

PowerWeb

Intelligent, Integrated Energy
Systems at TU Delft

Peter Palensky
TU Delft

Why are we here?

- What is PowerWeb?
- Invited Speakers
- Poster Session & Networking

The Energy System

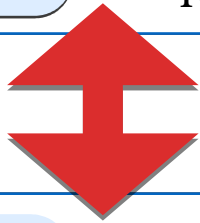
Socio-technic system

- optimize economical operation
- optimize environmental effects
- provide consumers with choice



Energy management

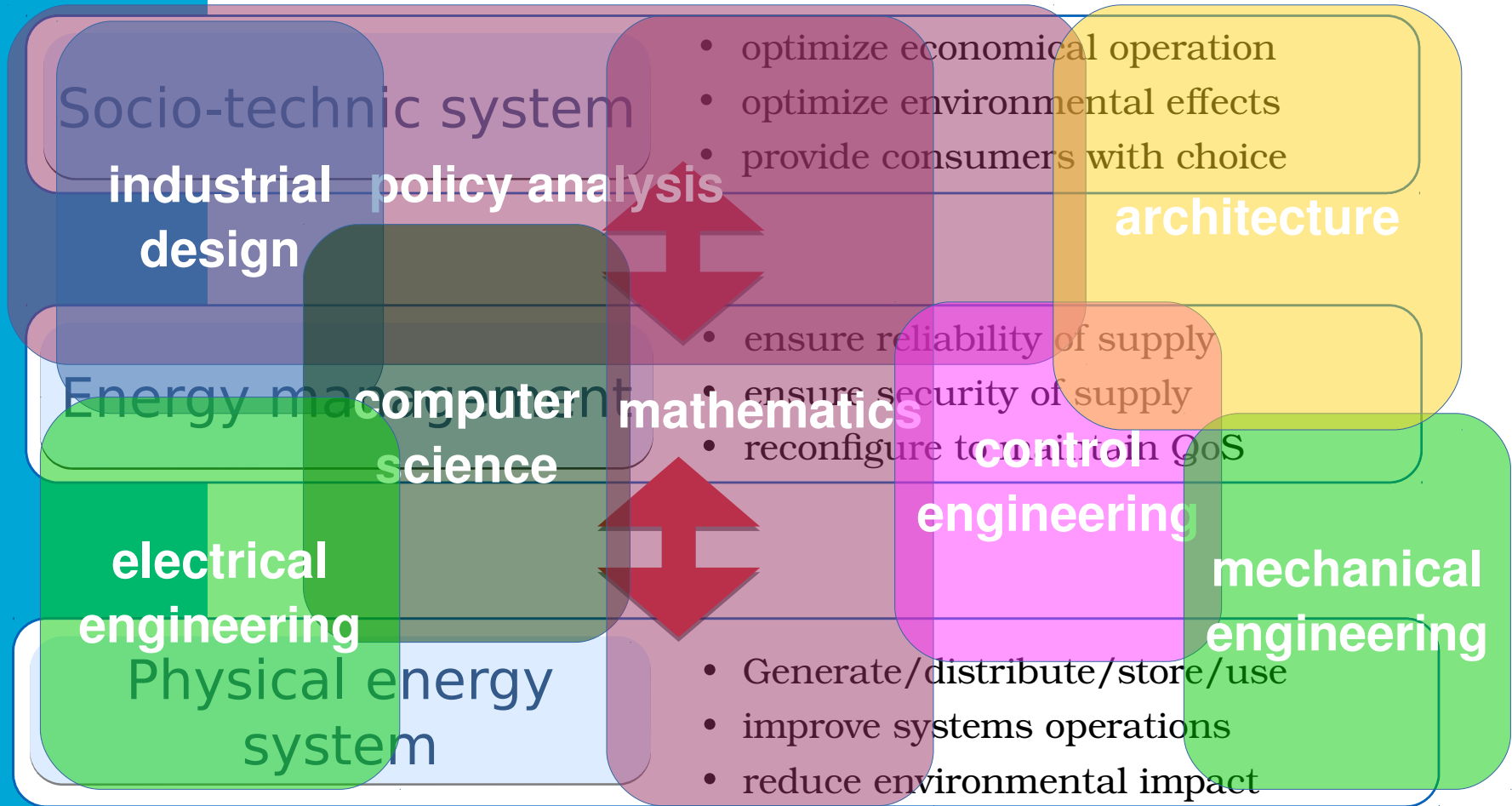
- ensure reliability of supply
- ensure security of supply
- reconfigure to maintain QoS



Physical energy system

- Generate/distribute/store/use
- improve systems operations
- reduce environmental impact

The Energy System

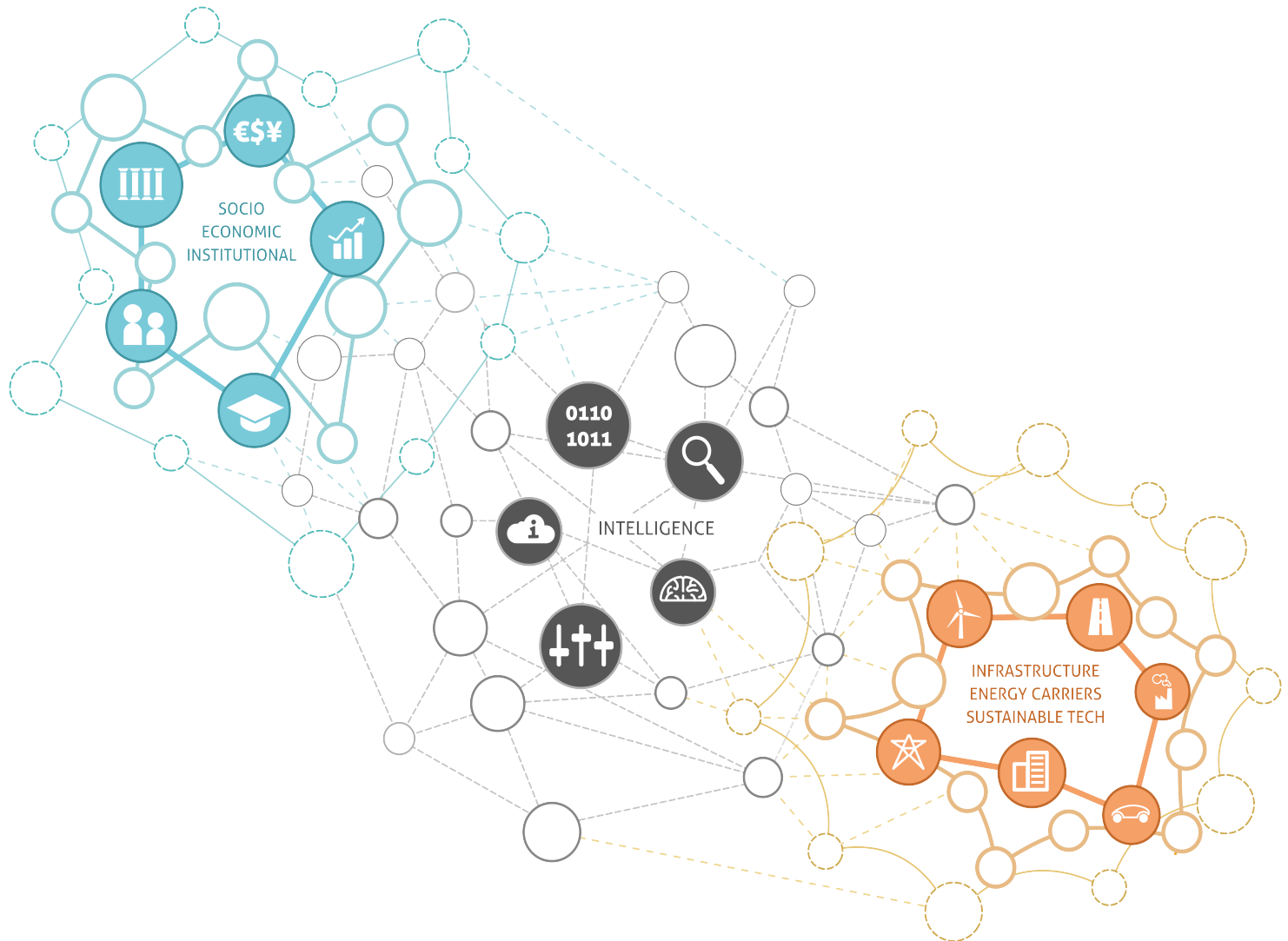


PowerWeb at TU Delft

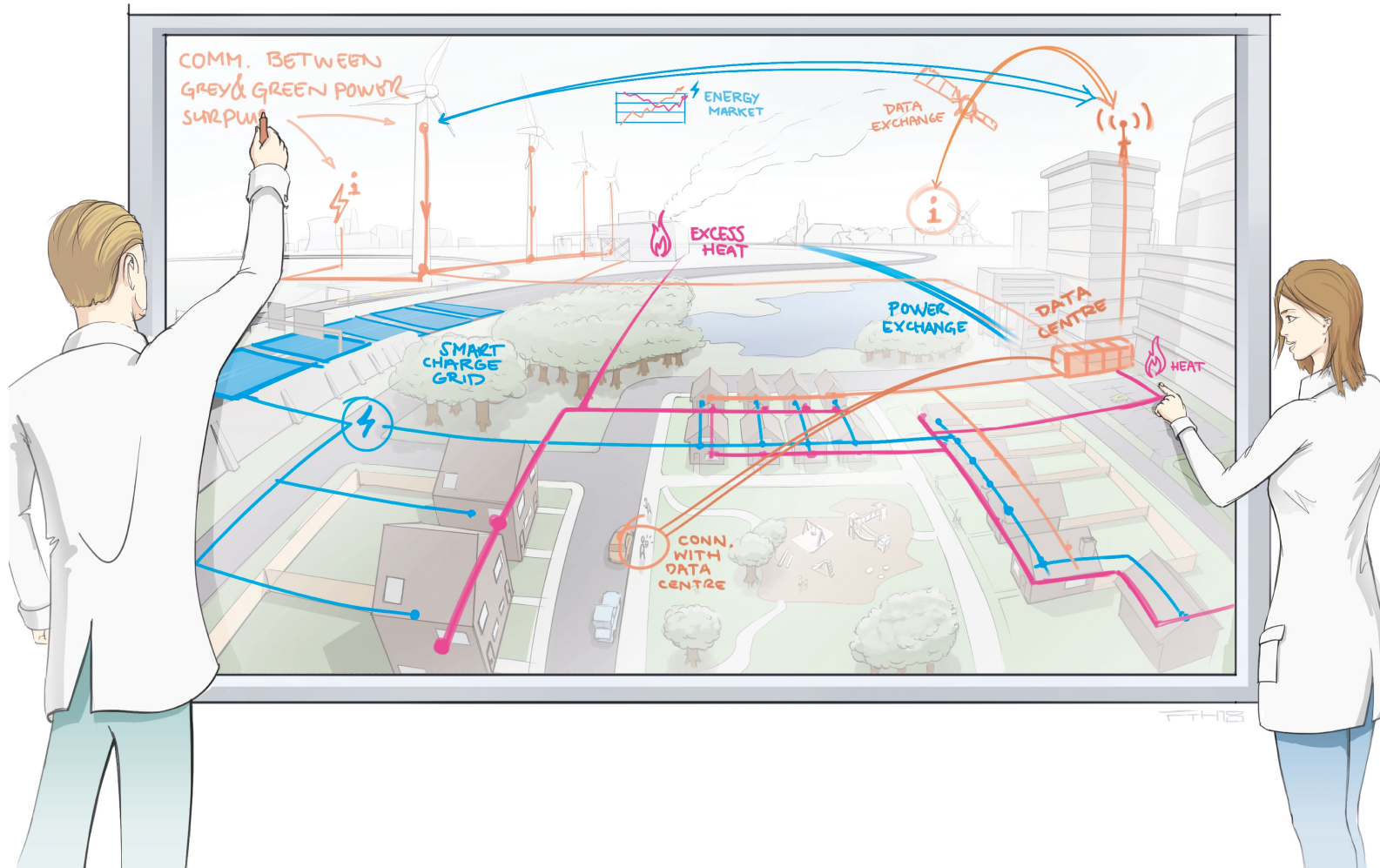
- Founded in 2012
- Ecosystem for Research and Development
- Help from Liander, TenneT, etc.
- Dozens of projects (national, H2020), invited lunch lectures, workshops with industry, etc.



Intelligence



Integration

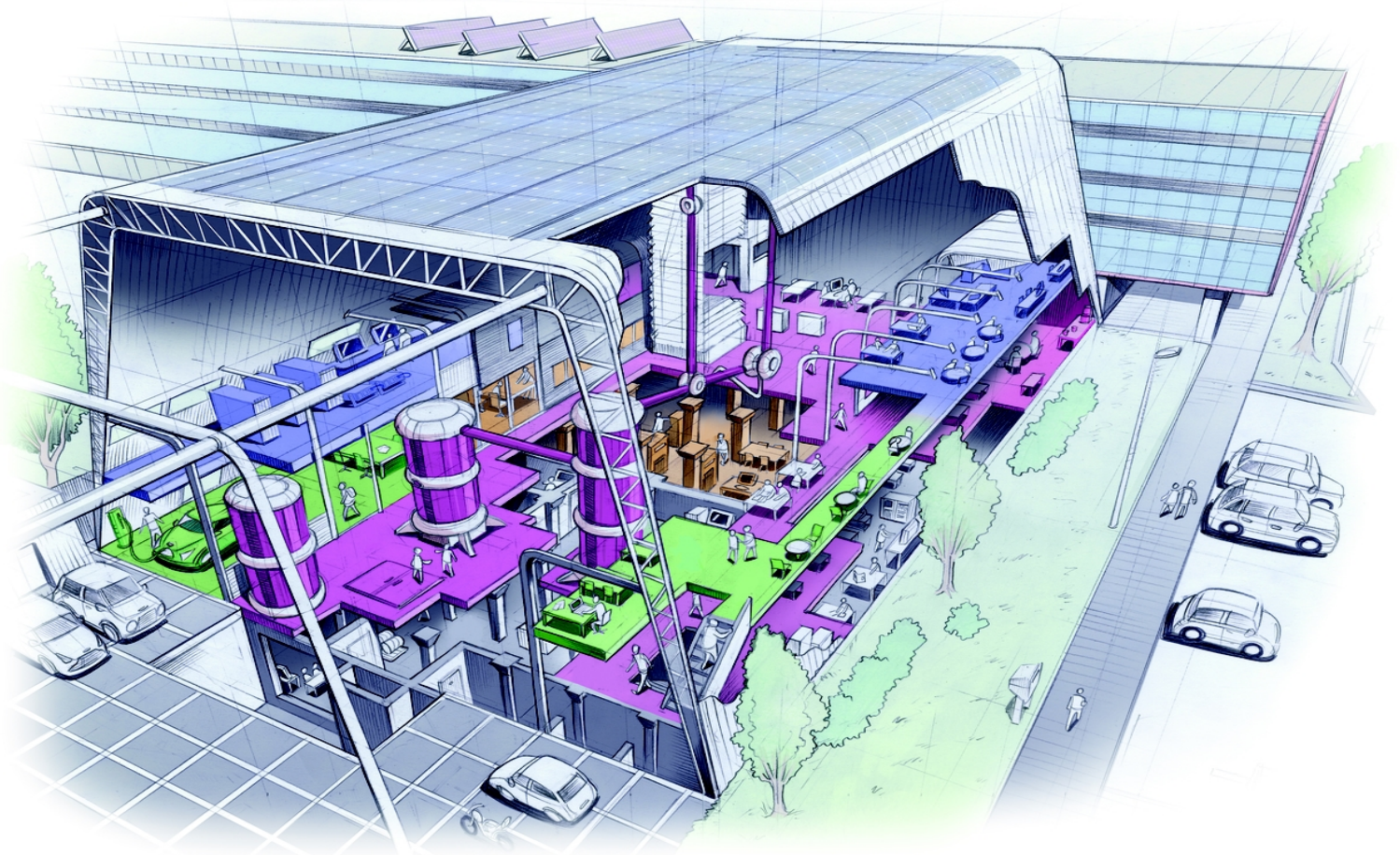


PowerWeb Activities

- Industry Advisory Board
- PowerWeb Conference
 - 2017: Smart Grid Cyber Security
 - 2018: Integrated Energy Systems
- Invited Lunch Talks
 - monthly
- Projects
- Education coordination
- One-stop shop for Industry

Infrastructure

- TU Delft Electric Sustainable Power Lab



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