Skåne
European
Office

The Mapping of Regional Innovation Ecosystems

Working together under
the Industrial Modernisation Platform

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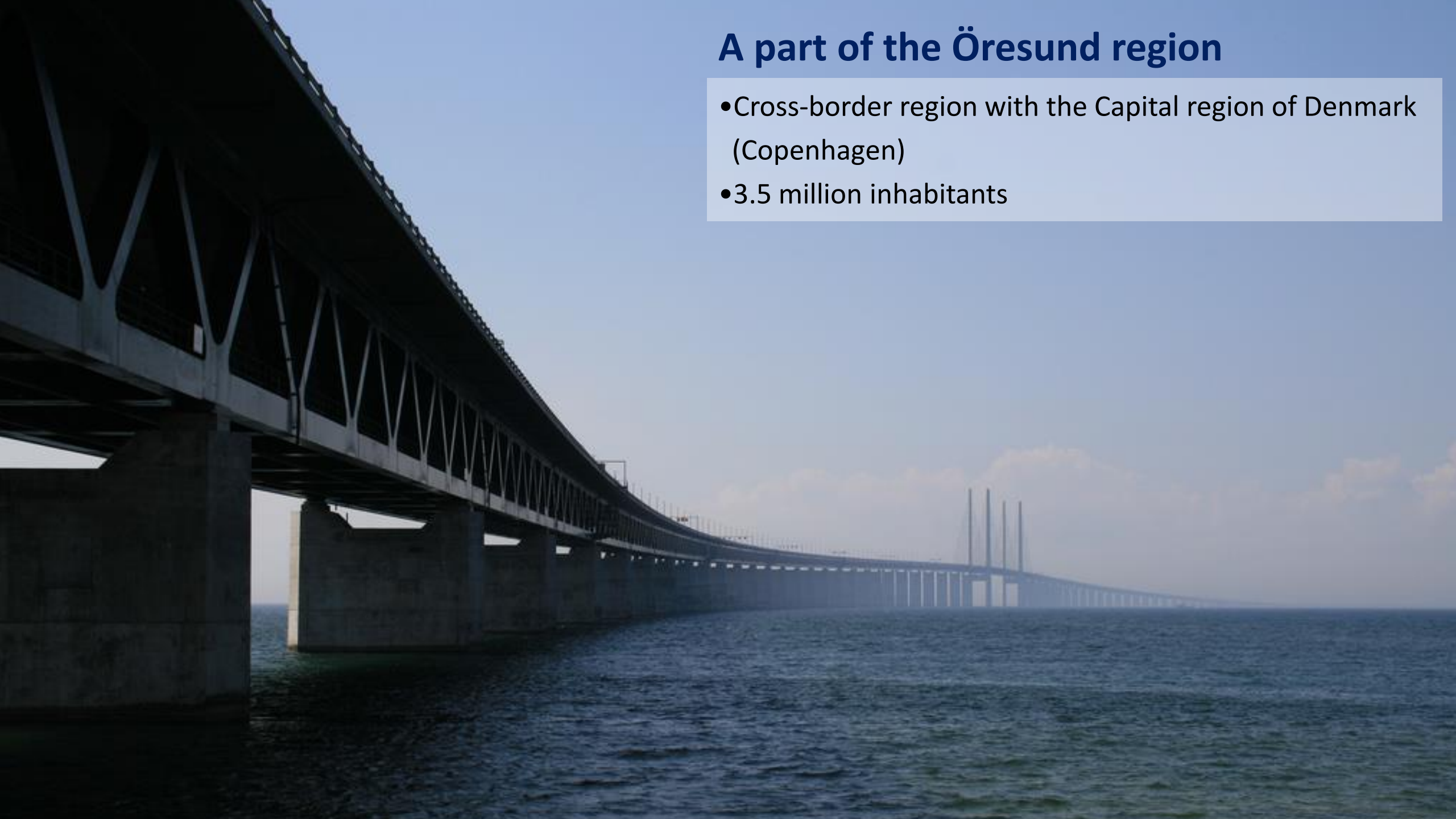
Presentation overview

- The regional context
- Smart specialisation in Skåne
- Regional innovation ecosystem
- Experiences from Skåne’s engagement in Vanguard Initiative
- Lessons learned

Skåne

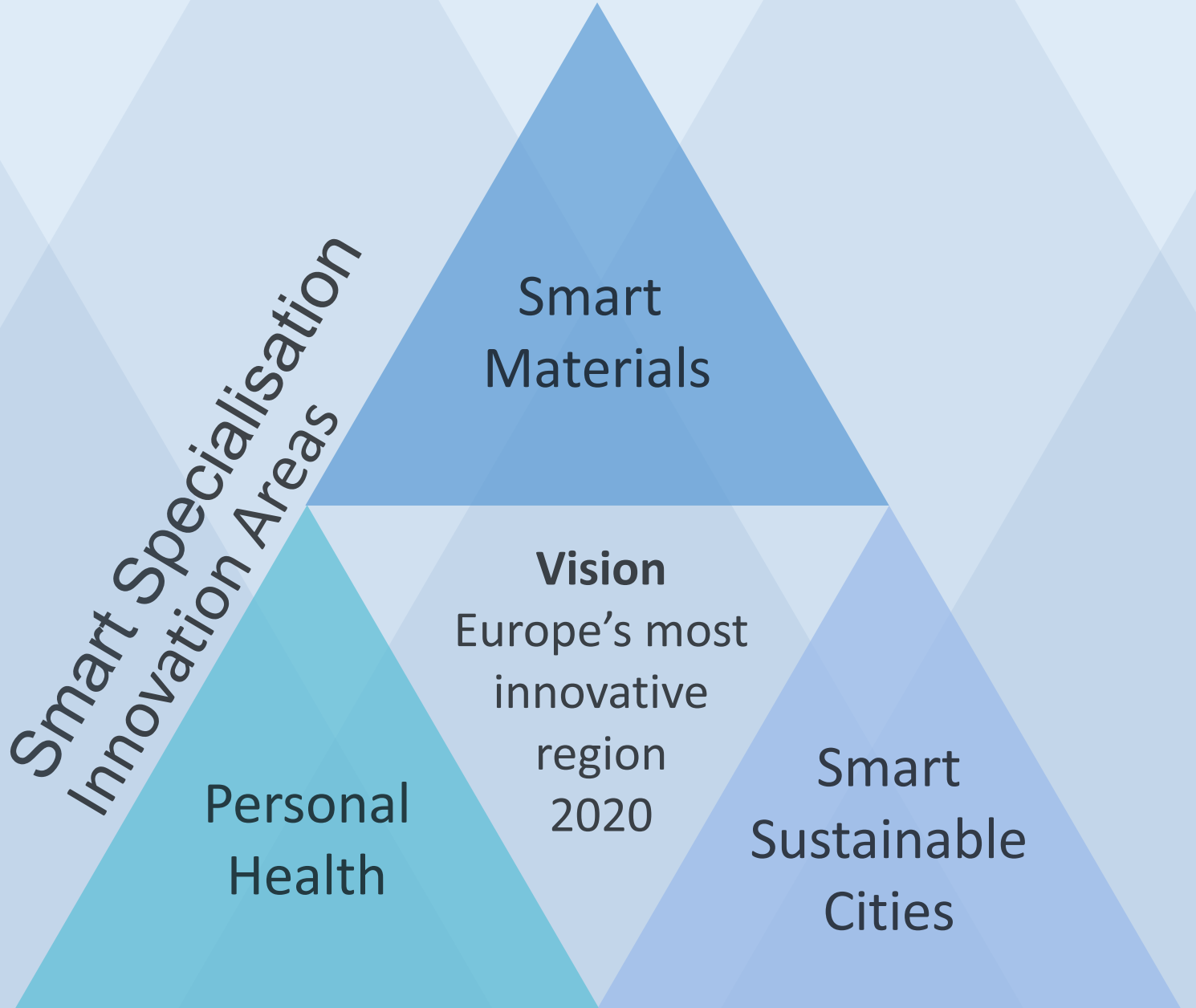
- Sweden’s southernmost county
- 1.3 million inhabitants

Turning Torso and plaza in Malmö. photo: Kullez (CC BY 2.0)



A part of the Öresund region

- Cross-border region with the Capital region of Denmark (Copenhagen)
- 3.5 million inhabitants


Smart Specialisation Innovation Areas
Smart Materials
Personal Health
Smart Sustainable Cities
Vision
Europe's most innovative region 2020


Munici-
palities
SME and
Startups
Sounding
Board 2.0
Regional
Authority
MNE and
Companies
Skåne
Research
and
Innovation
Council
Universities
Innovation
Support


Packbridge
Food Academy
Media Evolution
Open Innovation Areas
Mobile Heights
Resilient Regions
Fast International Key Players
Sustainable Business Hub
UIC

Vanguard Initiative

Vanguard is a coordinated effort of 30 EU-regions for better alignment of regional specialisation strategies through “Smart Specialisation Platforms”

New nano-enabled products

- **Second generation** pilot project in Vanguard Initiative
- VI Pilots follow a **common methodology** of 4 steps:

- The final goal is **full scale commercialisation**
- Focus on **cross-regional demonstration** for projects which are **close to market**

1 Organisation

of the network

Common vision & objective

- An interregional nanotechnology infrastructure and ecosystem
- All parts of the value chain – basic research to market uptake
- Reproducibility of application

Matrix approach

- Identify and promote joint-demonstration activities
- Organise transversal support (across cases)

Management model

- Network meetings
- Steering Group
- Network Manager
- Support group

2 Mapping

Identifying cases for joint-demonstration

July – September 2015: **One extensive survey**, mapping:

- Key players
- Demonstration initiatives
- Domains of applications
- Challenges and missing capabilities

14 regions involved

10 application domains

3 Prioritisation

6 interregional networks for joint demonstration

Joint demonstration case	Description	Leading region
Nano Wires for ICT and Energy Applications	Nanowires for ICT applications include device integration of nanowire-seeded platelets for high frequency power devices as well as new generation of sensors based on nanowires. Nanowires for energy harvesting and efficient energy conversion proposal comprises of nanowire transistor structures for modulating the light output of nanowire based LED structures for indoor illumination.	**Skåne**
Manufacturing Nano-enabled Microsystems for Food, Biotechnology and Medical Laboratory Analytics	Integration of nano-materials and nano-structuring techniques into state-of-the-art micro-bio-system manufacturing enables new, competitive, customer-specific instrumentation solutions for the food, biotechnology and medical laboratory analytics industry.	**Flanders**

Joint demonstration case	Description	Leading region
Nanomedicine	Infrastructures and projects to support the efficient implementation of nanotechnologies into innovative and connected healthcare products and their quick and safe translation into the market.	**Nordrhein-Westfalen** **Rhône-Alpes**
Industrial Pilot Production of Nanomaterials - Establishing New Value Chains	Scalable modular manufacturing and processing technologies for novel nanomaterials, functional supramolecular systems and composites addressing the markets of the future - from Lab to Fab!	**South Netherlands** **Nordrhein-Westfalen**

Joint demonstration case	Description	Leading region
Printed Nanoelectronics: Integrated Energy Harvesting	The Integrated Photovoltaics in Construction and Buildings aims to facilitate the use of photovoltaics (PV) in environments not suited for conventional PV systems, such as windows and facades.	**Baden-Württemberg**
Printed Nanoelectronics: Cross-Technology Application Platform	The Printed Electronics (PE) Cross-Technology Platform is concerned with integrating existing PE technologies such as energy harvesting & storage, sensors, OLED, passives in one functional prototype that comprises a high degree of all-printed integration and multi-functionality.	**Baden-Württemberg**

Lessons learned

- Engagement
- Timing: phasing in and out
- Cross-learning
- Financing
- Contributing to re-industrialization
- Skills and competences

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Thank you!

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