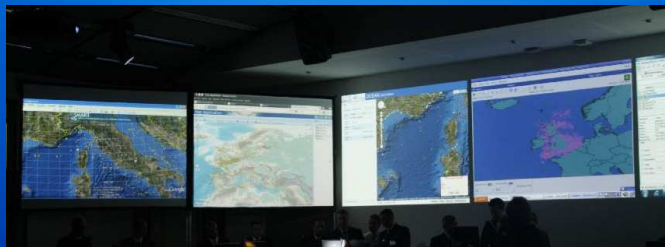
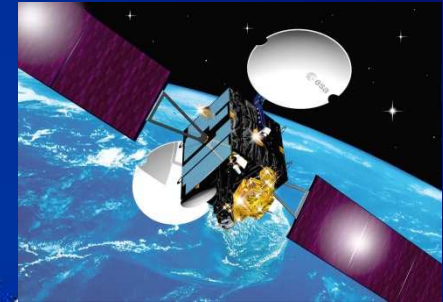
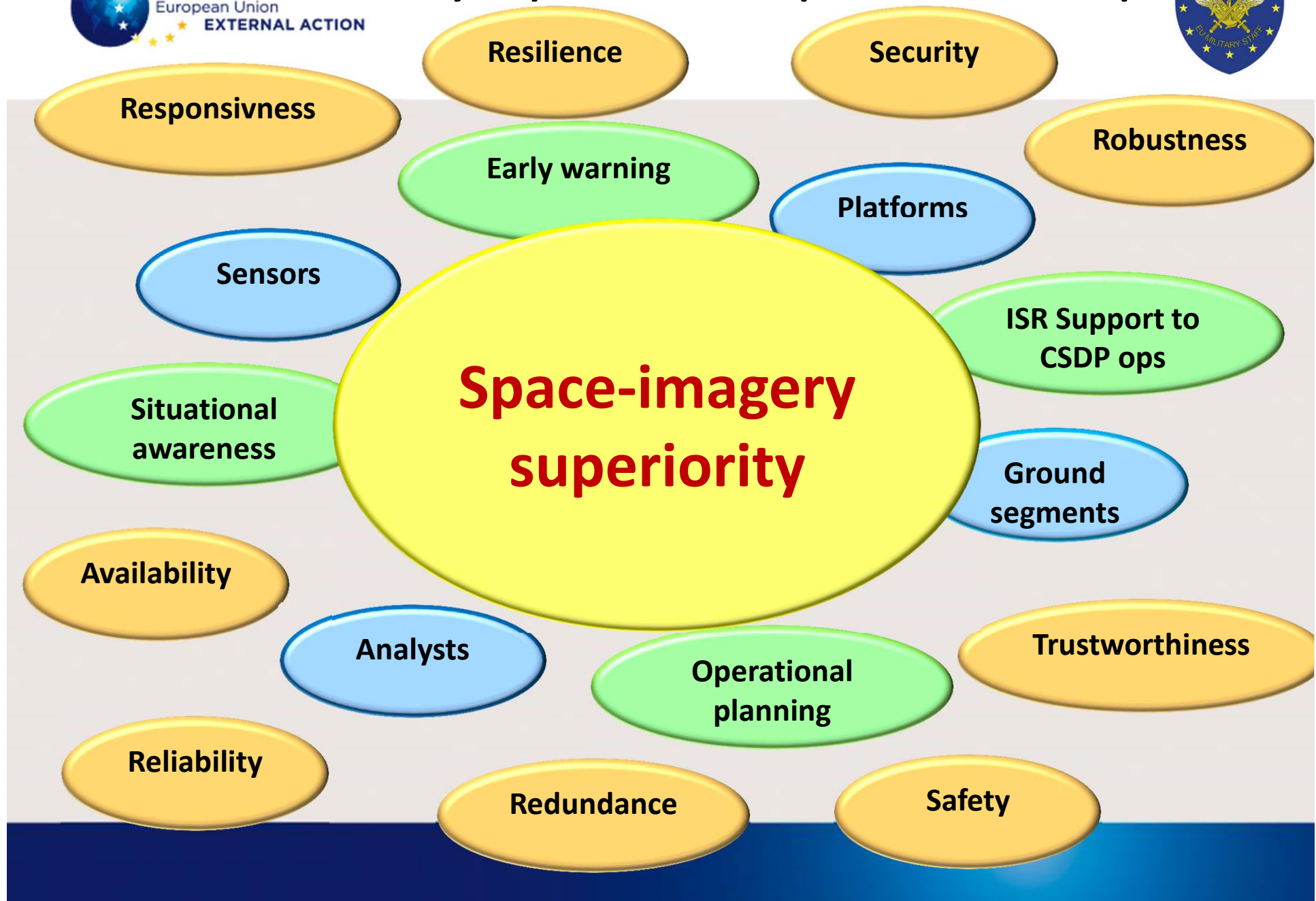




# European Union **EXTERNAL ACTION**



# Military requirement for Space-based EO Caps



- Accuracy

- Integrity

- Availability

- Continuity

### Conditions for

**STRATEGIC AUTONOMY**

**RELIABILITY**

**SUSTAINABILITY**

- Timeliness / Responsivness

- Trustworthiness

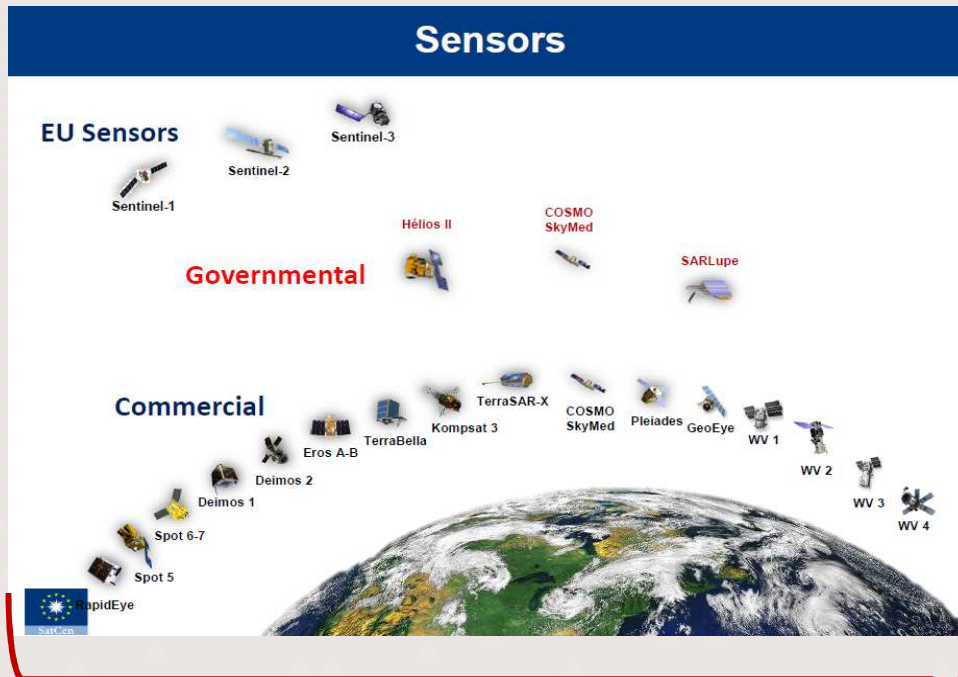
- Robustness

- Interoperability



***Need for an EU safe and secure service***

As SATCEN user, we focus on products SATCEN is able to provide in a safe way



**IMINT Products**

QuickRep

First Impression Reports

Briefing Notes



**GEOINT Products**

GIS

Web Map Services



**iot Deliver an effect**

# Military requirement for Space-based EO Caps

## Generic requirements



INFORM ( I )	
COLLECTION - Imagery ( I.1.3 )	
Variant Group:	Space-Based Imagery Collection (2 Capability Codes)
<b>VARIANT COMMON DESCRIPTION</b>	
1.01	Capable of space-based collection of images of objects and activities on the Earth's surface.
<b>COMMON PRINCIPAL STATEMENTS</b>	
2.01	Capable of collecting images of objects and activities on the Earth's surface.
2.02	Capable of integrating the theatre JISR capability to permit effective collection tasking, cross-cueing of other collection capabilities and dissemination of collected information to users.
<b>COMMON ENABLING STATEMENTS</b>	
3.01	Capable of recording and storing collected imagery.
3.02	Capable of secure, robust, reliable Line of Sight and Beyond Line of Sight communications and mission data transmission to appropriate receiving stations (scheduled or on demand), in Near Real Time when required, with minimal delay e.g. via wide-band SATCOM.
3.03	Capable of pre-planned imagery collection with in-mission update/re-tasking.
3.04	Capable of providing still-frame and/or video imagery.
3.05	Capable of being tasked for collection in a timely manner.
Variant Group:	Space-Based Imagery Collection
Capability Code:	ISA-IMAGECOL-SBS-EOIR
Capability Name:	Space-Based Electro-Optical/Infrared (EO/IR) Imagery Collection
Linkage with EU CCS12:	ISA-CO11
<b>CAPSTONE CAPABILITY STATEMENTS</b>	
1.01	Capable of space-based collection of images of objects and activities on the Earth's surface.
<b>PRINCIPAL CAPABILITY STATEMENTS</b>	
2.03	Capable of providing broad area coverage with a rapid revisit rate.
2.04	Capable of providing wide area mode, and line of communication imaging modes.
2.05	
2.06	
2.07	Capable of providing medium resolution visible wavelength imagery together with supporting data to allow the recognition, identification and location of terrestrial objects of interest.
2.08	Capable of providing high resolution visible wavelength imagery together with supporting data to allow the recognition, identification and location of terrestrial objects of interest.
2.09	Capable of providing IR imagery together with supporting data to allow the recognition, identification and location of terrestrial objects of interest.
2.10	Capable of providing broad area low to medium resolution multi-/hyper-spectral imagery together with supporting data to allow the recognition, identification, and location of terrestrial objects of interest.
2.11	Capable of providing high resolution multi-/hyper-spectral imagery together with supporting data to allow the recognition, identification, and location of terrestrial objects of interest.
2.12	Capable of providing very high quality optical and IR imagery - Clear conditions.
<b>ENABLING CAPABILITY STATEMENTS</b>	
3.06	Capable of a high rate of roll manoeuvres and the ability to slew within a 45 degree cone from nadir.
3.07	Capable of near-real time commanding from in-theatre mobile terminal.
3.08	Capable of geo-locating images to better than 15 m without ground control points.
3.09	Capable of providing very high quality imagery - equivalent quality to IR NIIRS > 6.
3.10	Capable of providing very high quality imagery - equivalent quality to Multi-spectral NIIRS > 6.
3.11	Capable of providing very high quality imagery - equivalent quality to Optical NIIRS > 7.

**High Impact Capability Goal**

### EU Capability Codes and Statements

Generic EU-NATO definition of Military Capability Requirements

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Focused and technical studies developed by pMS within EDA  
CST – CSR  
Business Case

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European Union

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