

Aalto University

—
Shaping a
sustainable future.

A”

Aalto-yliopisto
Aalto-universitetet
Aalto University

Ilkka Niemelä
President



Merger of three leading Finnish universities

1849

Helsinki University of Technology

1871

University of Art and Design Helsinki

1911

Helsinki School of Economics

Aalto
University

2010

Universal and National Mission

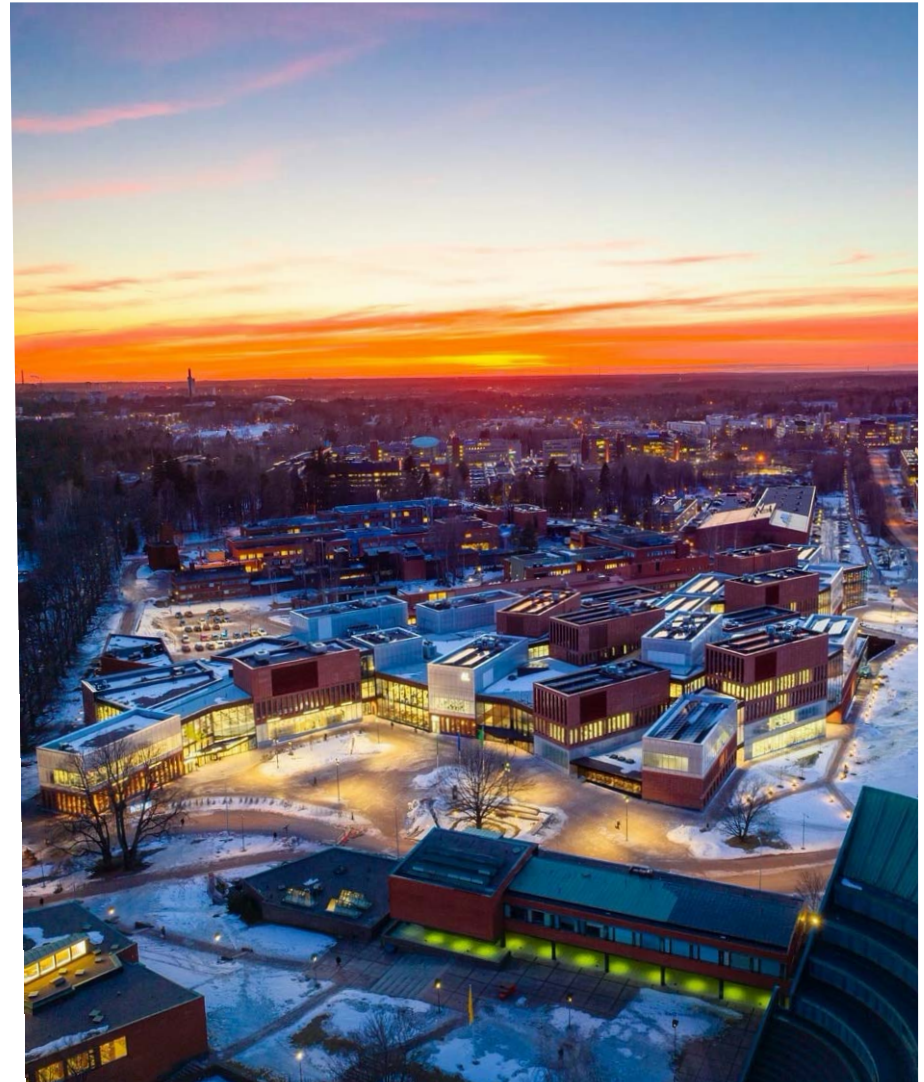
A societally embedded and innovative research university for a better world.

A national mission to strengthen Finland's innovative capacity through first-class research, art and education.



Aalto after 10 years

- We have successfully brought together science, art, technology, and business to become a forerunner in our key areas
- Our campus has rapidly grown into a world-class collaboration hub
- We have transformed into one of Europe's most international universities



Role of Universities of Technology and National Economy: Case of Finland

In a country such as Finland, universities of technology are major engines of the productivity of labour, economic growth and, thereby, material well-being of humans.

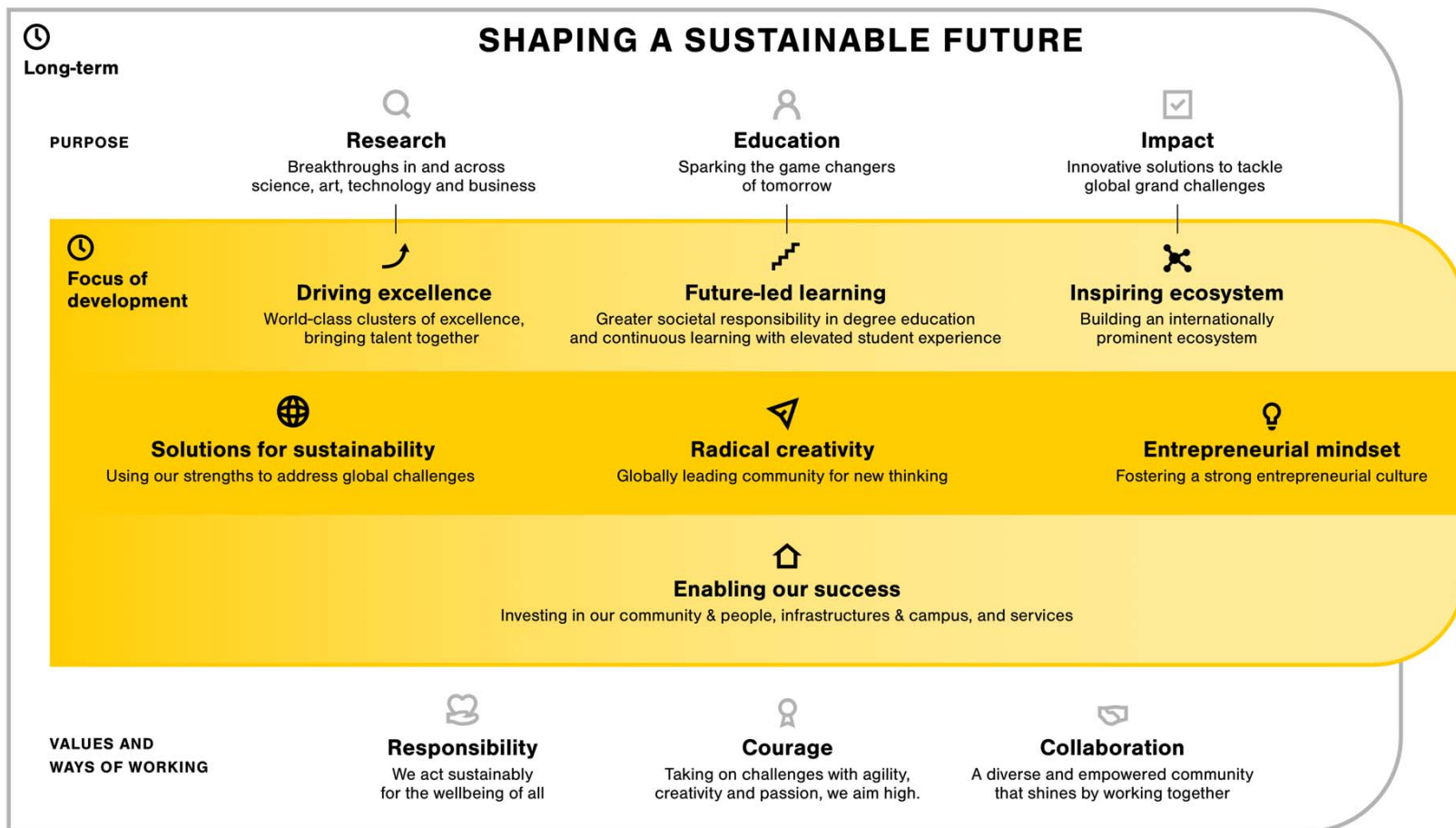
- Economic growth requires that either we work more, or that the work we do is more productive.
- In Finland, economic growth was until the 1960s driven partly by the growing amount of labour carried out in Finland.
 - Since the 1960s, economic growth in Finland has been driven almost exclusively by increases in the productivity of labour.
 - Hours worked per capita have continued to decrease.
 - With the aging population, also in the future economic growth will be driven primarily by increasing productivity.

Role of Universities (of Technology) and National Economy: Case of Finland

- **Productivity during 1865-2015 in Finland**
- 67 % of the increases in the productivity of labour were based on new ideas, innovations and new technology
- 29 % was based on human capital (to be cultivated by education striving for increased productivity)
- Less than 5% was based on fixed capital (production infrastructure)
- **Ergo: Our economic and material wellbeing depends on the engines of new technologies, innovations and new ideas. These are nurtured at the universities of technology.**

- ***BUT NOW not just any growth will do.***
- ***We are facing an extensive sustainability crisis.***
- ***We need sustainable growth. This is the challenge we must meet.***

Aalto University strategy 2021–



Excellence in key research areas

Human-centred living environments

QS: Architecture & built environments 42 (2020: 41)

ShanghaiRanking:
Marine/Ocean Engineering 21 (2020: 39)

Health and wellbeing

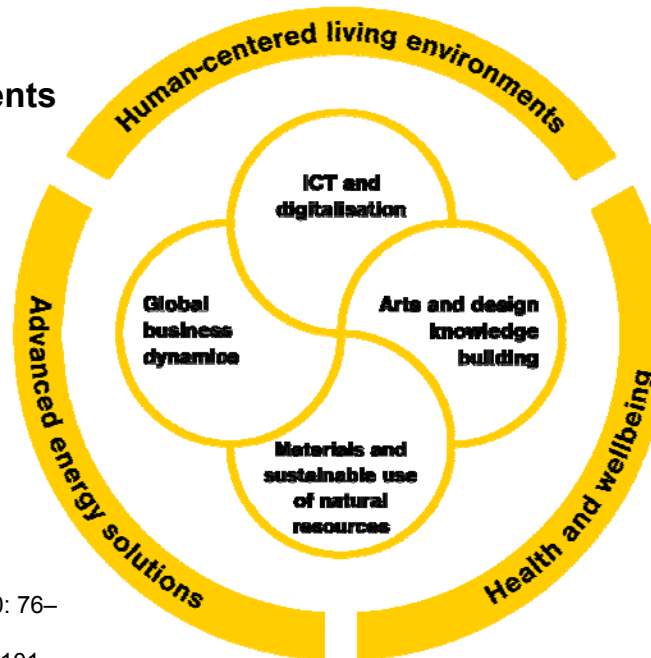
ShanghaiRanking:
Medical technology 101–150 (2020: 101–150)

Advanced energy solutions

ShanghaiRanking:
Electrical & electronic engineering 101–150 (2020: 76–100)

QS: Electrical & electronic engineering 79 (2020: 101–150)

US News: Electrical & electronic engineering 92 (2020: 81)



ICT and digitalisation

ShanghaiRanking:
Telecommunication engineering 40 (2020: 34)
Computer science & engineering 51–75 (2020: 51–75)

US News: Computer science 68 (2020: 56)

Art and design Knowledge-building

QS: Art & design 6 (2020: 7)

Materials and sustainable use of natural resources

ShanghaiRanking:
Mining & mineral engineering 76–100 (2020: 51–75)

QS: Materials science 98 (2020: 101–150)

Global business dynamics

ShanghaiRanking:
Business administration 25 (2020: 24)
Management 31 (2020: 27)

Taking the ideas into the society: Orchestrator of an innovation ecosystem

Meilahti
Health
Campus

University of
Helsinki

Maria 01
Startups

Ruoholahti
Business
District

Aalto
University

Keilaniemi
Business Park

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The Aalto Way of Working

attracts **growing international recognition.**

• In 2014, a report commissioned by MIT identified the Aalto University E&I ecosystem as **one of the five emerging world leaders.**

• In 2017, a report by JRC portrayed the Aalto-driven Espoo E&I ecosystem as **a possible role model for Europe.**

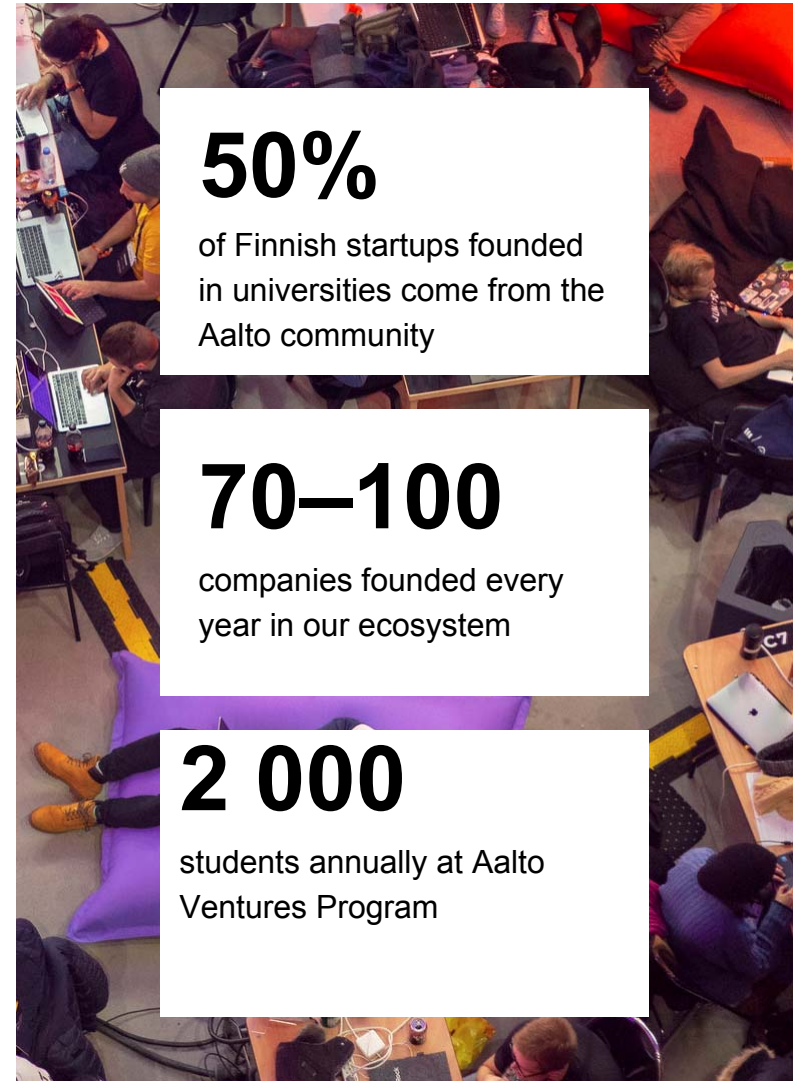
• In 2019, a study by EUA highlighted Aalto University as **an example of the role of universities in pioneering regional innovation ecosystems.**

• In 2021, a JRC report on the innovation impact of universities portrayed Aalto University as **an example of a novel, innovative university.**



Advancing entrepreneurial mindset

- We foster an entrepreneurial mindset across the university.
- We want to inspire our students to think and learn like an entrepreneur by integrating entrepreneurial courses into all fields of study.
- Support student-driven activities by providing spaces and funding.
- In 2021, Aalto University was the third most active organisation in Finland to file patent applications



50%

of Finnish startups founded in universities come from the Aalto community

70–100

companies founded every year in our ecosystem

2 000

students annually at Aalto Ventures Program

Top 10 Institutions in Europe for deep tech funding for spinouts (2021)

• University of Oxford	1.8 bn €
• Mainz Universität	1.3 bn €
• Technische Universität München	1.3 bn €
• University of Dundee	610 M€
• University of Cambridge	449 M€
• Aalto University	283 M€
• Commissariat a l'energie Atomique, CEA	237 M€
• ETH Zürich	228 M€
• Zürich Universität	160 M€
• VTT	151 M€

Source: NewCo Helsinki, helsinki.dealroom.co/lists

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Aalto University





ABB

NESTE

NOKIA



SAAB



Aalto-yöpisto
Aalto-universitetet
Aalto University

Strategic corporate partners

With our strategic corporate partners, we strive for a sustainable future by investing in mutually beneficial, long-term collaboration in research, education and innovation.

Shaping a sustainable future.



aalto.fi



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