

Eindhoven University of Technology

- Central in Europe
- Top-ranking Dutch University
- Heart of the Brainport region
- World-leading in collaboration with innovative industry



Educating the engineers of the future

- T or Π shaped
- Interdisciplinary
- Entrepreneurial
- System thinking



TU/e innovation Space

Education Strategy 2030:

Challenge-Based Learning



Challenge-Based Learning







innovation







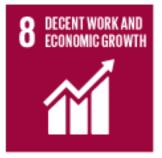






















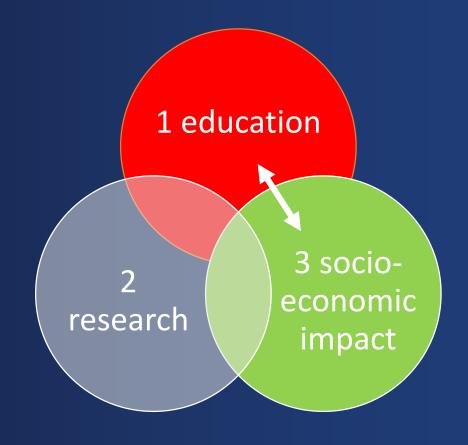








Three missions of a university



Innovating education by connecting education to practice, for contributing to socio-economic impact, via challenge-based, hands-on, interdisciplinary projects, thereby developing engineers of the future

TU/e innovation Space offers:

- Courses
- Student projects
 - teams
 - start-ups
- Physical space
- Community





Education

- Interdisciplinary teams
- Learning by doing
- Real world and open-ended challenges
- Entrepreneurship and engineering design
- Coaching by industry and university partners
- Personal & team development



interdisciplinary BEP

Topic Evolving sensor swarms for

exploration of underwater systems

Challenge Use software and hardware

technology from a research project to

carry out validation experiments in a

pool and water distribution

companies

Owner + + + + + Antea

Disciplines - Built-Environment

Computer Science

Mechanical Engineering

Electrical Engineering

Industrial Design



Open-Ended Challenge

Theme Space

Challenge Develop an application combining

satellite data with possible other big

data inputs, addressing a specific

social or business problem.

Applicants European Space Agency

Netherlands Space Office

Disciplines preferred

Computer Science

Sustainable innovation

Pyschology & Technology

Industrial Engineering

Industrial Design



STATS 2018-2019

1628 students in TU/e innovation Space 8365 ects in TU/e innovation Space

22

8

59

43

8

323



Total Courses



Challenges Needed



Challenges Sourced



Challenges Finished



Challenge Themes



Students Participated

innoApproach

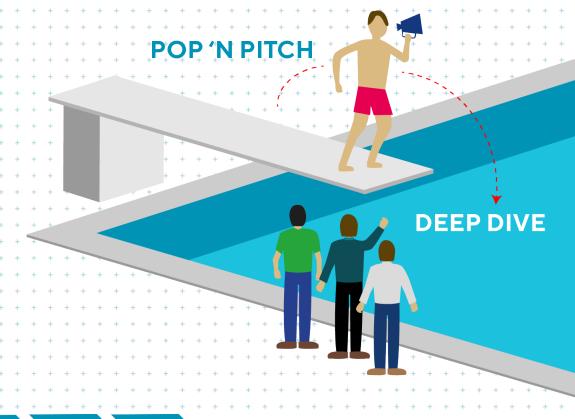
Tailored workshops to develop your personal as well as professional skills!

→ 9th and 10th hour (17:30 – 19:00)











COACHING WHERE POSSIBLE

EXAM WEEK

Student projects























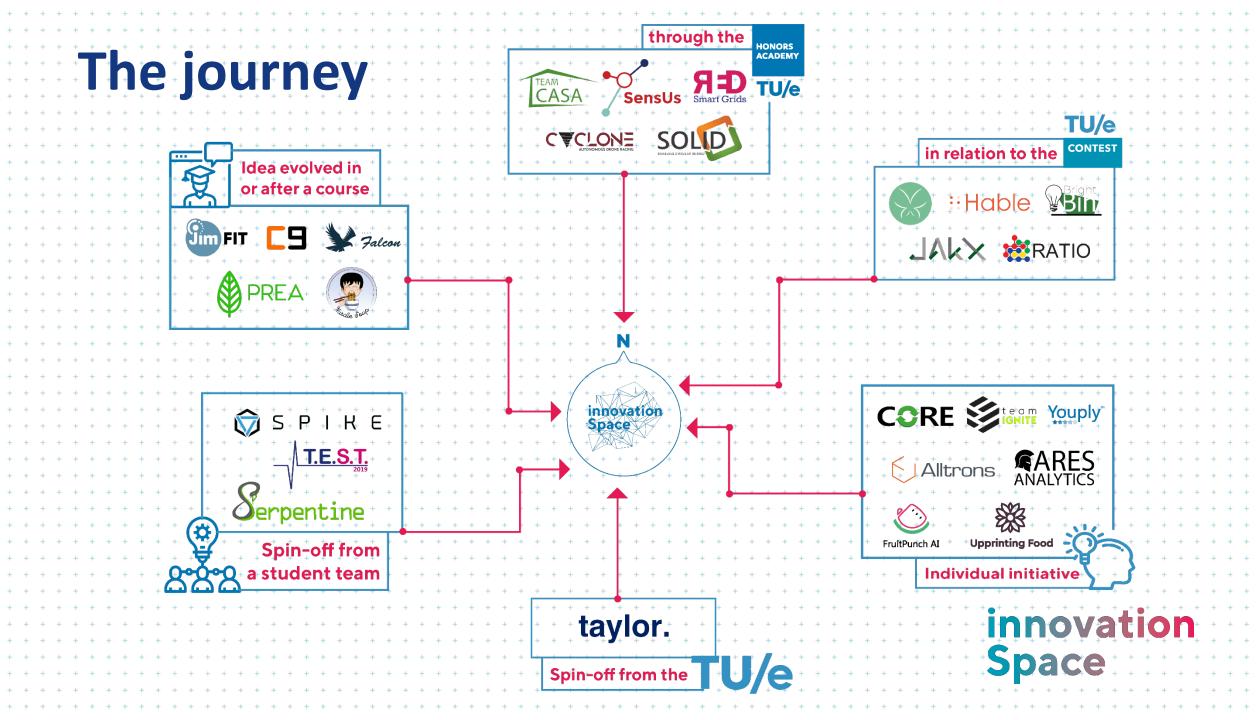








innovation



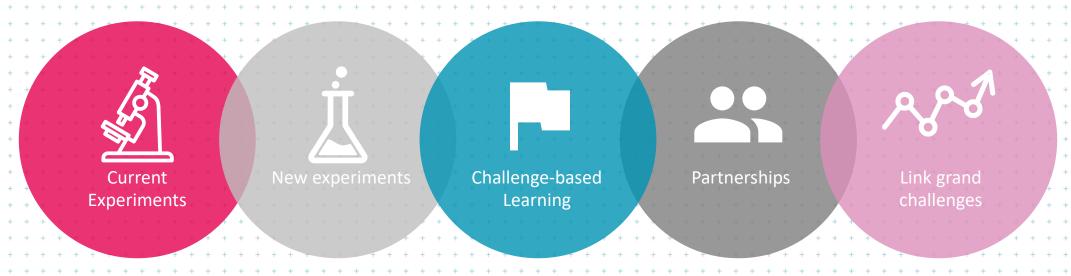
Community

- Broad network
- Trainings
- Fun events!





Future developments



Improve experiments
ISBEP and
Innovation Space
Project

Set up new experiments

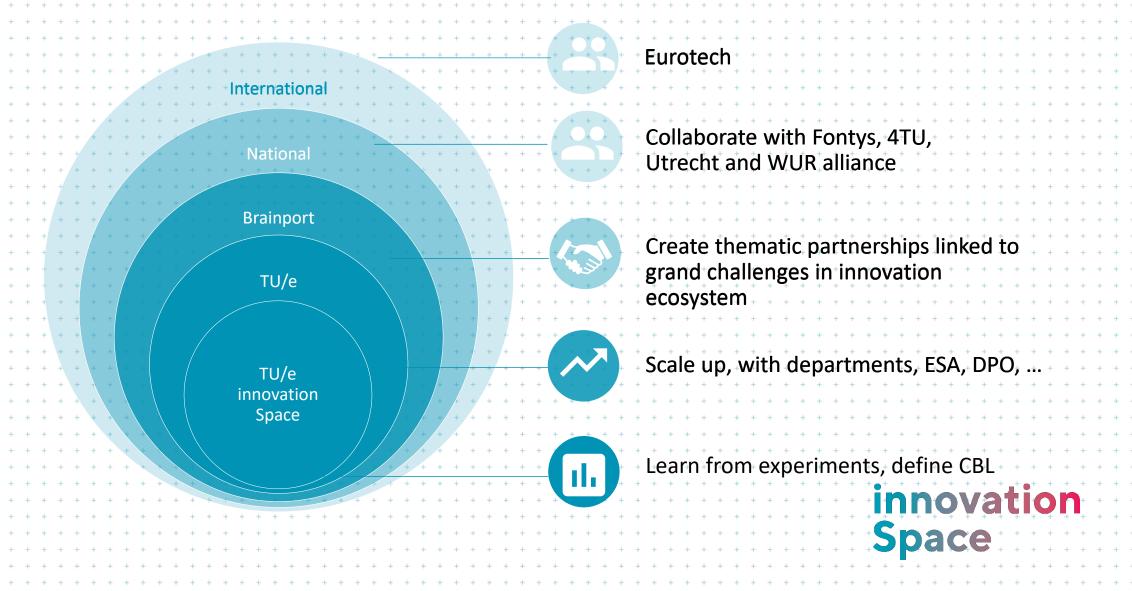
Further develop the concept of Challenge-Based Learning

Create partnerships
to offer challenges
in themes, like
Agro-Food and Tech
and Articifial
Intelligence

Link projects to grand challenges (inspired by EU mission-oriented policy)



Next steps in collaboration





Let's keep in touch!





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innovation Space

from dream to demo

