ICAS TECHNOLOGY LEADERSHIP FORUM

INTELLIGENT AND AUTONOMOUS SYSTEMS

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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

- Explaining
- Adapting
- Reasoning
- Incomplete training and data sets
- Critical and Generative
MANY DIVERSE APPLICATIONS - WHO/WHAT IS IN THE DRIVING SEAT?

The New York Times

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

By The Editorial Board
Oct 14, 2017