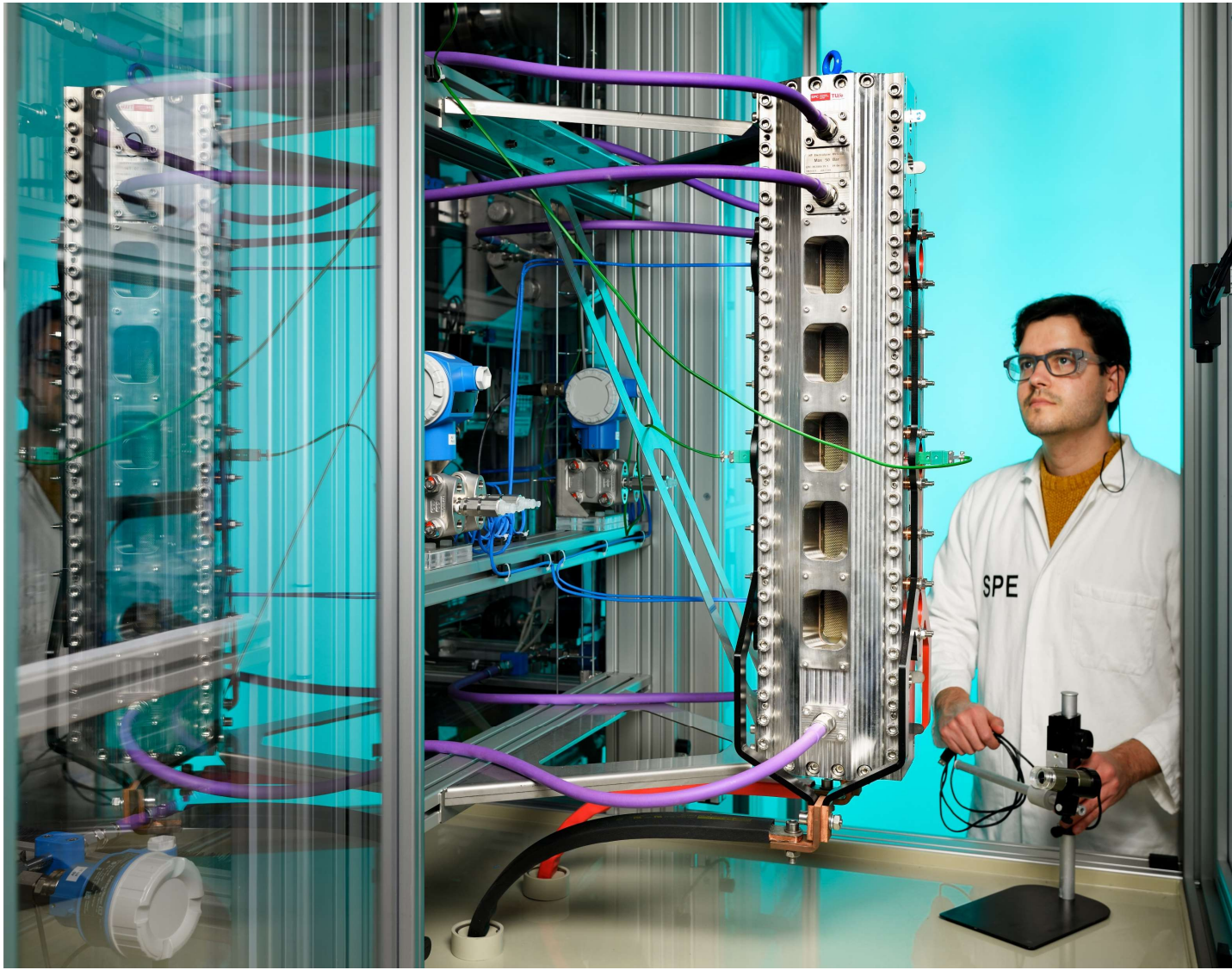


Netherlands

# EIRES: modular scaling to speed up the energy transition



# TU/e – EIRES



## Semi virtual

140 researchers + 450 PhD students

EIRES building on campus for collaboration & meetings

Incubator for student teams &



**M€ 2,5/y funding by TU/e**

Talent, infrastructure, seed money

Total contract value of ~M€ 35/y

>2 startups per year



MUSK FOUNDATION

# Modular scaling

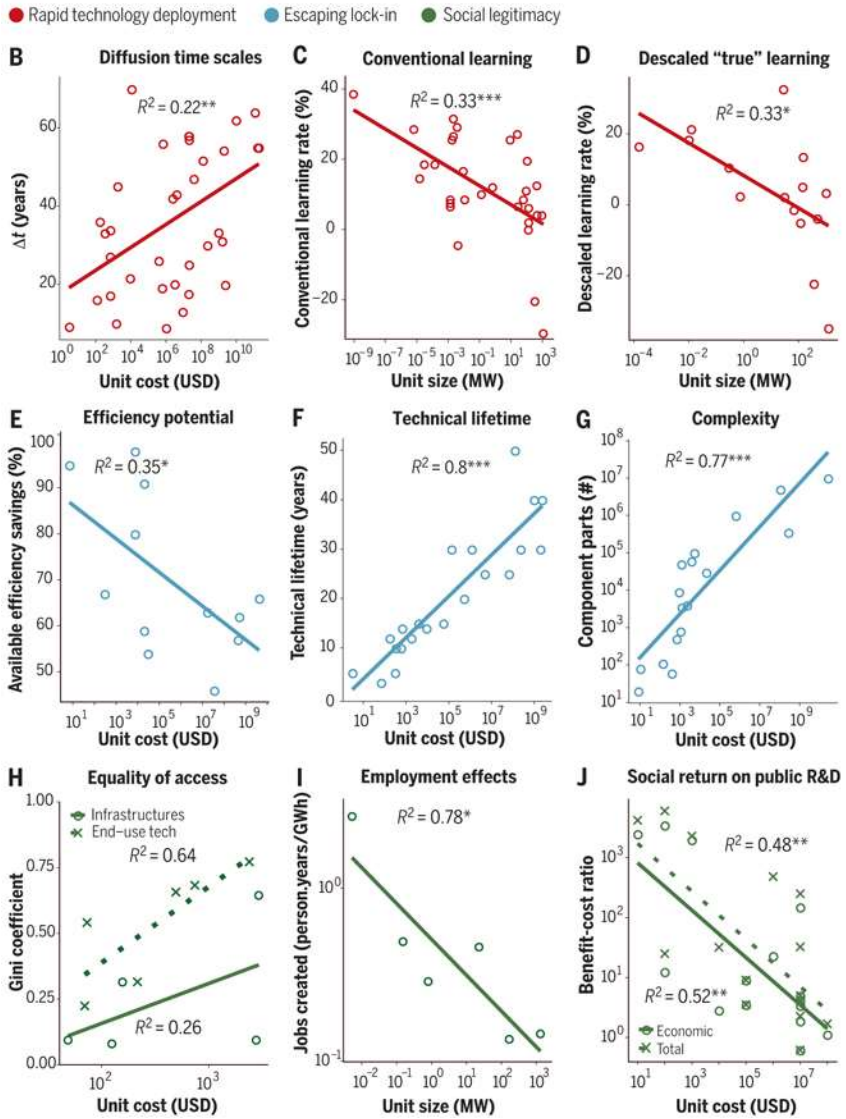


# Modular scaling

Benefits of modular technologies:

- Rapid market penetration, steep learning curves
- More efficient, less complex, less risk of lock-in
- Broader accessible, more jobs per installed capacity, higher social return on public R&D

→ Our USP – modular scaling is Brainport DNA



C Wilson et al., Science 368, 6486 (2020)

# Research focus and flagship projects

- Energy Generation & Storage: PV, batteries, metal fuels, fuel cells, fusion
- Greening the Process Industry: (electro)catalysis, electric industrial heat, small-scale chemical reactors
- Energy Transition in the Built Environment: heat pumps, batteries & networks, insulation & renovation
- System Transition & Scenarios: net congestion, digital twins, transition scenarios, just transition



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I would love to continue the conversation.

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