



Promoting Cooperative Solutions for Space Sustainability

# SPACE SECURITY: MITIGATING RISKS

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and New Dimension of Security*

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- Changing nature of the space domain
- Changing discussion of what resiliency means for space assets
- International approaches to space security and stability
- Interconnections between space, nuclear, and cyber security
- Possible ways forward

# 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
  - Increasingly important role of commercial entities
  - See more actors joining in different ways – smallsats

# Changing discussion of resiliency

- ***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
- ***U.S. national security community focused on resiliency of space assets***
  - Space Domain Mission Assurance white paper released Sept. 2015
  - 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 security issues
  - Traditional venues proven ineffective
  - Move toward strengthening norms of responsible behavior
- UN Committee on Peaceful Uses of Outer Space' Long-Term Sustainability Guidelines
- UN Group of Governmental Experts' recommendations for space transparency and confidence-building
- Draft International Code of Conduct

- ***Space is interwoven with other security issues***
  - Role of satellites as national technical means still very important
  - Space used for military communications and remote sensing
- ***Space differs from other domains*** in that its practitioners have not examined the policy and legal aspects of determining legal requirements under international humanitarian law

# Possible ways forward

- ***Strong focus on norms*** and the important role that they play
- ***Self-defense in*** space in international discussions on space and security
- Using ***space situational awareness to improve transparency***



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**Questions?**

**Thanks.**

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