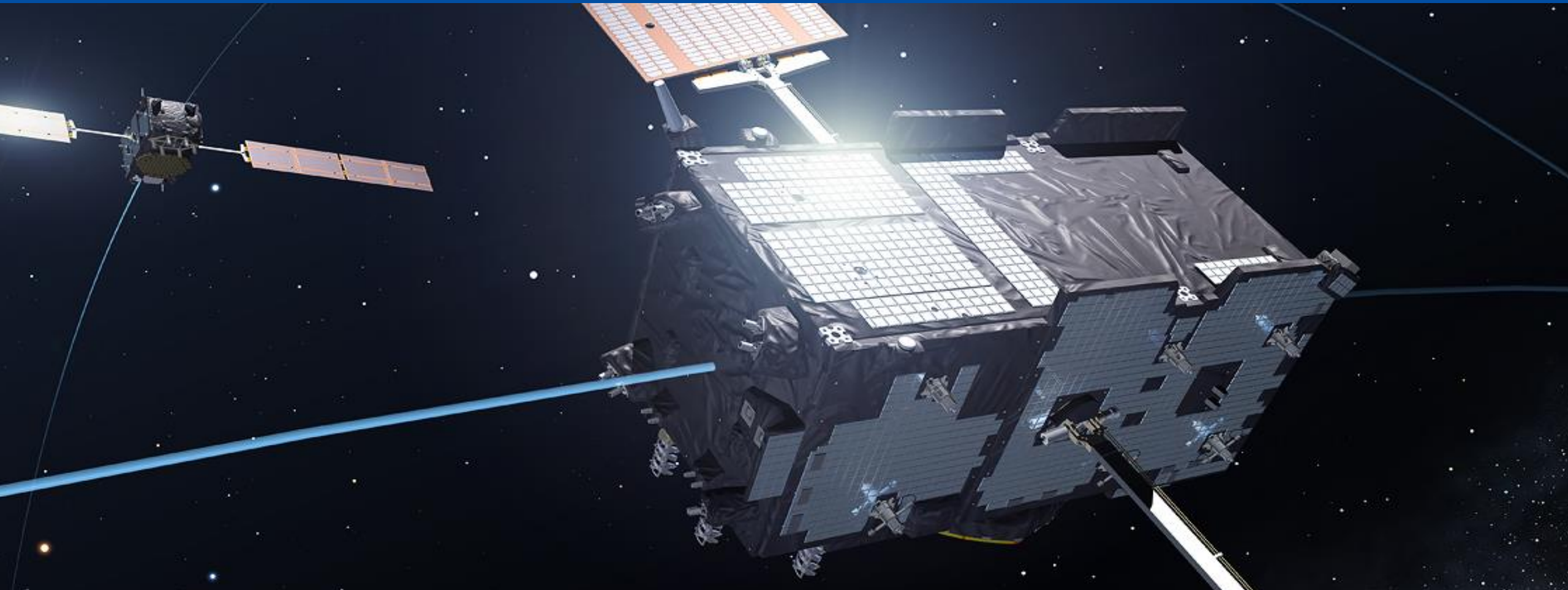


UN COPUOS Legal Subcommittee

Space Traffic Management – the EU Perspective

62nd Session, 21 March 2023, Vienna

Rodolphe Muñoz, **European Commission**
Regina Peldszus, **European External Action Service**



Aims of the Joint Communication on STM (2022)

- **EU Approach to STM (2022):** Joint Communication by Commission and High Representative
- **Establish** an EU Approach for Space Traffic Management
- **Develop** an EU contribution addressing a global challenge

Principles of the EU Approach to STM

- **Transparent**
- **No competition with other STM systems**
- **Collaborative and inclusive**
- **Use governmental and industry capabilities**
- **Elaborate a system fitting within a future more global system**

Comprehensive approach through 4 pillars



STM Requirements & Impacts

Establishing STM requirements for stakeholders at EU level including for spacecraft operators.



EU Operational Capabilities

Enhancing operational capabilities to monitor objects in space and prevent collisions, including through involvement of industry.



Regulatory Aspects

Monitoring and developing the regulatory side of STM including international and national standards and guidelines.



International Engagement

Engaging internationally on bilateral and multilateral level in view of regional contributions towards a global effort.

Operational Capabilities: EU SST

- **Collision Avoidance**

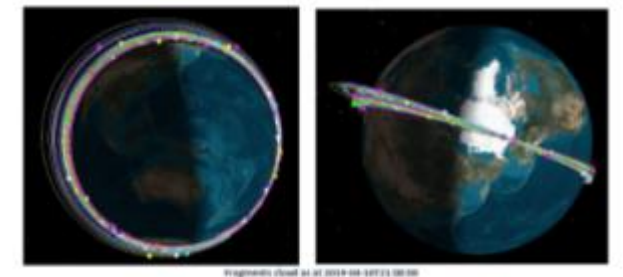
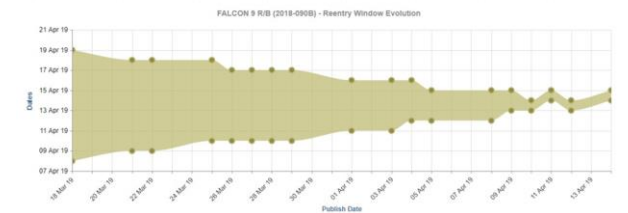
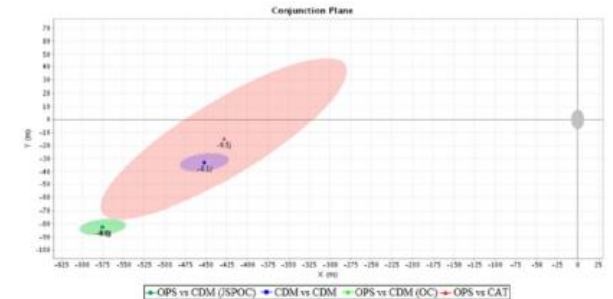
It provides the **risk assessment of collision** between spacecraft or between spacecraft and space debris and the generation of collision avoidance products.

- **Re-entry Analysis**

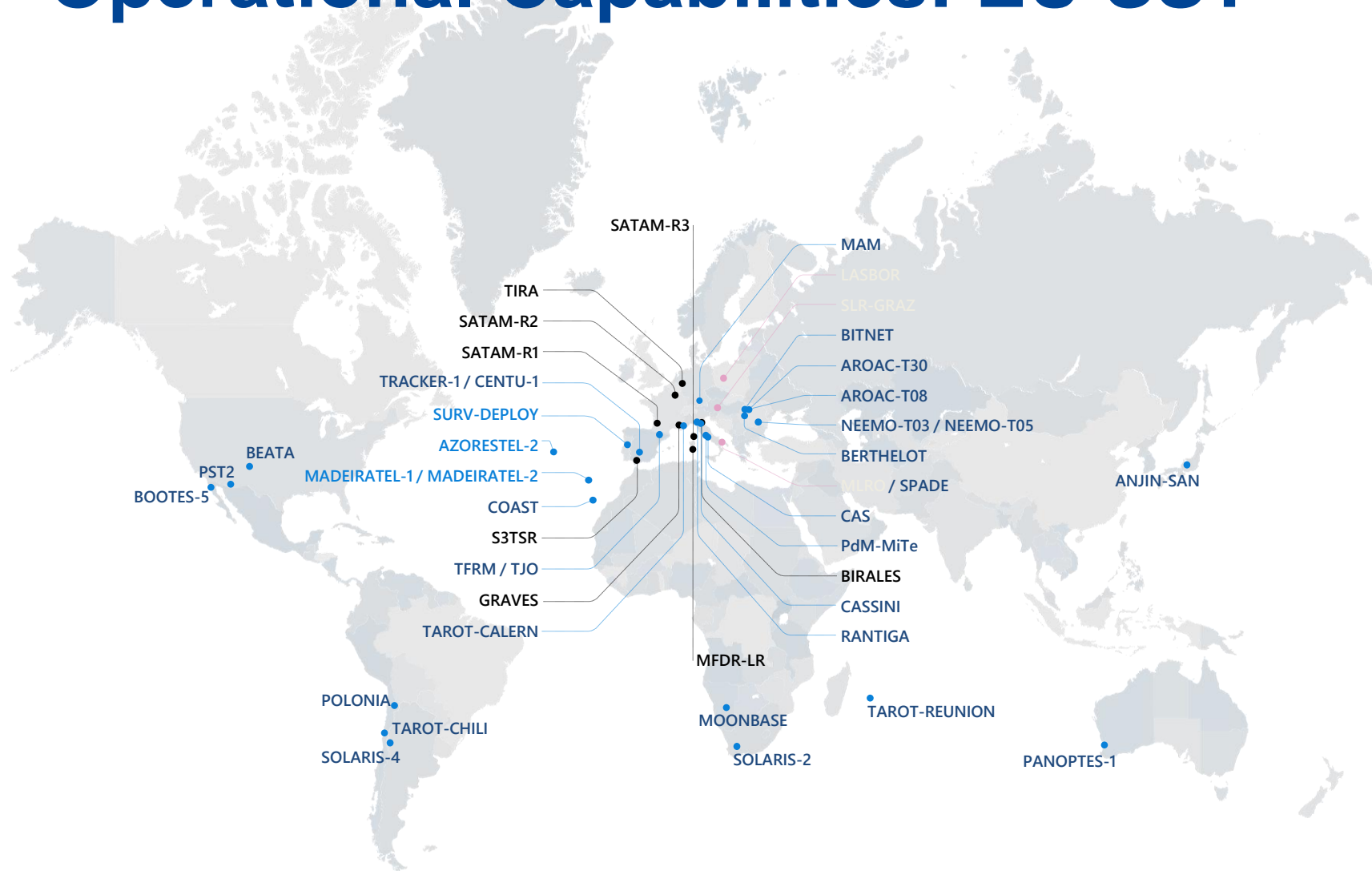
It provides the **risk assessment of the uncontrolled re-entry of man-made space objects** and space debris into the Earth's atmosphere and the generation of related information.

- **Fragmentation Analysis**

It provides the **detection and characterization of in-orbit fragmentations**, break-ups or collisions;



Operational Capabilities: EU SST



EU SST Sensor Network

- 3 Lasers
- 8 Radars
(2 surveillance, 6 tracking)
- 33 Telescopes
(17 surveillance, 16 tracking)

International Engagement

Regional Contributions to a Global Effort

“The EU STM approach aims to **contribute to a global endeavour**, pairing **existing regional capabilities** and tools with an overall **ambition for global cooperation...**”



International Engagement

UN – engage on STM in relevant fora, engage with UN bodies and technical agencies in view of STM solutions at global level, explore EU participation in relevant UN treaties;

US – close cooperation, exchange on respective approaches to STM, engage to ensure mutual interoperability, and complementarity on STM

Third States – engage on STM, operational safety, sustainability, and security of orbital environment, encourage interest in EU services available to global community



International Engagement

Forging **partnerships** and sharing the STM burden through **complementary capabilities and norms**

Together contribute to the global effort of **sustaining space services and applications** in the coming decades



Thank You

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