

Future Energy Market Designs: Research and Innovation Needs

Experts Group on R&D Priority Setting and Evaluation (EGRD)

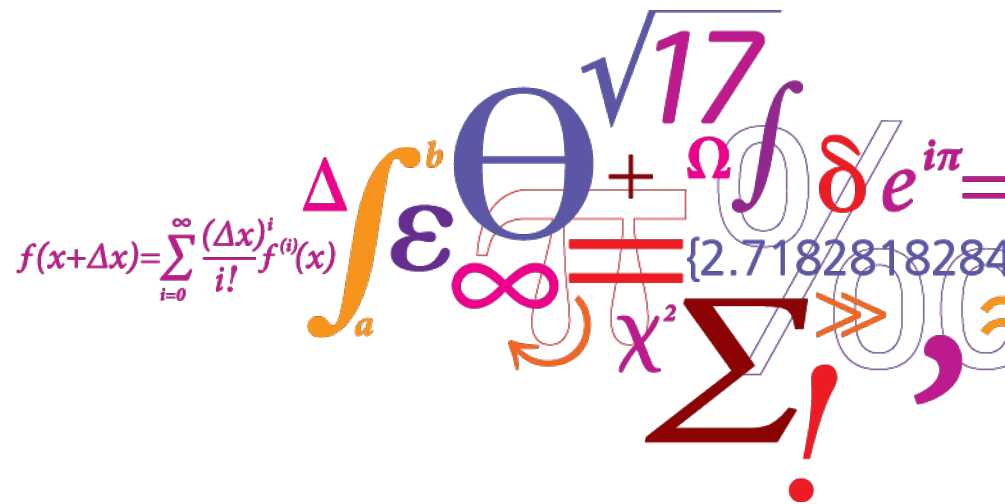
22-23 October 2018

Hosted by Projektträger Jülich

Berlin, Germany

Dr. Birte Holst Jørgensen

Acting chair of EGRD



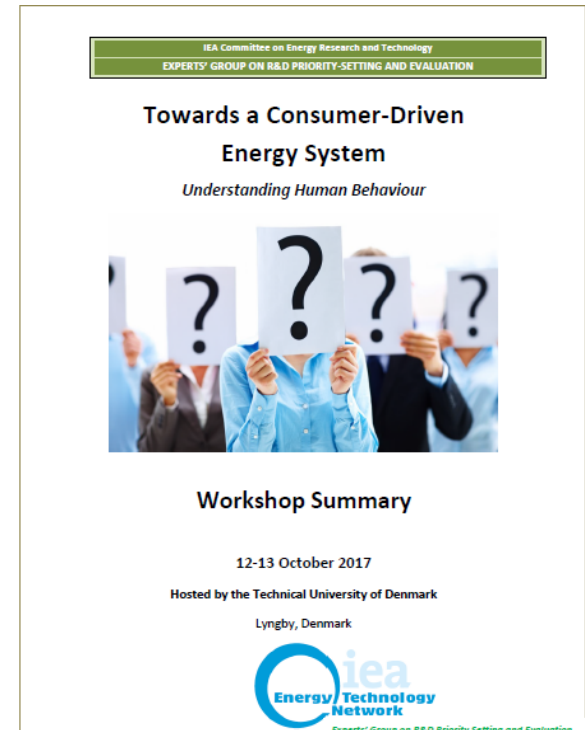
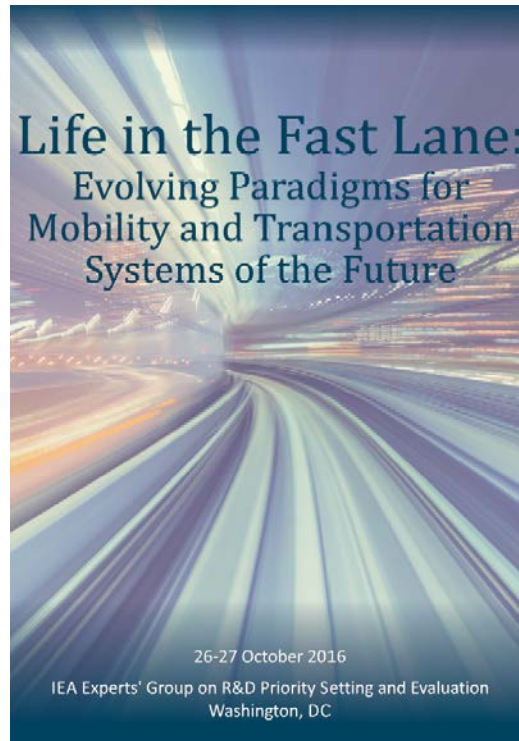
EGRD an informal advisory body

- Since 1993, the EGRD examines analytical approaches to energy technologies, policies, and R&D, more specifically promotes dialogue and information exchange on methodologies and approaches related to:
 - **Energy technology assessment**
 - **Energy R&D priority-setting**
 - **Assessing benefits from R&D activities**
- The results and recommendations support the Committee on Energy Research and Technology (CERT), feed into IEA analysis, and enable a broad perspective of energy technology issues.





Semi annual expert workshops



Summary reports available at:

<http://www.iea.org/about/structure/cert/egr/>

<http://www.ieadsm.org/egr/>

Energy transition

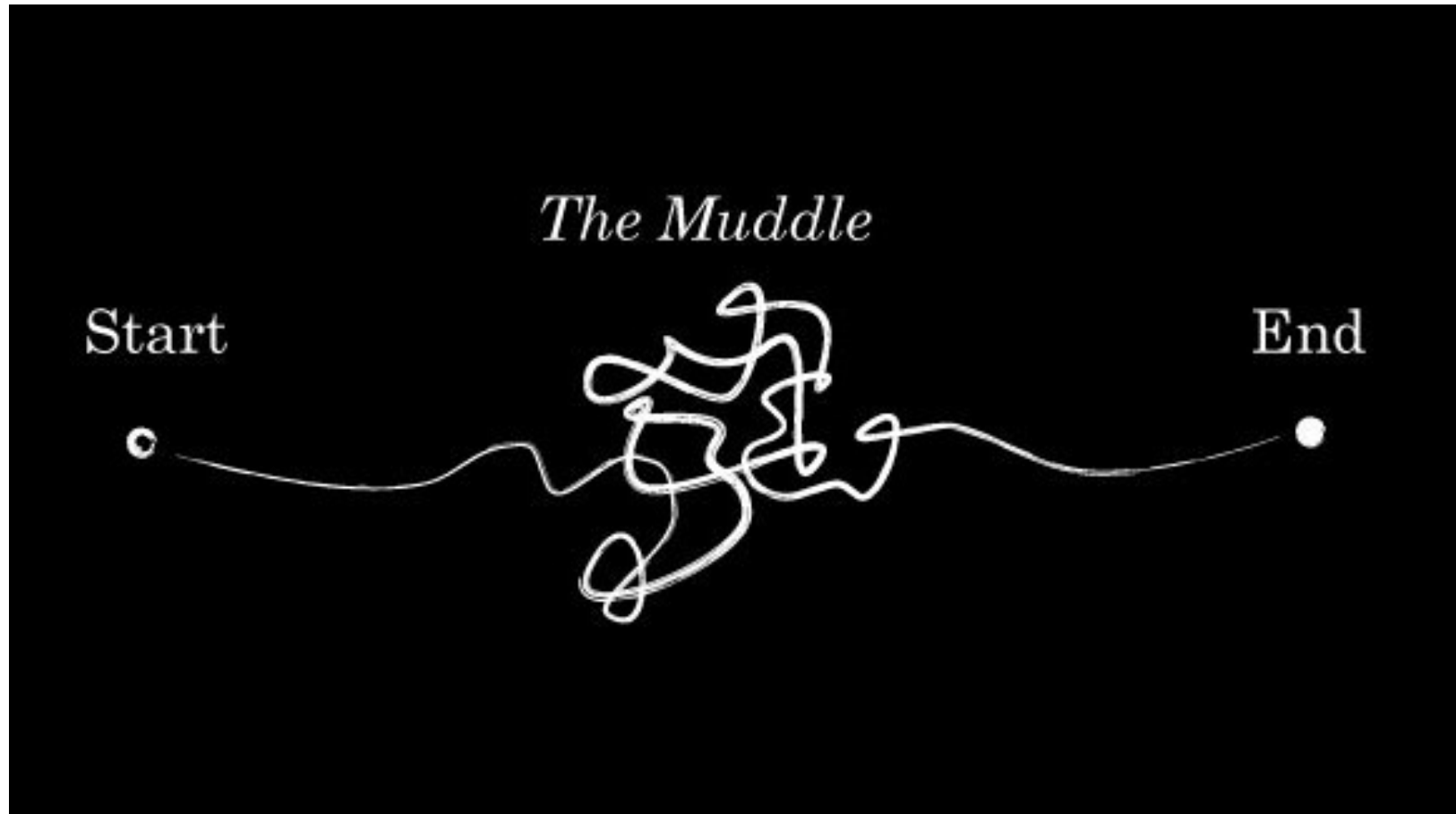


Source: McKinsey, Accelerating the energy transition: cost or opportunity? A thought starter for the Netherlands, 2016. <https://www.mckinsey.com/featured-insights/europe/accelerating-the-energy-transition-cost-or-opportunity>



Mismatch





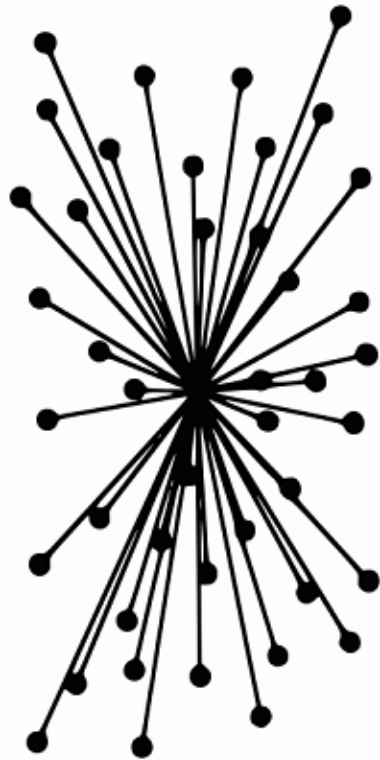
Renewables to be cost competitive with fossils fuels by 2020



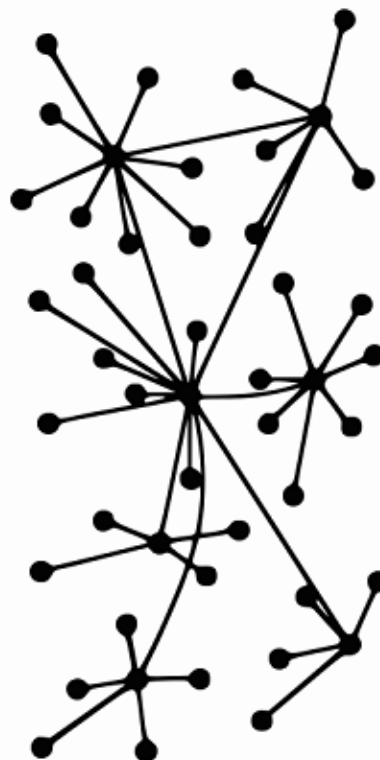
Digitalisation



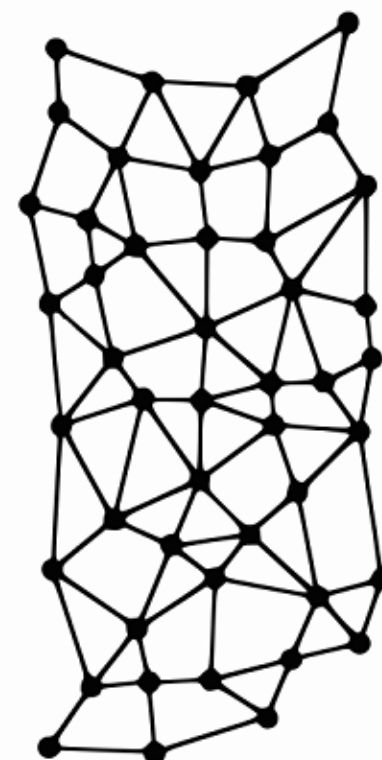
Changing infrastructure



Centralized



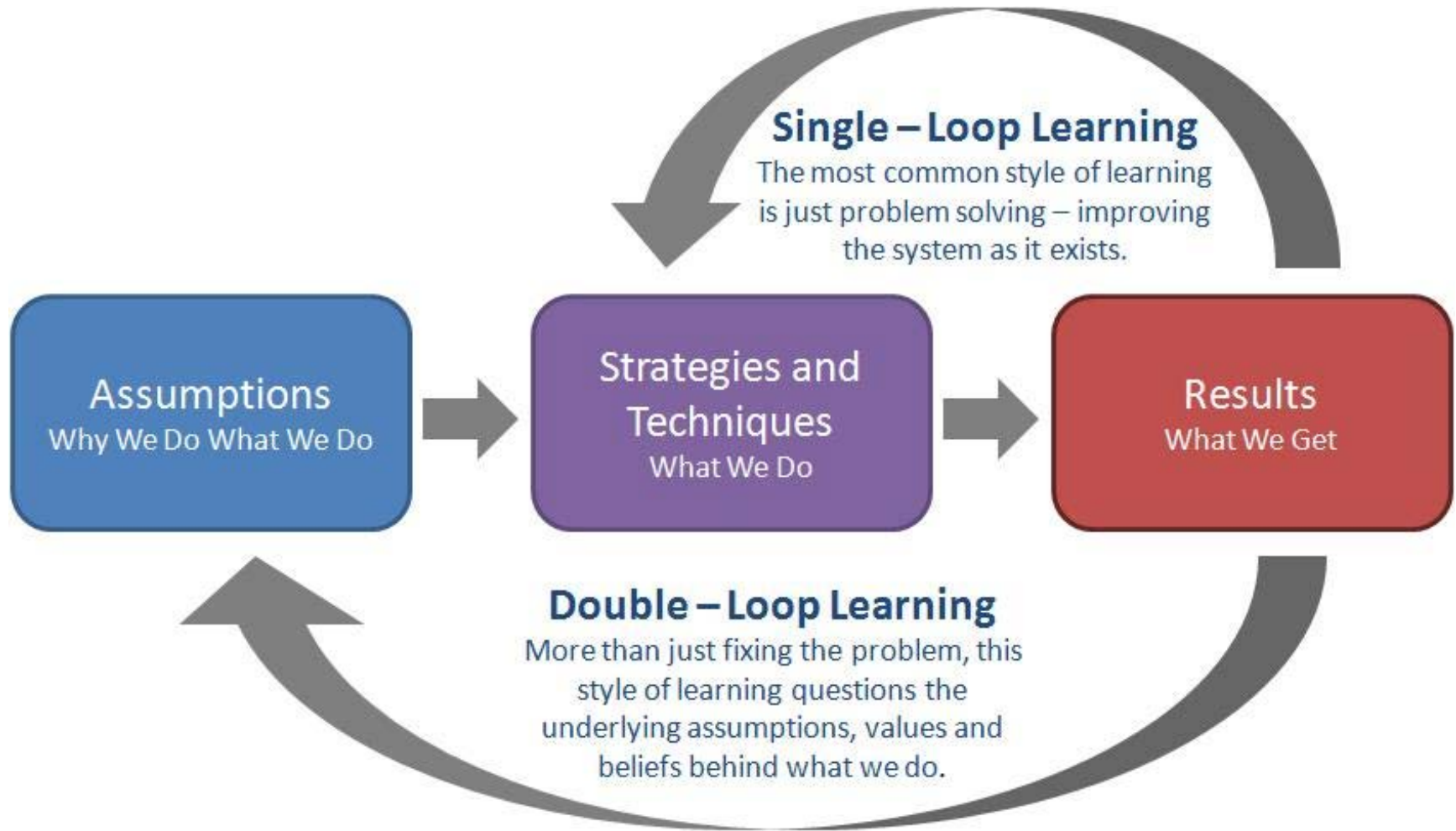
Decentralized



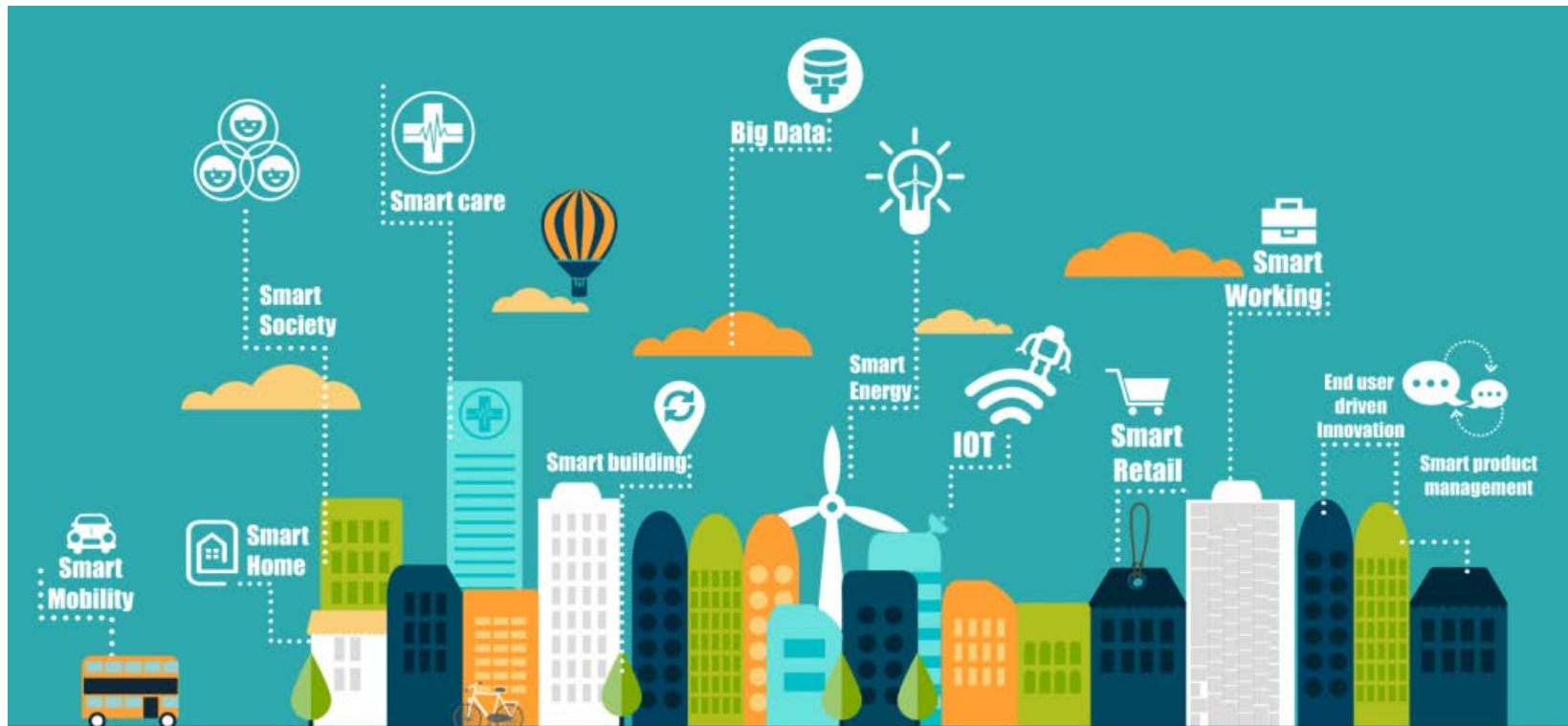
Distributed

Dilemmas – consent, privacy, cybersecurity etc.





Chris Argyris, Edgar Schein a.o. learning organisations



Future energy markets design

- Understanding the challenges, obstacles and risks
- New technologies and future business models
- Best practise examples and lessons learned
- Current research and future needs
- R&D policies and decision-making

Workshop agenda

Day 1

- Introductory Session
- Session 1: Challenges, obstacles and risks
- Session 2: New technologies and future business models

Day 2

- Session 3: Energy transition: showcase regions
- Session 4: Energy market design: towards R&D policies and decision-making
- Final Session: Final discussion and wrap-up