

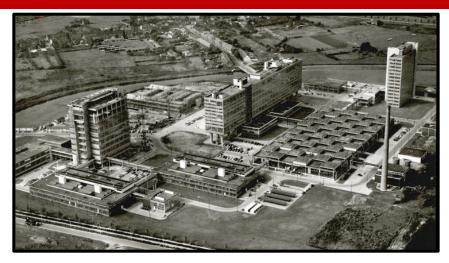
# I. The TU/e case study

## TU/e & Brainport Industry: A long standing partnership





## It all began in 1956







## And this is where we stand today: Facts & Figures







#### **TOP-RANKED DUTCH UNIVERSITY**

Eindhoven University of Technology (TU/e) is a first-rate research university specializing in engineering science & technology in the Netherlands.



TU/e is situated in the heart of one of the most innovative communities in the world: Brainport, renowned for technology and design.

#### STRONG TECHNOLOGY **HERITAGE EINDHOVEN**

With companies such as Philips, ASML, DAF, NXP, Thermo Fisher, Vanderlande and VDL, the Eindhoven region has a strong heritage in technology.















The Netherlands

#### **TOP-RANKING DUTCH UNIVERSITY**



#1 in Public-private collaborations and co-publications with industry and academia



#1 in Student retention rate

108

**STUDY PROGRAMS** 

RESEARCH **AREAS** 

15 bachelor's programs

24 master's programs with 60 master's tracks

9 Engineering Doctorate programs

PhD programs in all research fields

#### AWARD WINNING TYPE OF EDUCATION Focus on societal challenges:





**CHALLENGE-BASED LEARNING:** 



SMART

**MOBILITY** 

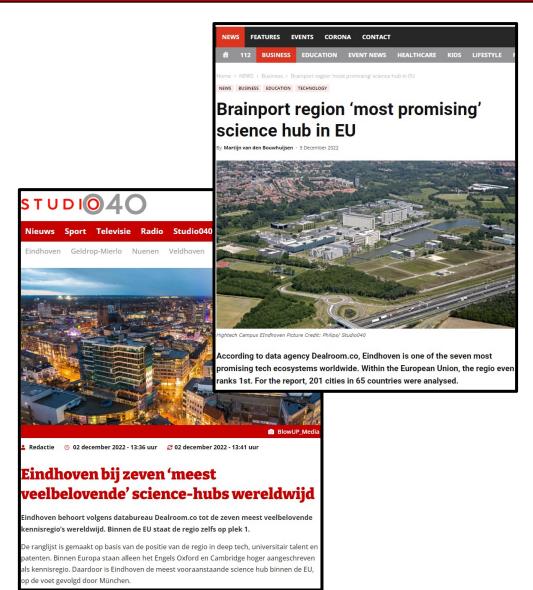
#### **TU/e CAMPUS**

The TU/e campus is a 'technological hot spot' in parkland surroundings, in the city center of Eindhoven, in which university, technology institutes and companies drive innovation together.





#### Eindhoven – Tech Powerhouse







# II. How does the TU/e collaborate with industry?

### How do we do it.

#### **Education**



- Hybrid teachers
- Challenge based learning
- Student Teams

#### Research



- Joint projects
- Co-publications
- Shared facilities

#### Valorization



- Start ups and spin-offs
- Investments



# III. The benefits of collaboration with industry

## The Benefits of Collaboration with Industry



## The Benefits of Collaboration with Industry







#### **Higher quality of education:**

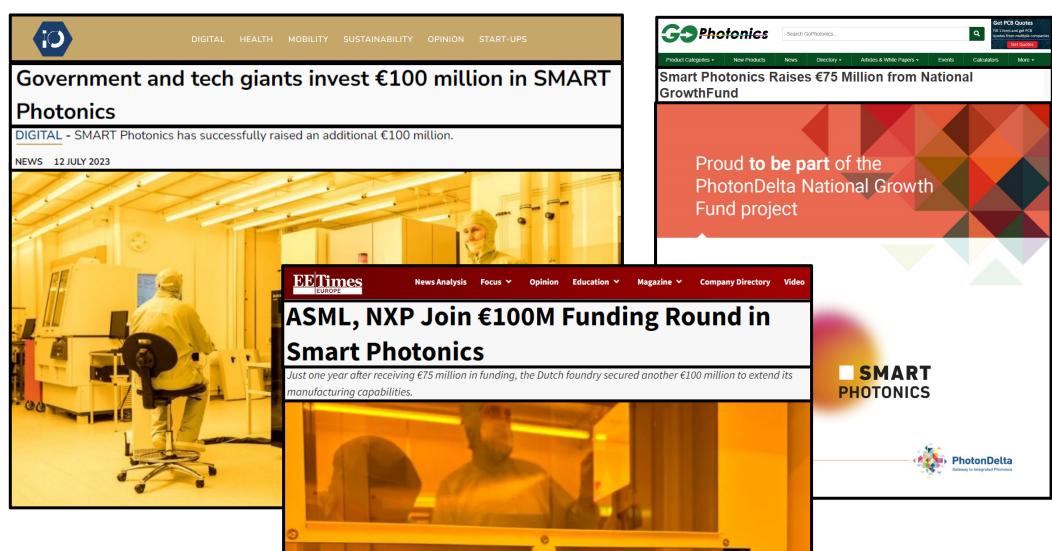
#### **Challenge Based Learning: Dutch Higher Education Award & Triple E Award 2022**



# Access to unique expertise and resources Providing state-of-the-art research facilities: Thermo Fisher



# Responding to current, relevant issues Smart Photonics





#### Contributing to new earning capability with great societal relevance ELEO





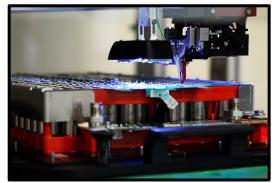
Net geopend door de koning en nu al te klein: Helmondse batterijenfabriek Eleo gaat uitbreiden

HELMOND - De nieuwe batterijenfabriek van Eleo is nog niet door de koning geopend of het volgende bouwplan ligt al klaar. De vraag naar batterijen voor elektrische bouwmachines en tractoren groeit explosief.

eter Scholtes 26-01-23 17:38 Bron: FD





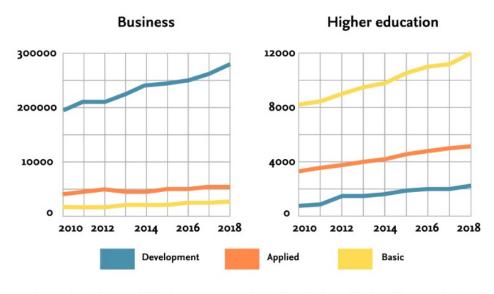


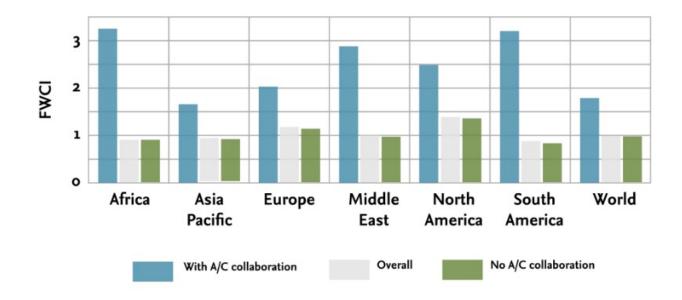




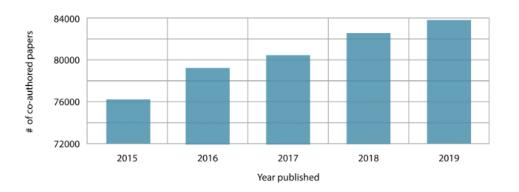


### Co-publications university/industry have the greatest impact



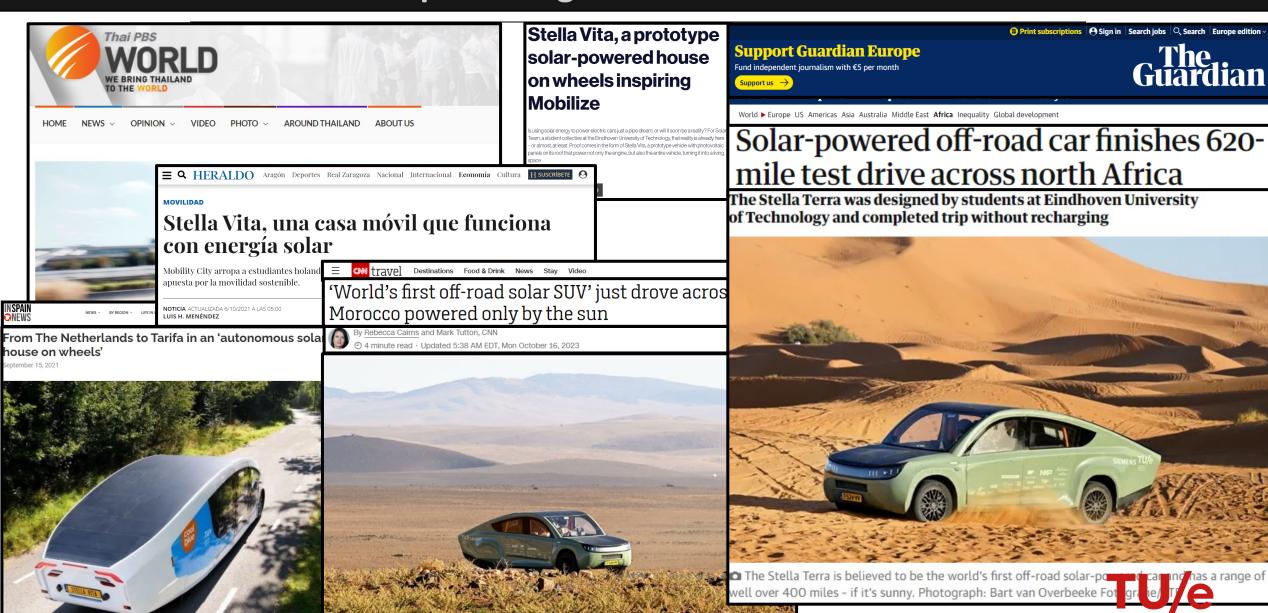


Source: NSF, National Patterns of R&D Resources: 2017-2018 Data Update. Expenditure in millions constant 2012\$.





# **Enormous Benefits for Students Sponsoring Student Teams: Solar**



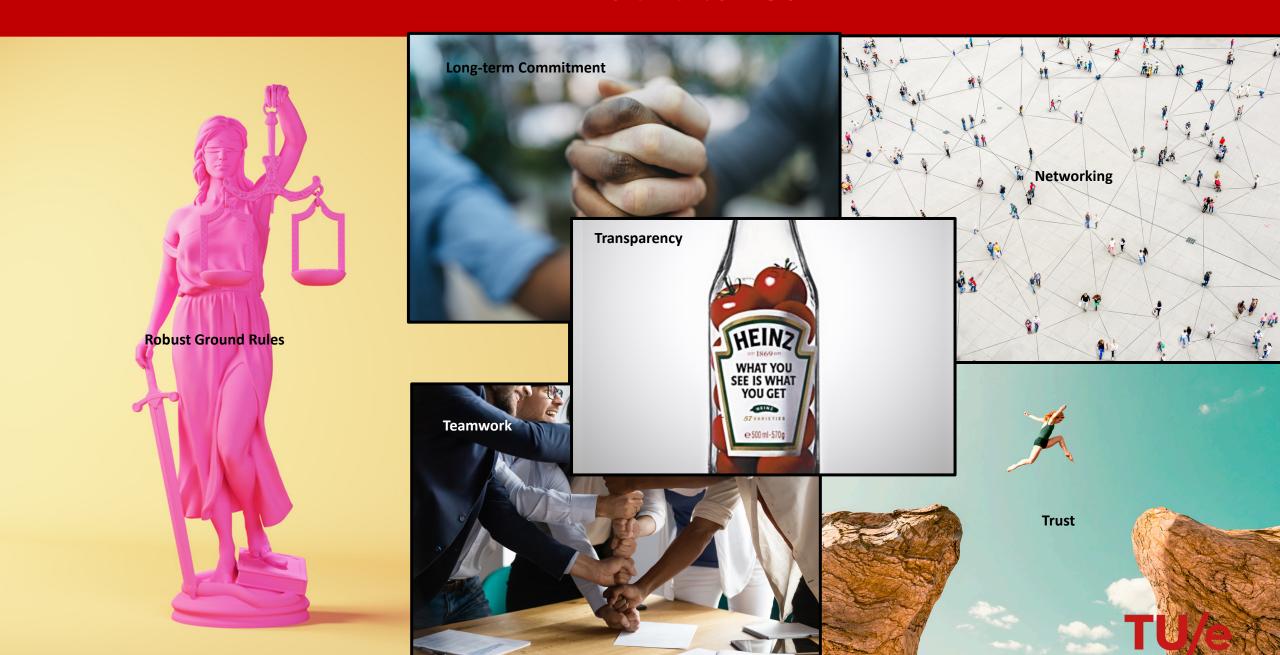
# IV. Robust ground rules

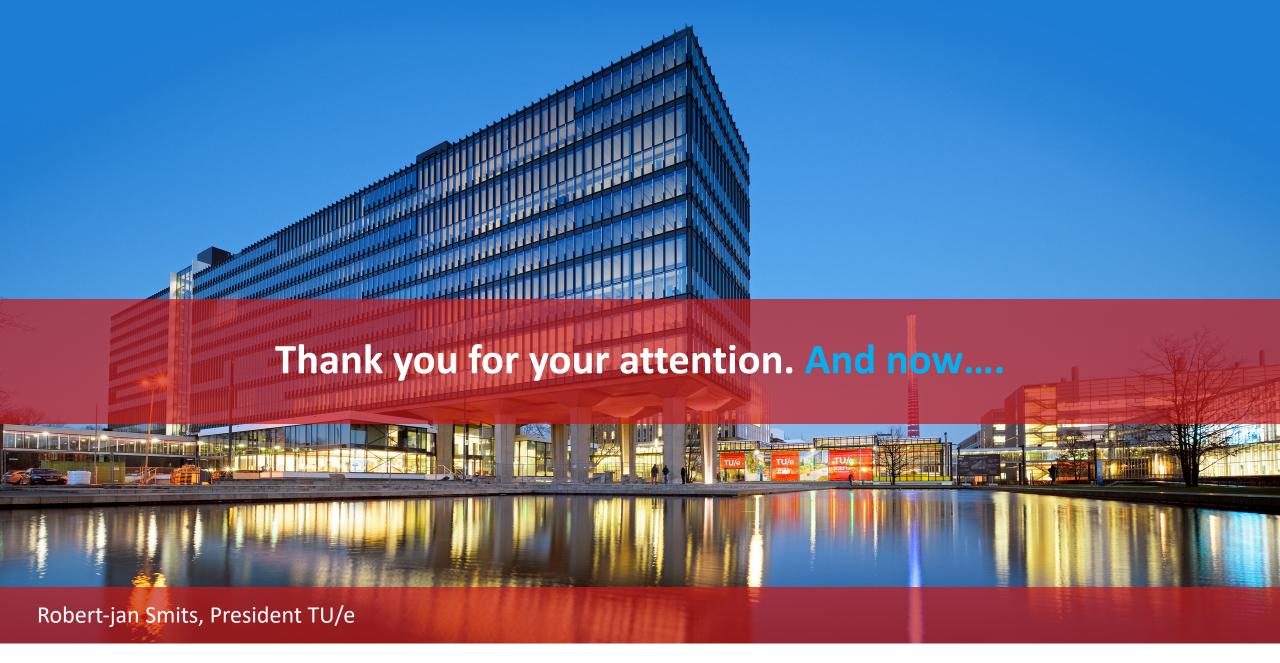
## **The Right Ground Rules**



# V. Conclusion: what it takes

### What it takes







## Nice meeting you