

Sensor informatics and Decision-making for the Digital Transformation (SEDDIT)

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A Vinnova Competence Center

Thematic Workshop 2025

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Situation readiness and resilience

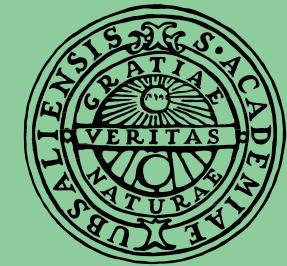
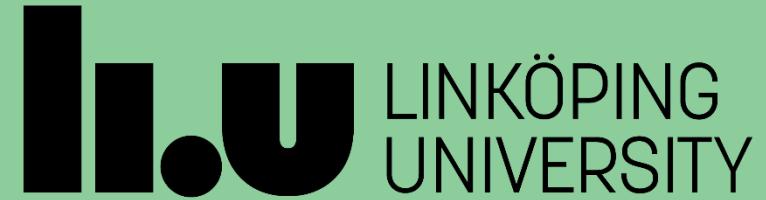
Svante Gunnarsson

Center Director

Linköping University



Sensor informatics and Decision-making
for the Digital Transformation



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Why this workshop?

- An initial idea - situation awareness
- Discussions resulted in an extension of the scope – situation readiness
- Connections to resilience
- Remember the Mission of SEDDIT:

To contribute to a **resilient and sustainable society** and the competitiveness of Swedish industrial ecosystems by developing cutting-edge knowledge and competitive solutions within sensor informatics and decision-making

- Our intention with this workshop is to offer an occasion and an arena to learn, share ideas, experiences, and challenges around these topics and discuss SEDDIT's role



Center partners

Linköping University

Uppsala University

Saab Aeronautics

Saab Dynamics

Scania

Volvo Cars

Atlas Copco Industrial Technique

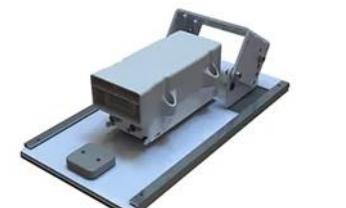
Väderstad

Actia Nordic

SafeLine

UMS Skeldar

Sensorbee



What is meant by situation readiness and resilience? – Some answers from ChatGPT

What is the definition of resilience?

Resilience is the capacity to withstand adversity, maintain or regain mental, emotional, and physical well-being, and continue functioning effectively in the face of stress or change.

Examples:

- Community resilience: How a community recovers from disasters or crises.
- Engineering resilience: How systems or structures withstand and recover from failure or disruption.



What is meant by situation readiness and resilience? – Some answers from ChatGPT

What is the definition of situation readiness?

Situation readiness is the degree to which a person, team, or organization possesses the necessary awareness, resources, skills, and plans to act appropriately and effectively in response to a given situation.

Example:

- Military or emergency management: The ability to respond immediately and appropriately to crises.



What is meant by situation readiness and resilience? – Some answers from ChatGPT

Which are the connections between resilience and situation readiness?

Readiness builds the foundation for resilience; resilience sustains performance when readiness is tested.

- Situation readiness is about being prepared before a challenge occurs.
- Resilience is about how you respond and recover after the challenge happens.



Additional perspectives

- Societal perspectives – Thomas Ekström, Kristina Börjevik Kovaniemi
- Core competence perspectives
- Management perspectives – Nicolette Lakemond



Core competences

- Sensor fusion and sensor systems
- Data-driven modeling and diagnostics
- Learning methods for control
- Control-oriented physics-based modeling
- Optimization and planning for control and autonomy



Program

09.30 – 10.00: Coffee

10.00 – 10.10: Welcome and introduction

10.10 – 11.00: *From information to decision – A resilience perspective.* Thomas Ekström, Rote Consulting

11.00 – 12.00: *Lessons from Almirante Storni and Marco Polo – Society's Preparedness for Major Maritime Incidents.* Kristina Börjevik Kovaniemi, The Swedish Accident Investigation Authority

12.00 – 13.30: Lunch

13.30 – 15.00: *Situation Readiness and Resilience from Core Competences Perspective*

15.00 – 15.30: Coffee

15.30 – 16.30: *Organizational perspectives on situation readiness and resilience.* Nicolette Lakemond, Linköping University

16.30: Discussion and closing

19.00: Dinner at Restaurant Citat, Nygatan 38



Dinner tonight – Restaurant Citat, Nygatan 38

Google Maps

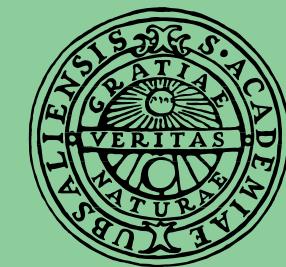
Citat Vin & Mat Linköping





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