Company unclassified |Not Export controlled Gunnar Holmberg | |© Saab

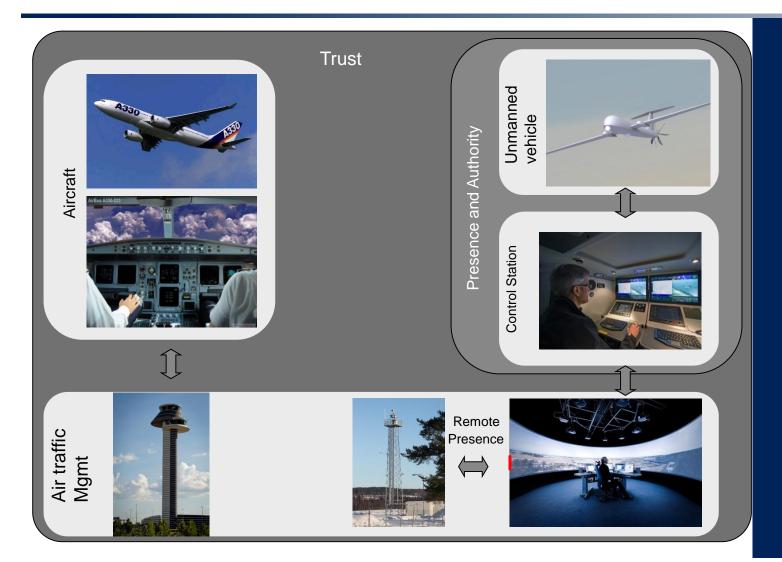


ICAS TECHNOLOGY LEADERSHIP FORUM INTELLIGENT AND AUTONOMOUS SYSTEMS

ICAS Belo Horisonte 10 September 2018

Gunnar Holmberg Director Business Development, Future Air Systems Saab Aeronautics

REMOTELY CONTROLLED VS. **AUTONOMY** SOME LESSONS LEARNED



Both manned and unmanned systems benefit from autonomy and decision support

Remotely operated systems could use remote presence together with various degree of autonomy support

Regulatory Aspects often defining the pace

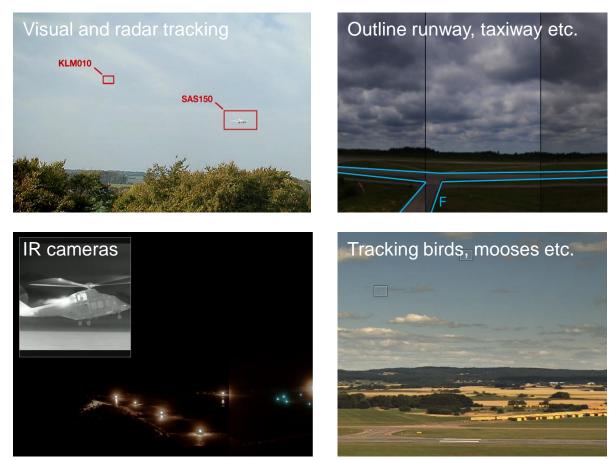
Key aspects include:

- Trust, Presence, Authority
- Safety, Security
- Liability

REMOTE TOWER

Enables air traffic services to be provided more efficiently for any airport, from any location. Initial application in sparsely populated areas and as backup solution.



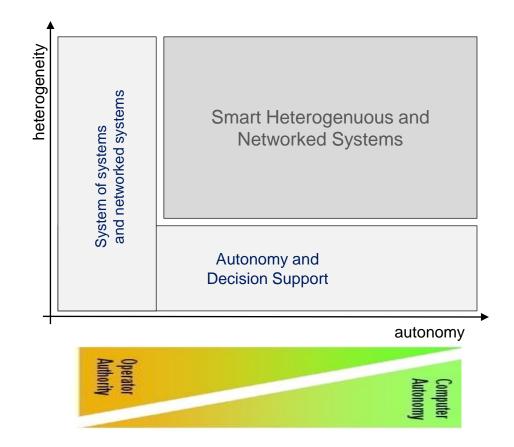


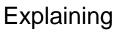
AUTONOMY IN FUTURE Security and defence systems

- Intelligent systems with a high degree of autonomy **interacting** with humans
- A mix of **heterogeneous** manned and unmanned systems
- Situation awareness and readiness based on **networking systems**
- Challenge to master complexity of systems of systems and diversity of potential missions



ASPECTS ON AUTONOMY: AUTONOMY AND HETEROGENEITY





Adapting

Reasoning

Incomplete training and data sets

Critical and Generative

MANY DIVERSE APPLICATIONS-WHO/**WHAT IS IN THE DRIVING SEAT?**





Ehe New York Times

Would You Buy a Self-Driving Future From These Guys?

