

# Joint Concept for Robotic and Autonomous Systems - Update



*8 December 2015*

Overall Classification of this Briefing is  
**UNCLASSIFIED**

# *Joint Concept for Robotic and Autonomous Systems*

## Status / Recent Activity / Issues

**... since last update...**

- **Red Team Review 9 Sep**
- **In-Stride Evaluation 3-5 Nov**
- **International Concept Development and Experimentation review 17-18 Nov in Berlin**

# *Joint Concept for Robotic and Autonomous Systems*



## Way Ahead

- **Dec 2015: subject matter expert review**
- **Jan – Mar 2016: two rounds of formal world-wide review (O-6 and GO/FO)**
- **Mar 2016: final OPSDEPS Review**
- **Apr 2016: approval and release by CJCS**
- **Transition- Implementation Planning (on-going)**

# Joint Concept for Robotic and Autonomous Systems

Understanding of future challenges and RAS opportunities



Environment

Operational Challenge

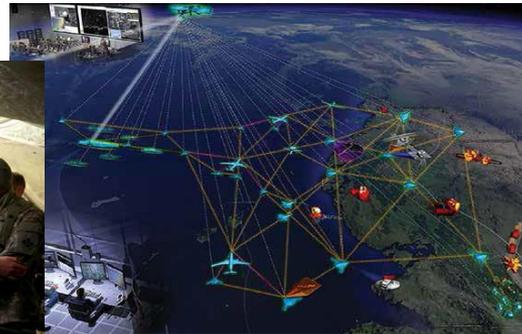
Solution

Concept Required Capabilities

Risks of Adopting Concept



## Future Operating Environment > Operational Challenge



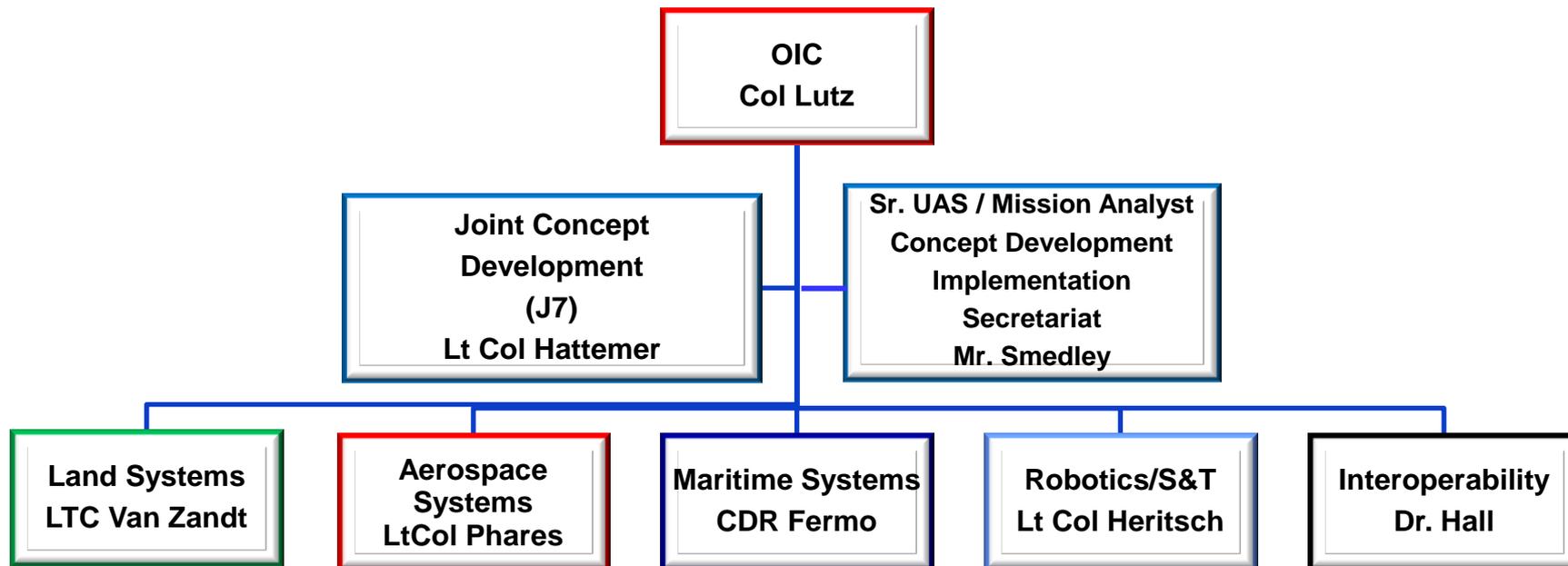
## Advances in RAS > Central Idea





# *Questions*

# *JRAST Organization and Lines of Effort*



**LoE 1- Develop and publish a Joint Concept for RAS (JCRAS).**

**LoE 2- Identify and advance opportunities for increased interoperability between manned systems and RAS (Human/Machine Teaming).**

**LoE 3- Synchronize and encourage collaboration across the DoD RAS enterprise.**

**LoE 4- Work with Industry, S&T, and academia to identify emerging RAS technologies and align them with DoD requirements.**

**LoE 5- Provide a forum for development of DoD policies concerning RAS.**