

Test Arena Autonomous Airport Debriefing

TO ACCELERATE MOBILITY



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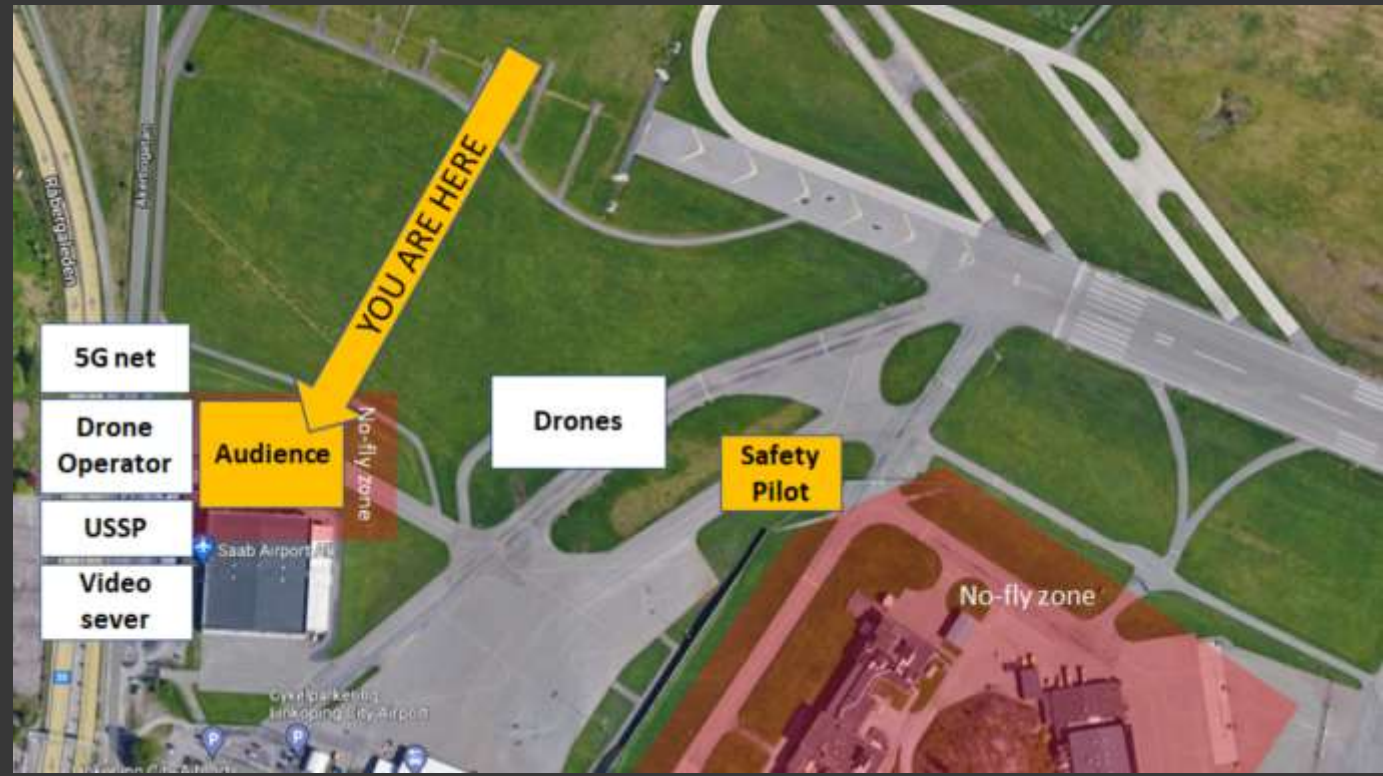
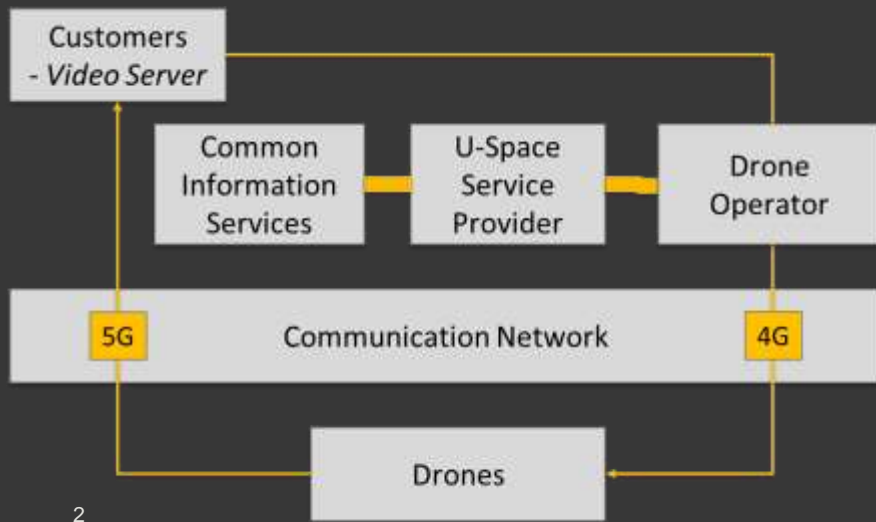
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What have we seen ?

- Simultaneous planned flights with 3 drones Sc 1 using the U-space interfaces
- Simultaneous planned flights with 3 drones Sc 2 incl no flight zones with replanning during the flight.



Test Arena Autonomous Airport Way forward

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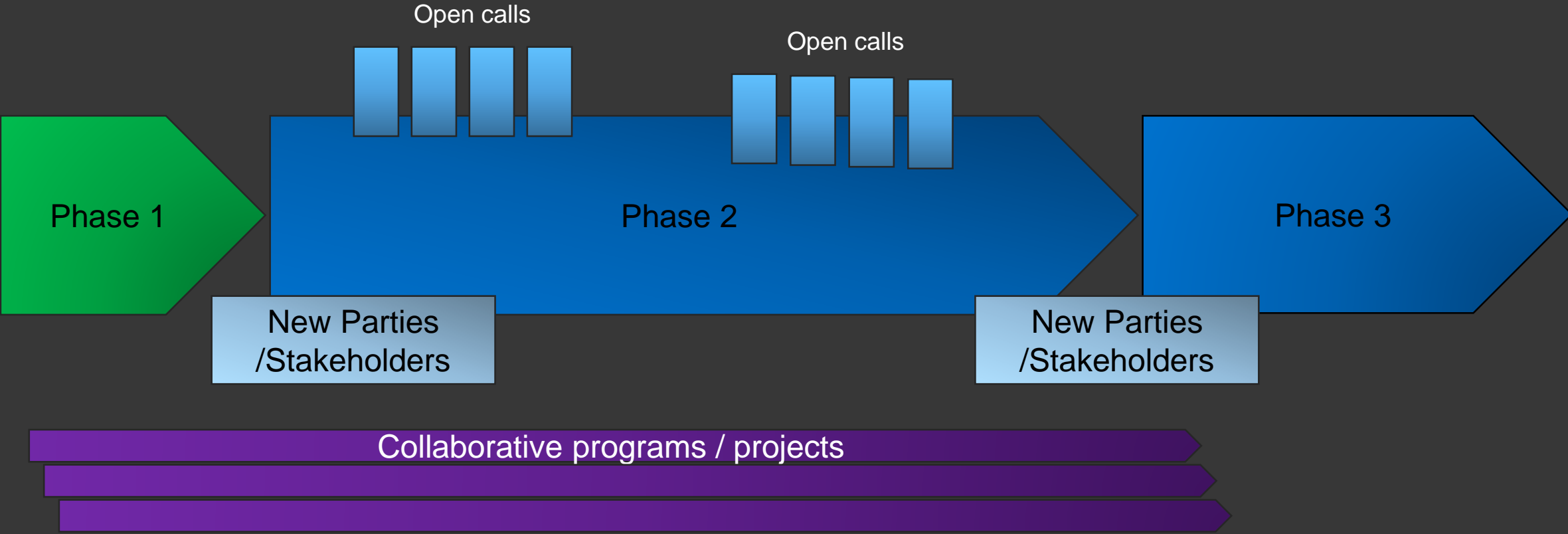


Summary of the work so far

- Project start is important. Important to learn to know each other.
- Common tools for project
- Respect for the time for ramping up resources
- Cooperation with other projects / technology is essential
Find synergies between projects in the same domain.
- **We have started the project well but there is still a lot to do.**
 - Dev of regulations
 - Dev of technologies
 - New areas for R&D



Next phase for the Test Arena Autonomous Airport



First step in Phase 2 in UTM Area

RI SE | Research Institutes of Sweden

Drone Center Västervik

U-space regulations
Drone system
Drones

LFV | AIR NAVIGATION SERVICES OF SWEDEN | **li.u**

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Human-AI Simulation

ATM Regulations
UTM-city
Digital Tower
Simulators

WASPI | WASA LÄROBOKS- OCH UTBILDNINGSPROJEKT

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WARA-PS

Research Unforeseen events

Core system
Video server
Integrations

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Communication
Positioning

5G
3GPP



**"Last Mile Delivery System"
Demonstration**

Open Digital Core

Befintlig	Realtid	Simulerad
Förstå	Styra	Förutse

Development from Phase 1.
CIS, USSP, Operators,
ATM-Sim, Wara-PS, UTM-City

Areas in Phase 2

- Continued development of UTM from phase 1. Increased autonomy.
 - CIS, USSP:s, operators. => Open digital core
 - Technology
 - Regulations and Standards, Optimization of air zones / U-Space levels development
 - Safety and Security
 - Development in a digital environment to be used at several places
- ATM / UTM / UAM Integration.
- Advanced Digitalization of ATM
- Digitalization of Airports - Omniports – Vertiports,
- Connectivity via 5G /6G for drones id, positioning etc
- Protection and Antidrone Systems
- Municipalities integration and planning
Multimodality, Acceptance, Routs, Noice etc



Partners for next coming phases

Partners for next step:

Successively and aligned with the functional growth of the Autonomous Airport key stakeholders and customers will be involved:

- International partners / cooperation programs
- Users as Transport operators and logistics companies
- Airport owners
- Authorities
- Academia
- Energy companies and authorities.
- Social authorities. Medical, Police etc.
- Military.

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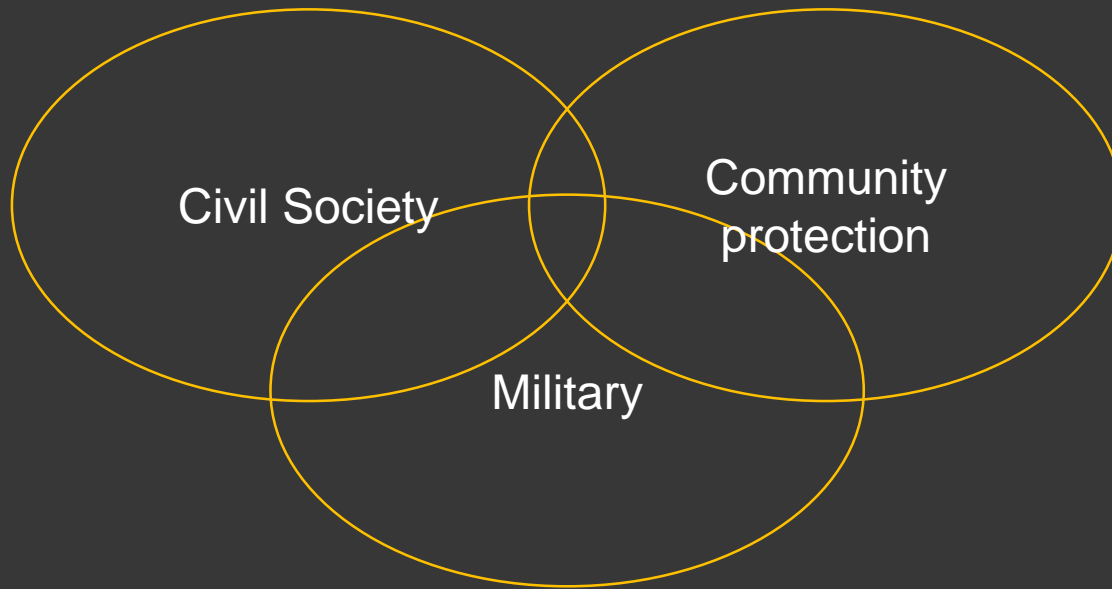
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Synergies for success



Collaborative programs / projects