SPACE SECURITY: MITIGATING RISKS

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Overview

• 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 enjoyed 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
Interconnections

• **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*
Questions?

Thanks.

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