

Research Arena for Public Safety

WARA-PS

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Framtidens skadeplats 2022



Autonomous systems in society?

- Higher capability together
- Diversity is better
- Human to handle unforeseen events

Industry, Academia, Government need to work together!



Wallenberg AI, Autonomous Systems and Software Program

600 PhDs

Largest individual research program in Sweden ever
5.5BSEK for over 15 years (470 M€)
Started 2015

Vision - Excellent research and competence in artificial intelligence, autonomous systems and software **for the benefit of Swedish industry.**

Mission - Build a world leading **platform for academic research that interacts with leading companies** in Sweden to develop knowledge and competence for the future.

WASP Research Arenas



Mission

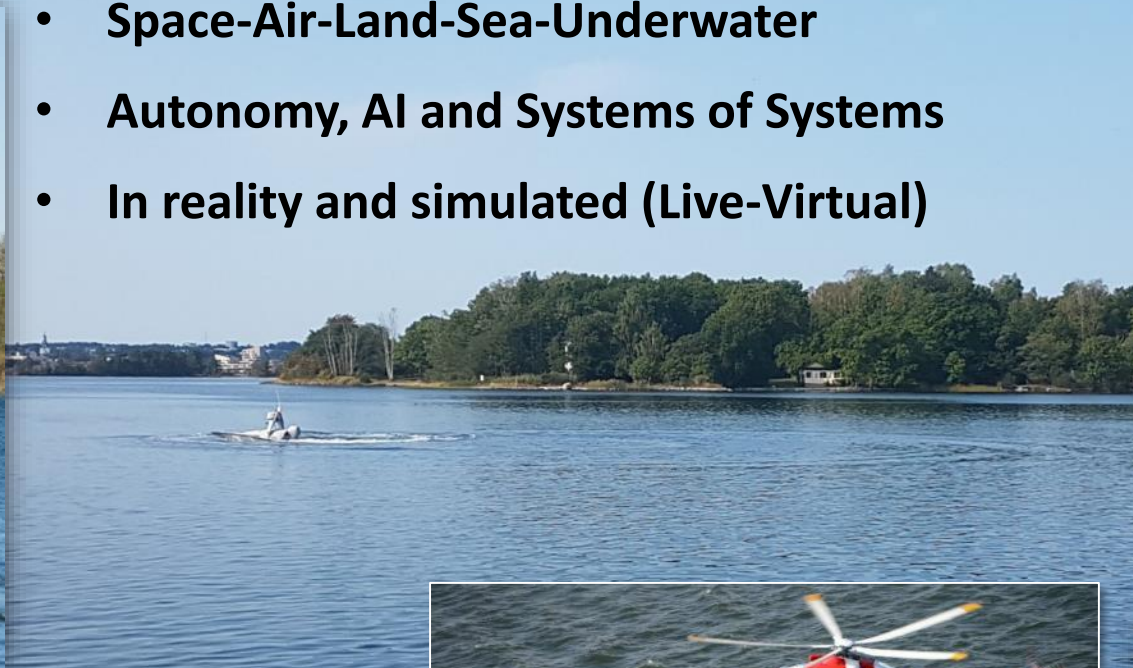
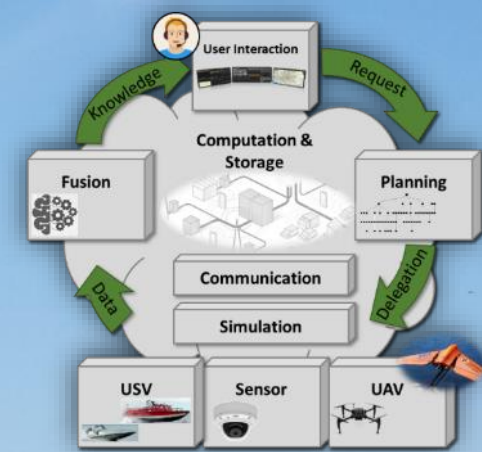
Increase the value and relevance of research by strengthening and promoting collaboration between researchers and industry partners.



Research Arena for Public Safety WARA-PS

Autonomy – a multi-domain topic

- Space-Air-Land-Sea-Underwater
- Autonomy, AI and Systems of Systems
- In reality and simulated (Live-Virtual)



Research Focus

“Collaborating humans and autonomous systems of systems...”

Public Safety scenarios

- Challenging environment
- Unforeseen events
- Multi domain solutions



The System

The Community

The Community



SAAB



FÖRSVARSMAKTEN

FMV



COMBITECH

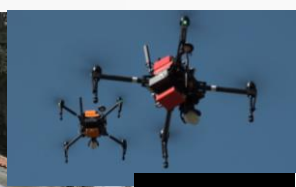


<https://portal.waraps.org/granso21/>





LiU



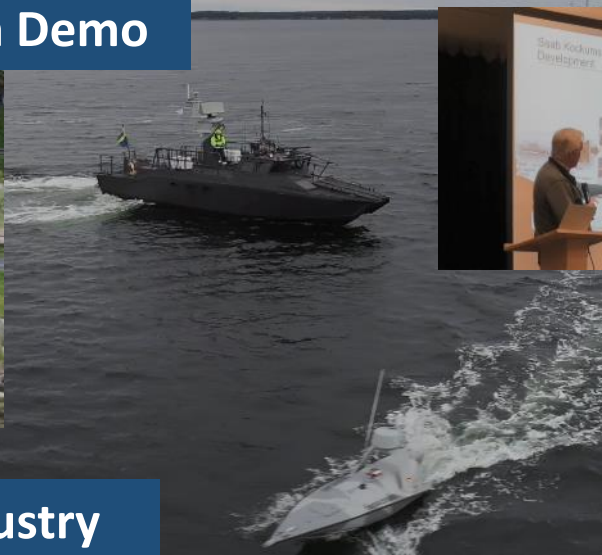
Government



KTH



Core System Demo



UU

Industry



CTH



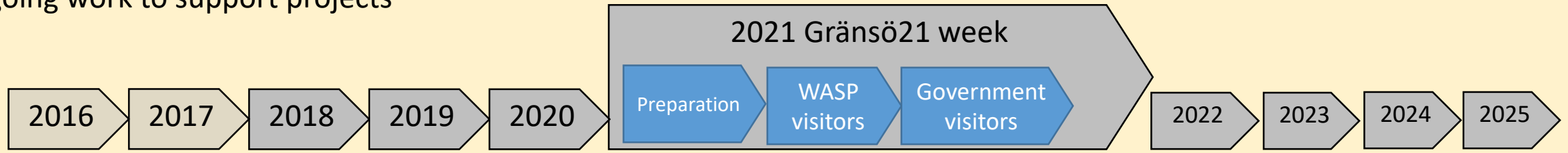
LTH

RISE



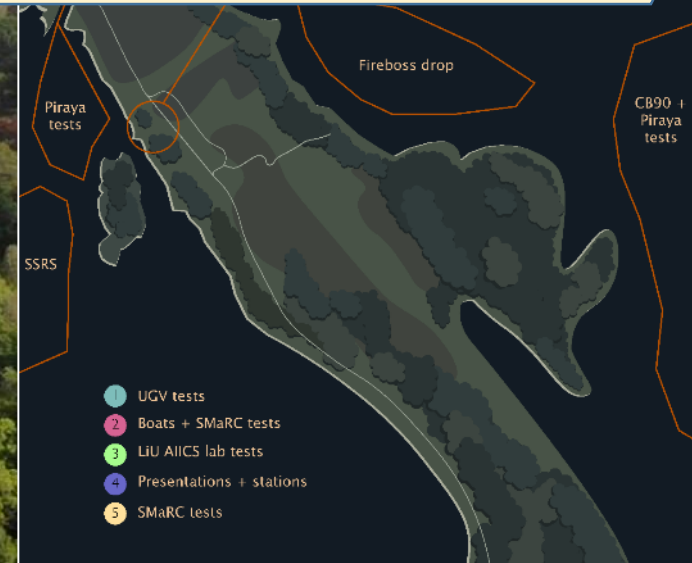
Gränsö21 – Annual workshops

Ongoing work to support projects



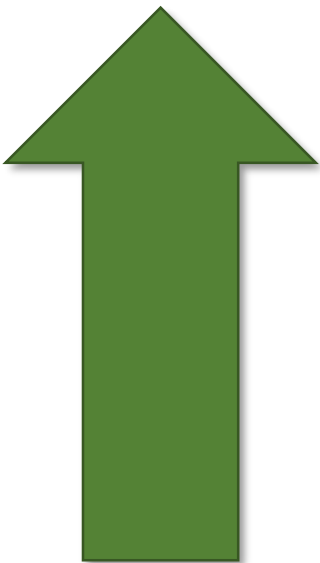
To meet and inspire with

- Field tests and data collection
- Demonstrations
- Presentations
- Exhibitions

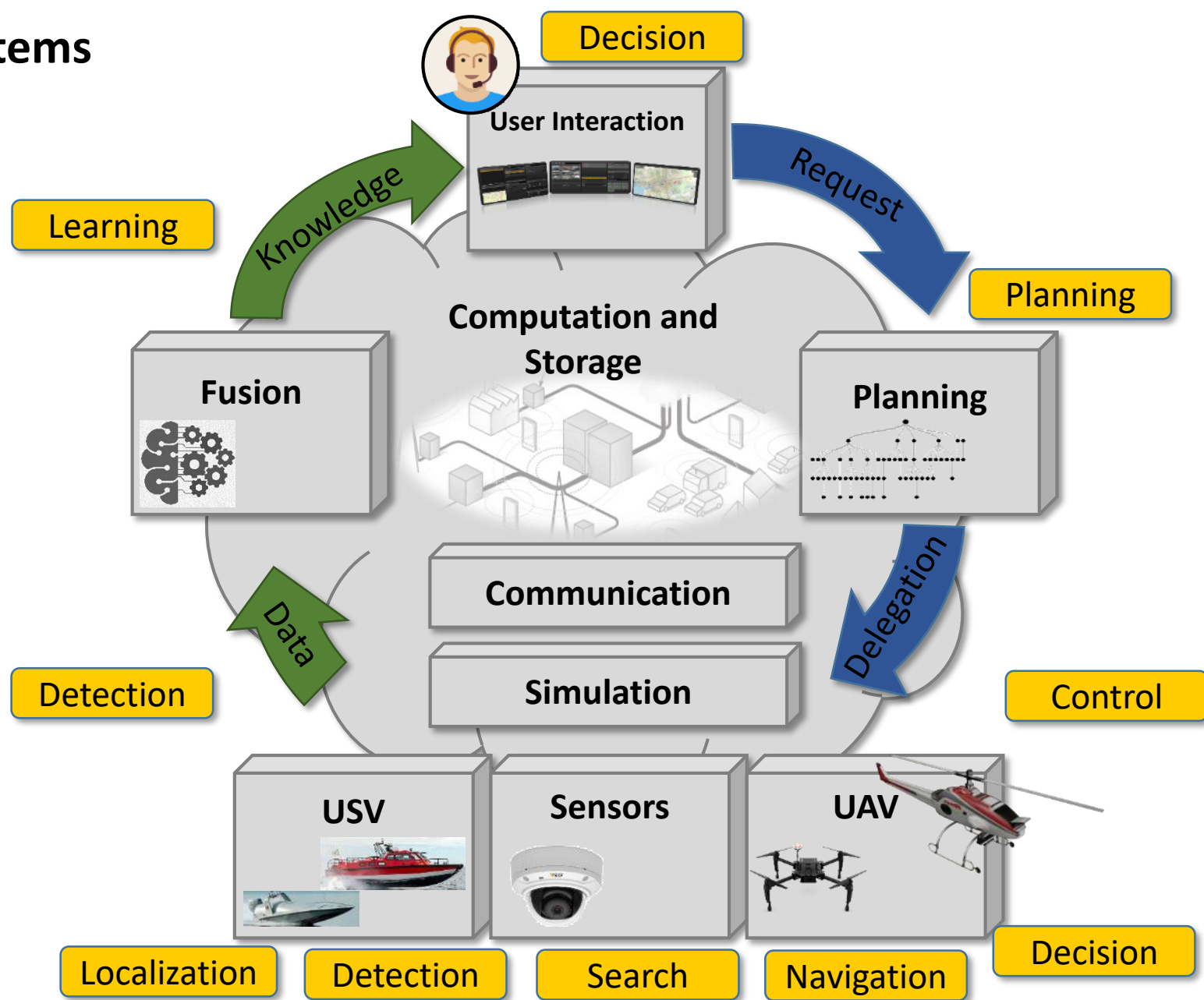


Research into Systems

AI/ML
Training data



Multiple sources



"Autonomous
behavior"
High level goals



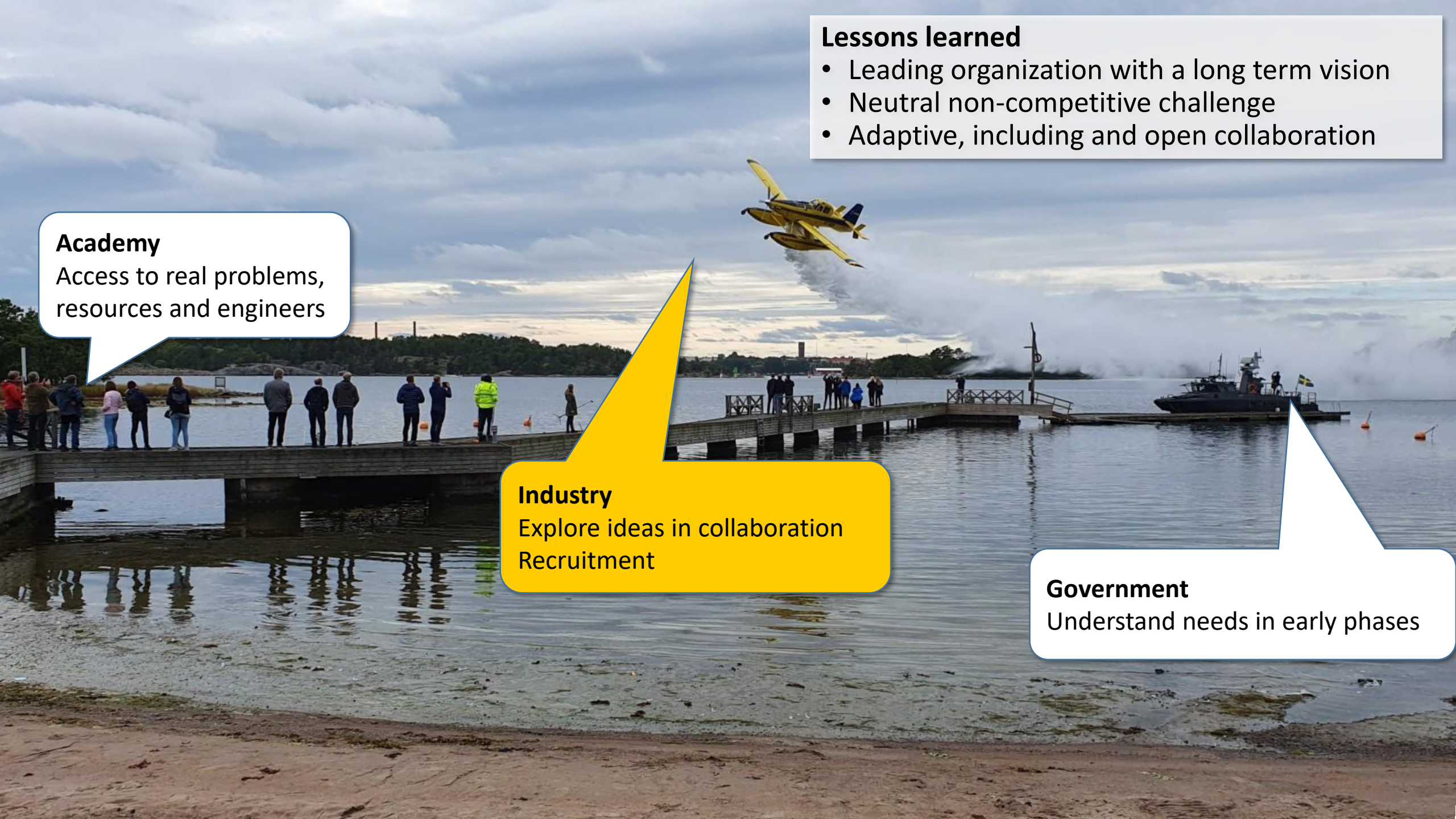
Task execution





Collaboration with Swedish Sea Rescue Society and Swedish Maritime Administration for real user perspective





Lessons learned

- Leading organization with a long term vision
- Neutral non-competitive challenge
- Adaptive, including and open collaboration

Academy

Access to real problems,
resources and engineers

Industry

Explore ideas in collaboration
Recruitment

Government

Understand needs in early phases

Explore autonomy in Reality in 2022...

- Master Thesis and PhD projects
- WASP projects
- Vinnova, Trafikverket,... projects
- International collaboration projects

Workshops in May 16-20 and September 5-8, 19-23

See you at the exhibition!



Learn more



Introducing the arena, film from 2019

<https://www.youtube.com/watch?v=S2yfsNW96PY>

WARA-PS

The logo for WARA-PS features the text 'WARA-PS' in a bold, blue, sans-serif font. The letters are semi-transparent, allowing a background image of a boat on water to be visible through them.

Research in reality, film from 2020

<https://www.youtube.com/watch?v=B11IDSOMUqY>



WARA-PS 2021 Overview

<https://www.youtube.com/watch?v=bVWN-RRIpSo>

WASP Research Arenas

A drone is shown from a top-down perspective, carrying a red first aid kit. The kit has a white cross and the words 'FIRST AID KIT' printed on it. The background is a solid blue color.

More info

<https://wasp-sweden.org/research/research-arenas/>

<https://portal.waraps.org>

<https://portal.waraps.org/granso21/>

