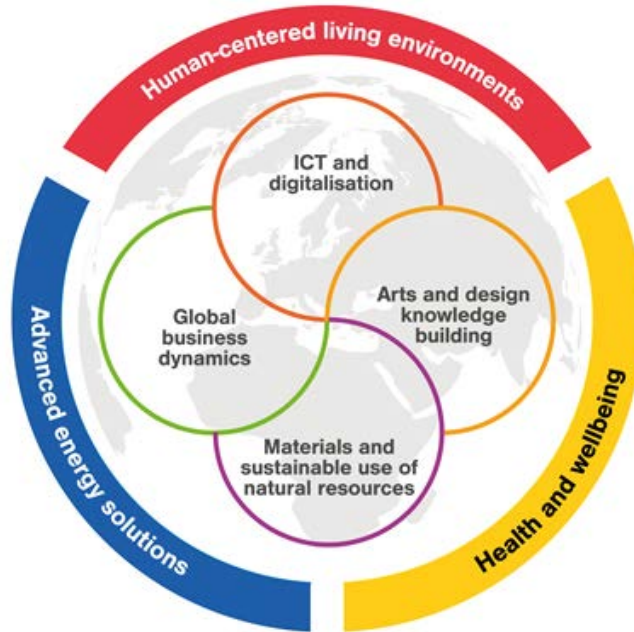


# Aalto Key Research Areas: Platforms as entry points



|                           |      |
|---------------------------|------|
| Energy Platform           | 2013 |
| Digi Platform             | 2014 |
| Living+ Platform          | 2015 |
| Health Platform           | 2016 |
| Materials Platform        | 2016 |
| Entrepreneurship Platform | 2017 |
| Experience Platform       | 2018 |

# Aalto Platforms' Activities

## Events, Networking, Training, and Practice

Getting people talking across the disciplinary boundaries and collaborate in-house and with industry

## Multidisciplinary Collaboration

Connecting artists, technical, and scientific researchers through projects and event support

## Seed Funding

To support external funding applications, emerging research lines, and mobility between departments

## Visualization of Research

Photo shoots, graphic design and exhibitions



# Platform Activities



Networking



Visibility



Events

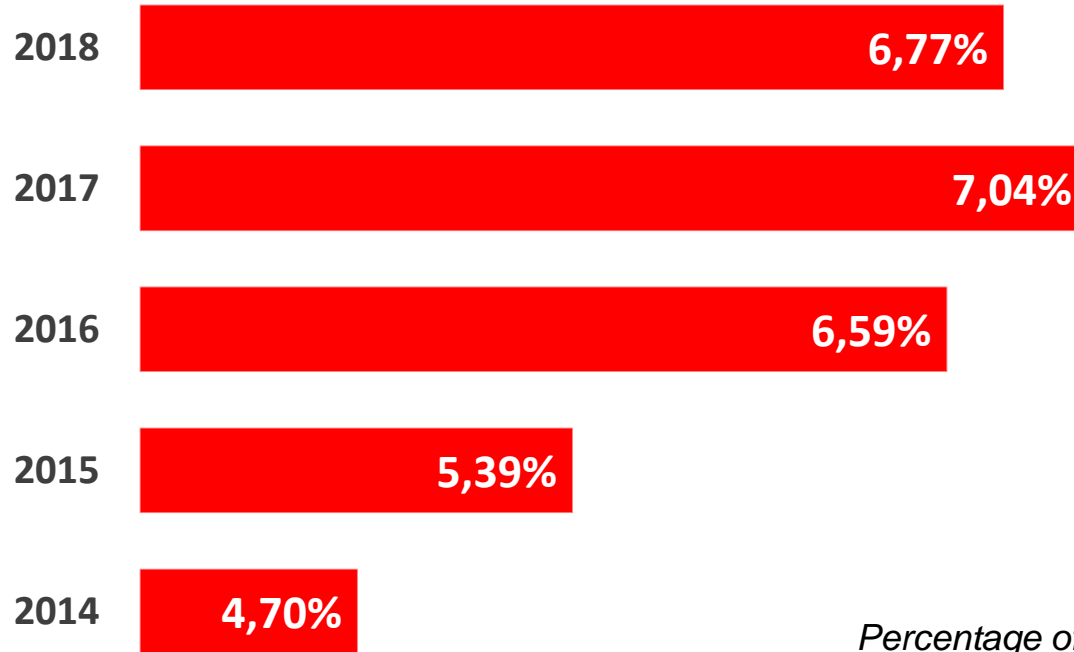


Access To  
Collaboration



Seed Funding

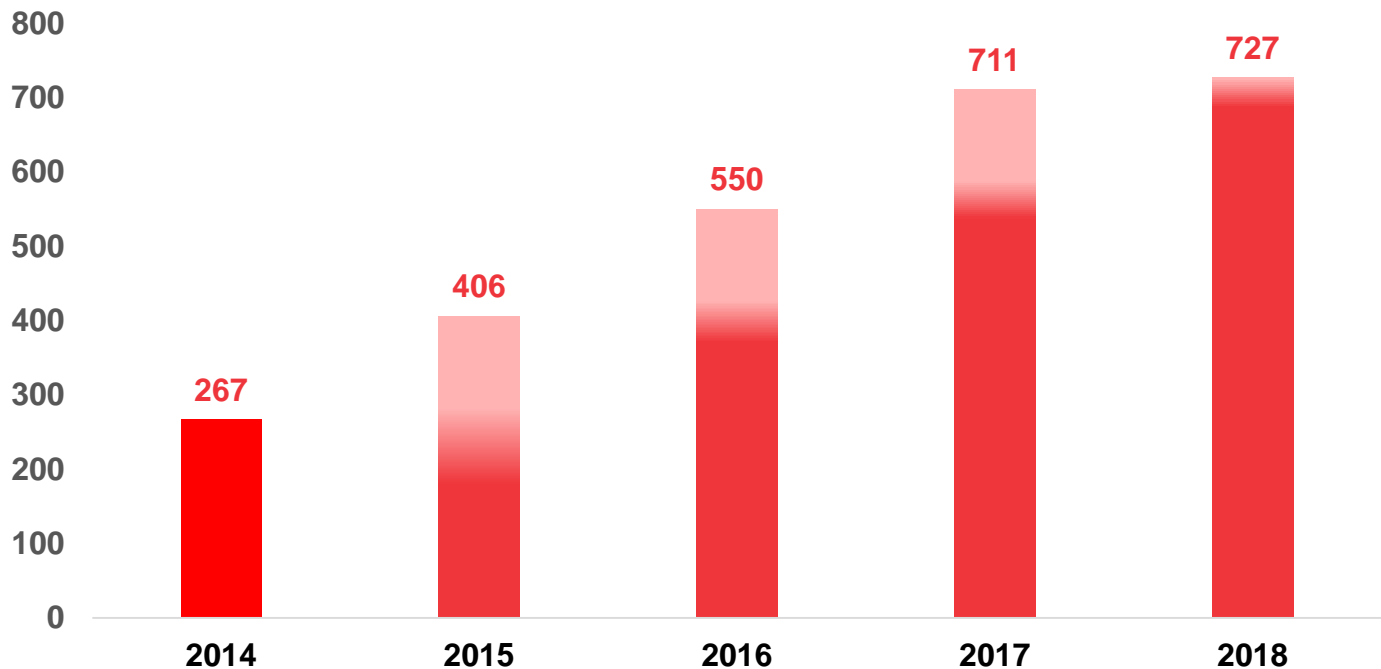
# Multischool publications are showing increasing trend



# Statistics

| Platform name      | Established in | Aalto professors in the field | Events | Event Participants |
|--------------------|----------------|-------------------------------|--------|--------------------|
| Digi               | 2014           | 160                           | 9      | 1400               |
| Energy             | 2013           | 65                            | 8      | 450                |
| Entrepreneurship   | 2017           | 40                            | 5      | 400                |
| Experience         | 2017           | 50                            | 11     | 1200               |
| Health             | 2016           | 91                            | 7      | 1900               |
| Living+            | 2015           | 137                           | 13     | 450                |
| Materials          | 2016           | 85                            | 9      | 650                |
| Sustainability hub | 2018           | 97                            | 12     | 1200               |

# Multischool projects tripled from 2014 to 2018



# Multidisciplinary Aalto

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74

Platform  
events

30

Seed grants

259

Multischool  
publications

727

Multischool  
projects

# Success Stories of the Seed funded grants (examples)

|  |           |
|--|-----------|
| Industrial Internet for Smart Factories, STN, Riku Jäntti  | 3,70 M €  |
| Scaling Blockchains for open IoT Platforms, Mäntylä Martti   | 1,07 M €  |
| INovel nanomaterials enabled OpTical Information processing for energy-efficient data Centres Tekes, AoF. Zhipei | 1,16 M €  |
| Improving access to audiovisual resources through semi-automatic data analysis, Kurimo Mikko                     | 1,20 M €  |
| Building stock to optimally support the evolution of sustainable energy system, Risto Kosonen                    | 0,67 M €  |
| Surface-enhanced coherent anti-Stokes Raman scattering for lipid imaging, Markku Sopanen                         | 0,50 M €  |
| Transparent & flexible Li-organic 3D thin-film microbattery, ERC Proof of Concept, Maarit Karppinen,             | 0,15 M €  |
| Improving access to audiovisual resources through semi-automatic data analysis, Kurimo Mikko,                    | 1,20 M €  |
| FinnCERES 4,5 M€, ERC,2,5 M€, Kone Branch 2015, Academy Fellow0,5 M€, Orlando Rojas                              | ~7,50 M € |



# Digi Platform

## Focus Areas

Digital Services

Big Data

Industrial Internet

Robotics

Virtual and Augmented Reality

Telecommunications

Chair Jaakko Lehtinen

Manager Krisztina Cziner



# Energy Platform

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## Focus Areas

Power engineering

Energy and mobility

Energy storage conversion

Energy in built environment

Sustainable energy production

Energy systems and resource economics

**Chair** Yrjö Neuvo

**Manager** Samuel Cross



# Entrepreneurship Platform

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## Focus Areas

Innovation ecosystems

Technology commercialization

“One-stop” entrepreneur guidance at Aalto

Societal Impact

Entrepreneurship

Disruption

Sustainable business venturing

Chair Arne Kroeger





# Experience Platform

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## Focus Areas

Design  
Artistic Productions  
Fashion and Textiles  
Experience Research  
Products and Services  
Games and Gamification

Chair Virpi Roto  
Manager Markus Ahola



# Health Platform

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## Focus Areas

Digital Health  
Management in H&W  
H&W Architecture and Design  
Neuroscience and Neurotechnology  
Biomedical Engineering  
(medical and research devices)  
Biotechnology  
Biomaterials & Chemistry in H&W

**Chair** Paul Lillrank  
**Manager** Markus Mäkelä



# Living+ Platform

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## Focus Areas

Digitalization

Inclusive Environments

Design and Planning Competence

Technological Breakthroughs

**Chair** Pirjo Sanaksenaho

**Manager** Aija Staffans



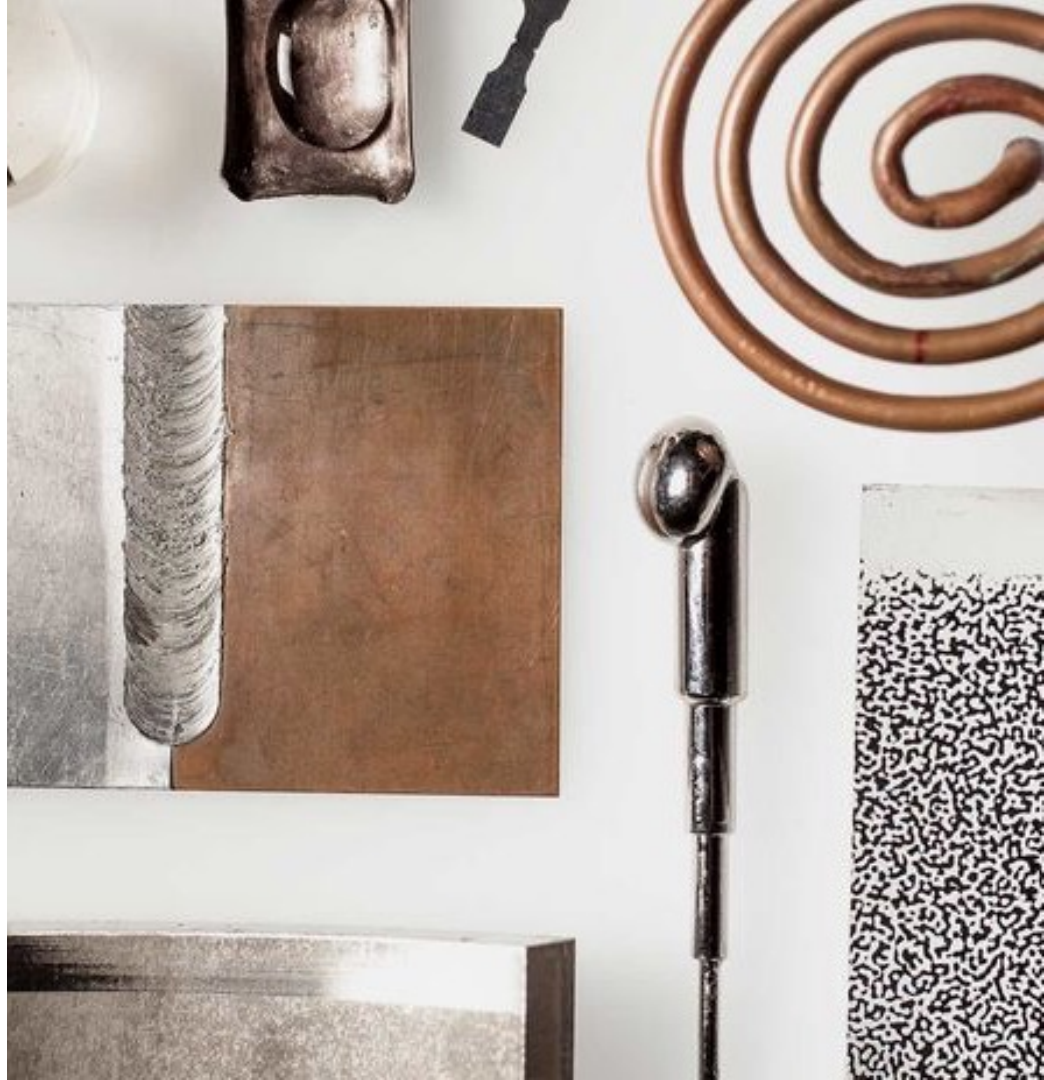


# Materials Platform

## Focus Areas

Design and function  
Recycling and upcycling  
Management and marketing  
Synthesis and manufacturing  
Characterization and modeling  
Materials research, education and impact

Chair Orlando Rojas  
Manager Heidi Henrickson



# Sustainability Hub

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## Focus Areas

Co-creation

Circular economy

Campus as a living lab

Chair Minna Halme

Managers Meri Löyttyniemi & Taru Henriksson

