UN COPUOS Legal Subcommittee
Space Traffic Management – the EU Perspective
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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)
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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