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UK-Sweden Call for Proposals for Aerospace R&D Projects

Project outline for discussion - 3SDL and Spacemetric

7 SEP 2018

Project partners in one minute

- Spacemetric – Swedish software solutions provider for imagery from "flying" sensors
  - Onboard and on-ground image data handling systems for rapid data access
  - Sensor agnostic – stills and video from satellite, aerial and UAS
  - >10 years operational systems with Swedish AF (Gripen recce pod, UAV03 video)
  - >15 years satellite solutions for EU Copernicus, European Space Agency and commercial satellites
  - Ongoing support services to Frontex border patrol services
  - Sensor data interoperability expertise (MAJIIC, FMN CSD)

- 3SDL – UK defence and cyber data systems specialist
  - Enables individuals, organisations and armed forces to deliver positive effect
  - Innovative approaches for 'challenging' bandwidth environments
  - Air Experimentation for in-cockpit support
  - 10 years of ongoing Airborne ISR delivery for UK MoD
  - Increasing the utility of smaller aviation platforms
  - Advocate of pioneering space-systems approaches

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3SDL

Airborne

Current project thoughts: Getting the Picture

- **Sensor data collation**
- **Image data geolocation**
- **Image data compression**
- **Data manipulation**
- **Metadata & data sharing**

- **Data integrity and fusion**
- **Innovative transmission pathway**
- **Cockpit support**
- **Sensor integration**
- **Airframe diversification**

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EUREKA Σ!

3SDL

- **R&D experimentation**
- **Software development**
- **Hardware configuration and design**
- **Low cost COTS**

- **New aircraft utility**
- **Border protection and security**
- **Connected cockpits**
- **Rapid re-tasking**
- **Enhanced maritime support**
- **Sensor data interoperability**
- **UAS integration**

Airborne

Strategic relevance

- UK priorities
  - Smart connected aircraft - secure digital systems and communications

- Swedish priorities
  - Sensor Integration
  - Sensor Information Fusion

Airborne