12.8
Share of results	5.8	3.2
Dividends received	-3.2	-3.5
Impairment	-2.9	-
Equity adjustments, 31 Dec	12.3	12.6
Carrying value, 31 Dec	16.0	16.3

Equity adjustments include Group level goodwill of EUR 7.4 (10.3) million.

Financial and personnel information of Joint ventures

31 Dec 2018			
EUR million	Tieto Esy Oy	Tietollmarinen Oy	Tietokarhu Oy
Non-current assets	0.0	0.2	0.1
Current assets	4.9	2.1	16.2
Total	4.9	2.3	16.2
Non-current liabilities	0.1	0.1	1.0
Current liabilities	1.1	0.9	9.4
Total	1.1	1.0	10.3
Net sales	6.1	4.8	32.8
Expenses	-4.7	-4.2	-25.6
Profit before taxes	1.3	0.7	7.2
Income taxes	-0.3	-0.0	-1.6
Net profit for the financial year	1.1	0.7	5.6
Dividends paid to Tieto	0.3	-	2.9
Average full-time personnel			
during the financial year	40	25	146



31 Dec 2017			
EUR million	Tieto Esy Oy	Tietollmarinen Oy	Tietokarhu Oy
Non-current assets	0,1	0,2	0,1
Current assets	4,4	1,4	16,2
Total	4,4	1,6	16,3
Non-current liabilities	0,1	0,1	0,3
Current liabilities	1,3	0,8	12,0
Total	1,4	0,9	12,3
Net sales	6,5	4,2	29,1
Expenses	-6,1	-4,2	-24,5
Profit before taxes	0,4	0,0	4,6
Income taxes	-0,1	-0,0	-0,9
Net profit for the financial year	0,3	0,0	3,7
Dividends paid to Tieto	1,0	-	2,5
Average full-time personnel		07	470
during the financial year	50	27	172

There are no commitments or contingencies related to joint ventures.

25. Acquisitions and disposals

Acquisitions in 2018

Tieto completed the following acquisition during 2018:

- * Petrostreamz AS, ownership 100% of the shares, effective from 1 February 2018
- * NSEC AB, ownership 100% of the shares, effective from 1 May 2018
- * Meridium AB, ownership 100% of the shares, effective from 1 November 2018

Petrostreamz AS

Petrostreamz AS is a growing provider of advanced software and services for integrated asset modeling (IAM) onshore and offshore in the oil and gas industry. The acquisition further expands Tieto's portfolio of advanced solutions and capabilities in the upstream business of oil and gas industry. Petrostreamz AS is part of Industry Solutions segment.

The following table summarizes the acquisition date fair values of the consideration transferred as well as the recognized amounts of assets acquired and liabilities assumed.

Consideration

EUR million	
Paid in cash	3.4
Contingent consideration	3.7
Total	7.1



Recognized amounts of identifiable assets acquired and liabilities assumed

EUR million	
Property, plant and equipment	0.0
Intangible assets	1.3
Deferred tax assets	0.5
Trade and other receivables	0.9
Cash and cash equivalents	0.1
Loans	-1.3
Deferred tax liabilities	-0.3
Trade and other payables	-0.5
Goodwill	6.3
Total	7.1

Contingent consideration is mainly determined by the margin development of the acquired and combined business during 3-year period starting from the acquisition date.

The identified intangible assets relate to customer relationships and technology. Goodwill is attributable to market share, synergies and new competencies. It will not be deductible for tax purposes. Acquisition-related costs of EUR 0.1 million are included in other operating expenses in the income statement and in cash flow from operating activities.

Since the date of acquisition, the acquired entity has contributed approximately EUR 0.9 million to the revenue and EUR -0.9 million to the operating profit of the Group. If the business combination had taken place at the beginning of the year, the revenue for the Group would have been approximately EUR 1.0 million and profit approximately EUR -0.9 million.

NSEC AB and Meridium AB

The acquisitions of NSEC AB and Meridium AB are not individually material to the consolidated financial statements. Consequently, combined information is presented from these acquisitions.

NSEC AB was a Swedish security services company, currently merged to Tieto Sweden AB. The acquisition will further enlarge Tieto's capabilities in managed security operations, security consulting, as well as product resell and deployment services.

Meridium AB is a focused player in the customer experience area in the Swedish market with Episerver technology as its core. With the acquisition of Meridium AB, Tieto strengthens its presence in Sweden and enhances its capabilities to serve Nordic customers in developing ways to interact with their customers in the digital world.

The following table summarizes the acquisition date fair values of the consideration transferred as well as the recognized amounts of assets acquired and liabilities assumed.

Consideration

EUR million	
Paid in cash	8.1
Contingent consideration	0.7
Total	8.8



Recognized amounts of identifiable assets acquired and liabilities assumed

EUR million	
Property, plant and equipment	0.1
Intangible assets	1.0
Trade and other receivables	1.6
Cash and cash equivalents	1.6
Deferred tax liabilities	-0.4
Trade and other payables	-1.7
Goodwill	6.5
Total	8.8

Contingent consideration is mainly determined by retention of key-employees.

The identified intangible assets relate to customer relationships and technology. Goodwill is attributable to market share, synergies and new competencies. It will not be deductible for tax purposes. Acquisition-related costs of EUR 0.1 million are included in other operating expenses in the income statement and in cash flow from operating activities.

Since the date of acquisition, the acquired entities have contributed approximately EUR 2.8 million to the revenue and EUR 0.2 million to the operating profit of the Group. If the business combinations had taken place at the beginning of the year, the revenue for the Group would have been approximately EUR 9.2 million and profit approximately EUR 0.7 million.

Acquisition of non-controlling interest in subsidiaries of Avega

During 2018, Tieto increased its ownership in the Avega Group by acquiring non-controlling interests with a total amount of EUR 3.0 million.

Change in contingent consideration from acquisitions completed in 2015 and 2016

Contingent consideration related to 2015 and 2016 acquisitions and respective contingent liability decreased with EUR 3.8 million.

EUR million	
Contingent consideration on 1 Jan 2018	3.8
Change recognized in 2018	-3.8
Remaining contingent consideration	-



Disposals in 2018

Tieto disposed of the following businesses during 2018:

- * ProArc business in Norway, as of January 2018
- * Cross-advertising business in the Nordic countries, as of August 2018

ProArc

ProArc is a technical document management solution with focus mainly on oil, gas and engineering. The unit was part of Software Innovation focused on enterprise content management. Sales of the disposed business were around EUR 7 million. ProArc was part of Industry Solutions segment. The capital gain related to the disposed businesses is specified below.

EUR million	
Intangible assets	1.7
Deferred tax liabilities	-0.4
Current liabilities	-0.3
Fair value of net assets	1.0
Goodwill allocation on disposals	3.1
Total net asset allocation on disposals	4.1
Transaction costs	0.7
Received in cash	7.8
Capital gain	3.0

Transaction costs are included in the cash flow from investing activities.

Cross-advertising

Cross-advertising is an advertising order management platform. It is a cloud-based solution that provides end-to-end multi-channel advertising management, covering the whole process from sales, CRM, booking to production and invoicing. The business was part of Industry Solutions segment. The capital gain recognized on the disposal is EUR 1.6 million. The disposal is not significant and therefore no separate disclosures are presented.

26. Impairment testing of goodwill

Goodwill acquired in business combinations is allocated to cash-generating units (CGU), which are the reportable segments (service lines) of the Group. All CGUs contain goodwill that may be considered significant in comparison with the Group's total carrying amount of goodwill. Every CGU represent business operations providing services to selected customers in their market segments. During 2018, Tieto implemented internal business transfers mainly from Technology Services and Modernization and Industry Solutions to Business Consulting and Implementation. These business transfers were accompanied by relative amounts of goodwill, the most material amount of goodwill being EUR 22 million from Technology Services and Modernization to Business Consulting and Implementation. Goodwill of the Group has been allocated as follows:

Carrying amount of goodwill by CGU

EUR million	31 Dec 2018	31 Dec 2017
Technology Services and Modernization	148.2	167.4
Business Consulting and Implementation	95.4	65.9
Industry Solutions	144.8	150.1
Product Development Services	54.2	57.9
Total	442.6	441.3



Compared to 31 Dec 2017, the increase in the total goodwill is EUR 1.3 million. Goodwill increased EUR 12.8 million due to the acquisitions and decreased EUR 3.5 million due to the disposals. Remaining decrease, EUR 8.0 million, is due to currency effects.

The recoverable amounts of all CGUs are determined based on value-in-use calculations which are prepared using discounted cash flow projections. The cash flow projections covering an initial three-year period are based on financial forecasts approved by senior management and supported by industry growth forecasts obtained from external sources. The growth rates used to extrapolate the cash flows for the subsequent two-year period vary between 1% and 7%, which reflect the management's estimate of the industry's long-term average growth rate. Subsequent to the five-year projection period the growth rate used is 2%, which does not exceed the expectations of growth in real terms. Forecasted EBITDA margins are based on actual performance in prior years adjusted for expected efficiency improvements.

The discount rate applied to the cash flow projections is the weighted average pre-tax cost of capital (WACC). The discount rate is based on weighted average rates of 30-year government bond in the countries where the CGUs operate. The bond rates are adjusted for the general market risk and the business risk of the CGUs. The pre-tax discount rates for the CGUs vary between 7% and 13% (between 6% and 12%).

Assumptions used in discounting the cash flow projections by the CGUs

2018	Initial three-year period		Subseque	nt 2 years
		EBITDA		
%	Growth rate	margin	Growth rate	WACC
Technology Services and Modernization	1–2	15–16	2	6.8
Business Consulting and Implementation	6–7	10–11	3–4	6.8
Industry Solutions	4–10	13–18	4–5	7.1
Product Development Services	5–6	10	4	12.8

2017	Initial three-year period		Subseque	nt 2 years
%	Growth rate	EBITDA margin	Growth rate	WACC
Technology Services and Modernization	1	16	1	6.2
Business Consulting and Implementation	8–10	10–13	6	6.3
Industry Solutions	6–8	15–19	6–7	6.5
Product Development Services	5–7	10	3	12.0

As a result of the impairment testing, no impairment was identified. Value-in-use calculation for each CGU is most sensitive to changes in EBIT margin assumptions and interest rates. The recoverable amount in Product Development Services, EUR 127 million, is EUR 43 million above the carrying amount. The recoverable amount of CGU Product Development Services would equal its carrying amount if the invidual key assumptions were to change as follows:

Change in EBIT margin (%-units)	-3
Change in interest rates (%-units)	+5

In the other CGUs, the surplus between the recoverable amount and the carrying amount is substantial, and no likely change in the assumptions used in the impairment testing would reduce the recoverable amount being equal to the carrying amount.



OTHER INFORMATION

27. Commitments and contingencies

EUR million	31 Dec 2018	31 Dec 2017
For Tieto obligations		
Pledges ¹⁾	-	1.6
Mortgages ¹⁾	-	3.4
Guarantees ²⁾		
Performance guarantees	26.5	0.9
Lease guarantees	8.1	8.6
Other	0.8	0.5
Other Tieto obligations		
Rent commitments due in one year	39.6	41.6
Rent commitments due in 1-5 years	113.7	98.0
Rent commitments due after 5 years	8.3	17.9
Operating lease commitments due in one year	8.8	10.9
Operating lease commitments due in 1-5 years	11.6	12.0
Operating lease commitments due after 5 years	0.0	0.4
Commitments to purchase assets	5.3	7.4
Other	0.8	1.6

¹⁾ The Group has cancelled local credit facilities (EUR 1.0 million) of group ompanies that were acquired shortly before the year-end 2017. As a collateral for the facilities, companies had pledged subsidiary shares (carrying value of those shares were EUR 1.6 million) and in addition, a General Business mortgage of EUR 3.4 million.

28. Related party transactions

Related parties of Tieto include subsidiaries, joint ventures and key management of the company and their close family members. Key management includes the members of the Board of Directors, Leadership team and the President and CEO.

Sales to and purchases from related parties are made on normal market terms and conditions and at market prices. There are no commitments or contingencies on behalf of related parties.

The transactions with related parties are presented below. More information on joint ventures is disclosed in **note 24** and subsidiaries are listed in **note 23**. Information on management remuneration is disclosed in **note 7**.

Transactions and balances with joint ventures

EUR million	31 Dec 2018	31 Dec 2017
Sales	1.5	1.6
Other operating income	3.8	4.5
Purchases	4.1	3.1
Receivables	0.7	0.7
Liabilities including cash pool	18.2	16.3

For some joint ventures, Tieto Corporation has committed, together with the other owners, to contribute in proportion to its ownership, to financing arrangements that are based on approved strategy plans.

29. Events after the reporting period

There have been no events after the reporting period that would have an impact on the consolidated financial statements.

On 6 February 2019, Tieto launched a new strategy to take advantage of the rapidly developing opportunities in the data-rich world – and to continue to elevate financial performance and shareholder value.

²⁾ In addition, commitments of EUR 8.0 (8.6) million related to liabilities in the consolidated statement of financial position.



PARENT COMPANY'S FINANCIAL STATEMENTS (FAS)

Income statement

EUR	Note	2018	2017
Net sales	1	166 343 633.36	176 960 216.82
Other operating income	2	32 382 596.33	51 414 641.68
Personnel expenses	3	-16 877 285.94	-17 621 001.44
Depreciation and impairment losses	8, 9	-4 450 668.78	-4 711 944.36
Other operating expenses	4	-191 001 184.75	-205 636 356.40
Operating profit		-13 602 909.78	405 556.30
Financial income and expenses	6	90 523 243.01	63 086 108.02
Profit before appropriations and taxes		76 920 333.23	63 491 664.32
Appropriations			
Change in cumulative accelerated depreciation		49 462.49	-49 462.49
Group contribution		74 100 000.00	45 400 000.00
Profit before taxes		151 069 795.72	108 842 201.83
Income taxes	7	-11 503 353.77	-5 385 238.55
Net profit for the financial year		139 566 441.95	103 456 963.28



Balance sheet

Assets

EUR	Note	31 Dec 2018	31 Dec 2017
Non-current assets			
Intangible assets	8	8 164 547.97	9 263 664.19
Tangible assets	9	3 858 368.33	5 648 961.93
Investments	10	940 868 684.69	940 868 684.69
Total non-current assets		952 891 600.99	955 781 310.81
Current assets			
Long-term receivables			
Receivables from Group companies	11	44 546 039.77	46 285 726.27
Other receivables	11	876 313.23	212 418.03
		45 422 353.00	46 498 144.30
Current receivables			
Accounts receivables		3 130.08	398 956.87
Receivables from Group companies	12, 13	96 466 044.92	67 573 692.56
Receivables from joint ventures	12, 13	138 114.20	143 252.10
Other receivables		2 663 616.62	2 535 590.56
Prepaid expenses and accrued income	13	5 326 458.37	6 149 601.88
		104 597 364.19	76 801 093.97
Cash and cash equivalents		117 681 035.04	35 205 017.12
Total current assets		267 700 752.23	158 504 255.39
Total assets		1 220 592 353.22	1 114 285 566.20

Shareholders' equity and liabilities

EUR	Note	31 Dec 2018	31 Dec 2017
Shareholders' equity	14		
Share capital		76 555 412.00	76 555 412.00
Share issue premiums		13 791 579.51	13 791 579.51
Invested unrestricted equity reserve		12 843 921.39	12 843 921.39
Retained earnings		472 259 988.62	469 181 758.56
Net profit for the financial year		139 566 441.95	103 456 963.28
Total equity		715 017 343.47	675 829 634.74
Appropriations			
Cumulative accelerated depreciation		-	49 462.49
Provisions	15	206 715.14	609 667.48
Treviolete	10	200710.11	000 001.10
Liabilities			
Non-current liabilities			
Bonds	16	100 000 000.00	100 000 000.00
Loans	16	85 000 000.00	-
Other non-current liabilities	16	2 348.13	5 834.27
		185 002 348.13	100 005 834.27
Current liabilities	17		
Accounts payables		7 472 320.18	8 519 021.30
Liabilities to Group companies	17, 18	179 546 085.68	183 772 402.12
Liabilities to joint ventures	17, 18	17 843 192.08	16 425 726.14
Bonds	17	100 000 000.00	-
Loans		-	114 931 506.91
Other current liabilities		719 980.76	1 729 704.12
Accrued liabilities and deferred income	18	14 784 367.78	12 412 606.63
		320 365 946.48	337 790 967.22
Total liabilities		505 368 294.61	437 796 801.49
Total equity and liabilities		1 220 592 353.22	1 114 285 566.20



Statement of cash flow

EUR	2018	2017
Cash flow from operating activities		
Net profit before appropriations and taxes	76 920 333.23	63 491 664.32
Adjustments		
Depreciation, amortization and impairment losses	4 450 668.78	4 711 944.36
Net financial income	-90 523 243.01	-63 086 108.02
Other adjustments	-350.87	-14 323 663.19
Other non-cash items	266 561.97	-101 650.30
Cash generated from operating activities before net working capital	-8 886 029.90	-9 307 812.83
Change in net working capital		
Change in current receivables	10 127 609.05	18 230 024.50
Change in current non-interest-bearing liabilities	-10 837 417.05	-1 226 988.83 ¹⁾
Cash generated from operating activities	-9 595 837.90	7 695 222.84
Interest expenses and other financial expenses paid	-15 505 905.97	-18 611 043.32
Interest income received	10 038 904.86	10 787 730.68
Dividend received and equity refund	94 246 754.12	66 514 017.67
Income taxes paid	-5 431 565.33	-229 534.38
Cash flow from operating activities	73 752 349.78	66 156 393.49

EUR	2018	2017
Cash flow from investing activities		
Purchase of tangible and intangible assets	-2 263 737.51	-5 586 732.99
Proceeds from sale of tangible and intangible assets	702 778.55	214 520.00
Acquisition of subsidiaries, net of cash acquired	-	-993 772.36
Disposal of subsidiaries, net of cash disposed	-	15 568 071.00
Loans granted	-7 841 504.75	-106 696 981.30
Proceeds from repayments of loans	7 888 523.08	66 662 490.53
Cash flow from investing activities	-1 513 940.63	-30 832 405.12
Cash flow from financing activities		
Dividends paid	-103 356 888.60	-101 000 681.25
Conveyance of own shares	2 276 314.10	432 763.55
Proceeds from long-term borrowings	185 000 000.00	-
Proceeds from short-term borrowings	982 114 590.08	1 661 071 287.25
Repayments of short-term borrowings	-1 089 077 991.55	-1 614 343 805.53
Change in intercompany cash pool, net	-12 118 415.26	-21 578 073.271)
Group contributions received	45 400 000.00	47 200 000.00
Cash flow from financing activities	10 237 608.77	-28 218 509.25
Change in cash and cash equivalents	82 476 017.92	7 105 479.12
Cash and cash equivalents at the beginning of period	35 205 017.12	28 099 538.00
Cash and cash equivalents at the end of period	117 681 035.04	35 205 017.12
Caon and caon equivalente at the end of period	82 476 017.92	7 105 479.12

¹⁾ Subsidiary cash pool transferred to cash flow from financing activities.



Notes to the parent company's financial statements (FAS)

Parent company accounting principles

The financial statements of the Parent company Tieto Corporation are prepared in accordance with Finnish Accounting Standards (FAS).

Tieto Corporation (business identity code 0101138-5) is a Finnish public limited IT service and software company organized under the laws of Finland and domiciled in Espoo: Keilalahdentie 2-4, 02101 Espoo, Finland. The company is listed on NASDAQ Helsinki and Stockholm. The Board of Directors approved the financial statements to be published 28 February 2019. According to the Limited Liability Companies Act the shareholders have at the Annual General Meeting the right to approve, disapprove or change the financial statements after the publication.

Foreign currency items

Foreign currency transactions are initially translated at the exchange rate prevailing on the transaction date. Foreign currency items at the end of the financial period are valued at the exchange rates on the balance sheet date. Foreign currency items are hedged using derivative contracts.

Exchange gains and losses on net financial liabilities are reported in the income statement under financial items, while other exchange gains or losses are included in operating profit. Gains and losses arising from revaluation of derivative contracts are, depending on their nature, reported either under financial items or operating profit.

Net sales

Net sales include internal service fees and exchange rate differences from accounts receivables, less indirect taxes such as value added tax.

Other operating income

Other operating income includes mainly rental income and gains from asset disposals.

Pension arrangements

The company's pension obligations are administered through pension insurance institutions. Pension obligations are fully covered.

Financial instruments

The company applies the Finnish Accounting Act chapter 5 section 2a and records financial instruments initially at fair value.

See financial instruments accounting policies in the consolidated financial statements.

Appropriations

Group contributions are included in appropriations.

Valuation of fixed assets

Fixed assets are carried at cost less accumulated depreciation. Depreciation is charged according to plan based on the estimated economic lives of the individual assets and accounted for in accordance with the straight-line method.

The company applies the following economic lives:

	Years
Intangible assets (software)	3
Other capitalized expenditure	3–10
Buildings	25–40
Data processing equipment ¹⁾	3–5
Other machinery and equipment	5
Other tangible assets	5

¹⁾ Purchases of personal computers are expensed immediately.

Income taxes

The income statement includes the company's income taxes based on taxable profit for the period according to local tax regulations as well as adjustments to prior-year taxes. The information related to deferred tax items is included in the notes.



1. Net sales

EUR	2018	2017
Internal service fees	166 343 633.36	176 960 216.82
Total	166 343 633.36	176 960 216.82

2017 has been reclassified to reflect 2018.

Net sales by country	2018	2017
Finland	74 186 976.18	70 030 152.05
Sweden	54 455 131.29	53 961 076.59
Norway	15 148 151.59	15 296 063.00
Other	22 553 374.30	37 672 925.18
Total	166 343 633.36	176 960 216.82

2. Other operating income

EUR	2018	2017
Gain from sale of other fixed assets and shares	-	14 641 489.19
Rental income	28 411 786.16	32 477 103.63
Other income	3 970 810.17	4 296 048.86
Total	32 382 596.33	51 414 641.68

3. Personnel expenses

EUR	2018	2017
Wages and salaries	14 251 625.35	14 389 229.73
Pension expenses	2 204 018.56	2 611 259.90
Other pay-related statutory social costs	421 642.03	620 511.81
Total	16 877 285.94	17 621 001.44

The parent company had an average of 130 employees during 2018 and 142 employees in 2017.

4. Other operating expenses

EUR	2018	2017
Voluntary personnel expenses	915 984.76	840 854.51
Licenses and maintenance	11 827 767.32	11 180 475.00
ICT and data communication expenses	8 356 420.43	7 823 981.36
Internal service fees	120 119 813.25	121 272 705.35
Rents and other premises expenses	23 453 244.04	29 001 879.88
Loss on sale of shares	-	317 825.62
Advertising and marketing	3 521 868.61	3 781 679.78
Leased labour	1 624 140.18	1 258 015.23
Consulting and lawyers	6 474 910.70	9 168 993.77
Meetings	843 029.72	1 285 380.29
Recruiting	898 372.56	744 993.17
Derivative Exchange Rate Losses on Other Expenses	5 096 501.49	4 420 699.99
Other operating expenses	7 869 131.69	14 538 872.45
Total	191 001 184.75	205 636 356.40

Fees to auditors

	2018		2017
EUR	Deloitte	PwC	PwC
Audit fees	150 000.00	200 000.00	183 500.00
Tax consultation	13 000.00	-	2 000.00
Other services	27 000.00	450 000.00	228 000.00
Total	190 000.00	650 000.00	413 500.00

5. Management remuneration

See Note 7 in Notes to the consolidated financial statements.



6. Financial income and expenses

EUR	2018	2017
Dividend income		
Dividend income from Group companies	91 047 254.12	63 035 917.67
Dividend income from joint ventures	3 199 500.00	3 477 300.00
Dividend income from other companies	-	800.00
	94 246 754.12	66 514 017.67
Other interest and financial income		
From Group companies	2 369 199.59	1 179 841.78
From other companies	15 421 294.38	18 424 733.82
	17 790 493.97	19 604 575.60
Investment write-downs	-	-113 928.37
Interest and other financing expenses		
To Group companies	-463 808.60	-436 272.09
To other companies	-21 050 196.48	-22 482 284.79
	-21 514 005.08	-22 918 556.88
Total	90 523 243.01	63 086 108.02

7. Income taxes

EUR	2018	2017
Taxes for the financial year / appropriations	14 820 000.00	9 080 000.00
Taxes for the financial year / regular operations	-26 299 212.99	-14 466 336.46
Taxes for the previous years	-24 140.78	1 097.91
Total	-11 503 353.77	-5 385 238.55

8. Intangible assets

EUR	31 Dec 2018	31 Dec 2017
Intangible rights		
Acquisition cost, 1 Jan	12 212 823.14	11 262 764.90
Additions	702 778.55	950 058.24
Disposals	-702 778.55	-
Acquisition cost, 31 Dec	12 212 823.14	12 212 823.14
Accumulated amortization, 1 Jan	11 919 775.27	11 048 149.58
Amortization for the period	277 099.15	871 625.69
Accumulated amortization, 31 Dec	12 196 874.42	11 919 775.27
Book value, 31 Dec	15 948.72	293 047.87
Other capitalized expenditures		
Acquisition cost, 1 Jan	18 804 046.70	15 209 107.90
Additions	1 085 244.00	3 419 748.45
Disposals	-470 100.23	-33 650.92
Reclassifications	-10 100.20	208 841.27
Acquisition cost, 31 Dec	19 419 190.47	18 804 046.70
Accumulated amortization, 1 Jan	9 833 430.38	8 369 327.60
Accumulated amortization for disposals and reclassifications	-470 100.23	-15 634.47
Amortization for the period	1 907 261.07	1 479 737.25
Accumulated amortization, 31 Dec	11 270 591.22	9 833 430.38
Book value, 31 Dec	8 148 599.25	8 970 616.32
Advance payments		
Acquisition cost, 1 Jan	_	792 728.30
Additions	-	192 120.30
Reclassifications	_	-792 728.30
Acquisition cost, 31 Dec	-	-132 120.00
Acquisition cost, of Dec	-	-
Total	8 164 547.97	9 263 664.19



9. Tangible assets

EUR	31 Dec 2018	31 Dec 2017
Land		
Acquisition cost, 1 Jan	60 270.13	60 270.13
Acquisition cost, 31 Dec	60 270.13	60 270.13
Machinery and equipment		
Acquisition cost, 1 Jan	31 859 468.66	30 406 902.64
Additions	422 239.96	1 814 611.80
Disposals	-78 026.40	-153 204.51
Reclassifications	9 237.70	-208 841.27
Acquisition cost, 31 Dec	32 212 919.92	31 859 468.66
Accumulated depreciation, 1 Jan	26 313 792.44	23 982 494.90
Accumulated depreciation for disposals and reclassifications	-127 908.98	-26 204.66
Depreciation for the period	2 266 308.56	2 357 502.20
Accumulated depreciation, 31 Dec	28 452 192.02	26 313 792.44
Book value, 31 Dec	3 760 727.90	5 545 676.22
Other tangible assets		
Acquisition cost, 1 Jan	46 608.00	46 608.00
Reclassifications	-9 237.70	-
Acquisition cost, 31 Dec	37 370.30	46 608.00
Accumulated depreciations, 1 Jan	3 592.42	513.20
Accumulated depreciation for reclassifications	-3 592.42	-
Depreciation for the period	-	3 079.22
Accumulated depreciation, 31 Dec	-	3 592.42
Book value, 31 Dec	37 370.30	43 015.58
Total	3 858 368.33	5 648 961.93

10. Investments

EUR	31 Dec 2018	31 Dec 2017
Subsidiary shares		
Acquisition cost, 1 Jan	937 013 913.29	937 325 863.87
Additions	-	993 772.36
Disposals	-	-1 305 722.94
Acquisition cost, 31 Dec	937 013 913.29	937 013 913.29
Book value, 31 Dec	937 013 913.29	937 013 913.29
Shares in joint ventures		
Acquisition cost, 1 Jan	3 691 233.78	3 691 233.78
Acquisition cost, 31 Dec	3 691 233.78	3 691 233.78
Book value, 31 Dec	3 691 233.78	3 691 233.78
Other shares and interests		
Acquisition cost, 1 Jan	163 537.62	292 265.99
Disposals	-	-128 728.37
Acquisition cost, 31 Dec	163 537.62	163 537.62
Book value, 31 Dec	163 537.62	163 537.62
Total	940 868 684.69	940 868 684.69

Subsidiary shares

See Note 23 in Notes to the consolidated financial statements.

Joint ventures owned and managed by the parent company

See Note 24 in Notes to the consolidated financial statements.



11. Long-term receivables

EUR	31 Dec 2018	31 Dec 2017
Loan receivables from Group companies		
Subordinated loan	41 248 976.09	42 971 210.30
Other loan receivables	3 297 063.68	3 314 515.97
Other receivables	876 313.23	212 418.03
Total	45 422 353.00	46 498 144.30

12. Current intercompany receivables

EUR	31 Dec 2018	31 Dec 2017
Receivables from Group companies		
Accounts receivable	11 245 926.58	16 050 524.26
Loan receivables	2 927 110.23	1 234 442.06
Other receivables	4 572 105.53	4 690 290.41
Group contribution receivables	74 100 000.00	45 400 000.00
Prepaid expenses and accrued income	3 620 902.58	198 435.83
Total	96 466 044.92	67 573 692.56
Receivables from joint ventures		
Accounts receivable	137 694.54	143 252.10
Prepaid expenses and accrued income	419.66	-
Total	138 114.20	143 252.10

13. Prepaid expenses and accrued income

EUR	31 Dec 2018	31 Dec 2017
Prepaid expenses and accrued income from Group companies	01 200 2010	012002011
Other	3 620 902.58	198 435.83
Prepaid expenses and accrued income from joint ventures	419.66	-
Prepaid expenses and accrued income from other companies		
Licence fees	3 213 385.27	3 821 882.44
Rents	738 059.07	978 974.63
Social costs	77 124.16	88 363.77
Other	1 297 889.87	1 260 381.04
	5 326 458.37	6 149 601.88
Total	8 947 780.61	6 348 037.71

14. Changes in shareholders' equity

EUR	31 Dec 2018	31 Dec 2017
Restricted equity		01202
Share capital, 1 Jan	76 555 412.00	76 555 412.00
Share capital, 31 Dec	76 555 412.00	76 555 412.00
Share issue premiums, 1 Jan	13 791 579.51	13 791 579.51
Share issue premiums, 31 Dec	13 791 579.51	13 791 579.51
Restricted equity total	90 346 991.51	90 346 991.51
Unrestricted equity		
Invested unrestricted equity reserve, 1 Jan	12 843 921.39	12 843 921.39
Invested unrestricted equity reserve, 31 Dec	12 843 921.39	12 843 921.39
Retained earnings, 1 Jan	572 638 721.84	569 513 867.32
Shares distributed to personnel	2 978 155.38	668 572.49
Dividend distributions	-103 356 888.60	-101 000 681.25
Retained earnings, 31 Dec	472 259 988.62	469 181 758.56
Net profit for the financial year	139 566 441.95	103 456 963.28
Unrestricted equity total	624 670 351.96	585 482 643.23
Shareholders' equity, total	715 017 343.47	675 829 634.74
onaronoration oquity, total	710 011 010111	0.0000000000
Distributable funds		
Invested unrestricted equity reserve	12 843 921.39	12 843 921.39
Retained earnings	472 259 988.62	469 181 758.56
Net profit for the financial year	139 566 441.95	103 456 963.28
Total	624 670 351.96	585 482 643.23
Breakdown of the parent's share capital		
Number of shares	74 109 252	74 109 252
Euros	76 555 412.00	76 555 412.00

15. Provisions

EUR	31 Dec 2018	31 Dec 2017
Restructuring commitments	206 715.14	609 667.48
Total	206 715.14	609 667.48

16. Non-Current liabilities

EUR	31 Dec 2018	31 Dec 2017
Bonds	100 000 000.00	100 000 000.00
Loans	85 000 000.00	-
Other non-current liabilities	2 348.13	5 834.27
Total	185 002 348.13	100 005 834.27

Fair value of bond based on prevailing market rate at the reporting date was EUR 100 174 000 (EUR 103 651 000 in 2017).



17. Current liabilities

EUR	31 Dec 2018	31 Dec 2017
Liabilities to Group companies		
Accounts payable	5 601 603.12	1 154 662.49
Other liabilities including cash pool	168 321 245.00	172 834 189.16
Accrued liabilities and deferred income	5 623 237.56	9 783 550.47
	179 546 085.68	183 772 402.12
Liabilities to joint ventures		
Accounts payable	11 121.56	9 413.35
Other liabilities including cash pool	17 832 070.52	16 416 312.79
	17 843 192.08	16 425 726.14
Liabilities to other companies		
Accounts payable	7 472 320.18	8 519 021.30
Bonds	100 000 000.00	-
Commercial papers	-	114 931 506.91
Other current liabilities	719 980.76	1 729 704.12
Accrued liabilities and deferred income	14 784 367.78	12 412 606.63
	122 976 668.72	137 592 838.96
Total	320 365 946.48	337 790 967.22

Loans and receivables and financial liabilities are held at amortized cost using the effective interest rate method. Their carrying amounts are considered to approximate their fair value, except for the fixed rate bond where carrying amount has not been adjusted to match the fair value.

Fair value of bond based on prevailing market rate at the reporting date was EUR 101 043 000.

18. Accrued liabilities and deferred income

EUR	31 Dec 2018	31 Dec 2017
Accrued liabilities and deferred income from Group companies		
Personnel related expenses	713 575.56	541 277.77
Service fee	4 527 393.99	9 241 052.15
Interest	5 144.27	1 220.55
Other	377 123.74	-
	5 623 237.56	9 783 550.47
Accrued liabilities and deferred income from other companies		
Vacation pay and related social costs	1 757 482.54	1 868 031.76
Other accrued payroll and related social costs	1 283 952.55	1 749 253.78
Other social costs	767.00	196 760.75
Interest	2 200 445.57	1 764 647.16
Rents	2 091 166.63	3 412 691.43
Taxes	6 133 258.01	785 270.57
Other	1 317 295.48	2 635 951.18
	14 784 367.78	12 412 606.63
Total	20 407 605.34	22 196 157.10



19. Deferred tax assets and liabilities

EUR	31 Dec 2018	31 Dec 2017
Deferred tax assets		
From temporary differences	228 964.69	234 091.40
From appropriations	75 108.81	-
Total	304 073.50	234 091.40
Deferred tax liabilities		
From appropriations	-	9 892.50
Total	-	9 892.50

Deferred tax items are not included in the balance sheet.

20. Contingent liabilities

31 Dec 2018	31 Dec 2017
	5. DC0 2017
35 376 938.43	9 571 470.64
12 071 944.00	14 404 125.00
35 918 027.00	50 033 809.00
284 563.02	284 032.34
362 678.82	350 554.99
	12 071 944.00 35 918 027.00 284 563.02

Lease commitments are principally three-year lease agreements that do not include buyout clauses.

In addition, to the above mentioned contingent liabilities, the Parent company has provided security relating to certain major contracts, regarding IPR indemnity clauses. The maximum amount of these liabilities does not exceed EUR 15 (15) million.

Tieto Great Britain Ltd. is exempt from the requirements of the Companies Act relating to the audit by virtue of section 479C of the Companies Act. The parent company Tieto Oyj has given a parent undertaking guarantee for all the outstanding liabilities of Tieto Great Britain Ltd at the end of the financial year 2018.



21. Derivatives

Notional amounts of derivatives

Includes the gross amount of all nominal values for contracts that have not yet been settled or closed. The amount of nominal value outstanding is not necessarily a measure or indication of market risk, as the exposure of certain contracts may be offset by other contracts.

EUR	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	267 000 855.88	246 907 775.63
Electricity price futures contracts	-	939 306.00

Fair values of derivatives

Foreign exchange derivatives' fair values are calculated according to foreign exchange and interest rates on the closing date.

The net fair values of derivative financial instruments at the balance sheet date	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	53 693.86	-169 373.49
Electricity price futures contracts	-	66 259.57

Derivatives are used for economic purposes only.

Gross positive fair values of derivatives	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	2 823 146.98	2 006 702.80
Electricity price futures contracts	-	71 364.22

Gross negative fair values of derivatives	31 Dec 2018	31 Dec 2017
Foreign exchange forward contracts	-2 769 453.13	-2 176 076.29
Electricity price futures contracts	-	-5 104.64

The Company has been hedging highly probable forecast transactions denominated in foreign currency externally with banks on behalf of its' subsidiaries with equal back-to-back internal transactions.

Fair value measurement of financial assets and liabilities

See **note 21** in Notes to the consolidated financial statements.

22. Management of financial risks

The operative management of the treasury activities of Tieto is centralized into Group Treasury, which is operated from Parent company. The Group Treasury is responsible for managing the Group's financial risk position and maintaining adequate liquidity. The Treasury Policy, which has been approved by the board of directors, defines the principles for measuring and managing liquidity risk, interest rate risk, foreign exchange risks and counterparty risk of the Group. The Treasury Policy also defines the division of responsibilities with regard to financial risk management. The Group reviews and monitors financial risks on a regular basis.

Financal risks are assessed, measured and managed on a Group level. See **Note 20** in Notes to the consolidated financial statements.



DIVIDEND PROPOSAL, SIGNATURES FOR THE BOARD OF DIRECTORS' REPORT AND FINANCIAL STATEMENTS AND AUDITOR'S NOTE

Dividend proposal		The Auditors' Note
Distributable funds in the parent company	624 670 351.96	Our auditors' report has been issued today.
of which net profit for the current year	139 566 441.95	Espoo, 28 February 2019
The Board of Directors proposes that the distributable funds mentioned above be used as follows:		Deloitte Oy Audit Firm
a total dividend of EUR 1.45 per share to be paid to shareholders	107 048 206.05	
EUR 1.25 (ordinary)		
EUR 0.20 (additional)		Jukka Vattulainen
		Authorised Public Accountant (KHT)

⁻ the remainder be carried forward

517 622 145.91

In the opinion of the Board of Directors the proposed dividend distribution does not endanger the solvency of the company.

Signatures for the Financial statements and Board of Directors' report Espoo, 27 February 2019

Kurt Jofs	
Chairman	

Harri-Pekka Kaukonen Deputy Chairman	Timo Ahopelto	Liselotte Hägertz Engstam
Johanna Lamminen	Endre Rangnes	Jonas Synnergren
Esa Koskinen		Robert Spinelli

Kimmo AlkioPresident and CEO



Auditor's report

To the Annual General Meeting of Tieto Oyj

Report on the Audit of Financial Statements Opinion

We have audited the financial statements of Tieto Oyj (business identity code 0101138-5) for the year ended 31 December, 2018. The financial statements comprise the consolidated statement of income statement, statement of comprehensive income, financial position, statement of cash flows, statement of changes in equity and notes, including a summary of significant accounting policies, as well as the parent company's income statement, balance sheet, statement of cash flows and notes.

In our opinion

- the consolidated financial statements give a true and fair view of the group's financial position, financial performance and cash flows in accordance with International Financial Reporting Standards (IFRS) as adopted by the EU,
- the financial statements give a true and fair view of the parent company's financial
 performance and financial position in accordance with the laws and regulations governing
 the preparation of financial statements in Finland and comply with statutory requirements.

Our opinion is consistent with the additional report submitted to the Audit Committee.

Basis for opinion

We conducted our audit in accordance with good auditing practice in Finland. Our responsibilities under good auditing practice are further described in the Auditor's Responsibilities for the Audit of Financial Statements section of our report.

We are independent of the parent company and of the group companies in accordance with the ethical requirements that are applicable in Finland and are relevant to our audit, and we have fulfilled our other ethical responsibilities in accordance with these requirements.

In our best knowledge and understanding, the non-audit services that we have provided to the parent company and group companies are in compliance with laws and regulations applicable in Finland regarding these services, and we have not provided any prohibited non-audit services referred to in Article 5(1) of regulation (EU) 537/2014.

The non-audit services that we have provided have been disclosed in **note 4** to the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key audit matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

We have also addressed the risk of management override of internal controls. This includes consideration of whether there was evidence of management bias that represented a risk of material misstatement due to fraud.



Key audit matter

Impairment testing of Goodwill

Refer to Note 26 in the Financial Statements.

Consolidated financial statements includes goodwill of EUR 442.6 million.

Management has conducted annual goodwill impairment testing and as a result no impairment was identified

Goodwill impairment testing requires substantial management judgment over the projected future business performance, cash flows and applied discount rate.

As described in **note 26**, management concluded that goodwill related to Tieto Product Development Services, EUR 54.2 million, is more sensitive to risk of impairment.

This matter is a significant risk of material misstatement referred to in EU Regulation No 537/241, point (c) of Article 10(2).

Revenue recognition

Refer to accounting policies for the consolidated financial statements and **notes 1** and **2**.

Tieto Oyj consolidated Net Sales amounted to EUR 1 599.5 million.

The Net Sales consist mostly of continuous services, software solutions and consulting. In addition to this, the Company has to some extent fixed-price projects.

How our audit addressed the key audit matter

As part of our audit procedures we assessed key controls by each cash generating unit.

In addition, we have assessed the key assumptions in the impairment testing performed by management for the Products Service Development cash generating by:

- assessing the growth and profitability estimates and comparing them to historical performance;
- comparing the estimates with the latest approved budgets and strategic plans;
- comparing applied discount rates to independent third party sources;
- testing the accuracy and the underlying calculations.

We also assessed the adequacy of the related disclosure information.

We evaluated the IT systems used in the determination of revenue recognition by testing access and change management controls. We also evaluated process level controls by performing walkthroughs of each significant class of revenue transactions, assessed the design effectiveness of key controls and tested the operating effectiveness of those controls.

Key audit matter

Revenue from service contracts, software solutions and consulting is based on service volumes or time and materials; and the performance obligations are recognized over the accounting period in which the services are rendered. For contracts comprising fixed-price projects, revenue is recognized based on the actual service provided by the reporting date as a proportion of the total services to be provided.

In 2018, IFRS 15 was adopted, which changed the concept on how the revenue is accounted for. This did not result to any material change how the revenue is recognised.

We identified two specific risks of error and fraud in respect of improper revenue recognition given the nature of the Group's services, as follows:

- Inappropriate revenue cut-off in project and services sales; and
- Inappropriate accounting for major projects.

Revenue recognition due to its size require specific attention both from the accounting and the auditing perspective. In addition, management applies judgement when considering revenue recognition for fixed-price projects.

How our audit addressed the key audit matter

Our substantive audit procedures to address the identified risk relating to revenue cut-off in projects and services sales consisted among others, performing transactional testing procedures to validate the recognition of revenue throughout the year as well as year-end.

Our substantive audit procedures to address the risk of inappropriate accounting for major fixed-price projects were focused around judgements used by management in creating project estimates.

We selected a sample of contracts and performed the following:

- Ensured that the revenue recognition method applied was appropriate based on the terms of the arrangement;
- Agreed project revenue estimate against the sales agreement, including contract amendments;
- Tested the accuracy of the cost estimate by taking a sample of cost components and traced those to supporting documentation; and
- Recalculated the revenue based on stage
 of completion of the project. Assessed the
 appropriateness of the stage of completion
 by comparing actual costs per the company's
 accounting records to the estimated total costs of
 the project.



Responsibilities of the Board of Directors and the President and CEO for the financial statements

The Board of Directors and the President and CEO are responsible for the preparation of consolidated financial statements that give a true and fair view in accordance with International Financial Reporting Standards (IFRS) as adopted by the EU, and of financial statements that give a true and fair view in accordance with the laws and regulations governing the preparation of financial statements in Finland and comply with statutory requirements. The Board of Directors and CEO are also responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Board of Directors and CEO are responsible for assessing the parent company's and the group's ability to continue as going concern, disclosing, as applicable, matters relating to going concern and using the going concern basis of accounting. The financial statements are prepared using the going concern basis of accounting unless there is an intention to liquidate the parent company or the group or cease operations, or there is no realistic alternative but to do so.

Auditor's responsibilities in the audit of financial statements

Our objectives are to obtain reasonable assurance on whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with good auditing practice will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the financial statements.

As part of an audit in accordance with good auditing practice, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether
 due to fraud or error, design and perform audit procedures responsive to those risks, and
 obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion.
 The risk of not detecting a material misstatement resulting from fraud is higher than for
 one resulting from error, as fraud may involve collusion, forgery, intentional omissions,
 misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the parent company's or the group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of the Board of Directors' and the President and CEO's use of the going concern basis of accounting and based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the parent company's or the group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events so that the financial statements give a true and fair view.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities
 or business activities within the group to express an opinion on the consolidated financial
 statements. We are responsible for the direction, supervision and performance of the group
 audit. We remain solely responsible for our audit opinion.



We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Other Reporting Requirements Information on our audit engagement

We were first appointed as auditors by the The Finnish Patent and Registration office on 29 November 2018, for the financial year 1.1.-31.12.2018.

Other information

The Board of Directors and CEO are responsible for the other information. The other information comprises the report of the Board of Directors and the information included in the Annual Report, but does not include the financial statements and our report thereon. We have obtained the report of the Board of Directors prior to the date of the auditor's report, and the Annual Report is expected to be made available to us after that date.

Our opinion on the financial statements does not cover the other information.

In connection with our audit of the financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated. With respect to report of the Board of Directors, our responsibility also includes considering whether the report of the Board of Directors has been prepared in accordance with the applicable laws and regulations.

In our opinion, the information in the report of the Board of Directors is consistent with the information in the financial statements and the report of the Board of Directors has been prepared in accordance with the applicable laws and regulations.

If, based on the work we have performed on the other information that we obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report this fact. We have nothing to report in this regard.

Espoo, 28 February 2019

Deloitte Oy

Audit Firm

Jukka Vattulainen Authorised Public Accountant (KHT)



Shares and shareholders

Share capital and shares

Tieto Corporation's issued and registered share capital on 31 December 2018 totalled EUR 76 555 412.00 and the number of shares was 74 109 252.

Tieto's shares have no par value and their book counter value is one euro. Tieto's shares are listed on NASDAQ in Helsinki and Stockholm. The company has one class of shares, with each share conferring equal dividend rights and one vote. The company's Articles of Association include a restriction on voting at the Annual General Meeting, where no-one is allowed to vote with more than one-fifth of the votes represented at the meeting. The Articles of Association are available at www.tieto.com/investors.

Shareholders and holding of own shares

The company had 26 746 registered shareholders at the end of 2018. Based on the ownership records of the Finnish and Swedish central securities depositories, 34.1% of Tieto's shares were held by Finnish and 2.9% by Swedish investors. In total, there were 25 012 retail investors in Finland and Sweden and they held 12% of Tieto's shares.

The members of the Board of Directors, the President and CEO and their close associates together held 0.1% of the shares and votes registered in the book-entry system on 31 December 2018. The President and CEO is also participating in Tieto's long-term share-based incentive plans. Potential rewards will be paid partly in Tieto shares. As the number of additional shares related to these incentives is dependent on the company's performance these are not included in this aggregate number.

Tieto has three longer-term shareholders holding 10% or more of the shares: Cevian Capital Partners Ltd, Solidium Oy and Silchester International Investors LLP. Based on the latest information (31 August 2018), Cevian Capital's holding was 11 066 684 shares, representing 14.9% of the shares and voting rights. Solidium Oy held 10.0% of Tieto's shares on 31 December 2018. Based on its announcement made on 23 June 2015, Silchester International

Investors LLP's aggregate holding in Tieto was 7 401 027 shares, which represents 10.0% of the shares and voting rights.

Tieto is not aware of any shareholder agreements or cross-shareholdings that would limit the amount of shares available for trading. The free float of the shares, excluding the treasury shares currently held by the company, can be considered to be 100%.

At the end of 2018, the number of shares in the company's or its subsidiaries' possession totalled 282 903 representing 0.4% of the total number of shares and voting rights. Related to the company's share-based reward plan, a total of 103 224 shares held by Tieto were transferred to the participants of the plan. The number of outstanding shares, excluding the treasury shares, was 73 826 349 at the end of the year.

Share-based incentive plans

Tieto has three share-based incentive plans, a Performance Share Plan 2016, 2017 and 2018 and a Restricted Share Plan 2016, 2017 and 2018. The potential rewards will be paid partly in the company's shares and partly in cash, respectively in 2019, 2020 and 2021. The share rewards to be delivered to the participants will consist of shares to be acquired from the market. Thus, no new shares will be issued in connection with the plans.

The rewards to be paid on the basis of the plans, correspond to the value of an approximate maximum total of 1 500 000 Tieto shares (including the proportion to be paid in cash).

The company has not issued any bonds with warrants nor has any stock options programmes.



Board authorizations

The 2018 Annual General Meeting authorized the Board of Directors to decide on the repurchase of the company's own shares. The amount of own shares to be repurchased shall not exceed 7 400 000 shares, which currently corresponds to approximately 10% of all the shares in the company. The authorization is intended to be used to develop the company's capital structure.

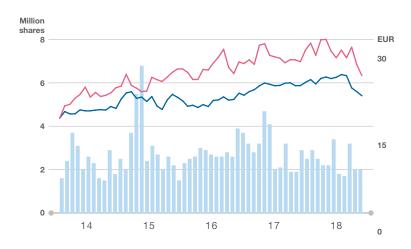
Share performance and trading

In 2018, the turnover of Tieto's shares totalled EUR 808.5 million (29 333 439 shares) in Helsinki and SEK 519.4 million (1 829 632 shares) in Stockholm. The combined trading volume represented 42% of the shares. On NASDAQ Helsinki, the volume- weighted average share price in 2018 was EUR 27.56. At the end of the year, the share price was EUR 23.58. The highest price was EUR 30.74 and the lowest EUR 22.86. At the end of the year, the company's market capitalization totalled EUR 1 747.5 (1 925.4) million. The share price declined by 9% from the year-end 2017 in Helsinki and declined by 5% in Stockholm during the year. At the same time, the OMX Helsinki Price Index declined by 6%. The OMX Stockholm Price Index declined by 8% in 2018.

In addition to NASDAQ Helsinki and Stockholm, Tieto's share is traded on multilateral trading facilities (MTF), such as Turquoise and BATS Europe. The aggregate number of Tieto's shares traded on these marketplaces was 17 074 545 shares, or approximately 35% of the total trading volume.

For additional information on shares and shareholders, see www.tieto.com/investors/Shares.

SHARE PRICE DEVELOPMENT AND TURNOVER. HELSINKI



Tieto

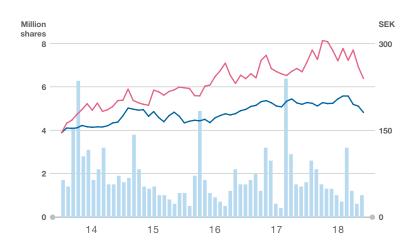
NASDAQ OMX Helsinki

Turnover per month

Source: Thomson Reuters

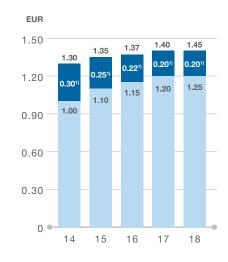


SHARE PRICE DEVELOPMENT AND TURNOVER, STOCKHOLM

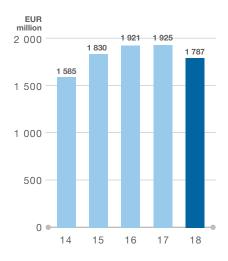


- Tieto
- NASDAQ OMX Stockholm
- Turnover per month
 Source: Thomson Reuters

DIVIDEND / SHARE



MARKET CAPITALIZATION



1) Additional dividend, EUR

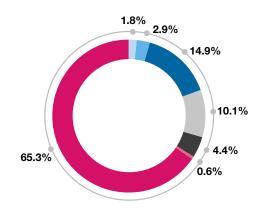


Major shareholders on 31 December 2018

		2/
	Shares	%
1 Cevian Capital ¹⁾	11 066 684	14.9
2 Solidium Oy	7 415 418	10.0
3 Silchester International Investors LLP2)	7 401 027	10.0
4 Ilmarinen Mutual Pension Insurance Co.	1 443 415	1.9
5 Swedbank Robur fonder	1 423 054	1.9
6 Elo Pension Co.	810 000	1.1
7 The State Pension fund	773 000	1.0
8 Svenska litteratursällskapet i Finland r.f.	636 345	0.9
9 Åbo Akademi University Foundation	495 500	0.7
10 Nordea Funds	383 816	0.5
Top 10 shareholders total	31 848 259	43.0
- of which nominee registered	18 467 711	24.9
Nominee registered other	29 901 319	40.3
Others	12 359 674	16.7
Total	74 109 252	100.0

Based on the ownership records of Euroclear Finland Oy and Euroclear Sweden AB.

OWNERSHIP STRUCTURE ON 31 DEC 2018, % OF SHARES



- Corporations
- Finance and insurance institutions
- Public organizations
- Households
- Non-profit organizations
- Foreign
- Nominee registered

¹⁾ Based on the ownership records of Euroclear Finland Oy, Cevian Capital's holding on 31 August 2018 was 11 066 684 shares, representing 14.9% of the shares and voting rights.

²⁾ On 23 June 2015, Silchester International Investors LLP announced that its holding in Tieto Corporation was 7 401 027 shares, which represents 10.0% of the shares and voting rights.



Number of shares

	Sha	Shareholders		Shares	
	No	%	No	%	
1–100	6 573	39.0	354 830	0.5	
101–500	6 679	39.7	1 737 417	2.3	
501-1 000	1 793	10.6	1 374 688	1.9	
1 001–5 000	1 494	8.9	3 173 873	4.3	
5 001–10 000	149	0.9	1 042 806	1.4	
10 001–50 000	105	0.6	2 152 190	2.9	
50 001-100 000	25	0.1	1 767 017	2.4	
100 001–500 000	17	0.1	3 757 132	5.1	
500 001-	8	0.0	58 738 739	79.3	

Based on the ownership records of Euroclear Finland Oy

Changes in share capital

(1 share = 1 vote)	Shares	Share capital, EUR
Total on 31 December 2006	75 841 462	75 841 462
Nullifying of the company's own shares, registered in 2007	1 883 350	0
Bonds with options subscribed, registered in 2007	61	61
Nullifying of the company's own shares, registered in 2008	1 935 000	0
Total on 31 December 2011	72 023 173	75 841 523
Subscriptions with stock options, registered in 2012	354 040	110 651
Total on 31 December 2012	72 377 213	75 952 174
Subscriptions with stock options, registered in 2013	755 154	603 238
Total on 31 December 2013	73 132 367	76 555 412
Subscriptions with stock options, registered in 2014	543 536	0
Total on 31 December 2014	73 675 903	76 555 412
Subscriptions with stock options, registered in 2015	334 050	0
Total on 31 December 2015	74 009 953	76 555 412
Subscriptions with stock options, registered in 2016	99 299	0
Total on 31 December 2016	74 109 252	76 555 412
Subscriptions with stock options, registered in 2017	0	0
Total on 31 December 2017	74 109 252	76 555 412
Subscriptions with stock options, registered in 2018	0	0
Total on 31 December 2018	74 109 252	76 555 412

Trading codes

NASDAQ OMX Helsinki	TIETO
NASDAQ OMX Stockholm	TIETOS
Thomson Reuters, Helsinki	TIETO.HE
Thomson Reuters, Stockholm	TIETOS.ST
Bloomberg, Helsinki	TIETO:FH
Bloomberg, Stockholm	TIETOS:SS
ISIN Code	FI0009000277



Information for shareholders

Shareholder calendar 2019

- Record date for the AGM 11 March
- Registration period 6 February-15 March 3.00 pm EET
- Annual General Meeting 21 March
- Ex-dividend date 22 March
- Record date for dividend payment 25 March
- Payment of the dividend as from 9 April
- Interim report 1/2019 25 April
- Interim report 2/2019 19 July
- Interim report 3/2019 24 October

Annual general meeting

The Annual General Meeting of Tieto Corporation will be held on Thursday 21 March 2019 at 4.00 pm (Finnish time) at the Tieto headquarters, address Keilalahdentie 2-4, Espoo, Finland.

Documents of the AGM

The documents of the AGM are available on the company's website at www.tieto.com/agm.

The right to participate and registration Shareholders registered in the shareholders' register

Each shareholder registered on 11 March 2019 in the shareholders' register of the company, has the right to participate in the AGM. A shareholder, whose shares are registered on his/her Finnish book-entry account, is registered in the shareholders' register of the company.

A shareholder, who wishes to participate in the AGM, may register for the meeting by giving a prior notice of participation no later than 15 March 2019 by 3.00 pm (EET) either:

- through Tieto's website at www.tieto.com/agm
- by e-mail agm(at)tieto.com
- by phone +358 20 727 1740 (Mon-Fri 9.00 am-3.00 pm (EET) or
- by mail to Tieto, Legal/AGM, P.O. Box 2, FI-02101 Espoo, Finland

Possible proxy documents should be delivered in originals to Tieto, Legal/AGM, P.O. Box 2, FI-02101 Espoo, Finland before 15 March 2019.

Holders of nominee registered shares

A holder of nominee registered shares has the right to participate in the general meeting by virtue of such shares, based on which he/she on the record date of the general meeting, i.e. on 11 March 2019, would be entitled to be registered in the shareholders' register of the company held by Euroclear Finland Oy.

The right to participate in the general meeting requires, in addition, that the shareholder on the basis of such shares has been registered into the temporary shareholders' register held by Euroclear Finland Oy at the latest by 18 March 2019 by 10 am (EET). As regards nominee registered shares this constitutes due registration for the general meeting.

A holder of nominee registered shares is advised to request without delay necessary instructions regarding the registration in the temporary shareholder's register of the company, the issuing of proxy documents and registration for the general meeting from his/her custodian bank.

The account management organization of the custodian bank will register a holder of nominee registered shares, who wants to participate in the Annual General Meeting, into the temporary shareholders' register of the company at the latest by 18 March 2019 by 10 am (EET).



Shares registered in Euroclear Sweden AB

A shareholder with shares registered in Euroclear Sweden AB's Securities System who wishes to attend and vote at the Annual General Meeting must:

1. be registered in the shareholders' register maintained by Euroclear Sweden AB not later than on 11 March 2019.

Shareholders whose shares are registered in the name of a nominee must, in order to be eliqible to request a temporary registration in the shareholders' register of Tieto Oyi maintained by Euroclear Finland Oy, request that their shares are re-registered in their own names in the register of shareholders maintained by Euroclear Sweden AB, and procure that the nominee sends the above mentioned request for temporary registration to Euroclear Sweden AB on their behalf. Such reregistration must be made as of 11 March 2019 and the nominee should therefore be notified well in advance.

2. request temporary registration in the shareholders' register of Tieto Corporation maintained by Euroclear Finland Oy. Such request shall be submitted in writing to Euroclear Sweden AB no later than on 12 March 2019 at 15.00 Swedish time. This temporary registration made through written request to Euroclear Sweden AB is considered a notice of attendance at the general meeting.

Proxy representative and power of attorney.

A shareholder may participate in the Annual General Meeting and exercise his/her rights at the meeting by way of proxy representation. A proxy representative shall produce a dated proxy document or otherwise in a reliable manner demonstrate his/her right to represent the shareholder at the Annual General Meeting. When a shareholder participates in the Annual General Meeting by means of several proxy representatives representing the shareholder with shares at different securities accounts, the shares by which each proxy representative represents the shareholder shall be identified in connection with the registration for the Annual General Meeting.

Further information on attending the AGM at www.tieto.com/agm.



Dividend payment

The Board of Directors proposes to the Annual General Meeting that a dividend of EUR 1.25 per share and an additional dividend of EUR 0.20 be paid from the distributable assets for the financial year that ended on 31 December 2018. The dividend shall be paid to shareholders who on the record date for the dividend payment on 25 March 2019 are recorded in the shareholders' register held by Euroclear Finland Oy or the register of Euroclear Sweden AB. The dividend shall be paid as from 9 April 2019.

Further information on the AGM at www.tieto.com/agm.





Contact Us

Tieto Corporation Keilalahdentie 2-4 P.O.Box P.O.Box 2, 02101 FI-02150 Espoo www.tieto.com