



EUROPEAN UNION
SATELLITE CENTRE

Analysis for decision making

European Interparliamentary Space Conference

“The EU Satellite Centre”

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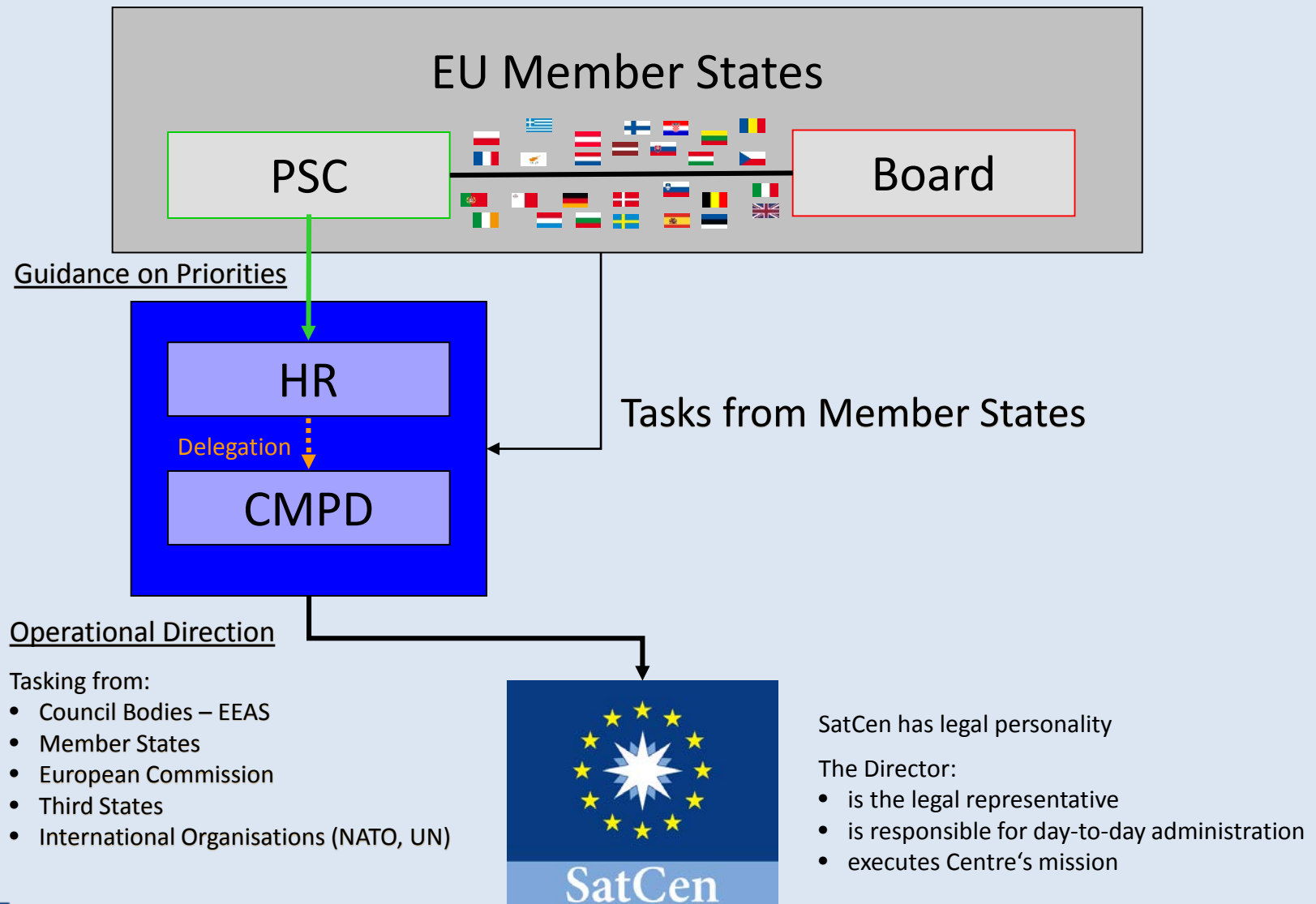
European Union Satellite Centre (SatCen)

- Agency of the EU Council
- HQ in Torrejón de Ardoz (ES)
- Primary User of EO Satellite Data
- Service Provider (primarily GeoInt)



Mission: To support the decision making and actions of the EU in the field of the Common Foreign and Security Policy (CFSP) by providing products and services resulting from the exploitation of relevant space assets and collateral data

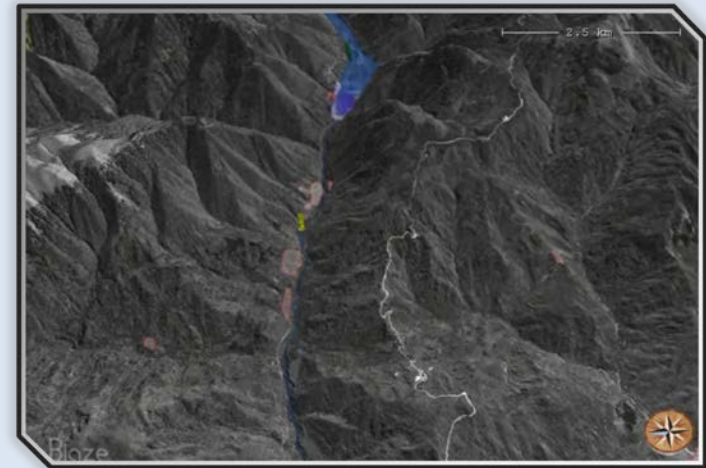
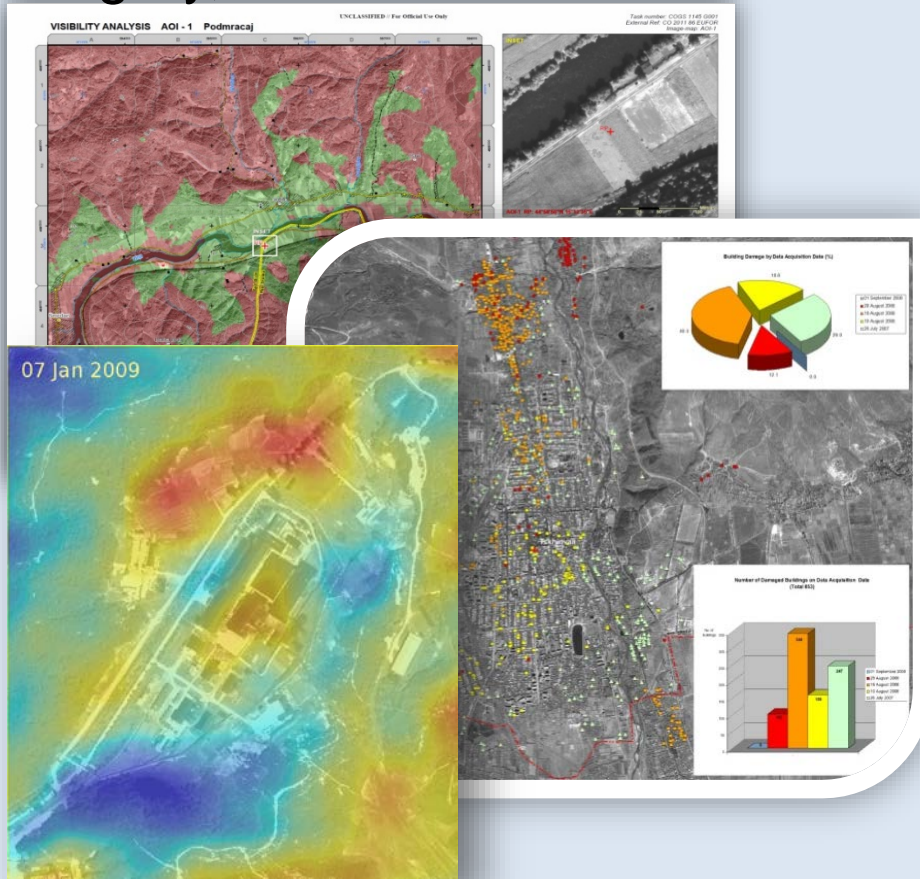
Tasking Process



The mission

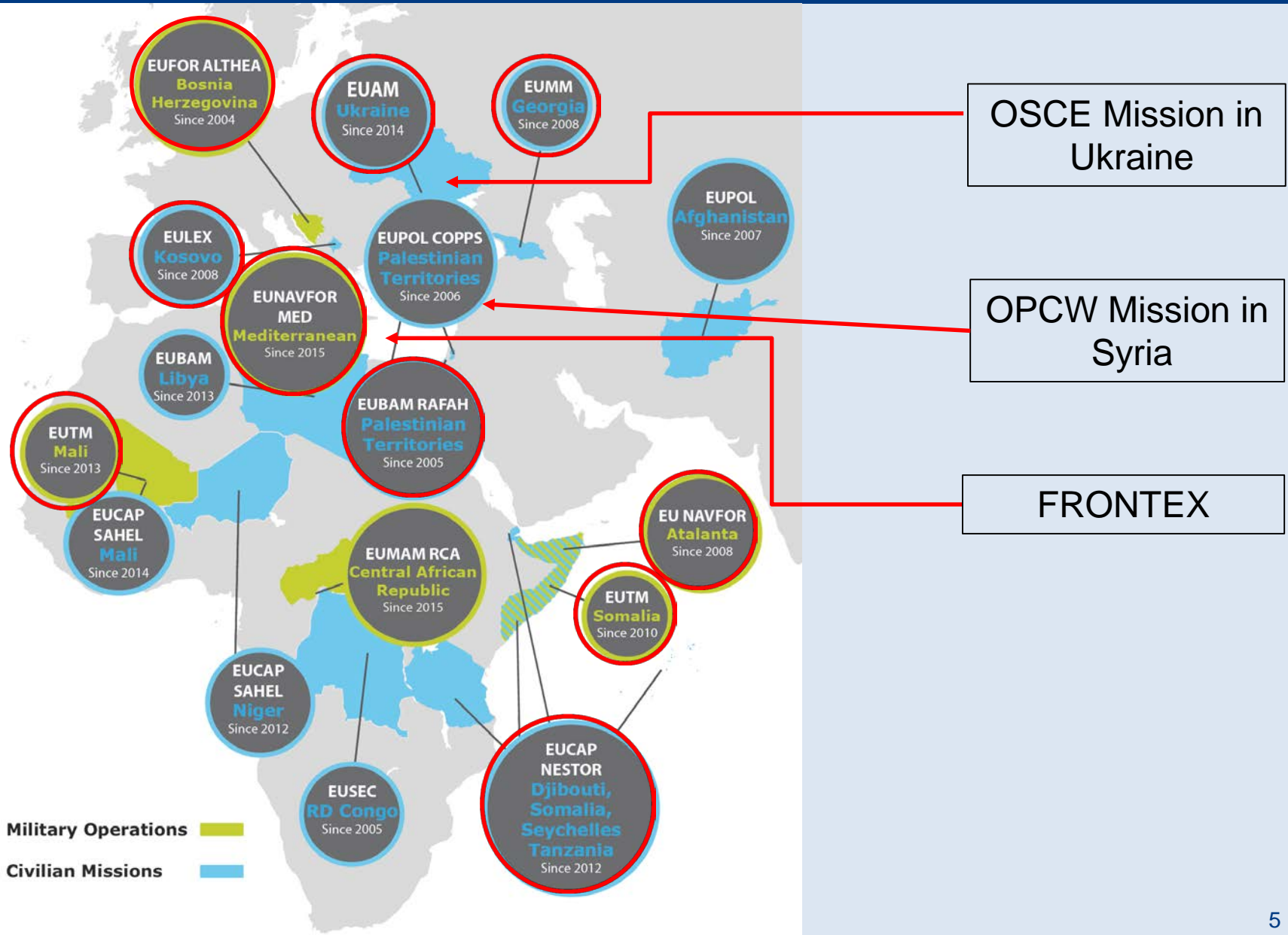
What we do?

Products and services resulting from the **exploitation of relevant space assets and collateral data**, including satellite and aerial imagery, and related services.



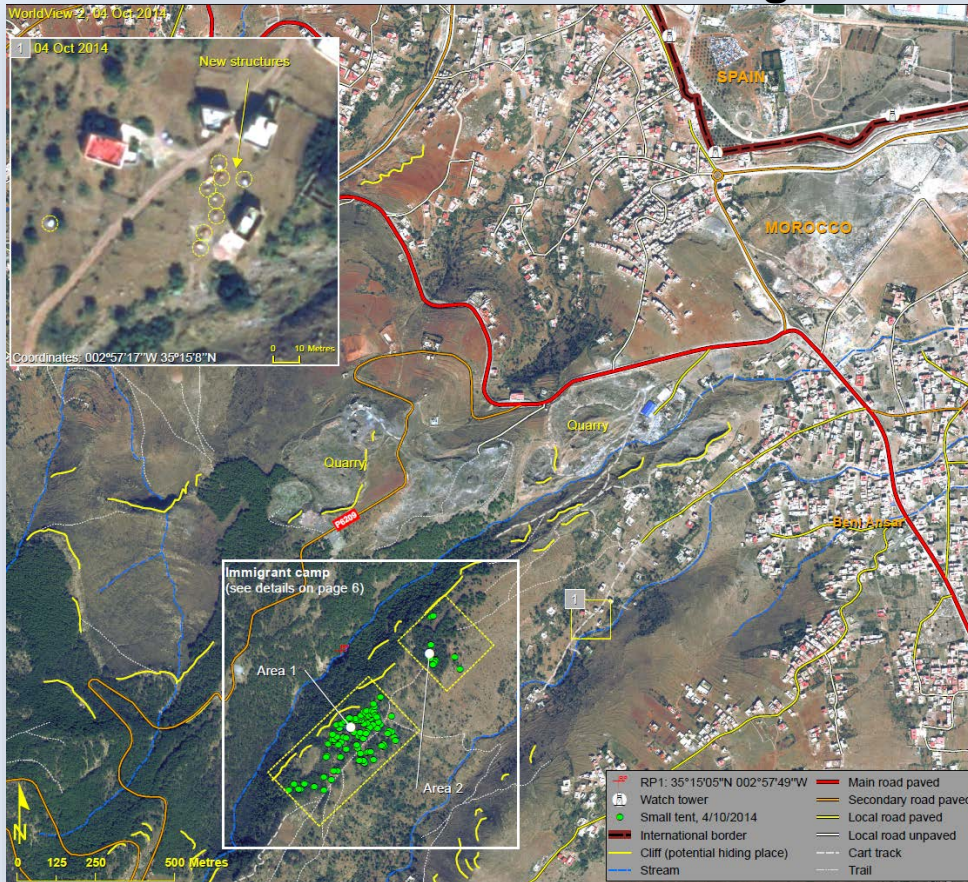
- **Value added** products and services (solutions, not only data!).
- **Timely, reliable, relevant and accurate** geospatial intelligence (GEOINT).
- Tailored **geospatial intelligence services** and solutions.

EU/Non EU Operations Supported by SatCen

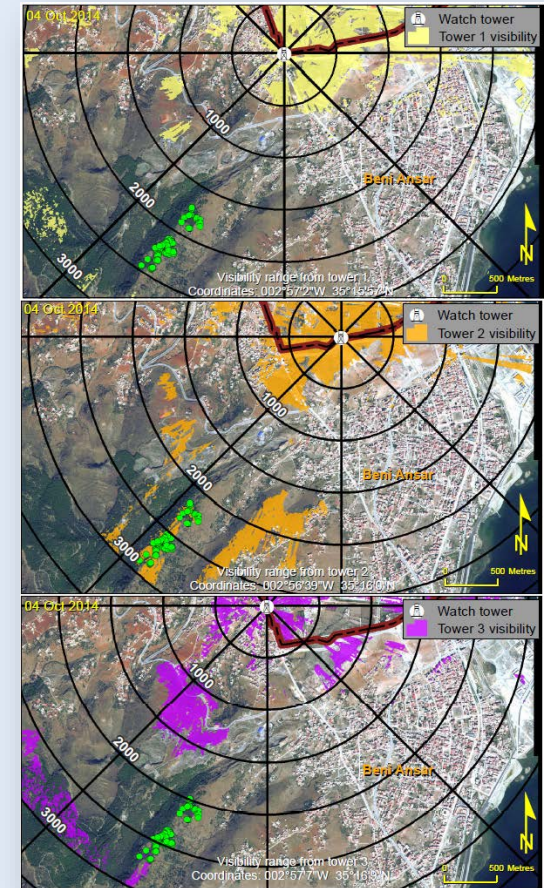


Operational Activity

Location of Immigrant Camp Estimation of Number of Immigrants



Visibility Analysis

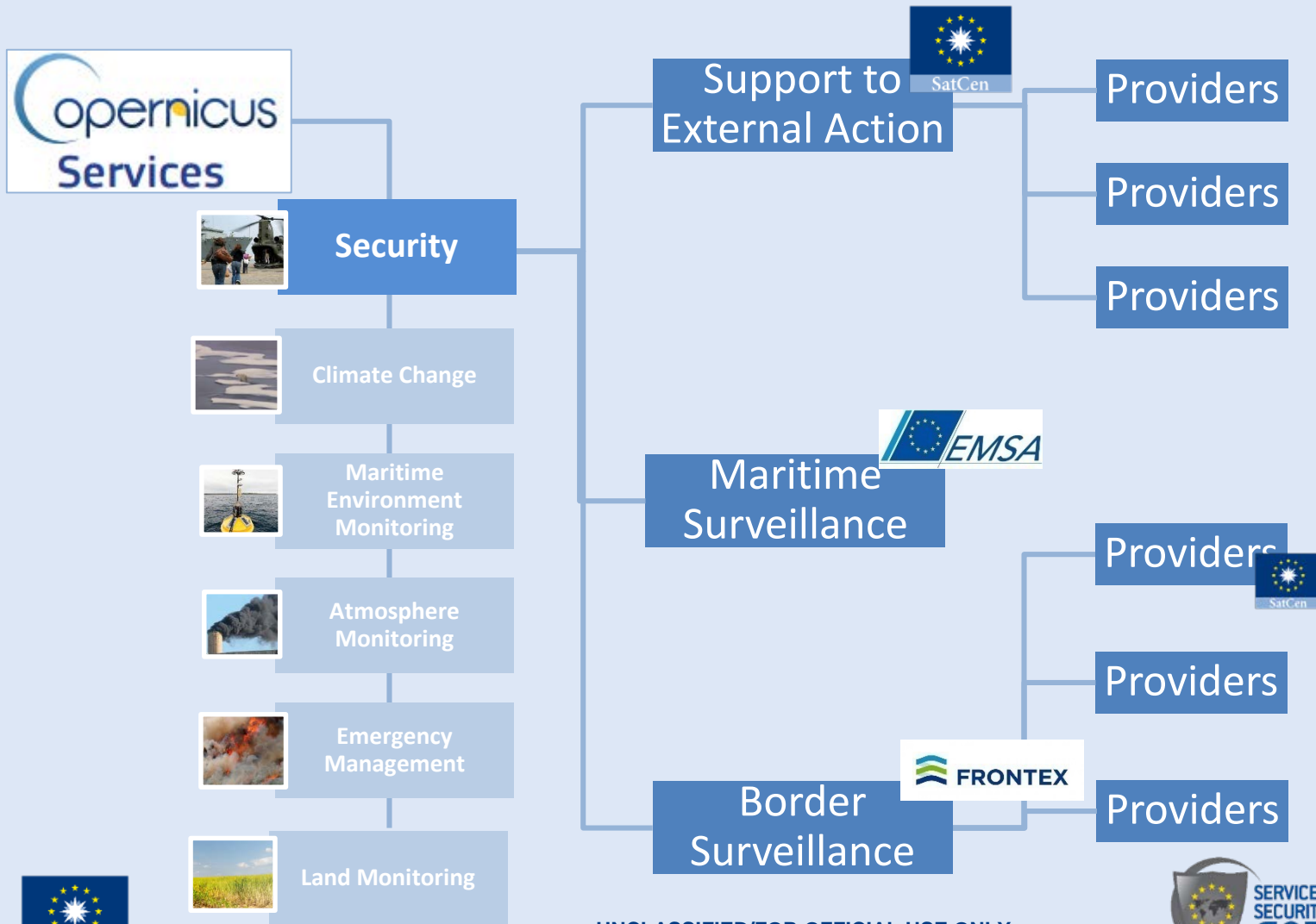


Examples

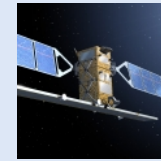
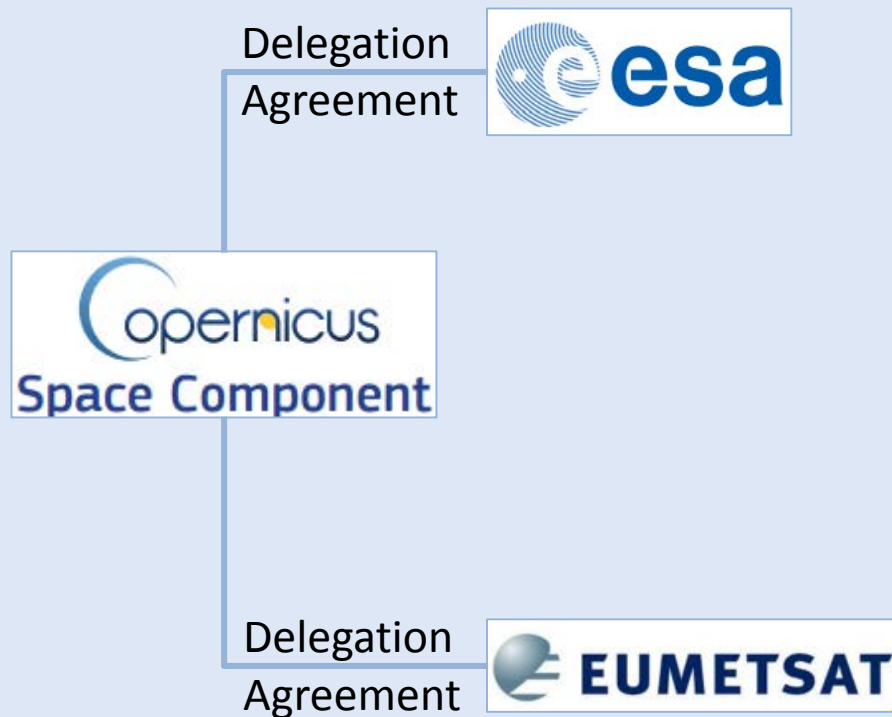
- *Georgian conflict - regional conflict*
- *Somali pirates - failed state, organised crime*
- *Iranian on-going nuclear programme - WMD proliferation*
- *Afghanistan - terrorism and organised crime*
- *Egyptian Arab Spring - regional conflict (revolution)*
- *Libyan uprising - regional conflict*
- *Syrian crisis - regional conflict (on-going civil war)*
- *Ukraine / Crimea - regional conflict*

The Copernicus Programme

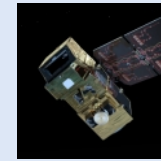
Copernicus is a European system for monitoring the Earth.



Data: Copernicus Space Component



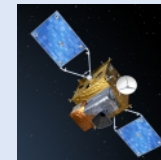
- Sentinel-1**
- SAR (C-Band)
 - Interferometry



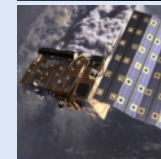
- Sentinel-2**
- Optical MS
 - HR Global coverage



- Sentinel-3**
- Surface Temperature
 - Altimeter



- Sentinel-4**
- Air quality measures
 - Ozone
 - Geostationary



- Sentinel-5**
- Air quality measures
 - Ozone
 - Polar LEO

Contributing Missions

- VHR Optical
- VHR SAR
- Terrain
- Etc...

Security in space

- EU looking for an autonomous capacity in Space Situational Awareness
- Launched a Support Framework for Space Surveillance and Tracking
- Based on MS national capabilities; EU calls for cooperation of MS with SST capacity and requests service delivered through Front Desk (SatCen)

Conclusions

- **Assets – Satellites, User Ground Segments**
- **Data – Earth Observation Imagery**
- **Services – Civilian and military support to decisions**



Strong Dual and multinational nature

- **Clear call for an international legal framework**
- **Possible way ahead for EU assets? Pooling and Sharing?**
- **Achieve European Space Autonomy?**



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