United Nations Committee on the Peaceful Uses of Outer Space
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INTRODUCTION

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The Space Security Index

- Annual assessment of the status of space security, since 2004
- Provides objective and fact-based analysis to promote transparency and confidence in space activities
- Summarizes major trends in space security
- Supports the development of policy to ensure secure access to space for all States
Defining Space Security

- The secure and sustainable use of space
- Freedom from space-based threats

SSI Methodology

- Yearly research on trends and developments
- Online consultation
- Expert review of research and analysis
Space Security Indicators

1. The Space Environment
2. Laws, Policies, and Doctrines
3. Civil Space Programs and Global Utilities
4. Commercial Space
5. Space Support for Terrestrial Military Operations
6. Space Systems Protection
7. Space Systems Negation
8. Space-Based Strike Systems
Critical challenges to space security:

• *Operating environment* challenged by debris, crowding in key orbits and limited monitoring

• Proliferation of *technologies* that could threaten secure and sustainable access to space

• Growing number and diversity of *actors* in space
Space debris is an indiscriminate threat to all space actors.
Limited ability to *monitor* the space environment

- Limited capabilities to see into space and follow objects
- Limited international cooperation on space situational awareness
- Limited transparency of space activities
Proliferation of space technologies

Proliferation of technologies that could threaten secure and sustainable access to and use of space:

• Ground-based technologies
• Space-based technologies
• Space-to-Earth enabling technologies
Access to outer space is growing

New space actors emerging

Greater demands on space resources

More actors gaining a variety of independent space technologies

But: new actors and increased awareness of the need present new opportunities for space governance
Space Security Index Partners

Project Ploughshares—Jessica West, project director and editor

• McGill Institute of Air and Space Law, McGill University
• Secure World Foundation
• Simons Center for Disarmament and Non-Proliferation
• Space Generation Foundation
• Department of Foreign Affairs and International Trade, Canada
• Ploughshares Fund
Download the report at—

http: //www.spacesecurity.org