Welcome to the TU/e scale jump update

November 17, 2022, Robert-Jan Smits, Frank Baaijens, Nicole Ummelen and Kees Storm
The Brainport region is booming!
Here’s why:

Minister Mark Harbers over geld voor bereikbaarheid regio: ‘Brainport dient een enorm nationaal belang’

56,000 vacatures in Brainport in 2030

Nergens zoveel groei als hier: de economie rond Eindhoven trekt flink aan

Vergeet Silicon Valley, kom naar Eindhoven

Honderden miljoenen naar regionale hightech; duizenden banen erbij in Zuidoost-Brabant
Brainport offers solutions to the world’s societal issues

- Smart Mobility
- Health
- Sustainability
- Energy Transition
Strategic agenda Brainport Region: 3 pillars

Innovation, technology & entrepreneurship

Talent: the fuel for our technological engine

Living environment and business climate

5 Update scale jump, November 2022
Coalition Agreement: “Together with the Brainport Region we will further develop its Mainport status”
Why? Rationale for a Brainport scale jump

Increase in Public R&D spending needed in Region

Gross added value industry

Technological sovereignty EU
Request from Brainport to us

“Are you willing to join us in the scale jump of our region”?

Answer TU/e: YES!
Why? Rationale for a TU/e scale jump

TU/e is the main source of Brainport talent

- 82% Graduates working in Brainport
- 13% TU Delft
- 5% Utwente

TU/e is driven by societal challenges

Proximity matters...

Graduates working in Brainport

9 Update scale jump November 2022
Because we are born out of industry
What’s in it for us?

Firm TU/e links between research and education mean we can

- Grow in **staff and facilities**
- Grow in **quality and excellence**
- Grow in **relevance**: strengthen and develop new things

...as we grow in numbers.
We did it before..

Student numbers 2007-2022

[Graph showing the increase in student numbers from 2007/2008 to 2021/2022, with two lines representing intake and total students.]
4 dealbreaking conditions:

1. Upfront funding from the central government to facilitate growth and to keep the current workload from increasing further.

2. Growth should not come at the expense of excellence.

3. Growth should be gradual to keep the workload manageable.

4. The region must ensure that infrastructure and facilities are in place.
First step: The Think tank

Challenge

“Imagine TU/e in 2030..”

- We have doubled the number of graduates.
- These engineers possess skills relevant to Brainport.
- After they leave TU/e, they stick around in the area.

Question: What will it take to get us there?
Think tank advice in broad strokes

- **Primary focus:** Increasing the number of MSc graduates

- **Target:** Doubling MSc graduates in 2032, increase to +140% in 2035

- **Focus on** growth in domains relevant to our ecosystem
Growth scenario for number of students

Total number of students in BSc and MSc combined (x1000)

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Relevance and partnership: Diversified growth towards future needs Brainport and society

17 Update scale jump, November 2022
Greater inflow Dutch students
... but an increase of internationals will also be needed
Community and Culture: Improve stay rate in the Brainport region
And more..

- Total staff will grow by 76%
- Student-staff ratio decreases to 17:1 (currently about 19:1)
- Lower costs per MSc graduate in 2035 compared to 2022
- Number of PhD candidates grows in step with staff growth
- More room for research, teaching and support: +66% m2.
Where are we now in time?

Summer 2022
Brainport poses the question

Autumn 2022
Think Tank advice

31 October 2022
Think Tank advice discussed at Strategy Days

November 2022
Business Case

17 November 2022:
Information meeting

End November 2022
Definitive TU/e proposal for Brainport
Next steps after December

- Fingers crossed: Waiting for a positive answer Brainport ministers!

**In the meantime:**

- Internal: Regular information updates via Strategy Update, via departments and meetings
- External: Joint actions with Brainport partners

**Decision on financial support expected in April 2023 ‘Spring Memorandum’ (Voorjaarsnota)**
Are you ready to jump?

www.tue.nl/scalejump