



Promoting Cooperative Solutions for Space Sustainability

Space Stability and International Cooperation

Victoria Samson, Washington Office Director,
Secure World Foundation

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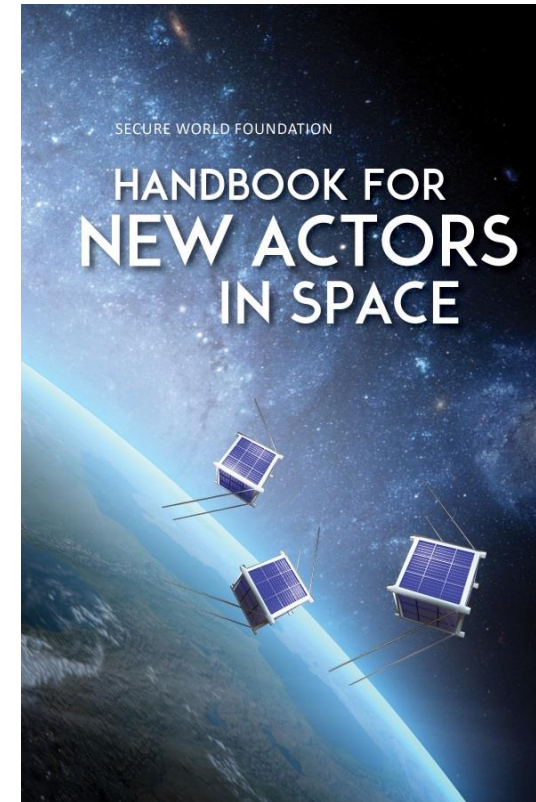
- Changing nature of the space domain
- Changing discussion of what resiliency means for space assets
- International approaches to space stability and cooperation
- Possible ways forward

Importance to Space Sustainability

- Increasing number of and diversity in *new actors*, concurrent with increasing *importance of space* in daily activities globally
- Stability rests upon *reliable and predictable access to space*
- *Lack of clarity* of the cause when satellite capabilities disappear

SWF Handbook for New Actors in Space

- **Goal:** Create a publication that provides an overview fundamental principles, laws, norms, and best practices for safe, predictable, and responsible activities in space
- **Two specific audiences:**
 - Countries developing space programs and/or having to oversee and regulate their first satellites
 - Universities and start-up companies that are developing/operating satellites



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- **Over 16,000 satellites** planned to be launched over the next 10 years
- Huge **space traffic management** concern
- **Frequency allocations** will be challenging
- Are current standards of **end-of-life operations** sufficient?

- ***Space resource utilization***
 - Hague Space Resources Working Group
 - Concerns about some nations being left behind
- ***Rendez-vous and proximity operations***
 - Dual-use nature can make intent murky
- Active debris removal
 - ***Same issue with dual-use***

- ***Interference*** – even theoretical - with space assets perceived to be ***a huge disrupter***
 - Space is a crucial part of national security infrastructure, economies, and daily lives
- ***Heavy emphasis on resiliency of space assets***
 - Not just military/government owners/operators worried about this – commercial sector getting involved in these discussions
 - Distribution, diversification, disaggregation, proliferation, protection, and deception
 - Changing attitude toward space protection

International approaches to space security

- *International diplomatic community uncertain about how to proceed* on space stability issues
 - Traditional venues proven ineffective
 - Too state-centric
 - Move toward strengthening norms of responsible behavior, although not without some controversy
- UN Committee on Peaceful Uses of Outer Space's Long-Term Sustainability Guidelines

- ***Strong focus on norms*** and the important role that they play
- Use ***space situational awareness to improve transparency***
- ***Importance of bilateral, multilateral, and international cooperation***



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Contact Information

Questions?

Thanks.

vsamson@swfound.org

1.202.568.6213