



*Promoting Cooperative Solutions for Space Sustainability*

# **SPACE TECHNOLOGY AND NATIONAL SECURITY**

Victoria Samson  
Washington Office Director  
Secure World Foundation

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# Changing Nature of the Space Domain

- Shift in how we approach space affects possibilities for space and security
- Goal: ***stable, predictable space environment***
  - Will allow us to enjoy continued benefits from use of and access to space
  - Relationship of national security to space technology
  - Role of commercial entities



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# Threats to Space Security and Stability

- Space weather
- Space debris
- Radio frequency interference
- Anti-satellite weapons (ASATs)

# Dual-Use Space Technologies

- Space technologies can be *dual-use*
  - *Intent, not hardware*, going to be key
  - How do you *demonstrate responsible*, non-threatening use of space?
  - Even more relevant for next generation issues like active debris removal or rendezvous and proximity operations
- International *cooperation can clarify* intent
  - *Norms of behavior* can help

- Four main treaties
- 2008 Proposed Treaty on the Prevention of Placement of Weapons in Outer Space, the Threat or Use of Force Against Outer Space Objects (**PPWT**)
- Deadlocked UN Conference on Disarmament (**CD**)
- UN Committee on Peaceful Uses of Outer Space (**COPUOS**)
- UN **Group of Government Experts** on Space TCBMs
- International **Draft Code of Conduct** for Outer Space Activities



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# Other Signals for Space Technology Intent

- Written or publicly discussed *national space policy*
- *Participation in international dialogue* on responsible space behavior
- Improving *space situational awareness (SSA)*

# Space as Soft Power Outreach

- A good route for *establishing relationships* which prove useful for *national security priorities*
- Case study: *China*



# Roadblocks to Space Technology Cooperation

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- Different values
- Data-sharing issues
- Political concerns
- Lack of reciprocity
- Export controls
- Overall: the *space domain has changed*, so how we approach *space technologies and national security must evolve* with it.





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# Contact Information

**Questions?**

**Thanks!**

**[vsamson@swfound.org](mailto:vsamson@swfound.org)**

**1.202.568.6213**