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Future cooperation opportunities

Air Brigadier General Yves ARNAUD
French MoD
Joint Space Command



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Future cooperation opportunities

Today's capacities, national or in cooperation :

• Military systems

- telecommunications : SYRACUSE III (FR)
- optical Imagery : HELIOS I & II (FR, IT, BE, GR, SP)
- radar Imagery : SAR-LUPE (GE)
- space Surveillance : GRAVES (FR) & TIRA ground-based Radar (GE)
- navigation : GPS (US)

• Use of dual systems

- radar imagery : COSMO-SkyMed (IT)

• Use of civil or commercial systems

- optical imagery : SPOT & foreign supplier
- meteorology : METEOSAT & METOP
- oceanography-altimetry : JASON
- telecommunications : commercial Operators
- emergency localisation : COSPAS-SARSAT
- launching services : ARIANE 5





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COOPERATION OBJECTIVES :

- To enhance capabilities (by adding partners, sources, capacities...)
- To develop capabilities unaffordable by our own
- To coordinate the use of different assets

CAPABILITIES THROUGH COOPERATION

- Multilateral military cooperation
 - Assets common acquisition or exchange of capabilities
- Capabilities within Europe and NATO
 - Coherence of the overall architecture
 - Slow progress of the process (common requirements, complex industrial organisation)



A necessary compromise between COOPERATION and SOVEREIGNTY



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COOPERATION AND FUTURE OF SPACE PROGRAM :

- **Observation** : MUSIS/CSO – open to cooperation
 - Based on historical HELIOS community + ?
- **SSA** : open to cooperation
 - Bilateral with US and GE, EU, ESA
 - Caution to national security concerns and data policy
- **Eavesdropping** : CERES – open to cooperation under conditions
 - Bilateral opportunities



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CONCLUSION

Cooperation needs to be

- **Balanced**
- **Efficient**
- **Cost effective**
- **Capability driven**
- **Built on trust with partners**



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THANK YOU FOR YOUR ATTENTION