

Vinnova

Digital transformation

ENCCS INDUSTRY DAYS 2023

JEANNETTE SPÜHLER

NATIONAL CONTACT POINT HORIZON EUROPE – CLUSTER 4

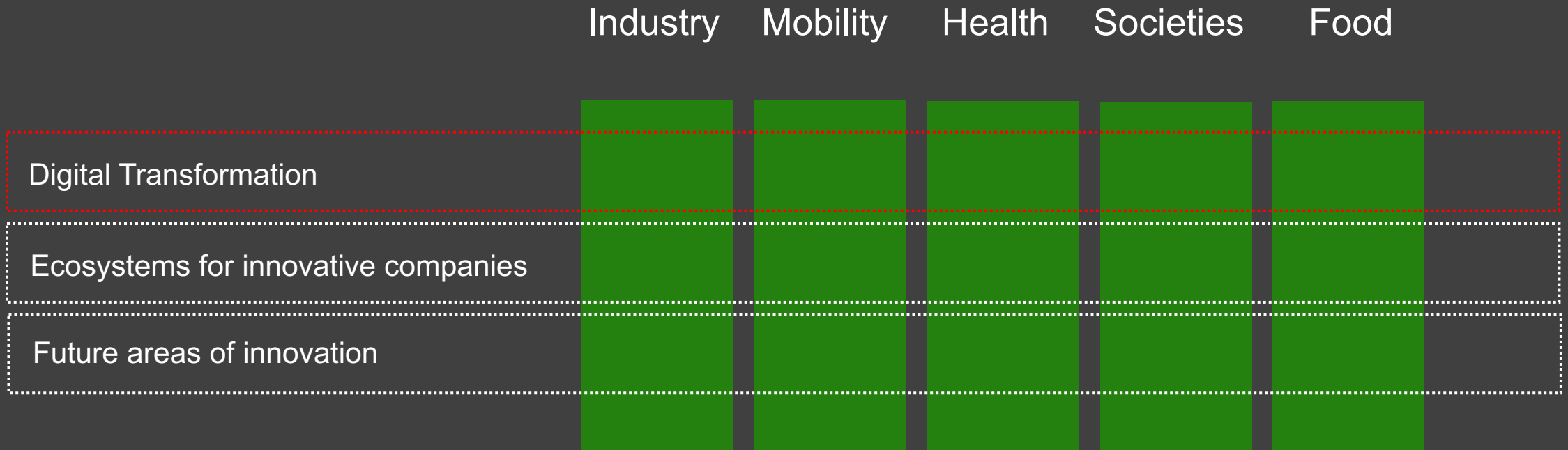
VINNOVA
Sveriges innovationsmyndighet

Vinnova's mission is
to strengthen
Sweden's innovation
capacity to
contribute to
sustainable growth.



2022
3584 projects
SEK 3,7 billion

Towards a common goal



Identify

Mobilise

Fund

Digital Transformation

”

We take advantage of opportunities that advanced technologies are offering such that Sweden will be a global frontrunner in combining the green and digital transformation.

Four perspectives in digital transformation



**Fundamental
and innovative capacity**

Four perspectives in digital transformation



**Fundamental
and innovative capacity**



**Next generation digital
system and solution**

Four perspectives in digital transformation



**Fundamental
and innovative capacity**



**Next generation digital
system and solution**



**Transformativ
technical area**

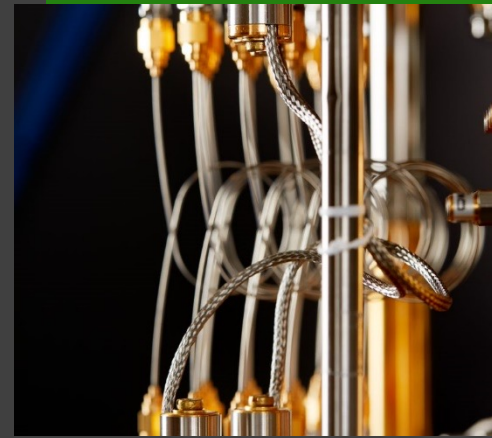
Four perspectives in digital transformation



**Fundamental
and innovative capacity**



**Next generation digital
system and solution**



**Transformativ
technical area**



**Mobilisation for societal
transformation**



Fundamental and innovative capacity

cutting-edge competence and other innovation infrastructures, primarily in semiconductor technology, electronic components and systems, and high performance computing

10 new competence centres



Project title	Coordinator	Funds
Swedish Wireless Innovation Network (SweWIN)	Kungliga Tekniska Högskolan	SEK 27 729 000
Integrated Sensors and Adaptive Technology for Sustainable Products and Manufacturing (Sentio)	Lunds universitet	SEK 36 000 000
BioGlue-Centre: Competence Centre for Bio-based Adhesives	Sveriges Lantbruksuniversitet	SEK 36 000 000
Wireless Infrastructure TEchnology at Chalmers (WITECH)	Chalmers Tekniska Högskola AB	SEK 36 000 000
Dig-IT Lab	Kungliga Tekniska Högskolan	SEK 34 750 000
Neutron and X-ray science for industrial technology transitions (NEXT)	Kungliga Tekniska Högskolan	SEK 36 000 000
Advanced Computing for Sustainable Thermal Management in Industry (AdTherM)	Lunds universitet	SEK 36 000 000
Continuous Digitalization	Chalmers Tekniska Högskola AB	SEK 36 000 000
Advanced Chip Technology (ACT)	Lunds universitet	SEK 36 000 000
SEnsor informatics and Decision-making for the Digital Transformation (SEDDIT)	Linköpings universitet	SEK 36 000 000
Next generation communication and computational infrastructures and applications (NextG2Com)	Lunds universitet	SEK 36 000 000



Next generation digital system and solution

- Secure digital platforms
- End-to-end AI
- Model and simulation driven development
- Edge computing, fogging and cloud technologies
- Autonomous systems
- Digital services and communication technologies

Driven by the needs of industry, business, public sector and society as a whole



Transformative technical areas

- Artificial Intelligence (AI)
- Extended reality (XR)
- Quantum technology
- 6G - Next Generation Wireless Technology and Infrastructure

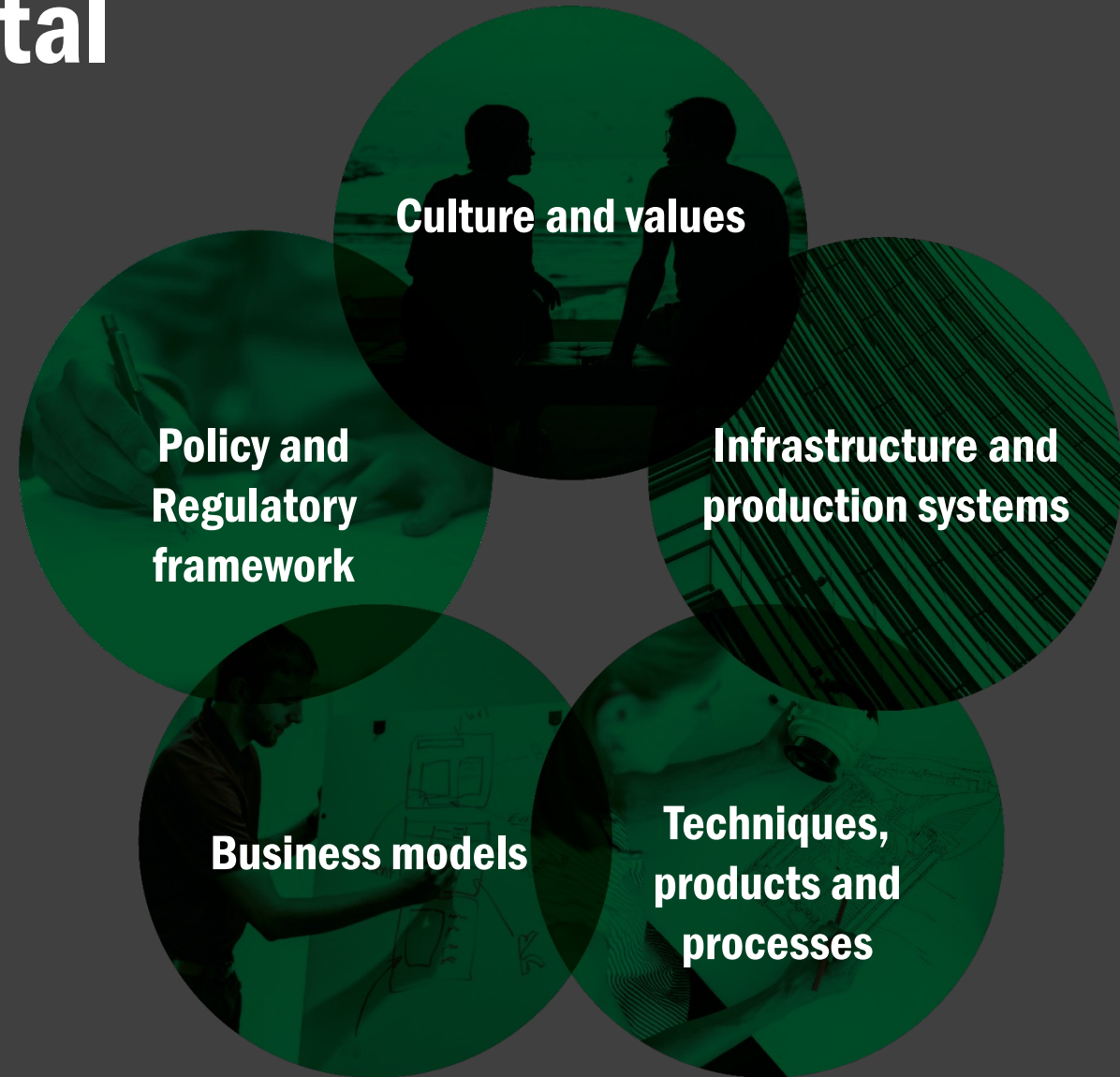
Swedish
Quantum
Agenda



VINNOVA

Mobilisation for societal transformation

- Many perspectives
- Broad support
- Ethics
- Legal aspects



Initiatives and programmes in Digital Transformation at Vinnova



Avancerad digitalisation

- Initiators: ABB, Ericsson, Saab, Teknikföretagen and Vinnova
- A national innovation programme for the next generation of sustainable digital solutions in industry
- Government assignment - SEK 4.5 billion 2023-2027
- For actors who collaborate to develop advanced system solutions



Strategical innovation programmes (SIP)

- Process Industrial IT and Automation (PiiA) – automation and digitalisation in industry
- Smarter electronic systems (SES) - development of electronic components and systems

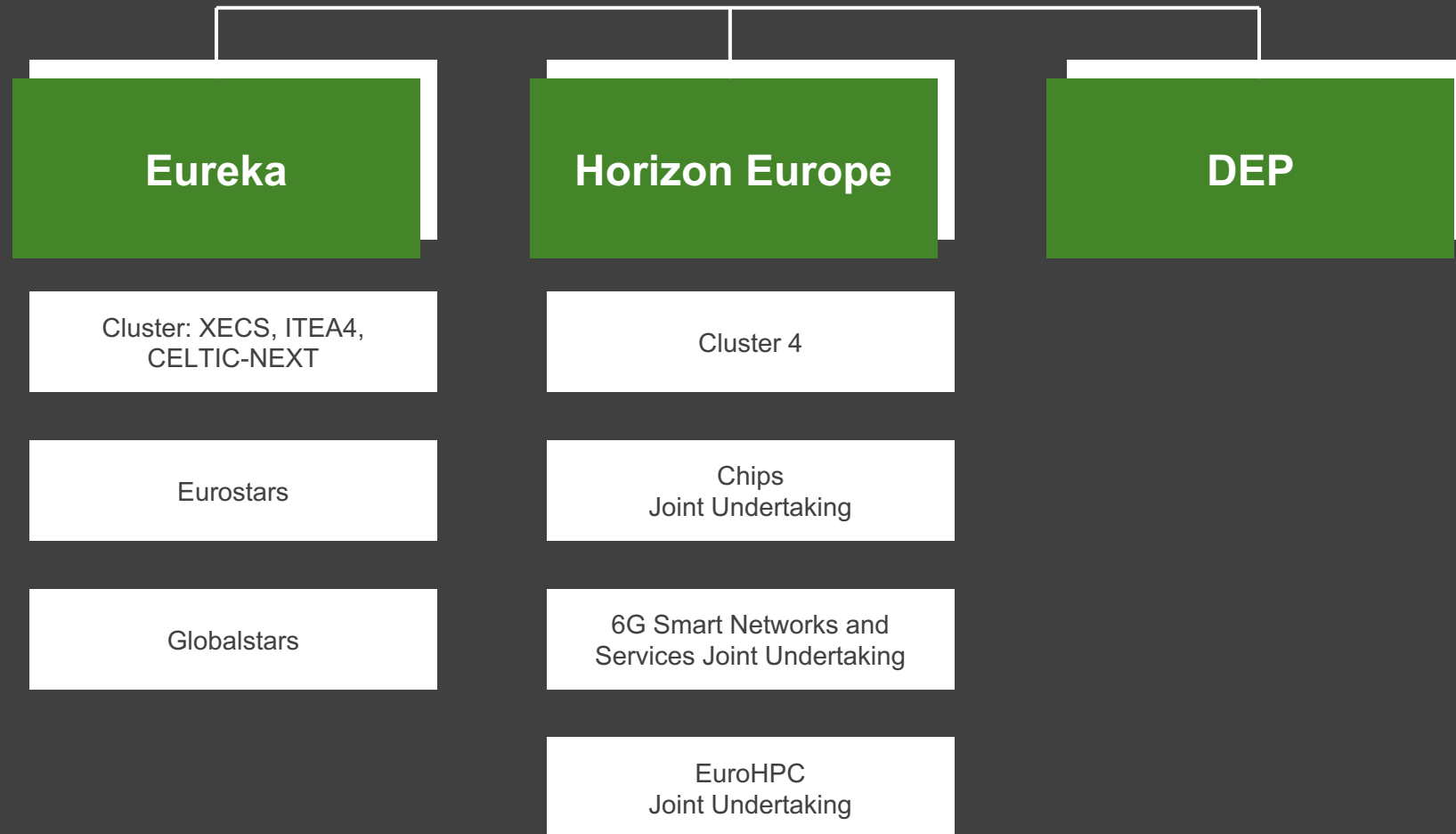
Pi!A

Process Industrial IT and Automation

**Smartare
Elektroniksystem**

ELECTRONIC COMPONENTS & SYSTEMS

We are the link to international funding





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EXPERT

**HORIZON EUROPE, CLUSTER 4
DELEGATE PAB OCH GB CHIPS JU
STATE REPRESENTATIVE 6G SNS**



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**NATIONAL CONTACT POINT (NCP)
HORIZON EUROPE, CLUSTER 4**

[Vinnova's Newsletter](#)

**[Vinnova's Newsletter
on Horizon Europe](#)**

Thank you!

VINNOVA
Sweden's Innovation Agency



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