

The background image is a composite scene. On the left, there's a coastal landscape with a sandy beach, a woman in a yellow dress, and children sitting on rocks. In the middle ground, there are wind turbines and an offshore oil platform in the sea. On the right, there's a green field with a wooden boat and a small building. The sky is blue with white clouds and several birds flying. A white semi-transparent box is overlaid in the center, containing the title and speaker information.

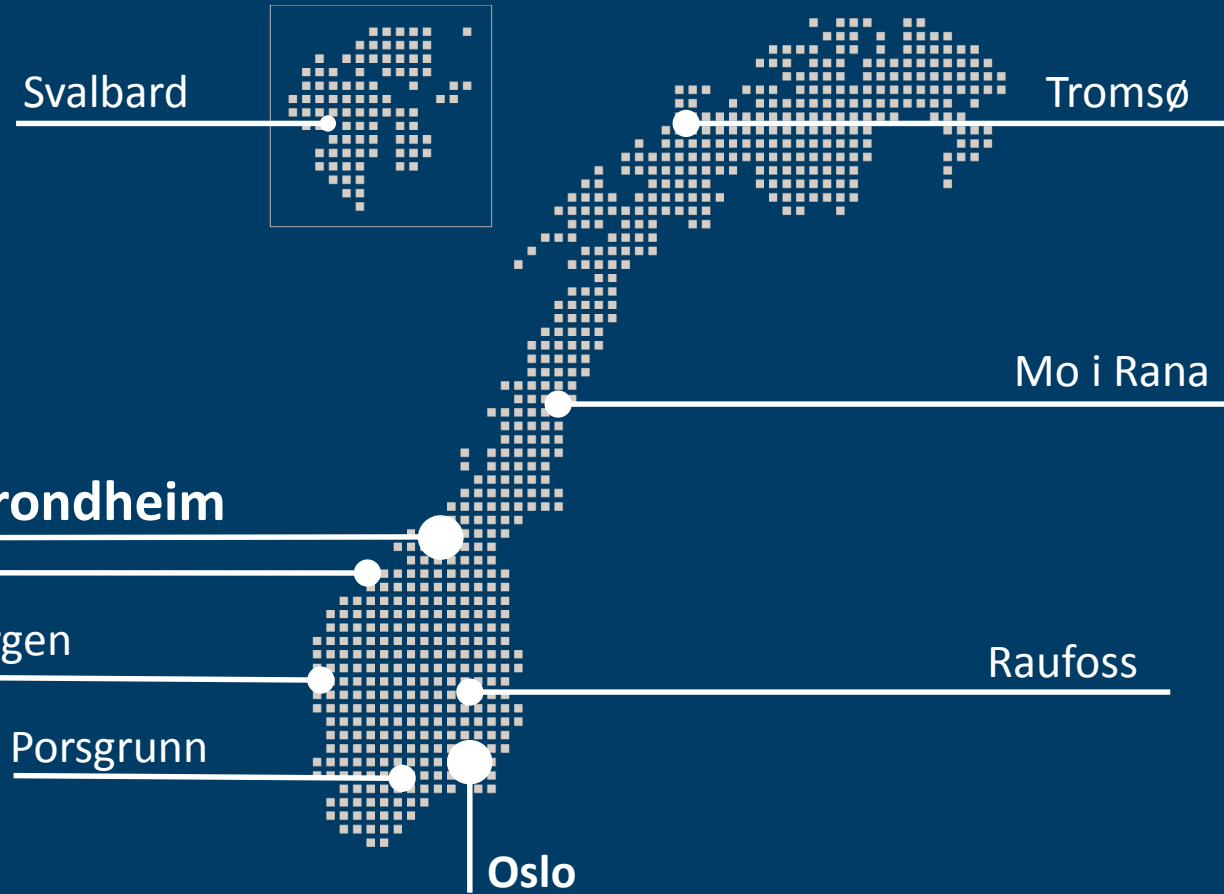
DIGITALIZATION AND THE POWER INDUSTRY

Alexandra Bech Gjørnv

CEO SINTEF



Welcome to Trondheim



Scandinavia's largest independent research organization

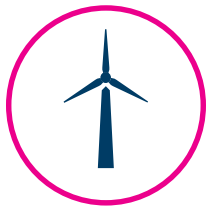


NOK 3,2 billion
Revenues

NOK 500 MILL
International sales

Applied research, technology and innovation

Expertise from ocean space to outer space:



Renewable energy



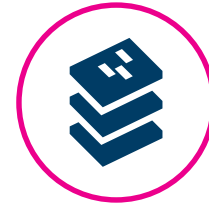
Ocean space



Industry



Buildings and
infrastructure



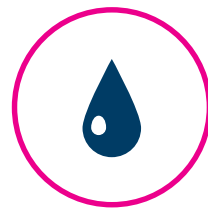
Materials



Microtechnology
and nanotechnology



Climate and environment



Oil and gas



Health and welfare



Society

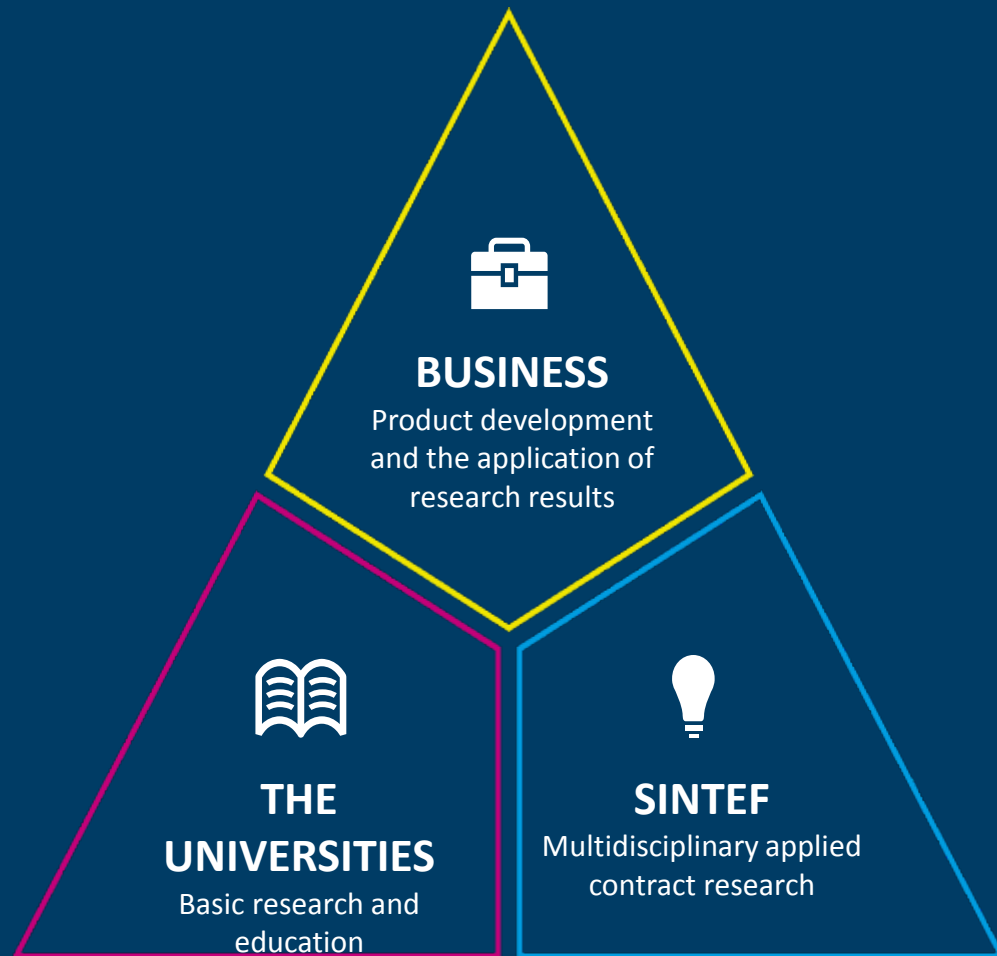


ICT



Biotechnology

Close working relationships generate innovation and high quality



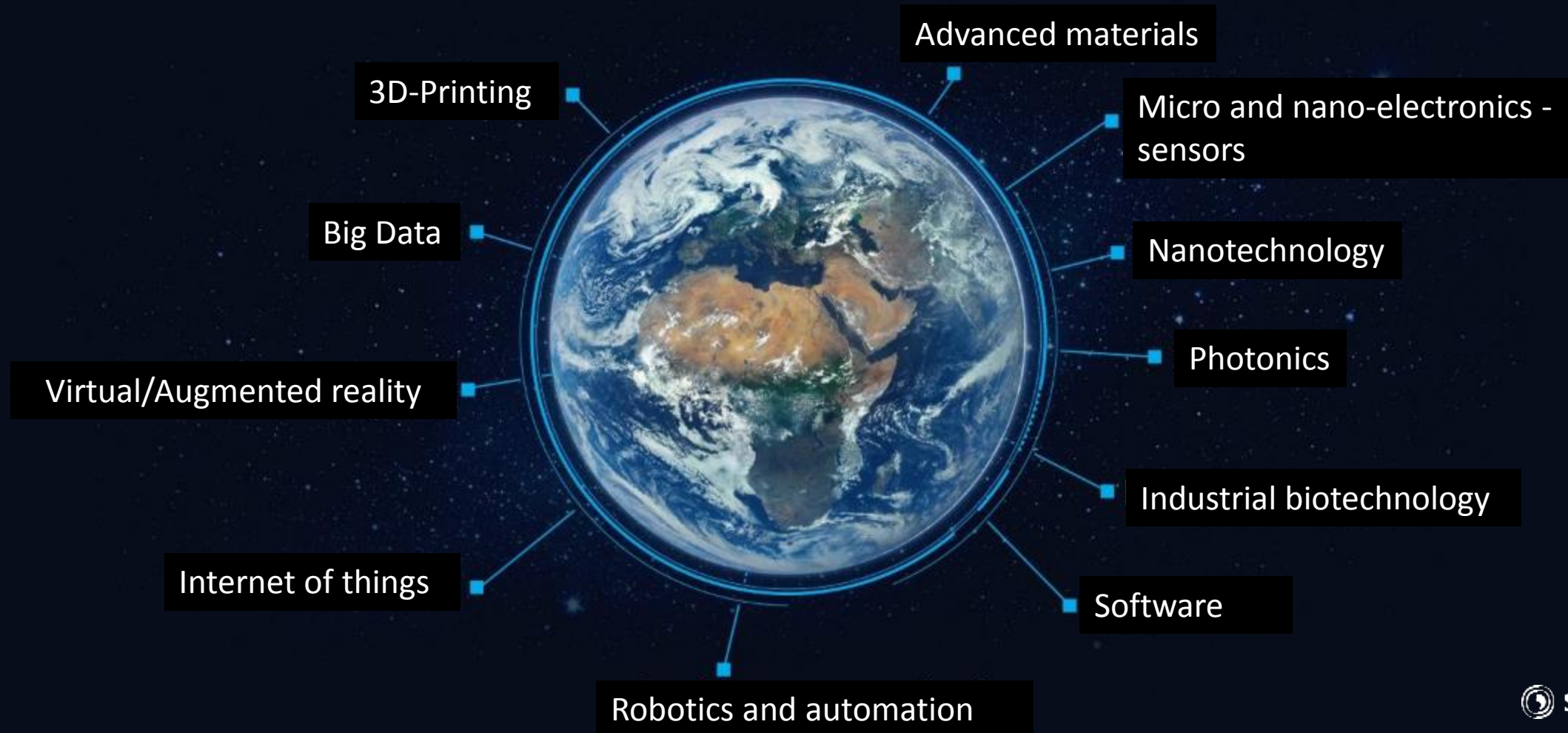


Societal mission and vision

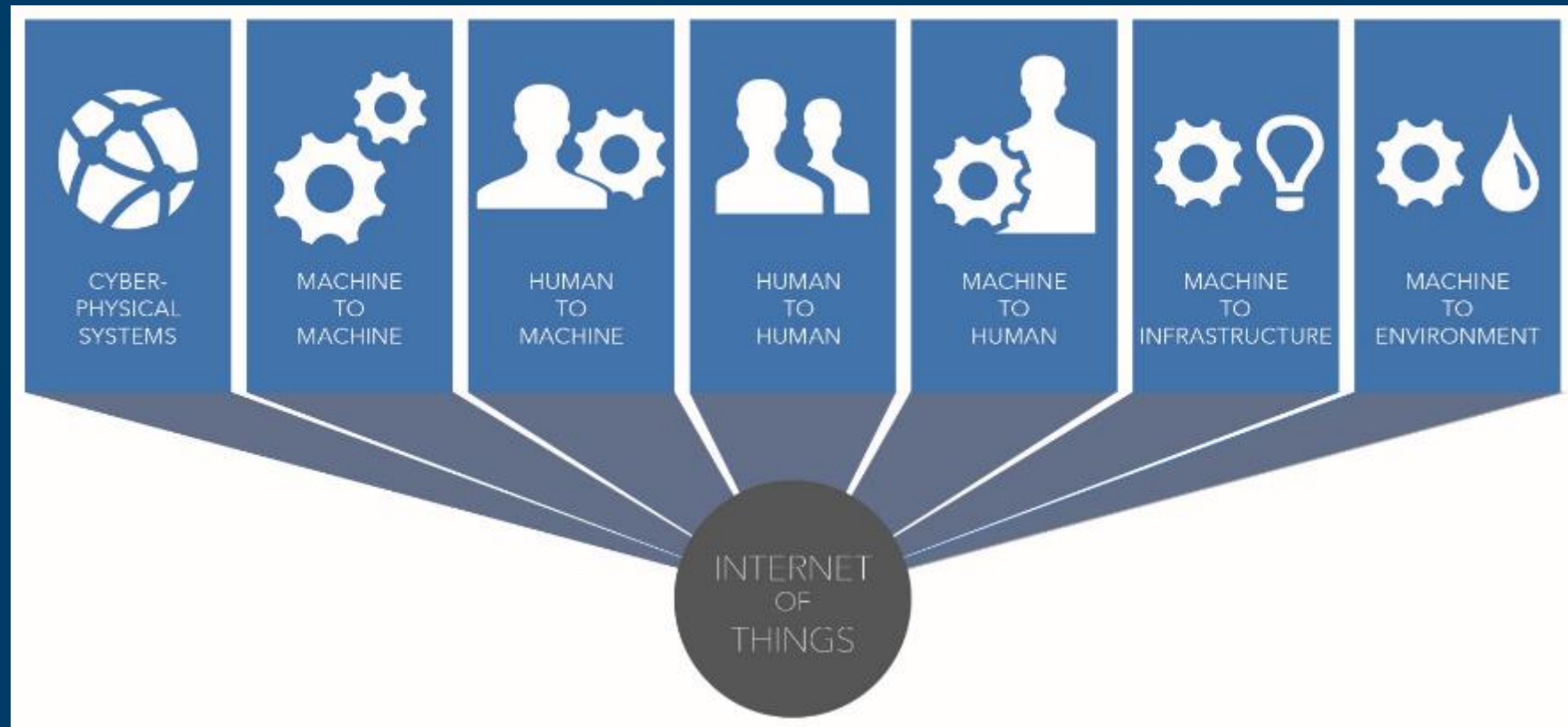


Our vision: **Technology for a better society**

Enabling Technologies



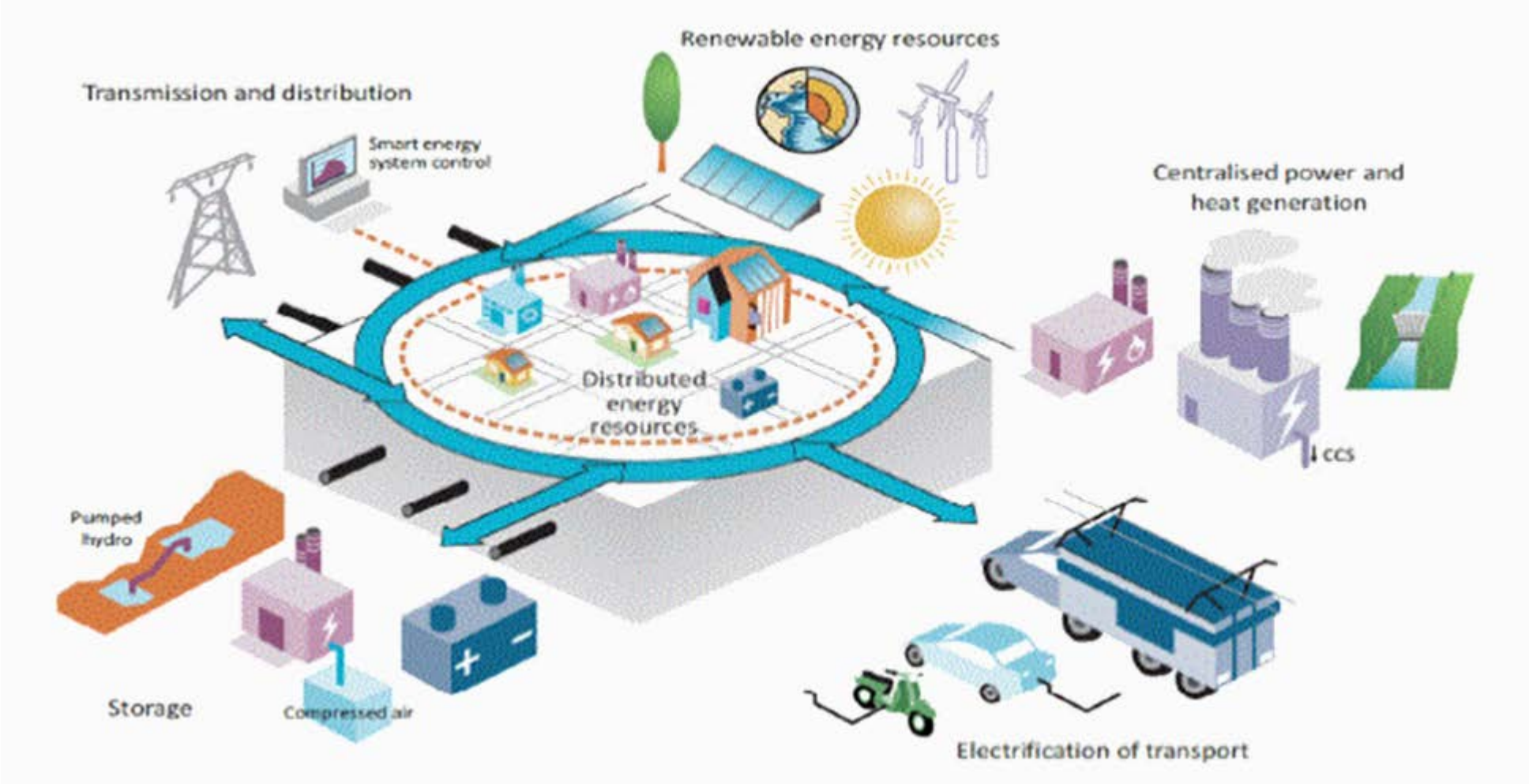
Internet of Things



Big Data



Digitalization in a customer centric power system



DeVID

Demonstrasjon og verifikasjon
av intelligente distribusjonsnett

DeVID RAPPORT 2014

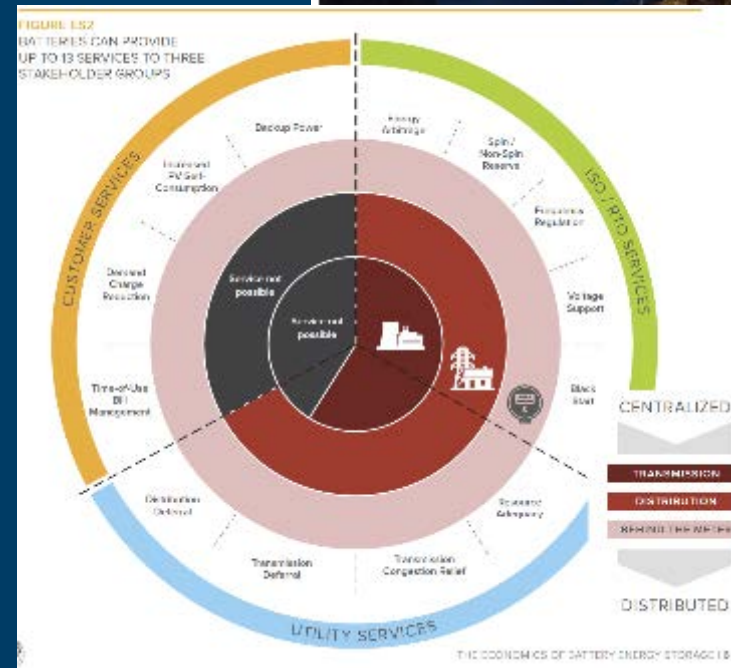
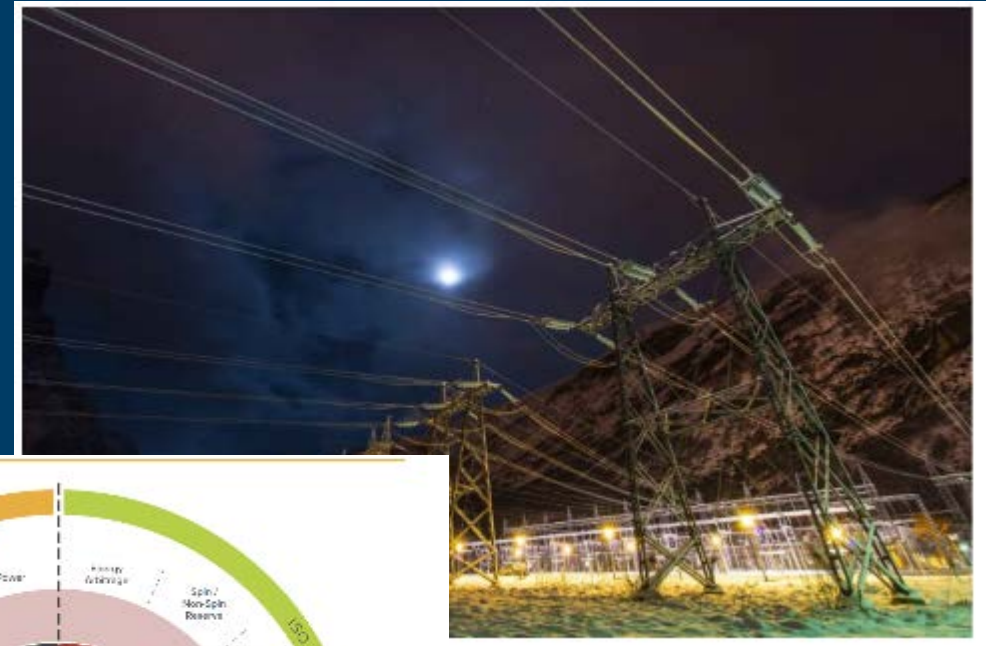
Grid value from AMI

- Customer flexibility
- Fault localization and handling
- Grid operation and management

 **EEGI**
EUROPEAN ELECTRICITY GRID INITIATIVE
- SUPPORT -

Transmission level digitalization

- Sensors and communication
- Synthetic inertia
- Big Data analytics for optimization of production
- Digital substations
- Transmission level integration of flexible resources





Capacity and stability in the Hasle corridor





Innovation in our most critical Infrastructure





Technology for a better society