



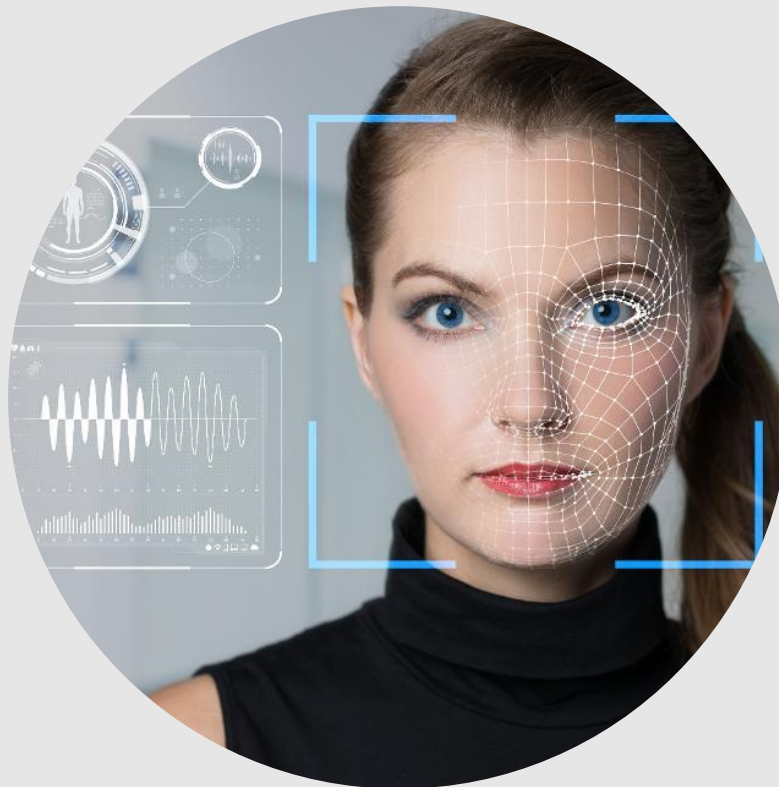
NORWEGIAN CATAPULT

**Strong global competition,
rapid technological
development and the green
shift challenge today's
solutions and manufacturing
methods**



The ability to quickly apply new technology and new methods effectively is crucial for the competitiveness of the companies

Easy access to test facilities and expertise enhances the ability



Partner for;

Advanced materials

- Develop sustainable advanced materials and associated processes for the companies' next products
- Specialised expertise in nano- and power manufacturing for new manufacturing methods
- Offer test facilities, expertise and network for testing, simulation and verification
- Offer services through the whole value chain from raw material to complete product
- Owned by Elkem AS, Arendals Fossekompani, ReSiTec and the University Agder, and is operated in cooperation with industrial partners and clusters



**FUTURE
MATERIALS**
| NORWEGIAN
CATAPULT
CENTRE

Partner for;

Advanced manufacturing methods

- Assist further development, simulation and testing of the production line before full scale manufacturing
- Offer facilities, expertise and network for testing, simulation and verification – e.g. module-based and flexible mini factories with an industry 4.0 standard
- The centre aims to be a driving force to make the Norwegian manufacturing industry greener, smarter more innovative and more productive
- SINTEF Manufacturing has the main responsibility for MTNC. The core partners are members of NCE Raufoss, SINTEF, NTNU and Fagskolen Innlandet (Innlandet Technical College)

**MANUFACTURING
TECHNOLOGY**

**NORWEGIAN
CATAPULT
CENTRE**



Partner for;

Sustainable energy solutions

- Accelerating the future's energy systems and products to the market
- Specialised in maritime and decentralised energy systems
- Test facilities, expertise and network for production, storage, distribution and energy management
- Unitech, The Switch, Haugaland Kraft, Bergen Teknologioverføring (BTO) –in collaboration with NCE Maritime CleanTech, NMEC and leading R&D communities



**SUSTAINABLE
ENERGY**

**NORWEGIAN
CATAPULT
CENTRE**

Partner for:

Sustainable growth in the maritime industry

OCEAN
INNOVATION

NORWEGIAN
CATAPULT
CENTRE

- Provide state-of-the-art test facilities and expertise for developing innovative solutions for the ocean industries.
- New solutions in oil and gas (petroleum), food production and renewable energy etc.
- Offer test facilities, expertise and network within ocean space
- Bergen Teknologioverføring (BTO), GCE Subsea, Prototech, Stiftelsen Industrielaboriet (ILAB), University of Bergen, DNV GL and Marineholmen Forskningspark

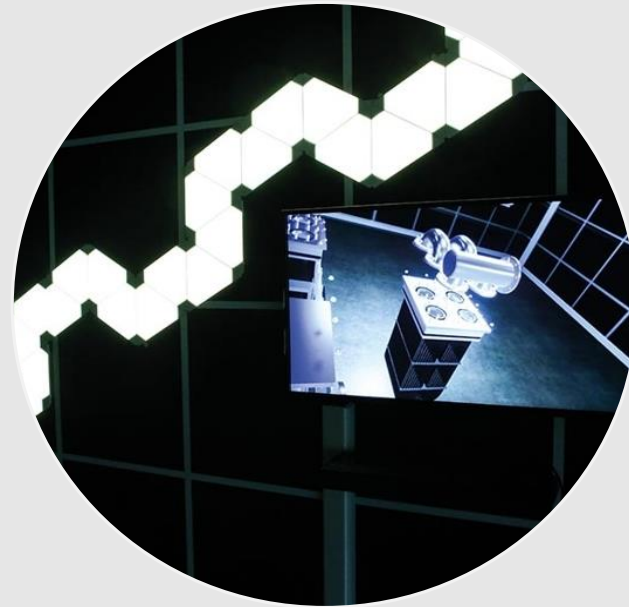


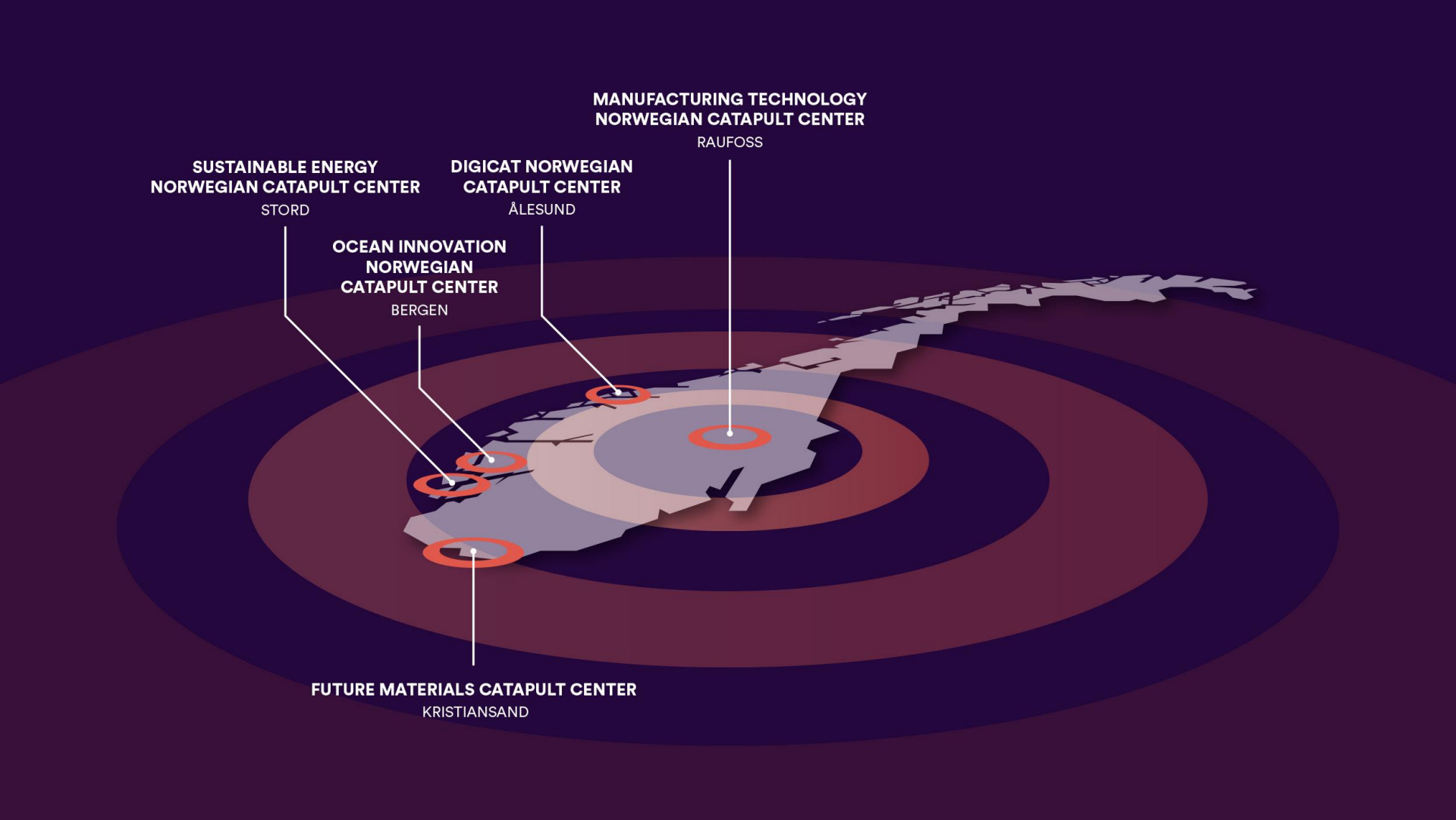
Partner for:

Digital testing and simulation

DIGICAT
| NORWEGIAN
CATAPULT
CENTRE

- Offer test facilities, expertise and networks for virtual prototyping.
- Specialised in virtual prototypes, digital twins and autonomous operations
- At the centre you can test and validate ideas, concepts and products in a digital world faster and more effectively, with less risk than in the physical world.
- Operated by ÅKP Blue Innovation Arena, Rolls-Royce, Inmarsat, Ulstein and Offshore Simulator Centre in collaboration with industrial partners and clusters





**MANUFACTURING TECHNOLOGY
NORWEGIAN CATAPULT CENTER**

RAUFOSS

**DIGICAT NORWEGIAN
CATAPULT CENTER**

ÅLESUND

**SUSTAINABLE ENERGY
NORWEGIAN CATAPULT CENTER**

STORD

**OCEAN INNOVATION
NORWEGIAN
CATAPULT CENTER**

BERGEN

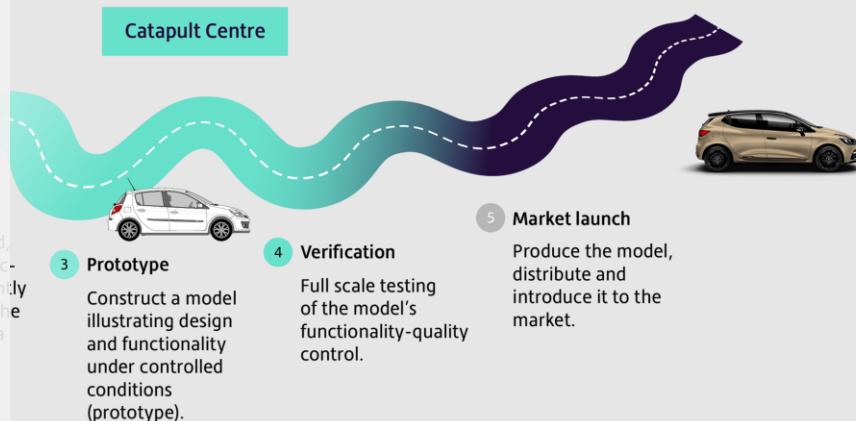
FUTURE MATERIALS CATAPULT CENTER

KRISTIANSAND

Accuracy, reduced risk and easier market access

NORWEGIAN
CATAPULT

- **Purpose:** Assist a concept or prototype in order to be introduced to the market
- **Target group:** Small-medium businesses, but also bigger companies and entrepreneurs.
- **Provide;** Premises, equipment and expertise for testing, simulation and visualisation of technology, products or solutions as a part of the innovative process



Summary



- There is a call for an easier and more cost effective access to the market today
- The catapult centres will contribute and simplify this process by offering equipment, premises and expertise
- The catapult scheme strengthens the innovative infrastructure of the industry, which is essential for continued industrial development in Norway



Ø NORWEGIAN CATAPULT
