

# Aalto University

—  
shaping the future

Janne Laine, Vice President for  
Innovation



Aalto-yliopisto  
Aalto-universitetet  
Aalto University



# Merger of three leading Finnish universities

1849

Helsinki University of Technology

1871

University of Art and Design Helsinki

1911

Helsinki School of Economics

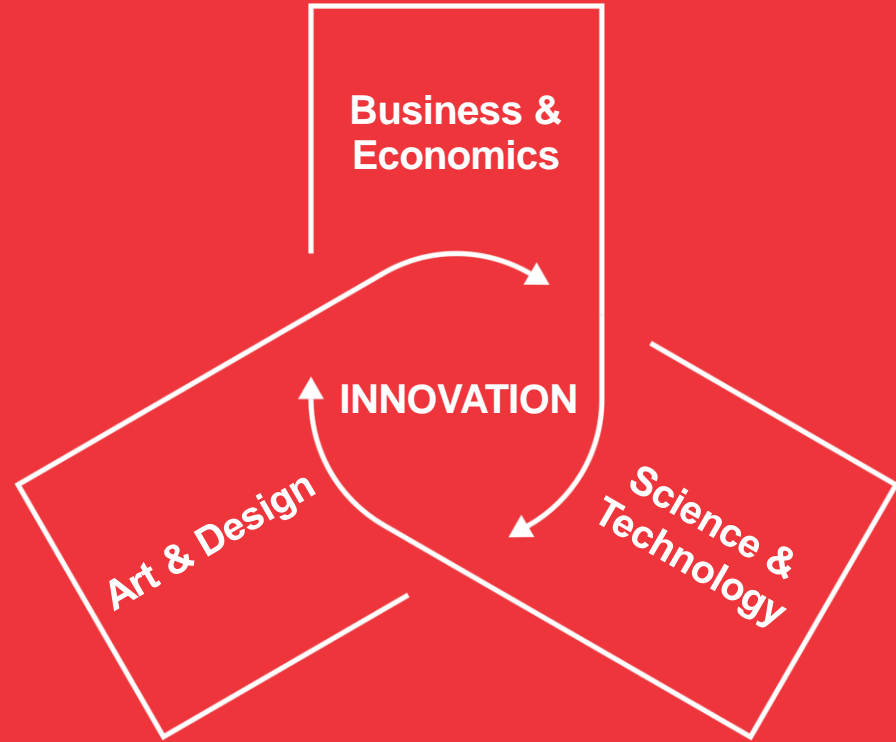
Aalto  
University  
**2010**



Aalto University

# National mission

Strengthening Finland's **innovative capacity** through first-class research, art and education.



# A diverse community

In 2018, our students graduated with

**263** doctoral degrees

**1 628** master's degrees

**1 218** bachelor's degrees

**290** graduates from the MBA and EMBA programmes



**12 000**

full-time equivalent degree students

A staff of about 4 000, of which nearly 400 are professors.  
Share of international academic faculty is 40%.

# Building excellence in all the key research areas

## ICT and digitalisation

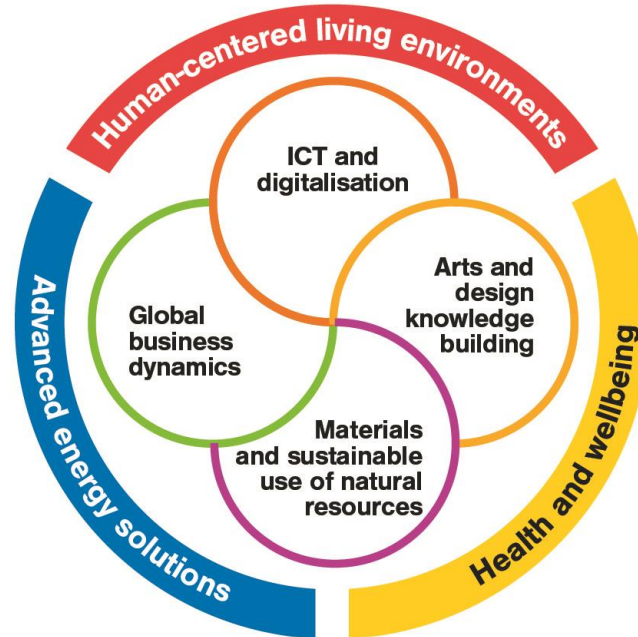
ShanghaiRanking: Telecommunication  
Engineering 28 (2017: 31)  
US News: Computer Science 43 (2017: 47)

## Global business dynamics

ShanghaiRanking:  
Management 36 (2017: 49)  
Business Administration 34 (2017: 51–75)

## Advanced energy solutions

ShanghaiRanking: Electrical & Electronic  
Engineering 51–75 (2017: 76–100)



## Human-centred living environments

QS: Architecture/Built Environment  
42 (2018: 46)

## Arts and design knowledge building

QS: Art & Design 7 (2018: 9)

## Health and wellbeing

ShanghaiRanking: Medical Technology  
101–150 (2017: 101–150)

## Materials and sustainable use of natural resources

ShanghaiRanking: Mining and  
Mineral Engineering 51–75 (2017: 46)

# Aalto University innovation ecosystem

## Focus Areas:

*Multi-disciplinary research fostering innovation and entrepreneurship*

*Entrepreneurship as a cross-cutting theme*

*Otaniemi Campus as an Innovation Hub*

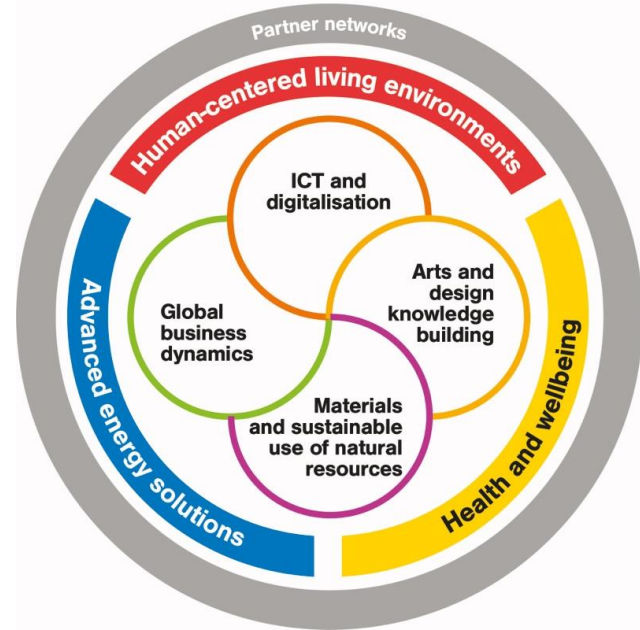


We are committed to identifying and solving grand societal challenges and building an innovative future through our seven key research areas.



Aalto University

# Innovative research



# Integrating science, design, industry and education



**A?**

Aalto University

The unique collaboration between arts and design and chemical engineering in order to produce new concepts for the forest industry begun with the CHEMARTS project for students.

Loncell dress for First Lady of Finland  
Jenni Haukio



# A unique collaboration hub

Meilahti  
Health  
Campus

University of  
Helsinki

Maria 0-1  
Startups

Ruoholahti  
Business  
District

Aalto  
University

Laajalahti  
Bay

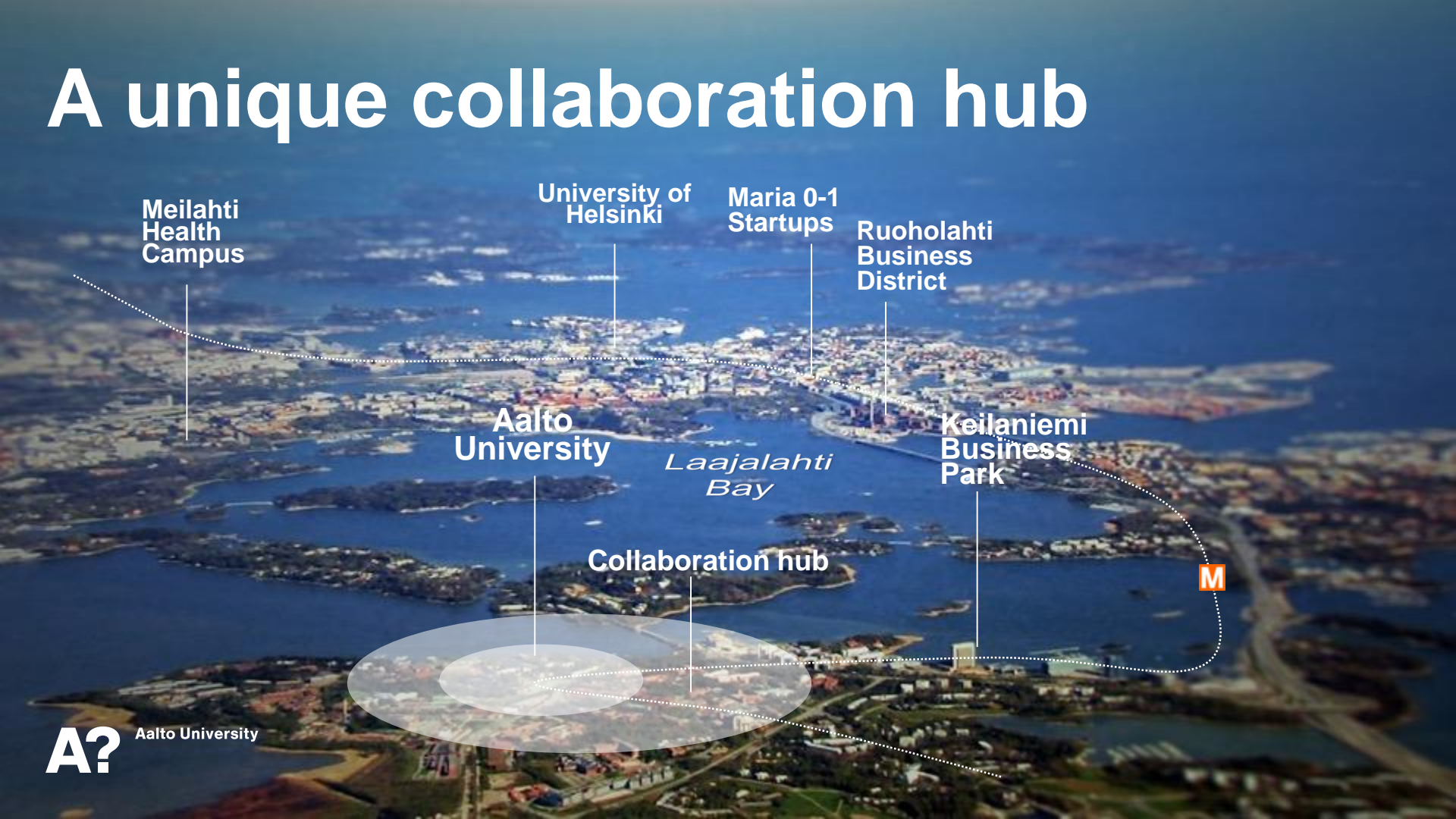
Keilaniemi  
Business  
Park

Collaboration hub

M

A?

Aalto University



# Highlights/ RAI - *Innovation Ecosystem*

*Cumulative 2013 - 2017*

Number of  
commissioned  
projects with  
companies

**1041**

**70 to 100**

companies  
are founded every year  
in our ecosystem

MIT has rated Aalto's  
innovation ecosystem  
among the

**top-5**

rising stars in the world

**729**

number of invention  
disclosures

**157**

number of technology  
transfers

# Target state 2030

- **Aalto is a globally recognized, world-class entrepreneurship and innovation ecosystem that attracts talents, collaborators and investors globally. Aalto and its activities have a high impact on societal and industrial renewal.**
- Innovation and entrepreneurial activities are widely integrated into education, research and campus ecosystem.
- Multi-channeled cooperation with society (corporations, startups, non-governmental organizations, public decision-making, private investors) enhances the quality of research and education by solving real-life problems.
- Funding will be secured from a variety of funding sources.
- Aalto is a popular option for top-quality researchers and students globally.

# Aalto University *Principles for Commercialization of Intellectual Property*

- **Accepted by the Aalto Board on Sep 20th 2017**
- **Purpose of the principles**
  - To communicate Aalto's operational principles in commercialization activities both to Aalto faculty and to external stakeholders
  - To help Aalto faculty and partners to identify best avenues and services available for IP protection and commercialization

## **Primary aim of commercialization activities**

- To maximize Aalto's societal impact through optimal utilization of results produced in research, educational or other activities

## **Rights and restrictions**

- Inventor (faculty and students) rights need to be protected while securing future academic and educational use of the IP
- IP transactions must be carried out at fair value (competitive neutrality)

# Towards a better world.



aalto.fi

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**A"** Aalto University



Aalto University Design Factory

**AALTO VENTURES PROGRAM**

**A?** Aalto University EIT Services

**Aaltoes**

**Startup Sauna**



**UWAS**  
University Wide Art Studies

**AEE**  
Aalto University Executive Education



**INQUIRE**

**INSPIRE**

**IDEATE**

**INCUBATE**

**INTEGRATE**

**IMPACT**

**Researcher IP outputs**

Innovation Agents

Innovation Advisors

**ASUC**

**Business Finland**

Other school taught modules

EIT-KICs

PLATFORMS

ASUC start ups

Tech transfer partners

**BIZ**

Start-up circus and competitions

Platform and EIT partners

**AGRID**

**AENT**

Other 'Factories'

Local SMEs

partner initiatives eg SHORTCUT

**Design Factory**

Business Espoo

**TUTA Diem**

**AVP**

ESABIC UN

Espoo Innovation Garden

**MARIA**

**K I U A S**

Angels and mentors

Knights of Slush

Start up Lifers

Junction

**Aalto ES**

WAVE

Rising North

Start-up Säätiö

Fall Up

DASH

**SLUSH**

Start - Up

S a u n a

s p a c e

Research Teach Supervise

Practice, Inspire

Ideate - Design

Develop - Test - Model

Accelerate - Pitch - Seed fund

Bigger Pitch - GTM - Internationalise



# Entrepreneurship ecosystem at Aalto

## Services

**A!**

Aalto University  
Start-Up Center

**A''**

Aalto University  
EIT Services

G

R

**a**

—

D

**AENT**

Aalto University  
Developing Entrepreneurship

## Educational Programs

**AALTO  
VENTURES  
PROGRAM**

**A?**

Aalto University  
Design Factory

## Student-driven

**Startup Sauna**

**Aaltoes**

*startumlifers*

**KILAS**

**Fall  
Up**

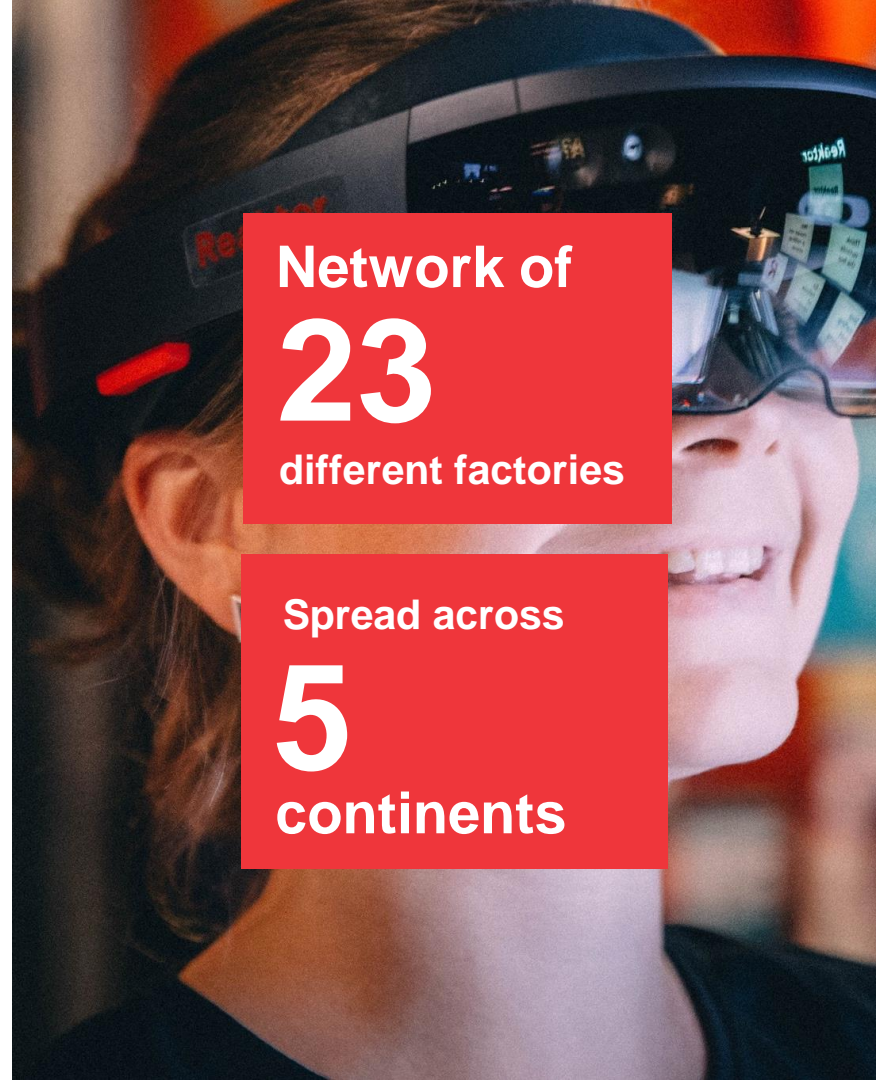
## Partners programs

**JUNCTION**

**SLUSH**

# Aalto **Design** Factory

is a constantly developing environment for learning, teaching, research and industry co-operation related to product development and design.



Network of

**23**

different factories

Spread across

**5**

continents

# Design Factory network 23 locations

**MAR** Japan  
**2017**  
KYOTO DESIGN  
LAB

**OCT** Finland  
**2008**  
AALTO  
DESIGN FACTORY

**SEP** Colombia  
**2016**  
DESIGN FACTORY  
JAVERIANA

**SEP** United States  
**2017**  
PHILADELPHIA  
DESIGN FACTORY

**MAR** Spain  
**2017**  
UPV DESIGN  
FACTORY

**SEPT** United States  
**2016**  
NYC DESIGN  
FACTORY

**JUN** Brazil  
**2017**  
DESIGN FACTORY  
SÃO PAULO

**NOV** Australia  
**2011**  
DESIGN FACTORY  
MELBOURNE

**MAY** Turkey  
**2016**  
METU DESIGN  
FACTORY

**NOV** Chile  
**2012**  
DUOC UC  
DESIGN FACTORY

**SEPT** Poland  
**2017**  
WARSAW DESIGN  
FACTORY

**JUL** Belgium  
**2017**  
GHENT DESIGN  
FACTORY

**DEC** Switzerland  
**2017**  
IDEASQUARE  
@CERN

**MAY** New Zealand  
**2017**  
DESIGN FACTORY  
NEW ZEALAND

**MAY** China  
**2010**  
SINO-FINISH  
CENTRE

**NOV** The Netherlands  
**2015**  
FRISIAN  
DESIGN FACTORY

**SEPT** Spain  
**2017**  
FUSION POINT

**NOV** Korea  
**2015**  
DESIGN FACTORY  
KOREA

**NOV** Colombia  
**2017**  
CALI DESIGN  
FACTORY

**MAY** Portugal  
**2015**  
PORTO DESIGN  
FACTORY

**FEB** Germany  
**2018**  
INNO.SPACE

**OCT** Latvia  
**2016**  
RIGA TECHNICAL  
UNIVERSITY  
DESIGN FACTORY



# *Aalto Venture Program Super-curricular*

*Every year*

**5800+**  
Event participants

Freshmen  
Orientation

**2800+**  
Participants

Slush volunteer  
training

**2300+**  
Participants

Thought Leaders'  
Talks

**700+**  
Participants

# Students as **co-creators** and leaders

Startup event **Slush** became world-renowned in the hands of Aalto students, attracting over 20 000 global participants annually.

CEOs of more than

**100**

listed companies  
present

**3 100**  
startups

**20 000**  
participants

2018



**A Grid is a gateway to Aalto's international network of resources, talented students and cutting-edge research and technology**

# **A creative community for startups**

**25 000 m<sup>2</sup> cooperation hub for creating new ways of working with 150+ startups, small-size companies, creative businesses, networks, maker's spaces**

- ESA business accelerator
- UN Technology and Innovation lab
- Espoo City Services

# Promoting entrepreneurship

**70 to 100**

companies  
are founded every year  
in our ecosystem

**50%**

of Finnish start-ups  
that originate from  
universities come from  
the Aalto community

Entrepreneurship is  
a more popular career  
option than ever – in  
the last six years, over

**3 000**

students have studied  
through the Aalto  
Ventures Program



A”

Aalto University

*Towards a better world.*



[aalto.fi](https://aalto.fi)