# 2018 annual board report and financial statements



# Annual Board Report 2018

Based on the audited Finnish version

### The role of Aalto University

Aalto University is an autonomous, multidisciplinary science and art community, which operates in the fields of technology, business, art and design, and closely related fields.

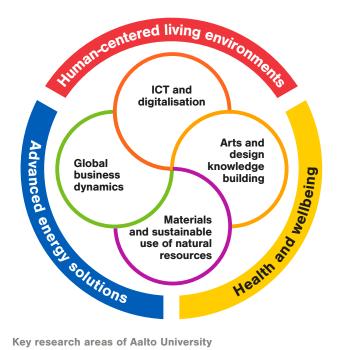
The university's mission and its activities seek to promote free research in addition to scientific and artistic education, provide research-based higher education, and educate students to serve society and humanity. In carrying out its mission, the university promotes life-long learning, interacts with society, and promotes the societal impact of research findings and artistic activities.

The national mission of the university is to promote Finland's success and make a positive impact on Finnish society, its economy, technology, art, design, internationalisation and competitiveness, as well as promote the welfare of humankind and the environment through high-quality research and education.

The university abides by the ethical principles of a worldclass university in all its activities, while following the principles of good administration, safeguarding academic autonomy and the independence of the academic community all of which are prerequisites for the freedom of education, research and art.

### **Activities during 2018**

2018 marked Aalto University's ninth year of operations. The university continued its research in seven key areas of particular strength and of prime importance for many of the big challenges facing society. These seven areas are ICT and digitalisation, materials, art and design, business, energy solutions, living environments, and health and wellbeing. In 2018, the university strengthened its activities in these areas, particularly in research on quantum technologies, smart transport, the future of work, and experiential practices for supporting the creative economy.



Key research areas of Aalto University

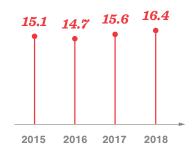
Development of the Otaniemi campus and the concentration of the university's core activities on this one campus has taken major steps in 2018. In the summer, the School of Arts, Design and Architecture left Arabia and relocated to the Väre building, at the heart of Otaniemi. The School of Business's new building was completed at the end of 2018, and the move from Töölö to the new location took place in February 2019. The start of 2018 saw the opening of A Grid, one of Europe's largest centres for growth companies. A Grid offers startups a direct channel for connecting with the Aalto University campus ecosystem, services and research infrastructure. The new shopping centre A Bloc, connected to the metro station and Väre building also opened its doors in 2018.

Aalto University continued to do well in international rankings in 2018. Aalto was ranked the 55th most international university in the Times Higher Education's World University Rankings, which lists the top 1000 universities in the world. The university was ranked 22nd (27th) worldwide and 13th (16th) in Europe in the Times Higher Education's Young University Rankings, which includes 250 universities aged less than 50 years old. The QS World University Rankings Top 50 Under 50, which features the world's 150 best universities under 50 years old, placed Aalto 9th (7th) worldwide and 3rd (1st) within Europe. In total, depending on definition, there are 17 000 to 22 000 universities in the world.

Significant investments to professorships in the tenure track system also continued in 2018. At the end of 2018, there were 268 professors (243 in 2017) who had been appointed in the tenure track career system since the foundation of the university. Of these, 33% (31%) were international recruits and 26% (26%) were women. The number of professors who had been appointed before the year 2010 was 121 (143).

#### Research

In 2018 the quality of Aalto University's research advanced significantly. The number of most cited top 10% publications rose by 12% to 1 493 (1 332). In total, the university published 2166 (2165) international refereed articles in scientific journals. Competitive research funding obtained by the university rose by 7% to €91 (85) million, mainly due to an increase in funding acquired from the Academy of Finland to strengthen the profiling of universities and competitive EU funding.



#### **Quality of publications**

Share of Aalto University publications that belong to the top 10% most highly cited publications in the world in the same subject area. This indicator has been used since 2015.

Figures in parenthesis refer to 2017 unless otherwise mentioned.

Aalto University participated in six (7) national Centres of Excellence during 2018, and two (2) Academicians of Science worked at the university. The quality of research conducted at the university is also reflected in the fact that the university has 26 (26) recipients of research grants from the European Research Council (ERC), five (5) Academy professors, 41 (40) Academy researchers, and seven (9) Finland Distinguished Professor programme (FiDiPro) professors and fellows.

In the Aalto University Research, Art and Impact Assessment (RAI2018), international experts stated that the departments of Aalto University are of excellent international standard. They highlighted in particular the enthusiastic and pro-development approach, research and teaching infrastructure, the tenure track career system and the studentdriven entrepreneurship ecosystem.

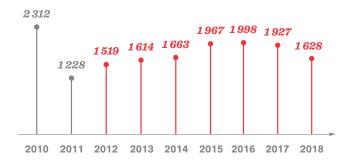
According to the Academy of Finland's 'State of scientific research 2018' report, the level of scientific research has risen in Finland during the 2010s. In national comparisons, Aalto University's research stood out in regards to internationalisation and impact of scientific publications.

The university received funding to develop five research infrastructures through the Academy of Finland's FIRI application process in 2018. Academy of Finland granted infrastructure funding to Bioeconomy, RawMatTERS Finland, Future Wireless Communication Networks, micro- and nanotechnologies infrastructure OtaNano, and Aalto Ice Tank.

During 2018, the Academy of Finland launched a Flagship Programme that promotes excellent research and supports future knowledge and sustainable solutions to societal challenges and advances economic growth by developing new business opportunities. The Academy of Finland selected six competence clusters to be funded under the programme. Aalto University coordinates the Finnish Centre for Artificial Intelligence and the Competence Centre for the Materials Bioeconomy flagships and participates in the Photonics Research and Innovation flagship.

#### Education

In 2018 a total of 1 218 (1 178) students completed a bachelor's degree, 1 628 (1 927) a master's degree, and 263 (256) a doctorate. The number of full-time equivalent bachelor's and master's degree students was 10 881 (10 646). The total number of degree students was 17 450 (17 345). Degree students earned a total of 483 979 (478 090) ECTS study credits, equivalent to an average of 33 (33) study credits per every active degree student. Foreign students totalled 3 645 (3 555), of which 73% (72%) were studying for a full degree. There was an increase in the university's applicant numbers for both bachelor's and master's studies. The number of international applicants for bachelor's studies increased significantly due to new English degree programmes in technology.



#### Master's degrees

The number of master's degrees was exceptionally large in 2010 and small in 2011 due to degree reform in the field of science and technology.

The number of doctorates exceeded the target set by the Ministry of Education and Culture, while the numbers of bachelor's and master's degrees were below the target. The exceptionally large number of bachelor's degrees completed in 2016, due to degree reform, continued to affect on the number of degrees completed in 2018. The proportion of students who completed at least 55 credits during the year saw another slight increase. The systematic work done to improve teaching quality was reflected in the improved results obtained in the national bachelor feedback.

The strategic development of Aalto University's teaching and learning continued with four main themes. The study programmes development project focused on qualitative development and promoting multidisciplinarity in the university's study programmes. The student wellbeing project implemented low-threshold service solutions, such as Starting Point of Wellbeing, as well as tools and courses for promoting learning skills. For developing worklife skills, challengebased learning solutions were tested out in all academic fields of Aalto University. In the online learning project A!OLE, the teacher network for fully or partially digitalised course implementations saw further expansion, and the courses have now reached a significant portion of Aalto students. In addition to strategy projects, the university has continued its long-term work to streamline study paths and promote ontime completion of studies.

#### **Artistic activities**

QS World University Rankings ranked Aalto University seventh (9th) in the field of art and design and 42nd (46th) in the field of architecture.

In 2018, the range of university-wide art studies were expanded: a total of 25 (21) courses were held during the year, with 1 152 (1 340) credits being earned by students. The courses are open to all Aalto University students.

Aalto University's international prominence in the fields of art, design and architecture continued, with the university receiving a number of awards and recognitions. The international success of the university's students was seen again in a range of fields, including fashion and textiles, game design and new media.

Figures in parenthesis refer to 2017 unless otherwise mentioned.

#### Impact

The education of new professionals and extensive collaboration with companies and other stakeholders are central elements of Aalto University's societal impact. There continues to be high demand for Aalto University graduates in the Finnish labour market. The university has intensified collaboration with its strategic partners and has sought new forms of collaboration after reductions were made in Business Finland funding. Collaboration with companies brought funding to the university amounting to  $\pounds 12$  million).

During the year, the university processed 151 (138) innovation proposals, filed 46 (52) patent applications, and realised 34 (50) transfers of technology or competence to businesses. Patent applications have increased during the past years, and in 2017 the amount was exceptionally high due to patent process improvement. An active innovation ecosystem has formed around Aalto University, which has been recognised as both nationally significant and internationally competitive. Numerous new companies are founded every year by students and faculty alike. Examples of Aalto University's studentdriven entrepreneurship activities include Kiuas, selected as Finland's best business accelerator, the internationally renowned startup event Slush and Junction, Europe's leading hackathon event, with a global concept JUNCTIONx, that was launched in early 2018.

Aalto University's strategic partners also include public sector actors such as other universities and research institutes, and international innovation networks. One example of these is the Knowledge and Innovation Communities of the European Institute of Innovation and Technology, through which the university took new steps forward as Aalto was a founding partner of two winning consortia to establish Urban Mobility and Manufacturing Communities. The European Space Agency (ESA) has located a Business Incubation Centre at Aalto University, and the UN's Technology and Innovation Laboratory (UNTIL) operates in the university's facilities at A Grid. Aalto University aims to increase its societal impact by creating networks of international and national actors.

Aalto University provides executive education and continuing education through Aalto University Executive Education Oy (Aalto EE). In 2018, Aalto EE ranked 39th (46th) in the Financial Times Executive Education Ranking, putting it in the top 1% of executive educators in the world.

### Governance

The main governing bodies of the university are the board, the president, the provost, the vice presidents, the Academic Affairs Committee, and the deans of the university's schools.

The board consists of seven external members, including the chair and vice chair. The board is responsible for decisions concerning the university's strategy, the annual operating plan and budget, and for approving the financial statements and the university's regulations. The board appoints the president, the provost, the vice presidents, the deans and other personnel reporting directly to the president and the provost. The board ensures that the university's operations are organised appropriately and that its assets are invested in a systematic and productive manner. The university board had five meetings during the year.

The Aalto University Academic Affairs Committee appointed **Ilkka Kivimäki** as a member of the Aalto University Board starting 1 January 2019. Chair of the Board **Anne Brunila** left the board in 2018, having been a member for the maximum time permitted by the Aalto University Foundation Constitution. The Aalto community wishes to thank Anne Brunila for her long-term and uncompromising work for the university.

The president leads the operation of the university in accordance with the Universities Act, the values of the university community, the strategy approved by the board and the orders and instructions provided by the board. The president leads the long-term strategic development and partnerships of the university.

The provost substitutes the president, supports the president in the strategic planning, the appointments of professors and the planning of resources, and leads all processes related to teaching, research and societal impact. The academic vice presidents report to the provost.

In 2018, the Aalto University Board appointed three vice presidents, each for a five year term: Vice President for Education at Tampere University of Technology **Petri Suomala** was appointed as Vice President for Education as of 1 September 2018, Vice Dean for Research at the School of Arts, Design and Architecture, Professor **Ossi Naukkarinen**, was appointed as Vice President for Research as of 1 November 2018, and Dean of the School of Chemical Engineering, Professor **Janne Laine**, was appointed as Vice President for Innovation as of 1 January 2019.

The Aalto University Board appointed **Kristiina Kruus**, Research Professor at the Technical Research Centre of Finland (VTT), as Dean of the School of Chemical Engineering for a five-year term starting on 1 December 2018.

The University Academic Affairs Committee is a multimember executive body noted in the Universities Act. The Academic Affairs Committee is responsible for matters such as curricula, degree requirements, the principles used for admitting students, and for establishing the bodies necessary to govern the university's research and teaching. In addition, it appoints the Nomination Committee and the members of the board based on proposals made by the Nomination Committee.

The board's Nomination Committee has five members, three of whom represent the State of Finland and two other founding members.

The university is organised into six schools and shared service units. Led by the deans, the university's schools consist of departments, each led by a department head. The university's schools are responsible for teaching and research and are academically independent within the framework established by the university's strategy, guidelines, and annual operating plan and budget. The university and its subsidiaries form the Aalto University Group, with the board and president being responsible for its governance. The president appoints university representatives to the annual meetings of subsidiaries, during which the board members of these companies are elected. The boards of the subsidiaries elect their CEOs, who are responsible for the operations of these companies.

### Personnel

The number of the university's personnel was 4 052 full-time equivalents (3 947 in 2017 and 4 066 in 2016). A total of 60% (60%, 61%) were employed in teaching and research positions, 10% (10%, 9%) were degree students working as teaching and research assistants and 30% (30%, 30%) belonged to other personnel groups. In total 21% (21%, 23%) of the personnel were doctoral students.

A total of 37% (39%, 40%) of the personnel held a permanent employment contract and 86% (85%, 85%) worked full-time. Women accounted for 39% (39%, 38%) of all personnel. A total of 16% (16%, 16%) will reach the age of 65 within the next 10 years. The share of non-Finnish personnel was 29% (27%, 23%), which indicates the university's strong international focus.

At the end of 2018, the university had 389 (386, 386) professors, of whom 150 (139, 140) had fixed-term contracts. In total, 20% (20%, 19%) of professors were women. Approximately 36% (35%, 35%) of professors will be 65 or over within the next 10 years.

The average number of personnel employed by the Aalto University Group was 4 212 (4 112, 4 201). The University Group's personnel costs totalled  $\in$ 240 million ( $\notin$ 228,  $\notin$ 237 million), of which the university accounted for  $\notin$ 228 million ( $\notin$ 218 million,  $\notin$ 228 million). Salaries and other remuneration paid to members of the board, the president, and members of the boards of Aalto University Group companies and their CEOs totalled  $\notin$ 1.3 million ( $\notin$ 1.2 million,  $\notin$ 1.4 million).

### Campus

The university carried out its long-term campus development programme by completing the construction of the new Väre building for use by the School of Arts, Design and Architecture. In addition, construction of the new A Bloc shopping centre reached completion and has considerably broadened the range of commercial services available in the Otaniemi area. The final stages of construction work of the new Business School building were completed in early 2019, and the School of Business moved into the facilities in February 2019. The A Grid startup centre, located in the former facilities of the School of Electronic Engineering at Otakaari 5, also opened its doors during 2018. The facilities of the new City of Espoo kindergarten and primary school at Lämpömiehenkuja 2 were completed, and construction work began on the secondary school to be built at Lämpömiehenkuja 3. At Vuorimiehentie 2, a development project was initiated together with the Geological Survey of Finland and VTT for the construction of Raw Material Hub research centre.

At the end of December, a total of 47 500 (29 500) square metres of the university's facilities were rented out to university partners. The most notable tenants include the City of Espoo, VTT Technical Research Centre of Finland, and Fortum.

Due to the space-saving programme, the university reduced its facility usage by 11% (9%) in 2018. The university's activities were centralised onto the Otaniemi campus when the facilities of the Arabia campus were vacated in summer 2018. For its own use the university had facilities totalling 228 000 m<sup>2</sup> (256 000 m<sup>2</sup>), with the Otaniemi campus accounting for 203 000 m<sup>2</sup> (210 000 m<sup>2</sup>), the Töölö campus for 20 000 m<sup>2</sup> (21 000 m<sup>2</sup>), and other sites for 4 000 m<sup>2</sup> (4 000 m<sup>2</sup>). Facility costs for the university totalled &52 million (&48 million) for the year.

In order to continue with flexible campus development, university properties were demerged at the start of 2018 into mutual real estate companies managed by Aalto University Properties Ltd.

### Endowment

Aalto University has a long-term endowment strategy designed to support the implementation of its strategy. The goals of the endowment management are to provide a steady and predictable income to fund university operations as well as to preserve and accumulate the real value of the endowment capital in the long term. Preserving the real value of the endowment capital secures equality across generations by maintaining the purchasing power of the endowment capital and the funding it provides to the university's operations over time.

At the end of the year, the market value of the endowment portfolio was €983 million (€1 051 million). In 2018, a total of €15 million of cumulated real return from endowment was used to fund university operations. The endowment portfolio was increased in size during the year through the €7.5 million transfer made to the Tenure Track fund. The average annual return on the endowment portfolio in 2018 was 3.9% after expenses since the inception of operations. The annual return on the endowment portfolio in 2018 was -6.0% (6.5%) after expenses. At the end of 2018, 37% (44%) of the portfolio was held in fixed income instruments, 52% (52%) in equities and 11% (4%) in alternative risk.

Aalto University is committed to complying with the principles for responsible investment. The university is a member of Finland's Sustainable Investment Forum (FINSIF).

Figures in parenthesis refer to 2017 and 2016 unless otherwise mentioned.

## Sustainable development

Sustainable development is a central part of Aalto University's strategy and shared values. The university takes sustainable development and responsibility into account in teaching, research and other operations. Campus development also has a key role in promoting sustainable development.

A number of significant sustainable development research projects began in 2018. In response to an invitation from the European commission, Outotec and Aalto University together coordinate research on recycling within the European battery industry. Aalto University received Academy of Finland's flagship funding for Materials Bioeconomy Competence Centre, which develops new bio-based materials to ensure sustainable development.

The university continued to participate actively in national and international networks. Aalto University became the first university in Finland to sign the international Sustainable Development Goals (SDG) Accord for universities. By signing the document, Aalto committed to advancing the UN goals for sustainable development as part of its teaching, research, innovation activities, and campus development.

### **Risk management**

Risk management is an essential part of the management system of Aalto University, and it supports the realisation of the university's strategic and operational goals. To reach strategic and operational goals, the university mainly accepts the risks that are relative to the benefit to be gained and to the likelihood and extent of damages. For unrewarded risks, the strategy is avoidance or, when appropriate, cost-effectively mitigating risks to an acceptable level.

The main risk in Aalto University's operating environment is related to the safeguarding of funding for the university's operations in the long term. The unpredictability of public funding for the university sector can endanger the university's long-term academic activities. The uncertainty of financial markets can lead to risks that can have a negative impact on the university's endowment portfolio and spending policy for endowment returns, thus also impacting funding in the longterm.

The most significant stage of the university's campus investment programme is reaching its end, and the associated risks have decreased. As a consequence of Finland's economic situation and the excess supply of business premises in the Helsinki metropolitan area, it may become difficult to find external parties for renting out and selling facilities that have been vacated by the university due to the ongoing facility savings programme.

The principle underlying the university's property insurance cover is to insure key assets with a relatively high level of own risk. The insurances secure all assets that are essential and material for the university's operations. Aalto

Figures in parenthesis refer to 2017 and 2016 unless otherwise mentioned.

University also has liability insurance cover in respect of possible damage caused by its operations to third parties, as well as management liability insurance cover in respect of financial damage that might result from the actions of the university's management and the members of the board and the boards of its subsidiaries.

### **Financial position**

The university's pro forma operative income totalled €347 million, up 1% from the €345 million recorded in the previous financial year (€353 million in 2016). The main sources of income were government funding totalling €219 million (€229 million, €237 million) and project grants: €51 million (€45 million, €40 million) from the Academy of Finland, €21 million (€19 million, €21 million) from the European Union, and €15 million (€18 million, €23 million) from Business Finland.

The university's pro forma operative expenses were €365 million, up 7% from the €341 million in the previous year (€358 million in 2016). Personnel and facility expenses formed the majority of expenses. Personnel expenses accounted for 62% (64%, 63%) and facility expenses 14% (14%, 18%) of operative expenses. Personnel expenses rose by 5% from the previous year, primarily due to an increase in the number of personnel. Facility expenses rose by 9% from the previous year. The most important factors contributing towards the rise in facility expenses were the mandatory provision required by the Accounting Act applied to rental expenses for long-term rented facilities which are no longer in use by the university, and the increased maintenance charges since the completion of Väre.

The university's pro forma operative deficit was €18 million (surplus €4 million, deficit €5 million).

The surplus in fundraising was  $\notin 2$  million ( $\notin 11$  million,  $\notin 10$  million). The decline in donations is mainly due to the end of a government capitalisation campaign in 2017, which attracted an exceptionally high level of donations. Fundraising income consisted of donations received, and expenses were mainly personnel expenses and service expenses. In the income statement, the capitalisation of donations raised to special purpose funds is deducted in Change in special purpose funds.

The deficit recorded in investment and financing activities totalled €64 million. In accordance with current accounting standards, the surplus/deficit for investment and financing activities includes both realised and unrealised gains and losses. The change in recognition method in 2018 impacted investment and financing activities' deficit by -€88 million compared to previous recognition method. The deficit for investment activities in 2018 primarily resulted from the unrealised change in the value of the endowment portfolio, which resulted from negative financial market development at the end of the year. Realised gains were obtained from changes in portfolio allocation and individual investment funds.

The net deficit for the university's financial year was €85 million (surplus €92 million, €16 million), which is -25% (27%, 4%) of the operative income.

The university's balance sheet totalled €1 669 million (€1 657 million, €1 545 million).

In assets, the book value of investments decreased to  $\pounds 1007$  million ( $\pounds 1113$  million,  $\pounds 1127$  million) due to a decline in the market value of investments. Long-term receivables increased to  $\pounds 474$  million ( $\pounds 371$  million,  $\pounds 260$  million) as a consequence of the increase in the Group's internal real estate loans.

In equity and liabilities, the capital reserve increased to €441 million (€437 million, €412 million) as a result of the capitalisation received from the Ministry of Education and Culture. Owing to the switch to the IFRS 9 standard, the capital of the fair value reserve was recorded as unrestricted funds (€99 million in 2017, €138 million in 2016). Special purpose funds remained at €59 million (€59 million, €47 million). Unrestricted funds increased to €260 million (€245 million, €138 million). The most significant changes to unrestricted funds were the transfer of the fair value reserve to unrestricted funds and the covering of the investment activities deficit from unrestricted funds. Longterm liabilities increased to €307 million (€274 million, €268 million) as a consequence of new bank loans obtained. Short-term liabilities increased to €138 million (€81 million, €65 million) as a result of implementation of the group's internal bank. In the internal bank, the cash assets of the foundation's subsidiaries are managed by the foundation and are foundation's liability to the subsidiaries.

In the cash flow statement, cash flow from operations fell to €11 million (€32 million, -€5 million). The cash flow from operations decreased due to increased personnel and other operational expenses as well as the decrease in government grant. Cash flow from investments was €29 million (-€57 million, -€234 million). Of the cash flow from investments, €44 million (-€14 million, €30 million) related to investment activities and -€15 million (-€14 million, -€7 million) related to teaching and research infrastructure and IT infrastructure. As a result of the implementation of the Group's internal bank, the loans provided and the internal bank balances are reported for 2018 as net amounts in cash flow from financing. Cash flow from financing was €-2 million (€22 million, €267 million). In addition to the changes brought by the internal bank, the most significant changes in cash flow from financing resulted from one-off capitalisation received from the Ministry of Education and Culture in 2017 and the increase in long-term bank loans. The university's total cash flow was €38 million (-€3 million, €28 million).

KEY FIGURES, € million	2018	2017	2016
Operative income	347	345	353
Operative surplus	-18	4	-5
Surplus from investment operations	-64	90	22
Surplus from fundraising	2	11	10
Net surplus	-85	92	16
Total cash flow	38	-3	28
Total assets	1669	1657	1545
Total equity	1221	1302	1 213
Total liabilities	446	355	332

### **Activities with related parties**

Aalto University maintains a register of its related parties, which covers all necessary, practically available information. The related parties register includes university's and its subsidiaries' decision makers and their family members, and is updated on a yearly basis.

A summary of financial activities with related parties is presented in the notes to the financial statements.

### **Aalto University Group**

Aalto University Group's total income was €418 million (€488 million) and its total expenses were €506 million (€395 million). The Group recorded a net deficit of €88 million (surplus of €93 million).

The Group's balance sheet totalled €1 671 million (€1 712 million) at the end of the year. The decrease in the balance sheet included decline in the value of the university's endowment portfolio and significant campus investments. The Group's equity ratio was 76% (79%). Cash flow from Aalto University Group's operations was €23 million (€52 million) and the cash flow from investments was -€47 million (-€86 million). Cash flow from financing was €48 million (€21 million). The Group's total cash flow was -€24 million (€13 million).

Through the demerger of Aalto University Properties Ltd, the university's properties were divided into mutual real estate companies which began their operations on 1 January 2018. At the same time, the previous a sub-group was turned into several mutual real estate companies owned directly by the university.

The sub-group Aalto University Executive Education recorded a turnover of  $\pounds 22$  million ( $\pounds 20$  million) and its net profit was  $\pounds 1.0$  million ( $\pounds 0.6$  million).

All Aalto University Group companies have prepared their own financial statements for the financial year 2018.

### Auditor

KPMG Oy Ab was the university's auditor during the financial year.

# Major events after the financial year

Following the end of the financial year, the investment markets have developed in a positive direction, with the consequence that the market value of Aalto University's endowment portfolio has risen significantly.

No other events of a material nature affecting the financial status of the Aalto University Group and its financial statements for 2018 took place between the end of the financial year and the preparation of the financial statements.

Figures in parenthesis refer to 2017 and 2016 unless otherwise mentioned.

# Financial Statements 2018

(Based on the audited Finnish version)

### AALTO UNIVERSITY FOUNDATION PRO FORMA INCOME STATEMENT, €1m

(not audited)

OPERATIVE INCOME	2018	%	2017	%	2016	%	2015	%	2014	%	2013	%	2012	%
Government funding	219	63%	229	66%	237	67%	254	68%	266	69%	275	66%	271	64%
Business Finland	15	4%	18	5%	23	6%	26	7%	31	8%	38	9%	41	10%
Academy of Finland	51	15%	45	13%	40	11%	35	10%	31	8%	34	8%	32	8%
European Union	21	6%	19	5%	21	6%	19	5%	21	5%	20	5%	20	5%
Corporate	12	4%	12	4%	13	4%	13	3%	14	4%	22	5%	26	6%
Other	24	7%	21	6%	19	5%	24	6%	23	6%	29	7%	30	7%
Transfer from special purpose funds	4	1%	1	0%	1	0%	1	0%	1	0%	2	0%	0	0%
TOTAL	347	100%	345	100%	353	100%	372	100%	389	100%	418	100%	421	100%
OPERATIVE EXPENSES														
Academic personnel	160	44%	153	45%	162	45%	172	45%	174	43%	179	43%	181	43%
Service personnel	67	18%	64	19%	65	18%	73	19%	83	21%	87	21%	86	20%
Facilities	52	14%	48	14%	65	18%	67	17%	68	17%	71	17%	66	16%
Service purchases	39	11%	29	8%	26	7%	28	7%	28	7%	35	8%	36	9%
Depreciations	10	3%	9	3%	8	2%	8	2%	7	2%	7	2%	7	2%
Other	36	10%	38	11%	32	9%	37	10%	40	10%	42	10%	48	11%
TOTAL	365	100%	341	100%	358	100%	385	100%	400	100%	420	100%	424	100%
<b>OPERATIVE SURPLUS/DEFICIT</b>	-18		4		-5		-12		-11		-2		-4	
Surplus/deficit from investment operations	-64		90		22		30		39		31		29	
Surplus/deficit from fundraising	2		11		10		1		5		5		4	
Tax	0		0		0		0		0		0		0	
Transfer to special purpose funds	-5		-13		-12		0		0		0		0	
NET SURPLUS/DEFICIT	-85		92		16		18		33		33		29	

# FOUNDATION INCOME STATEMENT, €1 000

ORDINARY OPERATIONS	Note	1.131.12.2018	1.131.12.2017
Income			
Income from grants	2	98 318	93 66'
Income from business activities	6	9 555	8 76
Other income		15 412	12 82
		123 285	115 26
Expenses			
Personnel expenses	4	227 417	216 83
Depreciation and amortization	7	10 182	934
Other expenses	5	127 451	114 67
		365 050	340 85
SURPLUS/DEFICIT FROM ORDINARY OPERATIONS		-241 765	-225 59
FUNDRAISING			
Income			
Donations		2 614	11 00-
Expenses			
Fundraising expenses		607	43
Fundraising total		2 007	10 57
SURPLUS/DEFICIT AFTER FUNDRAISING		-239 758	-215 01
INVESTMENT AND FINANCING ACTIVITIES			
Income			
Dividend income		4 291	2 89
Interest income		5 163	3 88
Profit on sale of investments		31 026	98 23
Other income		6 286	3 32
		46 766	108 34
Expenses		0.0110	
Interest expenses		3 278	4 15
Loss on sale of investments		5814	146
Other expenses		13 569 <b>22 662</b>	6 64
Changes in the fair value of investments		22 002	12 26
Changes in the fair value of investments*		-88 019	-6 04
×		00.040	90 04
Investment and financing activities total		-63 916	90 04
GENERAL GRANTS		010.144	000.00
Universities Act based government grant		219 144	229 03
SURPLUS BEFORE CHANGE IN SPECIAL PURPOSE FUNDS AND TAX		-84 530	104 05
CHANGE IN SPECIAL PURPOSE FUNDS			
Change in special purpose funds		-556	-12 21
ТАХ	8	284	21

\*) Year 2017 only the change of the fair value of derivates.

# FOUNDATION BALANCE SHEET, €1 000

	Note	31.12.2018	31.12.2017
ASSETS			
FIXED ASSETS			
Intangible assets	9		
Intangible assets		1147	1204
		1 147	1 204
Tangible assets	10		
Buildings and constructions		43	64
Machinery and equipment		31 402	27 740
Other tangible assets		229	215
Advance payments and work in progress		3 476	1 352
		35 150	29 370
Investments	12		
Shares in Aalto group companies		75 295	74 045
Shares in associated companies		3 308	3 160
Shares in jointly owned companies		3 215	3 215
Other shareholdings	13	924 746	1 032 760
		1 006 565	1 113 180
TOTAL FIXED ASSETS		1 042 862	1 143 755
CURRENT ASSETS			
Inventories			
Inventories		59	0
Receivables		59	0
Long-term receivables			
Receivables, associated companies		2 000	2 000
Loans to group companies	14	470 275	369 480
VAT compensation receivable		1780	0
Other receivables		52	0
		474 107	371 480
Short-term receivables			
Accounts receivable	15	32 445	31 887
Receivable, group companies		452	7182
Other receivables		5 088	10 534
Prepaid expenses and accrued income	15	12 989	29 139
		50 974	78 742
Cash and bank		101 129	62 907
TOTAL CURRENT ASSETS		626 268	513 129
TOTAL ASSETS		1 669 130	1 656 884

# FOUNDATION BALANCE SHEET, €1 000

	Note	31.12.2018	31.12.2017
EQUITY AND LIABILITIES			
EQUITY Endowment capital	17	280 000	280 000
Capital reserve		440 885	436762
Operating equity Fair value reserve		154 644	154 644
Special purpose funds	10	0	99 048
	18	00.405	00.011
Special purpose funds Expendable		20 485	23 311
Special purpose funds Capitalizing		39 006	35 624
Unrestricted funds	19		
Tenure Track fund		23 880	17 500
Investment Surplus fund		236 293	227 567
Other equity			
Surplus from previous years	17	48 584	25 991
Surplus/Deficit of the financial year	17	-22 438	1 583
TOTAL EQUITY		1 221 338	1 302 029
PROVISIONS		2 065	0
LIABILITIES	20		
Long-term liabilities			
Loans from financial institutions		298 571	262 500
VAT compensation liability		0	3 0 6 7
Investment grant liability		2 589	1 918
Other long-term liabilities		6122	6 115
		307 282	273 601
Short-term liabilities			
Loans from financial institutions		5 9 2 9	2 500
Advance payments		31 582	30 323
Accounts payable		9 283	11 976
VAT compensation liability		2 0 4 6	0
Liabilities to group companies		55 385	55
Other liabilities		11 652	15 425
Accrued expenses		22 568	19 165
		138 445	81 253
TOTAL LIABILITIES		445 727	354 854
TOTAL EQUITY AND LIABILITIES		1 669 130	1 656 884

# FOUNDATION CASH FLOW STATEMENT, €1 000

	1.131.12.2018	1.131.12.2017
CASH FLOW FROM OPERATIONS Surplus/Deficit from ordinary operations	-241765	-225 605
Depreciation included in the above	10182	9347
Change in net working capital	10100	0017
Change in inventories	-59	0
Change in interest-free receivables	26 904	-7 659
Change in interest-free debts	-4766	16 647
Total cash flow from ordinary operations	-4 788	-207 270
Cash flow from fundraising	1357	10 574
Received general grants		229 030
	219 144	
Paid direct taxes	-276	-218
TOTAL CASH FLOW FROM OPERATIONS (A)	10 722	32 116
CASH FLOW FROM INVESTMENTS		
Investments in tangible and intangible assets	-15 905	-14 240
Received investment grants	1146	658
Proceeds from sales of tangible and intangible assets	0	12
Investments in financial assets	-435 548	-404 538
Proceeds from sales of financial assets	480 701	392 610
Other net proceeds from investments activities	-1108	-2 083
Granted loans	0	-28 980
TOTAL CASH FLOW FROM INVESTMENTS (B)	29 286	-56 562
CASH FLOW FROM FINANCING		
Changes in equity	4 123	24 285
Changes in the loan portfolio		
Group net lending*	-45 410	0
Paid short-term loans	-2 500	-2 500
Withdrawn long-term bank loans	42 000	0
TOTAL CASH FLOW FROM FINANCING (C)	-1 787	21 785
CHANGE IN CASH AND BANK (A+B+C)	38 222	-2 661
Cash and bank beginning of year	62 907	65 568
Cash and bank end of year	101 129	62 907
CHANGE IN CASH AND BANK	38 222	-2 661

\*) Aalto Group launched an internal bank on January 1, 2018. Changes in group's internal debts and receivables are presented here.

# **GROUP INCOME STATEMENT**, €1 000

	Note	1.131.12.2018	1.131.12.2017
ORDINARY OPERATIONS			
Income from grants	2	98 388	93 731
Income from business activities	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	36 847	31 353
Other income		15 865	18 329
		151 100	143 412
Expenses			
Personnel expenses	4	238 682	227 149
Depreciation and amortization	7	27 885	24 484
Other expenses	5	130 933	116 192
		397 501	367 825
Profit/loss attributable to minority interests in associated companies		-10	-20
SURPLUS/DEFICIT FROM ORDINARY OPERATIONS		-246 411	-224 433
FUNDRAISING			
Income			
Donations and other income		2 614	11 004
Expenses			
Fundraising expenses		607	430
Fundraising total		2 007	10 574
Fundraising total		-244 404	-213 859
SURPLUS/DEFICIT AFTER FUNDRAISING			
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES		-244 404	-213 859
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income		<b>-244 404</b> 41 343	<b>-213 859</b> 104 610 7 547
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses		-244 404 41 343 15 027	<b>-213 859</b> 104 610 7 547 -6 043
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments		-244 404 41 343 15 027 -88 019	<b>-213 859</b> 104 610 7 547 -6 043
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments Investment and financing activities total		-244 404 41 343 15 027 -88 019	-213 859 104 610 7 547 -6 043 91 020
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments Investment and financing activities total GENERAL GRANTS		-244 404 41 343 15 027 -88 019 -61 703	-213 859 104 610 7 547 -6 043 91 020 229 030
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments Investment and financing activities total GENERAL GRANTS Universities Act based government grant		-244 404 41 343 15 027 -88 019 -61 703 219 144	-213 859 104 610 7 547 -6 043 91 020 229 030
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments Investment and financing activities total GENERAL GRANTS Universities Act based government grant SURPLUS BEFORE CHANGE IN SPECIAL PURPOSE FUNDS		-244 404 41 343 15 027 -88 019 -61 703 219 144	-213 859 104 610 7 547 -6 043 91 020 229 030 106 191
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments Investment and financing activities total GENERAL GRANTS Universities Act based government grant SURPLUS BEFORE CHANGE IN SPECIAL PURPOSE FUNDS CHANGE IN SPECIAL PURPOSE FUNDS	8	-244 404 41 343 15 027 -88 019 -61 703 219 144 -86 963	-213 859 104 610 7 547 -6 043 91 020 229 030 106 191 -12 210
SURPLUS/DEFICIT AFTER FUNDRAISING INVESTMENT AND FINANCING ACTIVITIES Income Expenses Changes in the value of investments Investment and financing activities total GENERAL GRANTS Universities Act based government grant SURPLUS BEFORE CHANGE IN SPECIAL PURPOSE FUNDS CHANGE IN SPECIAL PURPOSE FUNDS Change in special purpose funds	8	-244 404 41 343 15 027 -88 019 -61 703 219 144 -86 963 -556	<b>-213 859</b> 104 610

# **GROUP BALANCE SHEET, €1 000**

	Note	31.12.2018	31.12.2017
ASSETS			
FIXED ASSETS		0.007	1 007
Intangible assets Tangible assets	<u> </u>	3 007	1 307
Land and water areas	10	40 033	39 022
Buildings and constructions		414 443	310 305
Machinery and equipment		57 365	48 492
Other tangible assets		5 177	2 892
Advance payments and work in progress		48 324	104 820
Investments	12	565 341	505 531
Shares in associated companies	12	3734	5 415
Other shareholdings	13	931 843	1 036 339
		935 577	1 041 754
TOTAL FIXED ASSETS		1 503 925	1 548 592
CURRENT ASSETS			
Inventories		59	16
Receivables		0.100	1 000
Long-term receivables Short-term receivables		3 139	1277
Accounts receivable		34 494	34 537
Other receivables		7 481	13 001
Prepaid expenses and accrued income	15	13 406	30 136
		55 381	77 674
Cash and bank		108 219	84 074
TOTAL CURRENT ASSETS		166 798	163 041
TOTAL ASSETS		1 670 723	1 711 633
EQUITY AND LIABILITIES EQUITY	17		
Endowment capital	17	280 000	280 000
Capital reserve		440 885	436 762
Operating equity		154 644	154 644
Fair value reserve		0	99 048
Special purpose funds	18	59 491	58 934
Unrestricted funds	19	260 173	245 067
Surplus from previous years	17	76 637	51 583
Surplus/Deficit of the financial year TOTAL EQUITY	17	-25 562	3 239
		1 246 268	1 329 277
MINORITY INTERESTS		0	94
PROVISIONS		2 119	68
LIABILITIES	20		
Long-term		0000	
Loans from financial institutions		306 175	271 530
Advance payments Other long-term liabilities		<u>2 589</u> 6 122	<u>4 986</u> 6 115
Total long-term liabilities		314 885	282 631
Short-term		011000	202 001
Loans from financial institutions		6 362	3 101
Advance payments		35 616	33 855
Accounts payable		16 891	15 116
Accrued tax		6 867	7 543
Other short-term liabilities		16 298	18 360
Accrued expenses		25 418	21 588
Total short-term liabilities TOTAL LIABILITIES		107 452 422 337	99 563 382 194
TOTAL EQUITY AND LIABILITIES		1 670 723	1 711 633
TOTAL LOUTT AND LIADILITIES		1010123	1711033

# GROUP CASH FLOW STATEMENT, €1 000

	1.131.12.2018	1.131.12.2017
CASH FLOW FROM OPERATIONS		
Surplus/Deficit from ordinary operations	-246 411	-224 413
Depreciation included in the above	27 885	24 484
Change in net working capital		
Change in inventories	-44	9
Change in interest-free receivables	20 432	-4 825
Change in interest-free debts	2 630	17 379
Total cash flow from ordinary operations	-195 508	-187 365
Cash flow from fundraising	1357	10 574
Received general grants	219 144	229 030
Paid direct taxes	-1 650	-243
TOTAL CASH FLOW FROM OPERATIONS (A)	23 343	51 996
CASH FLOW FROM INVESTMENTS		
Investments in tangible and intangible assets	-89 396	-85 997
Received investment grants	1146	658
Proceeds from sales of tangible and intangible assets	33	21 141
Investments in financial assets	41924	-22 102
Other net proceeds from investment activities	-1 149	-33
TOTAL CASH FLOW FROM INVESTMENTS (B)	-47 442	-86 333
CASH FLOW FROM FINANCING		
Changes in equity	4 123	24 285
Changes in the loan portfolio		
Paid short-term loans	-2 500	-32
Withdrawn long-term loans	42 000	0
Paid long-term loans	-1 139	-3 059
TOTAL CASH FLOW FROM FINANCING (C)	48 245	21 194
CHANGE IN CASH AND BANK (A+B+C)	24 145	-13 143
Cash and bank beginning of period	84 074	100 796
Cash and bank end of period	108 219	87 653
CHANGE IN CASH AND BANK	24 145	-13 143

## **Aalto University Foundation**

Aalto University Foundation forms a group, domiciled in Helsinki.

The annual statements and financial reports of the Aalto University Foundation are available at Aalto University Foundation, Otakaari 24, 02150 Espoo.

# Changes in accounting principles

Aalto University Foundation started to use IFRS 9 standard in accordance with the Accounting Act 5.2a § on the recognition of financial assets on 1 January 2018. The standard concerns the classification and valuation of financial assets and their recognition. All changes in the fair value of financial assets are booked in income statement. Financial liabilities are booked at amortized cost, except for derivative liabilities that are booked at fair value in income statement. The income statement's reference information for the year 2017 is not updated accordingly.

The balance of Fair value reserve at 31 December 2017 EUR 99.047.892 was transferred to Surplus from previous years.

The transition to IFRS 9 impacted the foundation's 2018 profit and loss by EUR -88.443.000 compared to previous recognition method. This was due to the change of recognizing the changes in valuations of fund investments in the income statement.

#### Accounting principles

Aalto University Foundation's accounting complies with the principles laid down in the Finnish Accounting Act (1336/1997) and the Accounting Code for Universities (1/500/2013) issued by the Ministry of Education and Culture (MoE). Financial assets and liabilities are valued at fair value through income statement or amortized cost in accordance with IFRS 9. Notes to financial assets and liabilities are presented in accordance with IFRS 7 where appropriate.

#### Valuation of fixed assets

Fixed assets have been valued at the original acquisition cost deducted by accumulated depreciation according to plan. Depreciation according to plan has been calculated from intangible assets according to straight-line depreciation and from tangible assets based on straight-line depreciation or declining depreciation. Minimum value for activating fixed asset to balance sheet is €10 000.

Depreciation according to plan categories are:

Asset group	Depreciation method	Period
Intangible assets	Straight-line depreciation	4–10 years
Buildings	Straight-line depreciation	23-40 years
Longstanding	Straight-line depreciation	10–15 years
teaching and		
research equipment	t,	
heavy machinery		
Equipment,	Straight-line depreciation	4–5 years
machinery and	or declining depreciation	/25%
furniture		

#### Valuation of inventories

Inventories are valued in the balance sheet at acquisition cost or net realizable value if lower.

#### Valuation of financial assets

Financial assets are valued at the market value.

#### **Unrestricted funds**

Investment and financing activities' surplus is transferred to the funds yearly, before approving the financial statements. The board decides on the use of the funds to cover the university's activities.

#### The fair value hierarchy

The fair value hierarchy of financial assets and liabilities valued at fair value is divided into three hierarchical levels with generally used calculation models.

Level 1: Fair values are based on quoted market prices of identical assets or liabilities.

Level 2: Fair values are to a significant extent based on other information than those used in level 1. Fair values are based on directly or indirectly verifiable prices or calculated based on market price components.

Level 3: Fair values are based on information on assets or liabilities that are not based on verifiable market information, for instance private equity fund.

#### **Financial assets and liabilities**

Aalto University Group reports financial assets and liabilities according to the principles below.

Financial assets are valuated according to following valuation principles:

Group of financial assets	Instruments	Valuation principle
1. Financial assets at fair value through profit or loss	Fund investments, interest, electricity and currency derivatives	Fair value, changes in value are recognized in profit or loss
2. Loans and other receivables	Sale and loan receivables, fixed- term deposits and other similar receivables	Amortised cost

Classification is made in connection with the initial acquisition of financial assets based on the purpose of the acquisition. If an item is not valued at fair value through profit or loss, transaction costs are included in the original book values of financial assets.

Financial liabilities are valuated according to following valuation principles:

Group of financial liabilities	Instruments	Valuation principle
1. Financial liabilities at fair value through profit or loss	Interest, electricity and currency derivatives	Fair value, changes in value are recognized in profit or loss
2. Financial liabilities recognized at amortized cost	Bank loans, bonds	Amortised cost

Costs originated from current liabilities are recognized as an expense in the financial period during which they incurred.

#### **Derivate contracts**

In 2018 the university employed interest rate swaps, electricity derivatives and FX forward exchange agreements. Derivatives are not subject to hedge accounting. Derivatives are included in the income statement and both realised and unrealised profits and losses are included in the year they first arise. In the balance sheet the fair values of the derivatives are included in short term or long-term liabilities or receivables. The cash collateral of derivative agreement is shown in receivables.

# Value added tax compensation receivables and liabilities

According to the Universities Act the Ministry of Education and Culture shall compensate to the universities the value added tax included in the cost incurred by the universities in the provision of educational services and in procurement and facility rents relating to research other than commercial research. During the financial year the Foundation has followed net procedure as regards to the VAT. The receivables relating to the VAT compensation have been calculated according to the principles set in the Accounting Code for Universities.

#### **Revenue recognition**

The revenue from ordinary operations of the university is recognized as a percentage of completion using cost to cost method. The non-invoiced turnover of the subsidiaries involved in business transactions is recorded in the accounts according to estimated level of completion of the deliverable. The corresponding receivable is recorded in the accrued income. Received advance payments are recorded in the balance sheet as short-term debts. The revenue from educational programs is recorded as income in proportion of number of training days provided.

#### **Business activities**

Business activities are operations that according to tax authorities are subject to corporate income tax. In accounting all projects that fulfill the business activity characteristics defined by tax authorities have been classified as business activities.

#### **Statutory pension**

Statutory pension for employees born before 1 January 1980 and transferred from the three earlier universities has been arranged through Keva and for other employees in an external pension insurance company. Pension fees are expensed according to accrual basis.

#### Items in foreign currencies

Receivables and liabilities in foreign currencies have been translated into euro using the European Central Bank's rates at the financial statement closing date. Events realized during the financial year have been translated into euros using the transaction date's exchange rates.

#### Management compensation

The management compensation includes salaries and other compensation paid to the members of the foundation board of trustees and the president and for the board members and CEO's of the group subsidiary companies.

#### Pro forma income statement

A Pro forma income statement is included in the Financial Statements. In order to give a better overview of the financials, Pro forma income statement does not follow the official income statement structure. Pro forma income statement is not audited.

# Accounting principles and extent of the consolidated accounts

The group consolidation is done according to the acquisition cost method.

Associated companies Otahalli Oy (25,0%) and Asunto Oy Kartanontanhua (31,45%) have not been consolidated in the group accounts as consolidation is not necessary to give true and fair view of the financial situation of the Aalto University Foundation Group. The Hamilton Lane Aalto Fund SICAV S.à.r.l fund acts as a fund of investment funds, hence it is included in investments in balance sheet, like other mutual funds. The company's financials are not consolidated in to financial statements line by line. Consolidation would not substantially improve the accuracy and adequacy of information.

Internal business operations, internal receivables and liabilities, mutual ownership as well as internal profit sharing have been eliminated.

The income statement of the foreign group company has been converted into euros with ECB's average exchange rate for the financial year. Balance sheet has been converted into euros with the exchange rates at the end of the financial year. Differences in exchange rates and elimination of shareholding caused by conversions are recorded in Surplus of the financial year.

# NOTES TO INCOME STATEMENT, €1 000

	Foundation 2018	Foundation 2017	Group 2018	Group 2017
1. TOTAL INCOME AND EXPENSES				
Total income	399704	463 912	417 629	488 328
Total expenses	485 075	372 287	506 124	395 015
Difference	-85 370	91 625	-88 494	93 313
2. GRANT INCOME	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Business Finland grants	15 186	18 207	15 253	18 271
Academy of Finland grants	50 791	45 076	50 791	45 076
European Union grants	21 265	18 688	21 265	18 688
Other grants	11 076	11 695	11 079	11 695
Total	98 318	93 667	98 388	93 731
	30 010	30 007	30 000	50701
3. INCOME STATEMENT BY FIELD OF OPERATION	Foundation 2018	Foundation 2017		
Education Income				
Income from grants	5 402	4 774		
Income from business activities	521	447		
Other income	783	666		
Other income	<b>6 706</b>	5 887		
Expenses	0100	0.001		
Personnel expenses	26 244	26 819		
Depreciation	1333	1334		
Other expenses	6 981	6 6 3 5		
Share of common expenses	25 308	25 243		
	59 867	60 032		
Education total	-53 161	-54 145		
Research				
Income				
	0.0.614	96.020		
Income from grants	92 614	86 920		
Income from business activities Other income	<u>8 933</u> 13 419	<u>8 132</u> 12 133		
	114 966	12 133		
Expenses	114 500	107 105		
Personnel expenses	131 454	123 465		
Depreciation	6 678	6 142		
Other expenses	34 966	30 547		
Share of common expenses	126 764	116 213		
	299 862	276 367		
Research total	-184 896	-169 182		
Automotion				
Artistic activities				
Income	000			
Income from grants	228	39		
Income from business activities	22	4		
Other income	33 <b>283</b>	5 <b>48</b>		
Expenses	203	40		
Personnel expenses	025	599		
Depreciation	935 48	30		
Other expenses	48 249			
Share of common expenses		148		
Share of common expenses	902 <b>2 133</b>	564 <b>1 341</b>		
Artistic activities total	-1 850	-1 293		
Artistic activities total	-1 050	-1 295		
Societal impact				
Income				
Income from grants	820	1967		
Income from business activities	79	184		
Other income	119	274		
	1 018	2 425		
Expenses				
Personnel expenses	1 3 9 4	2 033		
Depreciation	71	101		
Other expenses	371	503		
Share of common expenses	1344	1913		
	3 180	4 550		
Societal impact total	-2 162	-2 125		

Common expenses		
Personnel expenses	67 381	64 597
Depreciation	2 053	1741
Other expenses	84 884	77 595
-transferred to functions	-154 319	-143 933
Total common expenses	0	0

4. PERSONNEL EXPENSES	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Salaries and other compensations	192 780	182 919	201 865	191 395
Pension expenses	31 129	29 314	32 933	30 859
Other social expenses	4 388	5 279	4 765	5 573
Total	228 297	217 512	239 563	227 828

5. OTHER EXPENSES	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Materials and supplies	14 378	14974	21746	23 515
Facility expenses	51984	47 668	21938	17 623
Travel expenses	11 188	11 037	11426	11 350
Services	39 634	29 217	54 927	43 865
Other expenses	10 940	12 534	21568	19756
Total	128 124	115 429	131 605	116 110

#### 6. PROFIT AND LOSS STATEMENT

FOR BUSINESS ACTIVITIES	Foundation 2018	Foundation 2017
Subject to corporate income tax		

NET SALES	9 555	8 766
Materials and services		
Materials and supplies	238	179
External services	484	443
	721	622
Personnel expenses		
Salaries and other compensations	2 289	2 099
Pension expenses	377	353
Other social expenses	731	711
	3 396	3 163
Depreciations	8	30
Other expenses	4 023	3 980
PROFIT BEFORE TAXES AND APPROPRIATIONS	1 407	970
Тах	286	197
NET PROFIT	1 121	773

7. DEPRECIATION AND AMORTIZATION	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Depreciation according to plan				
Intangible assets	277	217	277	218
Goodwill	0	0	183	0
Buildings and constructions	21	24	14 080	12 432
Machinery and equipment	9 882	9 105	13 015	11 634
Other tangible assets	2	1	284	60
Additional depreciation	0	0	46	141
Total	10 182	9 347	27 885	24 484
8. TAX	Foundation 2018	Foundation 2017	Foundation 2018	Group 2017
Tax	284	218	713	164
Change in deferred tax	0	0	-95	499
Total	284	218	617	663

# NOTES TO BALANCE SHEET, €1 000

9. INTANGIBLE ASSETS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Intellectual property rights				
Acquisition value 1 Jan.	2 256	1923	2 252	1941
Increases	272	335	274	313
Decreases Acquisition value before depreciation 31 Dec.	-52 <b>2 476</b>	-2 <b>2 256</b>	-52 <b>2 475</b>	-2 2 252
· · ·	1.050		1 0 0 0	
Total depreciation 1 Jan. Depreciation for the financial year	-1052 -277	-835 -217	-1030 -277	-835 -195
Total depreciation 31 Dec.	-1 329	-1052	-1307	-1030
Book value 31 Dec.	1 147	1 204	1 168	1 223
Goodwill				
Acquisition value 1 Jan.	0	0	548	461
Increases	0	0	1914	87
Acquisition value before depreciation 31 Dec.	0	0	2 462	548
Total depreciation 1 Jan.	0	0	-464	-417
Depreciation for the financial year	0	0	-159	-46
Total depreciation 31 Dec.	0	0	-623	-464
Book value 31 Dec.	0	0	1 839	84
TOTAL INTANGIBLE ASSETS	1 147	1 204	3 007	1 307
10. TANGIBLE ASSETS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Land and water areas			Group 2010	G100p 2017
Acquisition value 1 Jan.	0	0	39 023	41 116
Increases	0	0	2 856	207
Decreases	0	0	-1846	-2 301
Acquisition value before depreciation 31 Dec.	0	0	40 033	39 022
Book value 31 Dec.	0	0	40 033	39 022
Buildings and constructions				
Acquisition value 1 Jan.	164	164	392 066	380 120
Increases	0	0	122 139	25 410
Decreases	0	0	-3 911	-13 464
Acquisition value before depreciation 31.12.	164	164	510 293	392 066
Total depreciation 1 Jan.	-100	-75	-81761	-69 294
Depreciation for the financial year	-21	-24	-14 089	-12 467
Total depreciation 31 Dec.	-121	-100	-95 850	-81 761
Book value 31 Dec.	43	64	414 443	310 305
Machinery and equipment				
Acquisition value 1 Jan.	85 146	69 630	120 153	101 046
Increases	13 674	15 528	21776	19 959
Decreases	-129	-12	-208	-852
Acquisition value before depreciation 31 Dec.	98 691	85 146	141 722	120 153
Total depreciation 1 Jan.	-57407	-48 301	-71662	-60 125
Depreciation for the financial year	-9882	-9 105	-12 694	-11 535
Foreign exchange difference	0	0	-2	-2
Total depreciation 31 Dec. Book value 31 Dec.	-67 289 <b>31 402</b>	-57 407 <b>27 740</b>	-84 357 <b>57 365</b>	-71 662 48 492
	01 402	21140		40 402
Other tangible assets	010	07	0.500	0.000
Acquisition value 1 Jan.	216	25	3 509	2 728
Increases	<u> </u>	<u> </u>	3 019 -402	781
Acquisition value before depreciation 31 Dec.	232	216	6 126	3 509
Total depreciation 1 Jan.	-1	0	-618	-417
Depreciation for the financial year	-1	-1	-332	-201
Total depreciation 31 Dec.	-3	-1	-950	-618
Book value 31 Dec.	229	215	5 177	2 892
Advance payments and work in progress				
Acquisition value 1 Jan.	1 352	3 152	104 820	65 582
Increases	8 178	4 930	86 204	45 969
Decreases	-6 054	-6 730	-142 700	-6 730
Acquisition value before depreciation 31 Dec.	3 476	1 352	48 324	104 820
Book value 31 Dec.	3 476	1 352	48 324	104 820
TOTAL TANGIBLE ASSETS	35 150	29 370	565 341	505 531
	00 100	20 010	000 071	000 001

11. INVESTMENT GRANTS	Foundation 2018	Foundation 2017
Academy of Finland	1 0 9 6	658
Other	49	0
Total	1 146	658

Investment grant related refund liability on 31.12.2018 is €3 630 435 (in 2017 €3 727 509).

12. CHANGES IN INVESTMENTS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Shares in Aalto Group companies				
Book value 1 Jan.	75 295	156 538	0	0
Increases	0	1758	0	0
Decreases	0	-83 000	0	0
Book value 31 Dec.	75 295	75 295	0	0
Shares in associated companies				
Book value 1 Jan.	3 160	3 012	5 415	5 267
Increases	148	148	334	148
Book value 31 Dec.	3 308	3 160	3 734	5 415
Shares in jointly owned companies				
Book value 1 Jan.	3 215	3 215	0	0
Book value 31 Dec.	3 215	3 215	0	0
Other shareholdings				
Book value 1 Jan.	1 032 760	964 133	1 032 760	964 133
Increases	307 421	505 236	314 921	508 089
Decreases	-415 435	-436 609	-415 838	-435 883
Book value 31 Dec.	924 746	1 032 760	931 843	1 036 339

13. ENDOWMENT PORTFOLIO	Domicile	Aquisition value 31.12.2018	Market value 31.12.2018	Book value 31.12.2018
Funds*				
Aktia Emerging Market Local Currency Bond	Finland	31 200	33 349	33 349
Aktia Emerging Market Local Currency Frontier Bond	Finland	18 047	18 463	18 463
Aktia Nordic Micro Cap	Finland	10 829	10 169	10 169
AQR Managed Futures Offshore Fund Class B-EUR	Cayman Islands	25 053	22169	22169
AQR Style Premia Offshore Fund Ltd. Class B EUR	Cayman Islands	20 591	17 908	17 908
Capital Four Invest European Loan & Bond Fund	Luxembourg	42 835	47 592	47 592
Concordia G-10 Fixed Income Relative Value Class A	Bermuda	16 616	16 826	16 826
Eaton Vance Parametric Emerging Markets	Ireland	17 541	20 221	20 221
eQ Europe Stock Index	Finland	46 481	55 858	55 858
Evli Euro Liquidity	Finland	40 655	41 853	41 853
Evli Finnish Small Cap	Finland	10 387	18 576	18 576
Hamilton Lane Aalto Fund	Luxembourg	22 279	21 437	21 437
Investec Emerging Markets Local Currency Debt	Luxembourg	17 118	16 747	16 747
IPM Systematic Macro Fund	Cayman Islands	15 000	14 188	14 188
iShares Core EM IMI UCITS ETF	Ireland	56 786	54 067	54 067
iShares Core MSCI Japan IMI UCITS ETF	Ireland	58 864	56 889	56 889
iShares Core S&P 500 UCITS ETF	Ireland	86 523	88 789	88 789
iShares Edge MSCI EM Minimum Volatility UCITS ETF	Ireland	9 557	11 070	11 070
Lyxor Stoxx Europe 600 Banks UCITS ETF	France	6 4 5 2	4734	4734
Mirae Asia Great Consumer Equity Fund	Luxembourg	16 256	17 616	17 616
MW Liquid Alpha Plus Fund	Ireland	15 040	15 175	15 175
OP-Euro A	Finland	57 015	56 862	56 862
OP-Obligaatio Prima A	Finland	23 781	24 792	24 792
Parvest Bond World Emerging	Luxembourg	26900	25 740	25 740
Robeco QI Global Dynamic Duration	Luxembourg	21 000	20 411	20 411
SPDR S&P U.S. Financials Select Sector UCITS ETF	Ireland	11 990	10 909	10 909
Systematica Alternative Markets Fund	Cayman Islands	10 000	10 043	10 043
Two Sigma Risk Premia Enhanced Cayman Fund	Cayman Islands	15 217	15 410	15 410
Vanguard S&P 500 UCITS ETF	Ireland	77 910	80 066	80 066
Xtrackers Stoxx Europe 600 UCITS ETF	Luxembourg	81 135	71736	71736
		909 056	919 661	919 661
Other receivables and accrued income		666	666	666
Fixed-term deposit and cash		61 880	61 880	61 880
Shares in Aalto Group companies		1250	1250	1250
Endowment total		972 852	983 457	983 457

\* Aalto University Foundation invests only in funds registered in domiciles which participate in automatic exchange of tax information under the Common Reporting Standards (CRS).

Other shareholdings				
Other shareholdings, Endowment		909 056	919 661	919 661
Other shares	Finland	5084	5084	5 084
Other shareholdings total (Foundation)		914 141	924 746	924 746

14. OUTSTANDING LOANS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Long-term loan receivables				
Loans to group companies	470 275	369 480	0	0
Loans to associated companies	2 000	2 000	0	0
Total	472 275	371 480	0	0

The Aalto University Foundation has granted loans to its subsidiaries (ownership 100%) and a subordinated loan to an associated company. In the demerger of Aalto University Properties Ltd. the loans, granted to the company before fiscal year 2018, were trasferred to the acquiring companies. The loans granted to the subsidiaries are bullet loans and they mature between 2022-2027. The subordinated loan will be paid back between 2031-2035.

#### **15. ACCOUNTS RECEIVABLES, PREPAID EXPENSES**

AND ACCRUED INCOME	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Accounts receivables				
Less than 30 days	28 369	26 959	30 336	29 294
30-180 days	3 662	3846	3 703	3 902
181-364 days	213	339	246	343
Over 364 days	201	742	209	998
Total	32 445	31 887	34 494	34 537
Prepaid expenses and accrued income				
Accrued interests	0	0	27	27
Accrued income	12 523	12 935	12 523	12 935
Other prepaid expenses and accrued income	467	16 204	857	17 174
Total	12 989	29 139	13 406	30 136
16. VAT COMPENSATION	Foundation 2018	Foundation 2017		
Gross expenses entitled to VAT compensation				
Expenses in profit and loss statement	113 704	102 193		
Expenses activated into fixed assets	18 741	17 367		
Total	132 445	119 560		
VAT compensation				
On expenses	21 835	19 097		
On fixed asset activations	3 119	3 261		
Total VAT compensation	24 953	22 358		
Received compensation from MoE	23 173	24 405		
VAT compensation for the year	1780	-2 047		
VAT compensation receivable/liability 1 Jan.	-3 067	-2 569		
Received compensation clearance from MoE	1 0 2 1	1 5 4 9		
VAT compensation for the year	1780	-2 047		
VAT compensation receivable/liability (net) 31 Dec.	-266	-3 067		

17. EQUITY	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Endowment capital 1 Jan.	280 000	280 000	280 000	280 000
Endowment capital 31 Dec.	280 000	280 000	280 000	280 000
· · · ·				
Capital reserve 1 Jan.	436 762	412 477	436 762	412 477
Increases, Governmental capitalization	4 123	24 285	4 123	24 285
Capital reserve 31 Dec.	440 885	436 762	440 885	436 762
Operating equity 1 Jan.	154 644	154 644	154 644	154 644
Operating equity 31 Dec.	154 644	154 644	154 644	154 644
Fair value reserve 1 Jan.	99 048	138 126	99 048	138 126
Transfer to Investment Surplus -fund	-99 048	-39 079	-99 048	-39 079
Fair value reserve 31 Dec.	-99.048	-39 0 79 99 0 48	-99.048	99 048
Special purpose funds Expendable 1 Jan.	23 311	12 978	23 311	12 978
Received donations and return to capital	984	10 688	984	12 210
Use of funds	-3 810	-355	-3 810	-355
Special purpose funds Expendable 31 Dec.	20 485	23 311	20 485	23 311
Special purpose funds Capitalizing 1 Jan.	35 624	33 747	35 624	33 747
Received donations and return to capital	4 0 3 9	2 359	4 0 3 9	2 359
Use of funds	-657	-482	-657	-482
Special purpose funds Capitalizing 31 Dec.	39 006	35 624	39 006	35 624
Tenure Track fund 1 Jan.	17 500	0	17 500	0
Capital transfer to Tenure Track funds	7 500	17 500	7 500	17 500
Use of fund	-1120	0	-1120	0
Tenure Track fund 31 Dec.	23 880	17 500	23 880	17 500
Investment Surplus fund 1 Jan.	227 567	137 526	227 567	137 526
Capital transfer from Fair value reserve	99 048	90 041	99 048	90 041
Capital transfer to Surplus	-90 322	0	-90 322	0
Investment Surplus fund 31 Dec.	236 293	227 567	236 293	227 567
Surplus from previous years 1 Jan.	27 574	43 491	54 822	69 469
Changes in income and expenses in previous	21 514	0	806	-386
accounting periods	202	U	000	-300
Capital transfer to Tenure Track fund	-7 500	-17 500	-7 500	-17 500
Capital transfer from Tenure Track fund	1120	0	1120	0
Capital transfer from Investment Surplus fund	27 390	0	27 390	0
Surplus from previous years 31 Dec.	48 866	25 991	76 638	51 583
Surplus/Deficit of the financial year	-85 370	91 625	-88 494	93 313
in Income statement Capital transfer from Investment Surplus -fund	62 933	-90 041	62 933	-90 041
Surplus/Deficit of the financial year	-22 438	-90 041 <b>1 583</b>	-25 562	-90 041 3 272
in Balance Sheet			20 002	0 212
Total equity	1 221 620	1 302 029	1 246 268	1 329 277
rotur equity	1 22 1 020	1 302 023	1 240 200	1 323 211

	Special purpose Fund us				906		
	Fund equity	fund's annual	Received	during	Fund equity		
18. SPECIAL PURPOSE FUNDS	1.1.2018	return	donations	financial year	31.12.2018		
Special purpose funds in business							
Helsingin kauppakorkeakoulun palvelutoimintarahasto	5 699	370	0	0	6 070		
Helsingin kauppakorkeakoulun stipendirahastot	17 748	1154	0	-131	18 770		
Helsingin kauppakorkeakoulun yliopistorahasto	122	8	0	0	129		
Kauppatieteellinen koulutusala	4 801	14	115	-120	4 810		
Kaupunkitaloustieteen professuuri	0	0	45	-45	0		
Matti Lehden nimikkorahasto	130	8	0	-10	129		
Special purpose funds in science and technology							
Aleksander ja Lucie Lampénin rahasto	2 253	146	0	-53	2 3 4 7		
Alumnirahasto	19	1	0	0	21		
Arkkitehti Annikki Paasikiven stipendirahasto	1914	124	0	-124	1914		
Arkkitehti Väinö Vähäkallion stipendirahasto	998	65	0	-65	998		
DI Marja-Terttu Tanttisen rahasto	14	0	0	0	14		
Energiatekniikan professuuri	1	0	0	-1	0		
Ernst Wirtzenin rahasto	164	11	0	-8	167		
Fabian ja Jaakko Ahvenaisen rahasto	673	44	957	-14	1 659		
Informaatioverkostojen työelämäprofessuuri	0	0	245	-37	208		
Insinöörien matka-apurahasto	95	6	0	0	101		
Julius Tallbergin rahasto	165	11	0	-4	172		
Kansallis-Osake-Pankin rahasto	105	7	0	-4	108		
Kaute	43	0	0	0	43		
Maa- ja vesitekniikan tuki ry	267	1	0	-38	229		
Mide	146	0	0	-60	87		
Norman Ernest Loveless -rahasto	0	0	93	0	93		
Oiva Allan Pölkkysen rahasto	106	7	0	-4	109		
Oy Atlas Diesel Ab:n rahasto	83	5	0	0	88		
Oy Strömberg Ab:n rahasto	45	3	0	-2	46		
Paloturvallisuustekniikan professuuri	509	1	0	-26	485		
Professori E. J. Nyströmin rahasto	1946	126	0	-29	2 0 4 3		
Professori Hanneliuksen rahasto	31	2	0	-1	32		
Puunjalostustekniikan Prof. Maloney	65	0	0	0	66		
Puurakentaminen	0	0	0	-1	0		
RAPAL-apurahat	11	0	0	-7	4		
Talotekniikan rahasto	91	0	0	-2	89		
Tapani Järvisen Ympäristötekniikan rahasto	41	0	0	-12	30		
Teknistieteellinen koulutusala	10 535	31	1	-79	10 487		
Teknologiakasvatuksen työelämäprofessuuri	300	20	0	-39	281		
Teknos Winter Oy:n rahasto	94	6	0	0	100		
Teräsbetoni Oy:n rahasto	74	5	0	0	79		
Vesitalouden vesi- ja kehitysrahasto	614	2	400	-299	717		
Vuorineuvos Sundbergin laaturahasto	107	0	0	-3	104		
Yhdistetty opiskelijarahasto	81	5	0	-2	84		
Yhdyskuntajätevesien käsittelyn työelämäprofessuuri	0	0	477	-22	455		
Yritystoiminnan tukirahasto	1454	94	0	0	1548		
Special purpose funds in art and design							
Arkkitehtien matka-apurahasto	48	3	0	-3	48		
Helmi Grönlundin rahasto	461	30	0	-3	40		
Professori Nils Erik Wickbergin rahasto	816	53	0	-47	822		
Taiteellinen koulutusala	1137	3	0	0	1141		
University funds							
Campus Development	30	0	50	0	80		
Game Changers	180	01	233	-41	373		
	100	1	200	11	010		
University special purpose funds	4 617	13	4	-3 000	1634		
Special purpose funds total	58 834	2 383	2 619	-4 332	59 504		

Special purpose funds are used for scolarships to students and employees and for financing the university's operations as required by donors. The funds are grouped by field of study. The funds received return according to the university's investments' annual return.

		Capital transfers	Fund usage	
	Fund equity	during the	during the	Fund equity
19. UNRESTRICTED FUND	1.1.2018	financial year	financial year	31.12.2018
Investment Surplus fund	227 567	99 048	-90 322	236 293
Tenure Track fund	17 500	7 500	-1120	23 880
Total	245 067	106 548	-91 442	260 173
20. LIABILITIES	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Long-term liabilities				
Loans from financial institutions	298 571	262 500	306 175	271 530
Other long-term liabilities	8 710	11 101	8 710	11 101
Total	307 282	273 601	314 885	282 631
Short-term liabilities				
Loans from financial institutions	5 9 2 9	2 500	6 362	3 101
Advance payments	31 582	30 323	35 616	33 855
Accounts payable	9 283	11976	16 891	15 116
VAT compensation	2 0 4 6	0	2 0 4 6	0
Liabilities to group companies	55 385	55	0	0
Coordinated assets	3 461	7 909	3 461	7 909
Other short-term liabilities	8 191	9 325	17 658	17 926
Accrued salaries and wages	17 298	16 662	18 489	17 875
Other accrued expenses	5270	2 504	6 929	3 781
Total	138 445	81 253	107 452	99 563

## OTHER NOTES, €1 000

21. LEASE CONTRACTS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Lease payments due within one year	103	241	270	498
Lease payments due later	45	124	228	502
Total	148	365	498	1 000
22. RENTAL AGREEMENTS (incl. VAT)	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Rental agreement liabilities due within one year	6 357	11734	7 244	12 990
Rental agreement liabilities due later	7 358	13 137	8 407	14963
Total	13 715	24 871	15 651	27 952
23. MANDATORY PROVISIONS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Provisions for unused rental agreements	2 065	0	2 119	68
24. INVESTMENT COMMITMENTS	Foundation 2018	Foundation 2017		
Commitment left, €1 000				
Hamilton Lane Aalto Fund SICAV S.à.r.l, Luxemburg	186 471	145 590		
Investment commitments are unfunded commitments w	which are hinding under ex	xisting agreements		

Investment commitments are unfunded commitments which are binding under existing agreements.

#### **25. DERIVATIVE CONTRACTS**

Group derivatives include interest rate swaps, FX forward exchange agreements and electricity derivatives. Derivatives are not subject to hedge accounting. In principle, the contracts will be held to the maturity. If a derivative contract would be terminated prior to maturity, the university is committed to cover the pre-termination indemnity to the counter party.

The interest rate swaps hedge the loan portfolio against increase in market interest rates by converting floating interest rates into fixed rates. University's current agreements will mature from 2019 to 2027. Some of the agreements have a forward start only after the end of the financial year. Interest rate swaps have been used only for hedging purposes. The terms and conditions of interest rate swap portfolio and the loan portfolio are not identical and therefore derivative contracts are included in the income statement at fair value. In some of the interest rate swaps the nominal amount decreases during the contract period. Also the associated company Helsingin Pohjoinen Hesperiankatu 23A has hedged its loans. The company has reported the derivatives in the notes of its financial statements.

According to the Endowment Strategy the university may employ derivatives in investment acitivities for three purposes: to hedge investment risks, to allocation adjustments or to gain exposure to certain risk premia more efficiently. During 2018 the forward exchange agreements have been used to hedge against the foreign exchange risk of the investment portfolio.

The university's subsidiary, Aalto University Properties Ltd., which is governing university's properties hedges its electricity purchases against the increase in electricity prices. At the closing date the current electricity derivaties mature from 2019 to 2020.

The nominal and the fair value of the derivative instruments at the closing date are shown below.

Interest rate swaps	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Nominal value of contracts	183 381	196 664	186 631	196 664
Fair value of the contracts, €1 000	-6147	-6 314	-5 896	-6 314
Forward exchange agreements				
Nominal value of contracts	32 007	25 203	32 007	25 203
Fair value of the contracts, €1000	328	271	328	271
Electricity dervatives				
Electricity dervatives (MWh)	0	0	26 304	65 064
Fair value of the contracts	0	0	537	-120
26. LIABILITIES WITH PROPERTY COLLATERALS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Bank loans	0	0	7 016	7 540
Other loans	0	0	1000	4 500
Total collateral loans	0	0	8 016	12 040
27. LOANS WITH MATURING PERIOD OVER FIVE YEARS	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Bank loans	179 153	153 634	183 309	161 281

#### **28. VAT REFUND LIABILITIES**

Companies owned by the Foundation have deducted VAT from their property investments and this involves liability to revise the deduction in the case of alteration of use in the of property. In 2009 the VAT refund liability relating to the property that was transfered from the Senate Properties was not transfered to the group company (except for Metallimiehenkuja 10 that was under renovation).

VAT Refund liability 31 Dec.	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Completed projects (10 year revision period)	76	151	48 259	24 521
Work in progress	0	0	7435	24 859
Total	76	151	55 694	49 380
Total VAT relating to the investments under revision liablility				
Completed projects (10 year revision period)	756	756	68 670	37 950
Work in progress	0	0	7435	24 859
Total	756	756	76 105	62 809

#### 29. VALUES OF FINANCIAL ASSETS AND

LIABILITIES BY CATEGORY	Foundation 2018	Foundation 2017	Group 2018	Group 2017
Financial assets				
Valued at fair value				
Available for sale				
Level 1	898 224	1 0 2 4 7 4 7	902 215	1 028 326
Level 2	0	0	0	0
Level 3	22 687	4 410	22 687	4 4 10
Total	920 911	1 029 157	924 903	1 032 736
Derivates				
Level 1	0	0	0	0
Level 2	328	271	865	321
Level 3	0	0	0	0
Total	328	271	865	321
Financial liabilities				
Valued at fair value				
Derivates				
Level 1	0	0	0	0
Level 2	6 147	6 314	6 147	6 484
Total	6 147	6 314	6 147	6 484
At amortized cost				
Bankloans				
Level 1	0	0	0	0
Level 2	304 500	265 000	312 537	274 631
Total	304 500	265 000	312 537	274 631

#### **30. FINANCIAL RISK MANAGEMENT**

Risk management forms an essential part of Aalto University's governance system and supports the university in achieving its strategic and operational objectives. Aalto University risk management principles, including risk management process and responsibilities, are defined in Aalto University Risk Management Policy approved by the board. In addition, financial risk management principles and limits are guided by Endowment Authorizations and Risk Limits Policy and Treasury Policy approved by the board.

#### **Price risk**

The main price risk of the university consists of market price volatility related to equity fund investments.

The financial impact to the endowment portfolio of a possible decline of 20% in global equity market prices is described below (all other factors remaining unchanged). The effect of market sensitivity of the equity investments is also taken into account.

	2018
	Equity markets -20%
Impact on the surplus	-104 290
Impact on the equity	0
al impact	-104 290

#### **Currency risk**

The main currency risk of the university relates to investments in equity funds investing in non-euro assets.

The financial impact to the endowment portfolio of a possible 10% appreciation of euro against all other currencies is described below. In the calculation the currency positions of the underlying investments as well as possible currency hedges have been taken into account.

	20	
	EUR appreciation versus all other currencies	
	10%	
Impact on the surplus	-54113	
Impact on the equity	0	
Total impact	-54 113	

#### Interest rate risk

The university carries interest rate risk as part of its investment and debt activities. In investment activities interest rate risk is defined as market value change due to changes in the level of interest rates. Such changes affect fixed income securities inversely and are managed by changing investment portfolio durations. In debt activities the interest rate risk is due to changes in interest rates of floating rate loans taken out to finance campus investments. The risks related to floating rate loans are managed by interest rate swaps. The financial impact of possible changes in interest rates described below.

	Interest -1%	Interest +1%
Investment activities		
Impact on surplus	9 839	-9 839
Impact on equity	0	0
Floating rate loans		
Impact on interest costs (annual)	288	-1737
Interest rate swaps		
Impact on interest costs (annual)	-1 036	1 0 3 6
Impact on change in market value	-6 935	6 935
Total	2 156	-3 605

#### Liquidity risk

The university liquidity risks are limited, as the investments are mainly implemented thru mutual funds and ETFs. Future contractual commitments relating to financial instruments are described below.

Contractual commitments	Total	1 year	2-5 years	6-10 years	Over 10 years
Investment commitments	186 471	26 000	133 500	24 871	2 100
Loans (capital and interests)	316 044	7 122	128 107	74 033	106 781
Leasing	498	270	228	0	0
Accounts payable	16 891	16 891	0	0	0
Total	519 904	50 283	261 835	98 904	108 881

#### Interest rate swaps 10 869 2 3 9 6 6040 2433 0 Currency derivatives 264 264 0 0 0 Electricity derivatives 536 394 142 0 0 2 4 3 3 **Total** 11 669 3 0 5 4 6 182 0

Commitments of group companies included in Conctractual and derivative related commitments

#### **Credit risk**

The university receivables credit risks are limited, as its main funders are public institutions, like Academy of Finland, Business Finland and EU. The impact of possible credits risks related to investment activities are to large extent included in the previous risk categories, mainly in interest rate and price risks. Counter party risks related to investment activities are monitored constantly, based on the counter party limits defined by the board. In derivative contracts the counter party risk is managed by cash collateral based on fair value.

#### **Political risk**

Political decisions and events may have a significant impact on the university's financial standing. The university's main political risk relates to the university sector's public funding development in the long term. There are also risks relating to the fund allocation between universities. Below table shows the financial impact, if Aalto University's share of Ministry of Education and Culture's university funding would change one percentage point (all other factors remaining unchanged).

	-1%	<b>′+1</b> %
Impact on surplus	-15 991	15 991
Impact on equity	0	0
Total	-15 991	15 991

#### **31. LEGAL PROCEEDINGS AND OTHER COMPENSATION CLAIMS**

The foundation had five dispute matters in process on 31.12.2018. Total estimated risk relating to these disputes is €300 000.

#### **32. OTHER CONTINGENT LIABILITIES**

#### Covenants

Aalto University campus development investments are financed by loans taken by Aalto University Foundation. The loan agreements are unsecured and contain different types of restrictive terms. These terms restrict, inter alia, organizational changes and property investment arrangements as well as the level of group indebtedness and provided security. Aalto University also has an undrawn loan facility available. The facility will expire unless disbursed.

#### Share of mortgage

The Foundation owns a 27% share of Asunto Oy Helsingin Eteläinen Hesperiankatu 4 housing company, which entitles to the use of 7 apartments. The housing company's mortgage relating to these 7 apartments is  $\leq 1,7$  million ( $\leq 1,8$  million).

33. AUDITOR FEES	Foundation 2018	Foundation 2017	Group 2018	Group 2017	
Audit fees	38	38	141	100	
Tax advisory fees	6	2	14	11	
Other fees	77	64	79	76	
Total	121	104	234	188	
34. AVERAGE PERSONNEL	Foundation 2018	Foundation 2017	Group 2018	Group 2017	
Teaching and research	2 836	2769	2 836	2 769	
Other personnel	1 216	1178	1376	1 3 4 3	
Total	4 052	3 947	4 212	4 112	
35. MANAGEMENT COMPENSATION	Foundation 2018	Foundation 2017	Group 2018	Group 2017	
Members of boards, the president and CEOs of	370	341	1 305	1 244	

Group companies

36. RELATED PARTY FINANCIAL TRANSACTIONS	Grants and similar payments with no respective input received	Financial activities with respective input received Income	Expenses	Receivables	Liabilities
Founders and their subsidiaries,	0	6464	42 384	473 742	55 385
Aalto University's subsidiaries					
Above parties' board members, CEOs and their	0	41	4 898	0	27
substitutes, auditors, Aalto University's directors					
and any companies owned by aforementioned					
Family members of the above	3	0	195	0	0
Total	3	6 505	47 477	473 742	55 413

37. SHARES IN OTHER COMPANIES	Domicile	Shares owned by Foundation	Shares owned by Group	Total equity
Company	Donnone	by roundation	by croup	
Aalto Holding Oy	Helsinki	100,00 %	100,00 %	(consolidated to group)
Aalto-yliopistokiinteistöt Oy	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Bionova	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Amfi	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Betonimiehenkuja 5	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Kemistintie 1	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Konemiehentie 2	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Lämpömiehenkuja 2	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Lämpömiehenkuja 3	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Maarintie 6	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Metallimiehenkuja 10	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Metallimiehenkuja 4	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Otakaari 1	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Otakaari 24	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Otakaari 3	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Otakaari 5	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Otakaari 7	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Puumiehenkuja 2	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Sähkömiehentie 4	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Tekniikantie 3	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Tietotie 1	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Vuorimiehentie 1	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Vuorimiehentie 2	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Espoon Väre	Espoo	100,00 %	100,00 %	(consolidated to group)
Koy Helsingin Runeberginkatu 14-16	Helsinki	100,00 %	100,00 %	(consolidated to group)
Koy Kirkkonummen Metsähovintie 114	Kirkkonummi	100,00 %	100,00 %	(consolidated to group)
Otaniemen Liikekeskus Oy	Espoo	100,00 %	100,00 %	(consolidated to group)
Hamilton Lane Aalto Fund SICAV S.à.r.l	Luxemburg	98,95 %	98,95%	(consolidated to group as a fund)
Asunto Oy Hgin Eteläinen Hesperiankatu 4	Helsinki	26,98 %	26,98 %	(consolidated to group)
Kiinteistö Oy Hgin Pohj. Hesperiankatu 23A	Helsinki	50,00 %	50,00 %	(consolidated to group)
Otahalli Oy	Espoo	25,00 %	25,00 %	(not consolidated to group)
Asunto Oy Kartanontanhua	Espoo	31,45 %	31,45 %	(not consolidated to group)



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