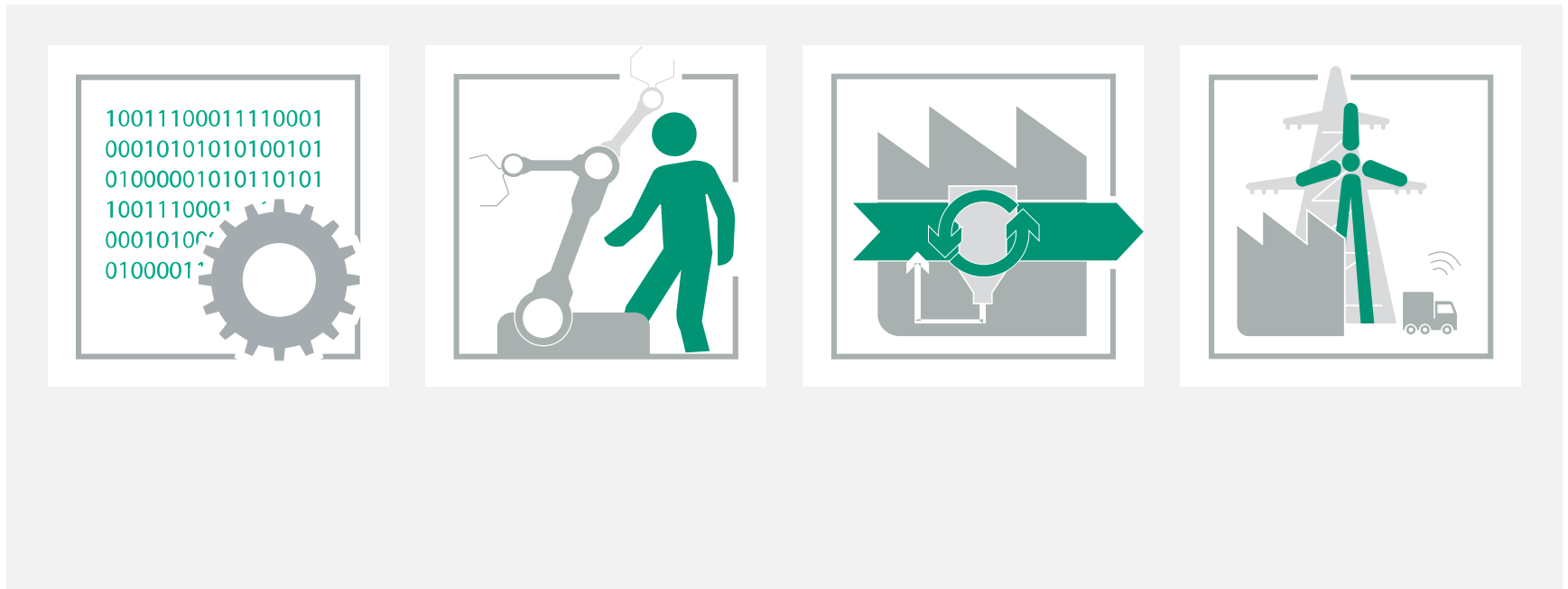

FRAUNHOFER IFF MAGDEBURG

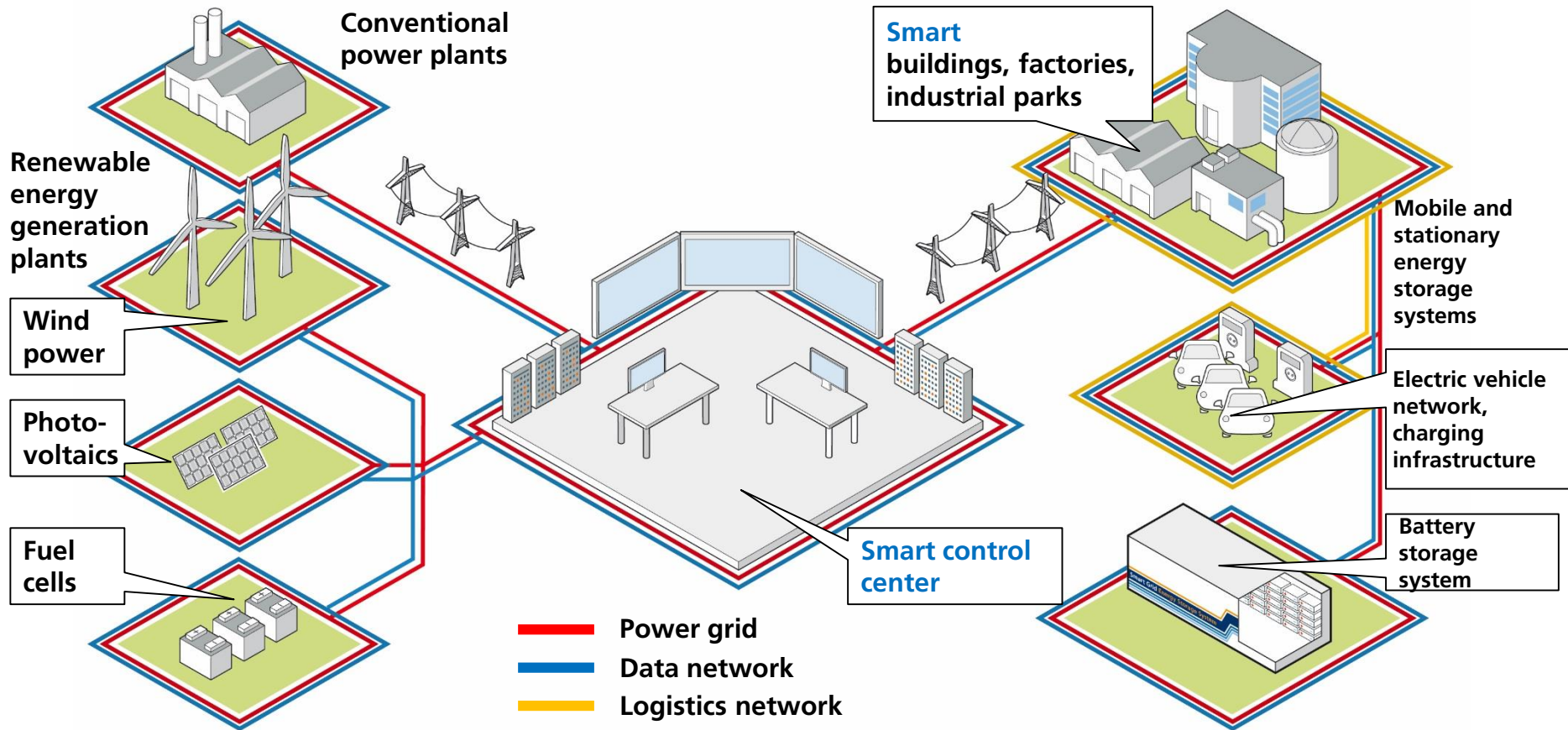
CONVERGENT SUPPLY INFRASTRUCTURES (KIS)

Dr. Przemyslaw Komarnicki
Magdeburg, June 22, 2017



Convergent Supply Infrastructures (KIS)

Research objects



Convergent Supply Infrastructures (KIS) Challenges

Cost of expanding I&C
in the smart grid:

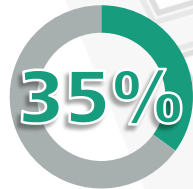
€ 2 billion

DNV KEMA Energy &
Sustainability 2012



By 2020

By 2050



of power from
renewable energy sources



Bundesregierung 2011

1 million

electric cars by 2020



Mobilität der Zukunft, Bundesregierung 2011

Cost of
expanding the
grid

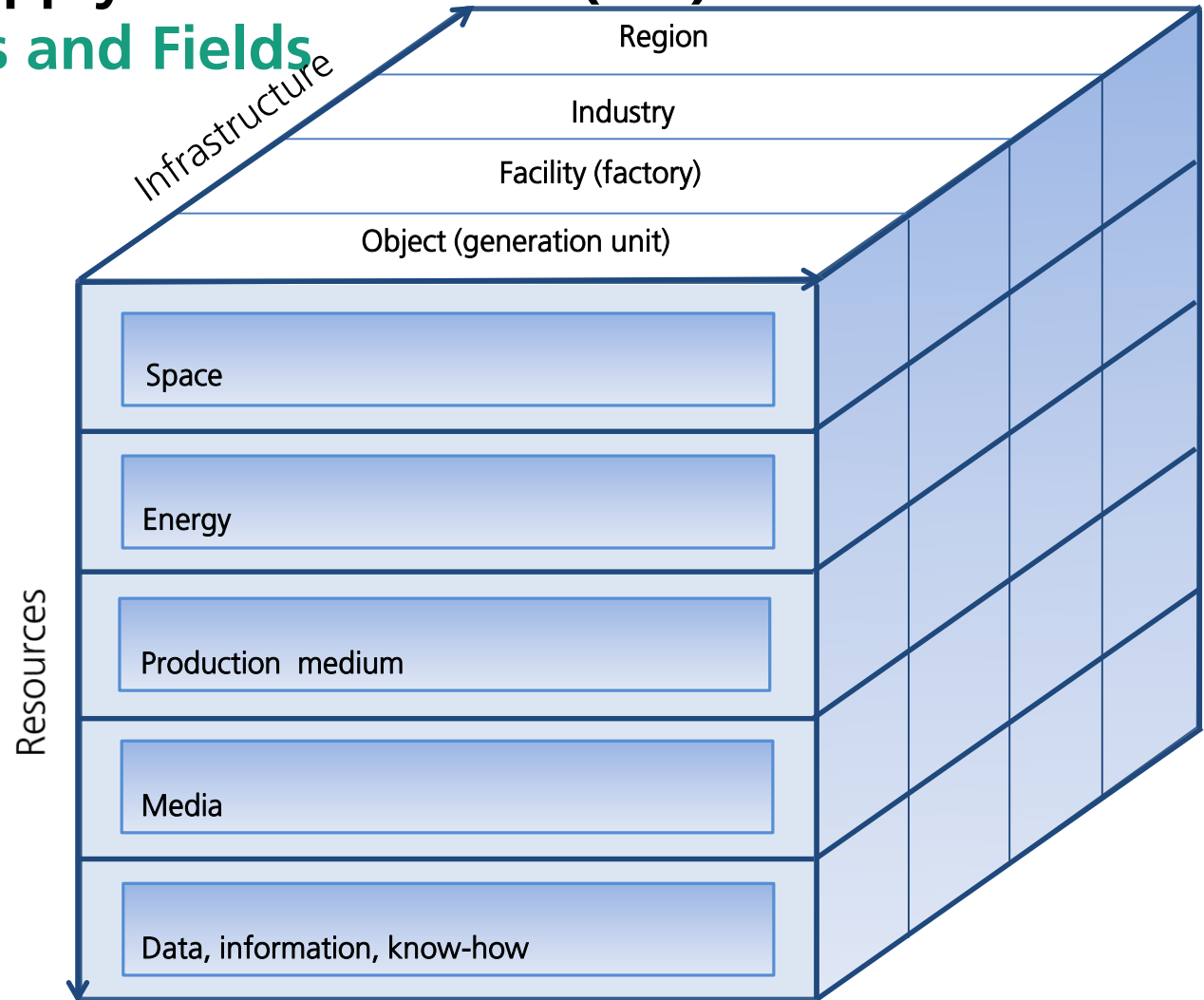
**€ 21
billion**

Netzentwicklungsplan
Strom 2013

Convergent Supply Infrastructures (KIS)

Research Goals and Fields

Cross-industry resource management



Life cycle:
Development, installation, operation, recycling

Convergent Supply Infrastructures (KIS) Organization and Research Teams

KIS Spokesperson



SMC Team: Strategy, Marketing and Performance Measurement



EPA Team:
Efficient
Processes and
Systems



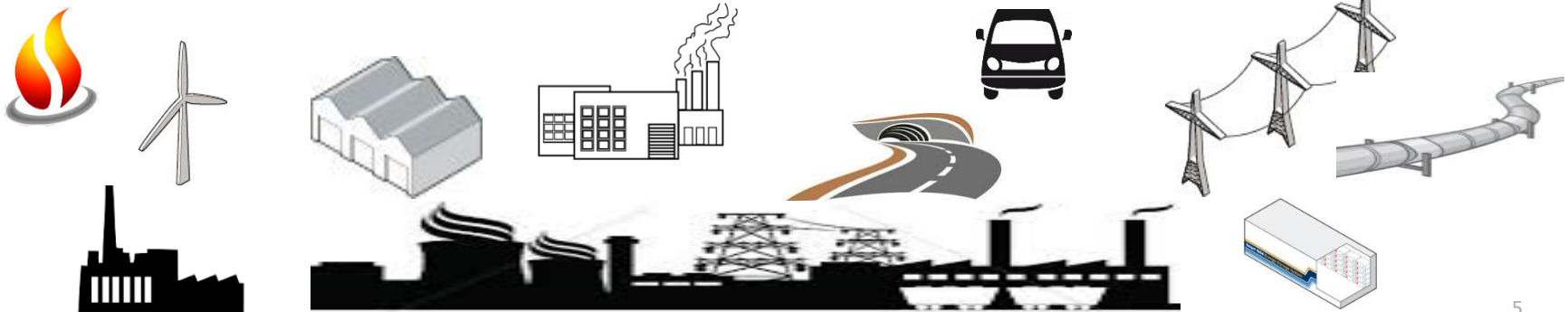
PI 4.0 Team:
Process Industry
4.0



VRS Team:
Virtual
Development
and Structure
Planning



EES Team:
Energy Systems
and
Infrastructures



Convergent Supply Infrastructures (KIS)

We Manage Your Resources Best!

Fraunhofer IFF

The technology partner for convergent supply infrastructures and their components



- Secure and reliable supply
- Economically and technically optimized operation and planning



Market

- Utility companies
- T&D grid operators
- Technology companies/systems suppliers
- Industrial and commercial parks
- Municipalities
- ...

Your Technology Partner for Applied Research in Saxony-Anhalt



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