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EUROPEAN UNION
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Analysis for decision making

Addressing the Integrated EO & New Space Revolution at SatCen

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European Union Satellite Centre

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European Union Satellite Centre

- SatCen is the EU Agency supporting the EU in the field of CFSP by analyzing data from space-based assets
- Through its RTDI Unit, SatCen implements new operational solutions looking at the whole EO and collateral data lifecycle



New Data Sources



Secure SatCom



Innovative Tech



EO Applications



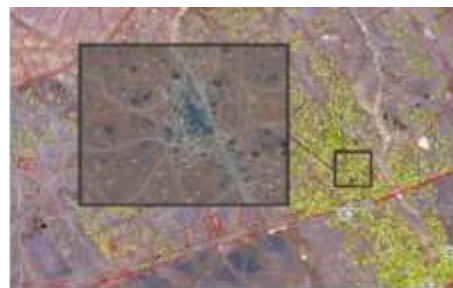
Cooperation

GEOINT products for decision making

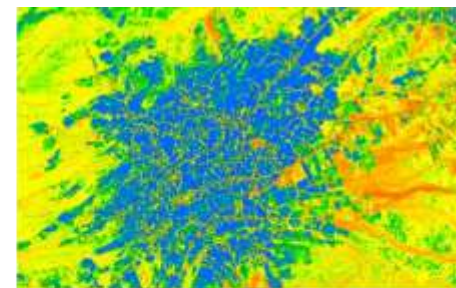
- Earth Observation is a powerful tool to enable informed decision-making
- GEOINT products are key in the Space and Security domain



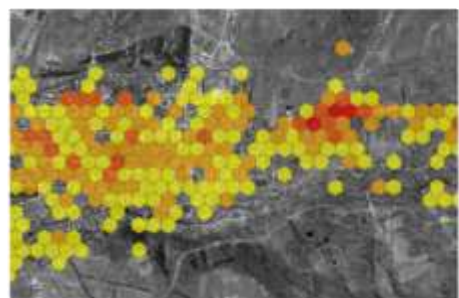
**Contingency
planning**



**Support to
Humanitarian Aid**



**Evaluation of Illegal
Activities**



**Border and Maritime
Surveillance**



Disaster Resilience



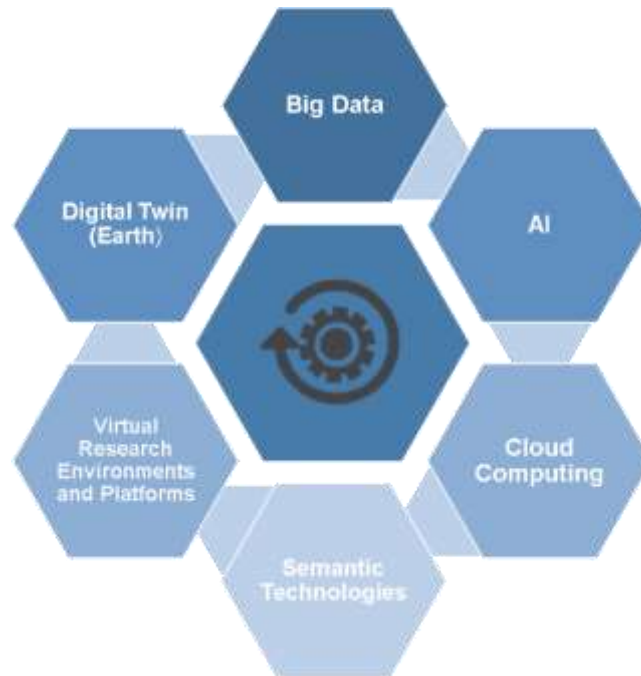
**Monitoring of Critical
Infrastructures**

Challenges of Our Time

It is key to maintain at the state-of-the-art the capacity to take advantage of EO resources and advances in technology to address complex scenarios



DATA



TECHNOLOGY



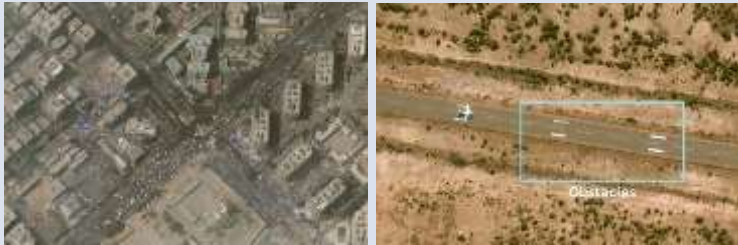
SCENARIOS

EO Integrated approach at SatCen

Data



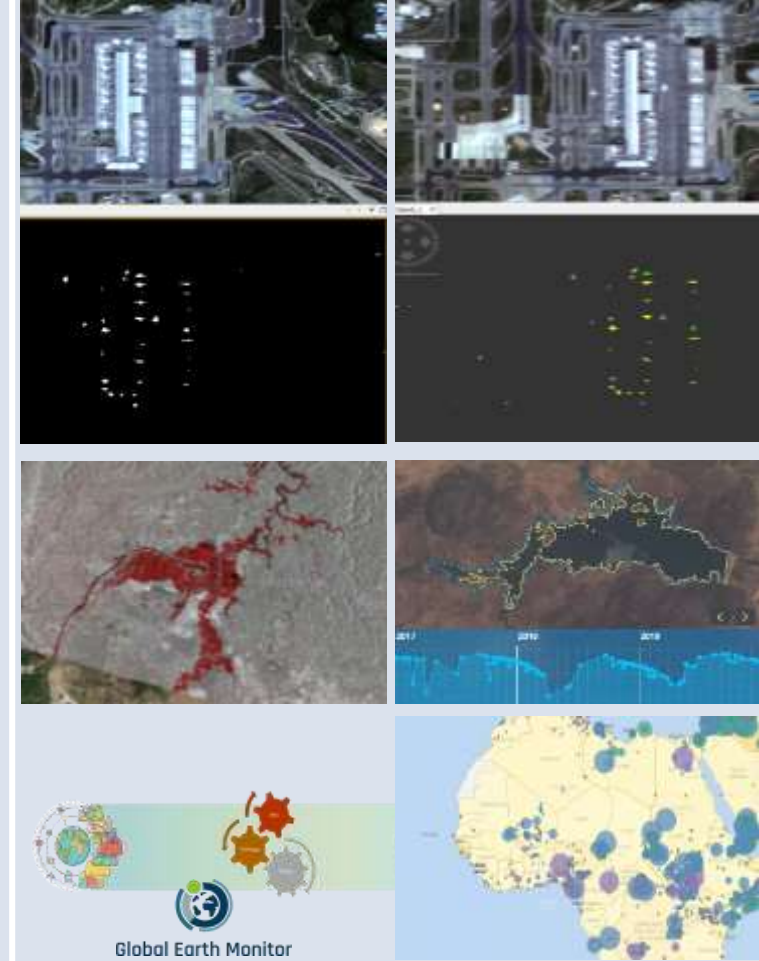
Governmental space sensors accessible to SatCen, from left to right: HELIOS, SAR-Lupe, COSMO-SkyMed and PAZ © ESA



Technology

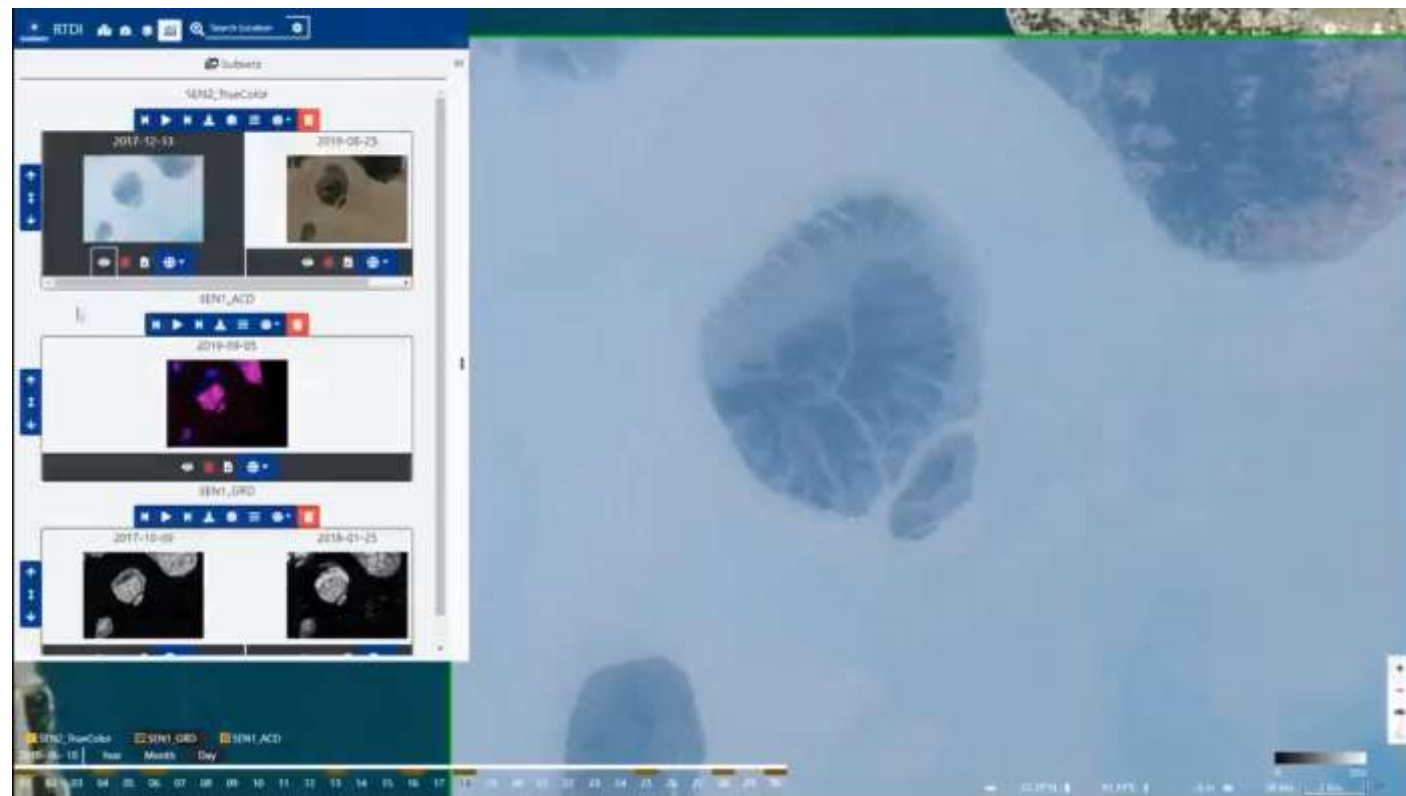


Scenarios



A holistic approach to Security: GEO-DAMP

- GEO-DAMP constitutes an advanced environment where EO users and application developers can interact for continuously enhancing capabilities in the Space and Security domain
- It has demonstrated the vast potential of working in a platform-based approach



Share Knowledge

Access Heterogeneous Data

Evaluate Innovative Technologies

Develop New Algorithms

Sustain R&I Outcomes

Demonstrate Results

Deploy Services

Looking to the Future

- Market evolves as well as stakeholders needs
- Advances in technology need to be assessed
- Proof-of-concepts are necessary before ops

R&I



**Operational
tools**

- Different R&I initiatives in the EO domain
- Work constructively and cooperatively
- Achieve outstanding solutions

Cooperation



**Holistic
solutions**

Conclusions

1

The revolution favored by New Space requires facing new challenges in the GEOINT domain to exploit resources efficiently

2

The wide range of new data and technologies is suggesting to move towards a holistic approach to address global issues with a more integrated perspective

3

This change of paradigm requires thorough assessment of available data and technologies, implementing proof-of-concepts and intermediate solutions

4

R&I and Cooperation are essential tools to make possible the evolution of GEOINT services towards an ambitious comprehensive approach

Thank you!



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