WHAT IS THE HANDBOOK FOR NEW ACTORS IN SPACE?

As space participation broadens:

**Societal Benefits Increase**
- Increased innovation
- Growth in applications and services
- Lowering of costs

**Challenges are Exacerbated**
- Frequency interference
- Orbital debris
- On-orbit crowding
- Regulatory efficiency

In order to help maximize benefits and reduce challenges the Handbook offers:

- An overview of fundamental principles, norms, and best practices for safe and responsible operations in space
- Provision of only useful information, and concrete facts rather than prescriptive or aspirational views
- Linked information across business, legal, policy and technical domains
- Concrete examples of how existing actors have approached issues

The goal of the Handbook is to assist new actors in space to continue to derive the many benefits space activities have to offer for the foreseeable future.

**TOPICS COVERED BY THE HANDBOOK**

1. International Framework for Space Activities
2. National Policy, Legal and Administrative Frameworks

**Example: Debris Mitigation Guidelines, Regulations, & Practices**

Consensus-Built Guidelines Established
- Conceived through the United Nations
- Endorsed through International Industry Standards and National Policies
- Practiced by Satellite Operators

**Example: Conjunction Assessment and Collision Avoidance**

JSpOC Conjunction Warnings
- Satellite Operator Risk Assessment
- Avoidance Maneuver Planning

**SPACE REGIME IS UNDERGOING MASSIVE CHANGE**

Diversification of actors and democratization of space community

Number of Satellites Launched Annually 1957-2014

Example: Number of Satellites Launched

States Operating Satellites as of January 2015

Number of Satellites Launched

More than 70 States, commercial companies, and international organizations currently operate over 1,200 satellites in Earth orbit

**Example: Debris Mitigation Guidelines, Regulations, & Practices**

- Defined international guidelines
- Global policies
- National policies
- Satellite operator practices
- Concretely adopted into ISO Standard 24113

**Example: Conjunction Assessment and Collision Avoidance**

JSpOC Conjunction Warnings
- Satellite Operator Risk Assessment
- Avoidance Maneuver Planning

Source: Claude Lafleur—The Spacecraft Encyclopedia

Number of Satellites Launched 2000-2014

Shared information across business, legal, policy and technical domains

Concrete examples of how existing actors have approached issues

**SHARED SPACE BENEFITS INCREASE**

- Increased innovation
- Growth in applications and services
- Lowering of costs

**HOW CAN THE SMALLSAT COMMUNITY CONTRIBUTE?**

**SWF is developing the Handbook in an interactive manner with the space community.** By contributing your experiences you will help to ensure that all perspectives are represented.

**Share Your Experience**
- Best Practices
- Lessons Learned
- Issues and Resources Encountered

**Provide Feedback**
- Suggest overlooked content
- Identify areas of improvement

Find out more by visiting our website: www.swfound.org

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