SUSTAINABLE DEVELOPMENT IN AND THROUGH SPACE

Governance, Financing, and Education Issues

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About Space Initiatives

- A bipartisan, nonprofit organization headquartered in Washington, DC, CSIS conducts research and analysis and develops policy initiatives that look into the future and anticipate change.
- Space activity is at the heart of the national and international security and foreign policy issues that CSIS covers.
- Space Initiatives was started in 2004 to address global space policy issues and opportunities. It is part of the Global Challenges research focus at CSIS.
Sustainable Development Through Space

- International security
  - Cooperation between countries
  - Mutual understanding
  - Building trust

- Innovation
  - Modern habitat
  - Energy generation and management
  - Environmental controls

- Inspiration
  - A timeless global dream
Sustainable Development In Space

- Secure and expand human sphere of influence in space
  - Increased number of players
  - Increased number of operational systems
  - Pushing the frontier

- Requires better multilateral coordination
  - For example, a code of conduct
  - A governance issue

- Sustain and grow space activity
  - Financing mechanisms
  - Workforce
  - Public support
Space Initiatives at CSIS

We examine these issues of sustainability three ways

- **Governance**
  - Do we need a governance structure for exploration?
  - How do you address issues like interoperability, redundancy, and standardization?
  - Global Space Development Summit

- **Finance**
  - Promoting PPPs, industrial cooperation

- **Public Support – through Education**
  - Across borders, across generations
  - Portal for space education resources with IAF, UNESCO
  - University Initiative to build ties between the Program Managers of tomorrow
Global Space Development Summit

- First Global Space Development Summit was held in Beijing in April 2008 in cooperation with the Chinese Society for Astronautics.
- Attended by representatives from 15 countries, including leaders of the aerospace industry and space agencies, academia, representatives from non-profit and international organizations, US congressmen, and diplomats.
  - International organizations included AAS, AIAA, ESPI, IAA, IAF, OECD, Secure World Foundation, Space Foundation, WTO.
- Participants in the first summit agreed that two topics were ripe for global cooperation and issued a joint statement called the Beijing Declaration.
Beijing Declaration

- Space, as well as being “a major economic force,” is a powerful foreign policy tool that has the potential to enhance national and international security

- Two areas are ideal for international cooperation
  - Earth Observation [GEO]
  - Exploration [International Lunar Base]
2nd Global Space Development Summit

- Second summit to be held in Washington DC, November 12-13, 2009, co-organized by CSIS, AIAA, Space Foundation, and Chinese Society for Astronautics.
- On November 12th, questions of space exploration governance will be discussed, with a particular emphasis on the international lunar base project recommended in the Beijing Declaration.
- On the 13th, the Symposium on Earth Observation will examine the importance of Earth observations to a variety of national and international issues and discuss the current state of cooperation, particularly with regard to the development of the Global Earth Observation System of Systems (GEOSS).
- The following week, the United States will be hosting GEO’s Sixth Annual Plenary meeting (GEO-VI) in Washington, which will include representatives from over 75 governments and more than 50 international organizations.
Space Exploration

• Although the International Space Station provides one model of international cooperation in space, nothing like GEO exists as a framework for exploration.

• As we look beyond the International Space Station, an increasing number of nations are developing indigenous human space flight capabilities and ambitious lunar exploration programs.

• The goal of establishing a permanent international outpost on the surface of the moon by the year 2025, provides an opportunity for broad, project-based cooperation.
Earth Observations

• There is a rapidly growing need for a better understanding of the complexities of Earth’s environment.
• A large number of nations have the ability to design, manufacture, and launch earth orbiting satellites.
• The Group on Earth Observations (GEO) provides a framework for beneficial multinational collaboration in space.
Contact us

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