



**INTERNATIONAL  
ASTRONAUTICAL  
FEDERATION**

# Space Traffic Management

## The IAF initiative

### Status of Working Group #1

Terminology - Common understanding and Definitions

**Dr. Mark A. Skinner**

Special Session

Wednesday 27 October 2021

## WG#1:

Name	First name	Country
Alonso	Inés	Spain
Anilkumar	A. K.	India
Francillout	Laurent	France
Grattan	Kyran	United Kingdom
Lacroix	André	Germany
Munoz	Rodolphe	Belgium
Oltrogge	Daniel L	USA
Quan *	Haofang	China
Rovetto	Robert	USA
Skinner *	Mark	USA
Strah	Maruska	Slovenia
Usovik	Igor	Russia
Vellutini	Elena	Italy

## Membership

- Held 6 working group meetings virtually December-April
- The group reached consensus on a number of important STM-related terms
- Delivered final draft to TC26 leads for harmonization and inclusion in final product
- A derivative of the draft was presented at the October 2021 IAASS conference: Oltrogge, Shrah, Skinner, et. al,

*RECOMMENDATIONS OF THE IAF SPACE TRAFFIC MANAGEMENT  
TERMINOLOGY WORKING GROUP.*

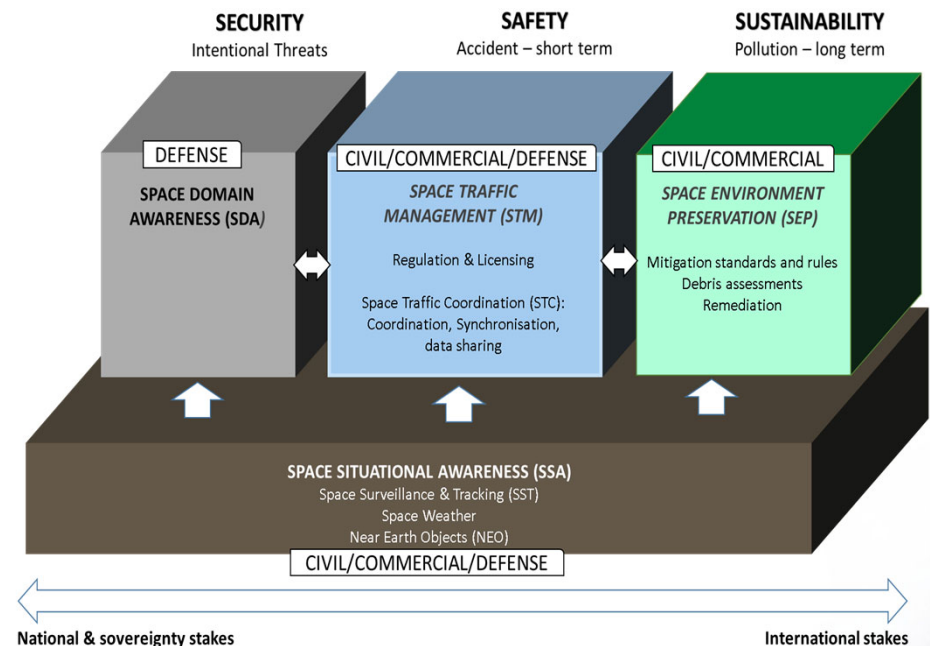
The IAF STM Terminology Working Group selected definitions for STM-relevant terms. It is hoped that sharing these definitions with others may foster consensus and encourage the use of these terms and definitions in international guidelines, standards, and agreements. The terms we defined are fundamental and specific but not exhaustive.

\*Co-chairs of WG1

*Connecting @ll Space People*

# Output of WG1

- WG1 recognized that STM terminology is not universally harmonized today.
- WG1 summarized the significance of effective STM, presented the causes of the variance in terminology, and highlighted the challenges to reaching consensus.
- WG1 explored the relationships between **Security, Safety, and Sustainability**.
  - **Security** issues primarily fall under **SDA**
  - **Safety** issues primarily fall under **STM**
  - **Sustainability** issues primarily fall under **SEP**
- As shown in the figure, these areas are inter-related.



*Relationships between STM, SSA, SDA, and SEP, which taken together constitute the space operations assurance enterprise.*