

# Advanced Digitalisation

May 2024



# Advanced Digitalisation

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**ABB**

**ERICSSON** 



**SAAB**

 **Teknikföretagen**  
Technology Industries of Sweden

**VINNOVA**



# Industry in focus

For the continued success of Sweden



# Sustainability, new technology and security drives development and competition



Climate and sustainability posing new and necessary demands.



New opportunities through technological development.



National security

“

We share a vision that Sweden should continue to be a leading research nation and that the next generation of digital solutions should be developed here.



## Long term

We build knowledge today to  
develop the advanced solutions  
of tomorrow



## Collaboration

in new ecosystems



## Mobilization

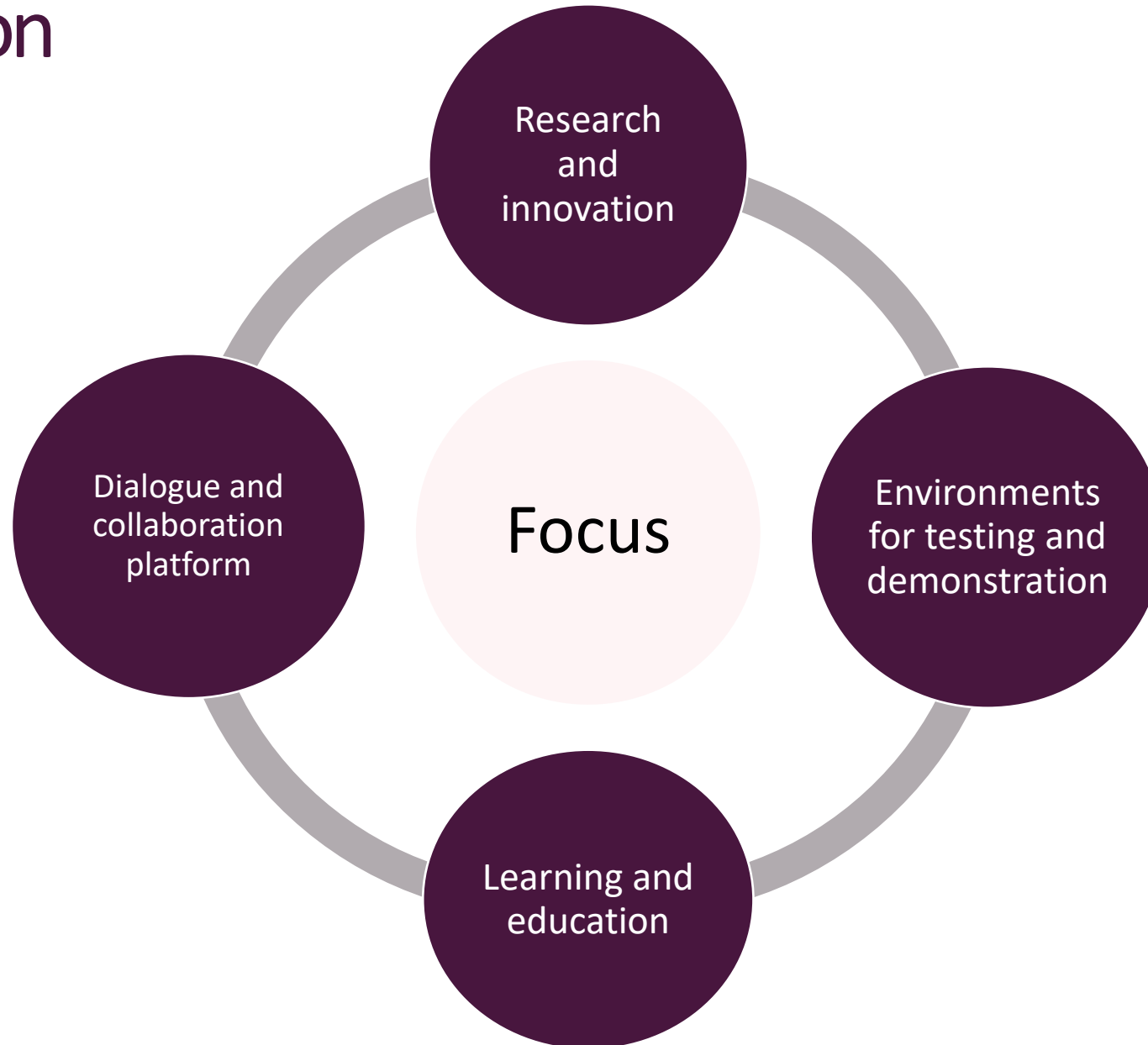
Broad collaborations require  
a unifying force



## Research & Innovation

Crucial for environment, safety  
and Swedish competitiveness





# Areas of action



# Enabling technology areas



Advanced Digitalisation is about creating research and development environments for complex systems where important development/key technology tracks can be followed.

	<b>Secure digital platforms</b> for efficient development, production and support.		<b>Autonomous systems</b> (development, optimization and architecture for reliability and interoperability).
	<b>Cyber security</b> for advanced industrial digitalisation.		<b>Data-driven development</b> and secure exchange of data between processes and players.
	<b>End-to-End AI</b> in development, production and services.		<b>Model- and simulation-driven</b> development and optimization, including the use of digital twins.
	<b>Edge computing, cloud technology, 5G/6G networks</b> and software-defined networks for industrial applications.		<b>Software development</b> including reuse and control of security when using <b>opensource code</b> .



# The ongoing projects



200 +

Approved projects

400 +

unique actors within approved projects



What's happening this year

# Focus 2024



## 1. Enhance research and innovation efforts

- Increase research and innovation initiatives.
- Expand through new program councils and thematic areas.

## 2. Communicate, engage, and involve the ecosystem

- Broaden program understanding among prioritized stakeholders.
- Promote knowledge dissemination through relevant and value-added collaboration and communication efforts.

## 3. Strategy and analysis

## 4. One Advanced Digitalization and strengthened organization





# Governance



The board



The following companies and organizations  
participate in the board





# Organization

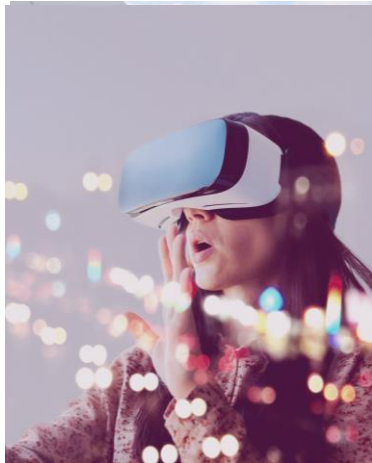
# Program councils



Digital infrastructure & communication

**Chairperson: Jan Söderström**

Process leader:  
Lena Backlund



Enabling technologies

**Chairperson: Niclas Fock**

Process leader:  
Lena Backlund



Electrification

**Chairperson: Anna Wolf**

Process leader:  
Karin Färnevik

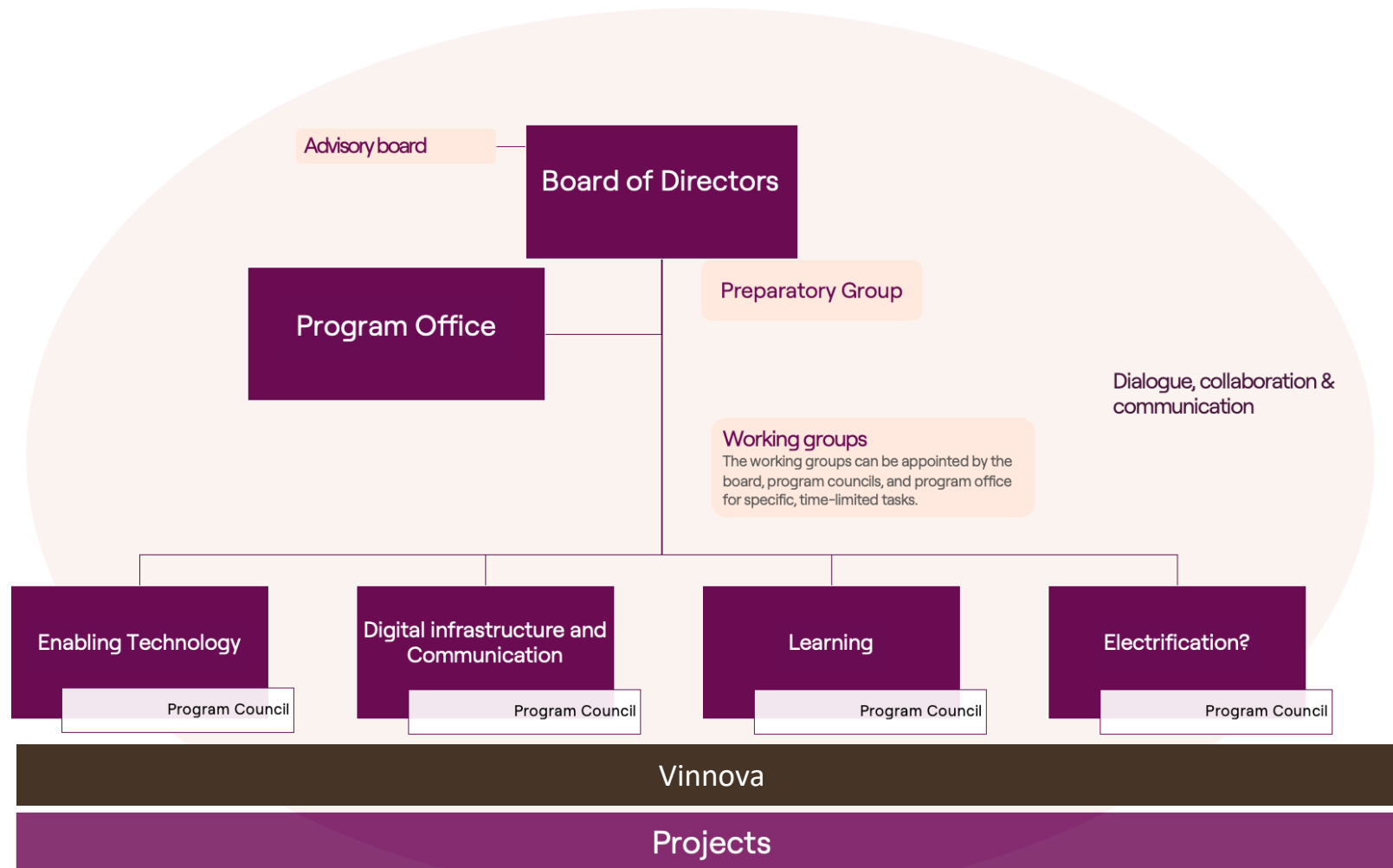


Learning & competence development

**Chairperson: Gunnar George**

Process leader:  
Fredrik von Essen

# The organisation



# Calls 2024, status 24-05-23



## CLOSED

Advanced and innovative digitalization 2024  
Cyber security for advanced digitalization 2024  
AI for advanced digitalization 2024  
Validate research within advanced digitalization in real environment

## OPEN

Digital infrastructure and communication - spring 2024 – until May 29th  
Test and demo of advanced digitization in a real environment – until Aug 27th

## COMING

Advanced digitalization for digital value chains – planned for late May  
Advanced and innovative digitalization 2024 – short projects – planned for June





Thank you!