

## Aalto University as test bed and pioneer for crossing all kinds of borders

34th Conference of Rectors and Presidents of European Universities of Technology

September 18, 2015 Tuula Teeri, President, Aalto University



### Founded in 2010, Aalto University is spearheading the Finnish University reform

Helsinki School of Economics

University of Art and Design, Helsinki

Helsinki University of Technology

#### **Aalto University Schools**

- Arts, Design and Architecture
- Business
- Chemical Technology
- Electrical Engineering
- Engineering
- Science

University reform – more autonomy to develop and implement own strategy

#### A foundation-based university

- governed by an external Board

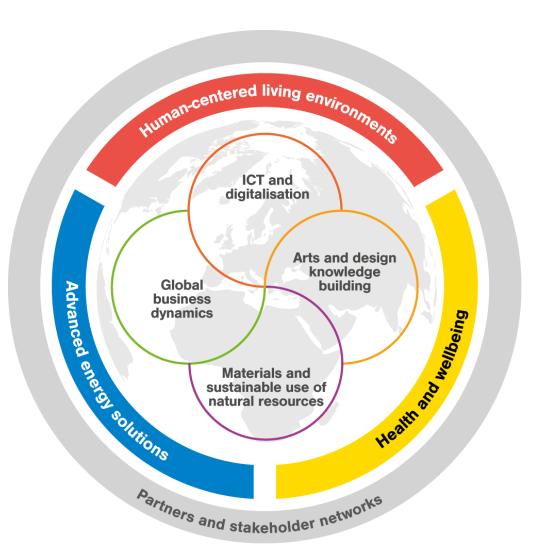
#### Significant increase in resources

- Direct temporary government funding up to 100 mill. EUR p.a. 2010-2020
- Endowment 700 mill. EUR
- Estates and other assets 300 mill. EUR
- Annual budget 420 mill. EUR / 2014





## Focusing on strengths, building on co-creation



### **Our Innovation Ecosystem in Otaniemi**



... where Science and Art meet Technology and Business

Open innovation and co-location with strategic partners

Promoting entrepreneurship and business renewal

Solving challenges for stronger Finland

### From plans to action 2010-2015

Tenure track; Aalto is becoming more international: a third of our new professors come from outside Finland.

Global research spearheads in e.g. materials research and technology, health technology incl. brain imaging, design / fashion, bioeconomy and solar energy

Theory combines with practice, Aalto researchers and students solve real-world problems.

We support and nurture student-led entrepreneurship and high growth enterprise

Close collaboration with industry and business help turn research results quickly into practice.







### Co-creative education for future business and industry



"Aaltonaut" is a multidisciplinary minor, which concentrates on product development.



An educational concept to combine technology, business and design with societal needs in a global context. Design Factory Global Network.



Stanford University is our partner for entrepreneurship education.



Entrepreneurship education for all Aalto students: skills, tools, and global networks for the creation of new business

### Students as co-creators and leaders



SLUSH in Beijing
October 2015

- World-class event organised by Aalto students
- 1,500 growth companies and 14 000 participants
- CEOs of more than 100 listed companies present



Pace University
New York



PhilaU Nexus
Design Factory
Philadelphia







DESIGN FACTORY KOREA

Design Factory
Korea
Seoul

## Educating World's best product developers? Sino-Finnish Centre Shanghai





Swinburne
Design
Factory

**Hactory** *Melbourne* 





The awarded CHEMARTS project combines students of arts and design and students of chemical technology in order to produce new concepts for the forest industry. Examples vary from smart clothing to new cellulose fabrics.

**A?** 

**Aalto University** 

# Three collections from Aalto University students in the finals of the Hyères Fashion Festival 2015

The judges of the annual competition represent the top international figures in the fashion world.

## Service design and the City

Dep. of Design prof Tuuli Mattelmäki

- Research collaboration with Helsinki from 2009 ->
- Platform for experimenting, engaging, learning and developing
- Research themes from human-centered design to crosssector collaboration and social and healthcare services
- Outcomes include academic publications, MA thesis and new ideas, tools and processes





The three-year old AppCampus programme helped application developers become growth entrepreneurs and to create mobile apps with a higher degree of innovation

than average



### Synoste, which extends bone with smart metal, got millions in funding

A company which came out of Aalto University uses it's funds for the commercialisation of painless bone extension treatment.





## **€12 million capital investment into new materials**

Canatu is developing transparent carbon nanomaterial membranes for electronics manufacturers.





## Robots improve the world

ZenRobotics manufactures artificial intelligence for robots which learn efficiency in work that is dangerous for people, but necessary: recycling.



The Stormwinds project increases the safety of winter shipping and reduces the risk of environmental accidents.



**Aalto University** 

Photo: iStockphoto

