Satellite Industry Interaction with Government to support the Long Term Sustainability of Space

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Overview

- Progression of commercial satellites
- Uses and end benefits of commercial satellites
- Industry actions for safe space operations
- Importance of Long-term Sustainability efforts for commercial space development
- Satellite Industry – Government Relations
Satellite Industry Association: 21 Years as the Voice of the U.S. Satellite Industry

SIA Member Companies
Commercial Satellites: 50+ year legacy

1966

50+ YEARS
Technology
Capability
Applications

Today

Images courtesy: Intelsat, Inmarsat, Boeing, NASA, Digital Globe
Commercial Satellites: Technology Uses

Operational Satellites by Function
(as of July 1, 2016)

As of July 1, 2016, 45% of on-orbit spacecraft are commercially-owned, with diverse purposes:

- Broadband
- Global Communications
- Direct to Home Broadcast Services
- Mobile Communications
- High-resolution Optical Imaging
- RADAR imaging
- Short-wave Infrared Imaging
- Radio-frequency occultation (weather information)
- Timing and Navigation applications

Prepared by: THE TAURI GROUP
Commercial Satellites: End benefits

Global Connectivity
- Connecting under or unserved broadband populations
- Good health and well-being, Increased public safety, Quality Education

Increased Earth Observation
- More precise data analysis and applications
- Enhanced resource monitoring, Better response to disasters

Innovation
- Applications and New Markets
- High skilled jobs, Vibrant tech industry, Economic growth
Industry actions for Safe Space Operations

- System and Operations Redundancy
- Encouraging cybersecurity of satellite systems
- Data sharing (SDA)
  - Precise location of satellites
  - Maneuver notification
  - Minimizing the effects of radio-frequency interference
- End-of-life disposal/ de-orbiting
Satellite Industry Interaction with Government

**Dialogue**
- Formal industry advisory committees
- Govt-Industry Workshops
- Ad hoc interaction

**Partnerships**
- Technology and Standards development
- Joint research
- Government as a customer

**International Input**
- Support to U.S. delegation
  - ITU and Regionally
  - UN COPUOS
- International Development
- Disaster Charter

**Advocacy**
- Predictable and certain regulatory regime
- Efficient licensing processes
- Effective spectrum allocation and usage
- Long-term vision
• Satellite industry committed to conducting responsible space operations

• 50 + year legacy of expertise

• Industry-led initiatives for safe-space operations

• Industry is engaged and involved