



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

**Presented to: UNCOPUOS STSC
February 6th, 2017**

**Charity Weeden
Senior Director of Policy, Satellite Industry Association**

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



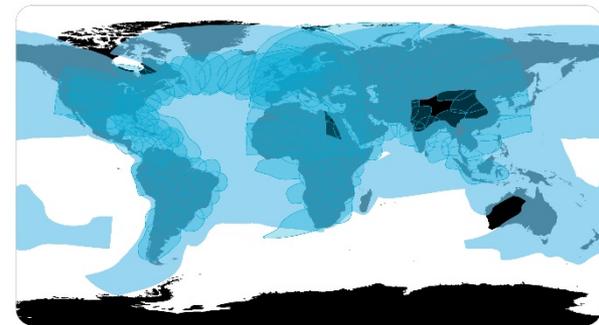
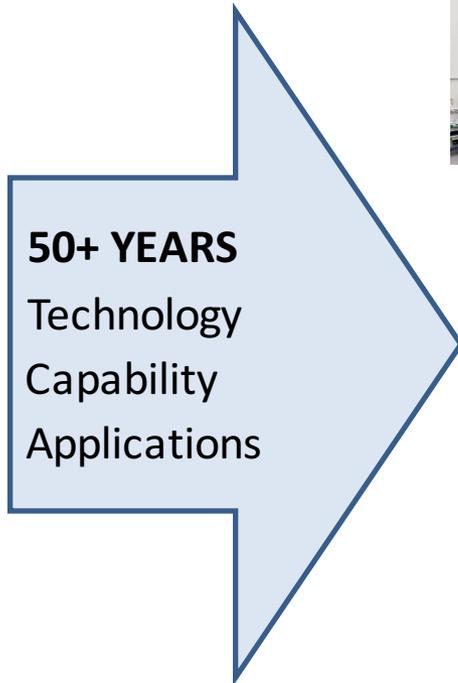
SIA MEMBER COMPANIES



Commercial Satellites: 50+ year legacy



1966

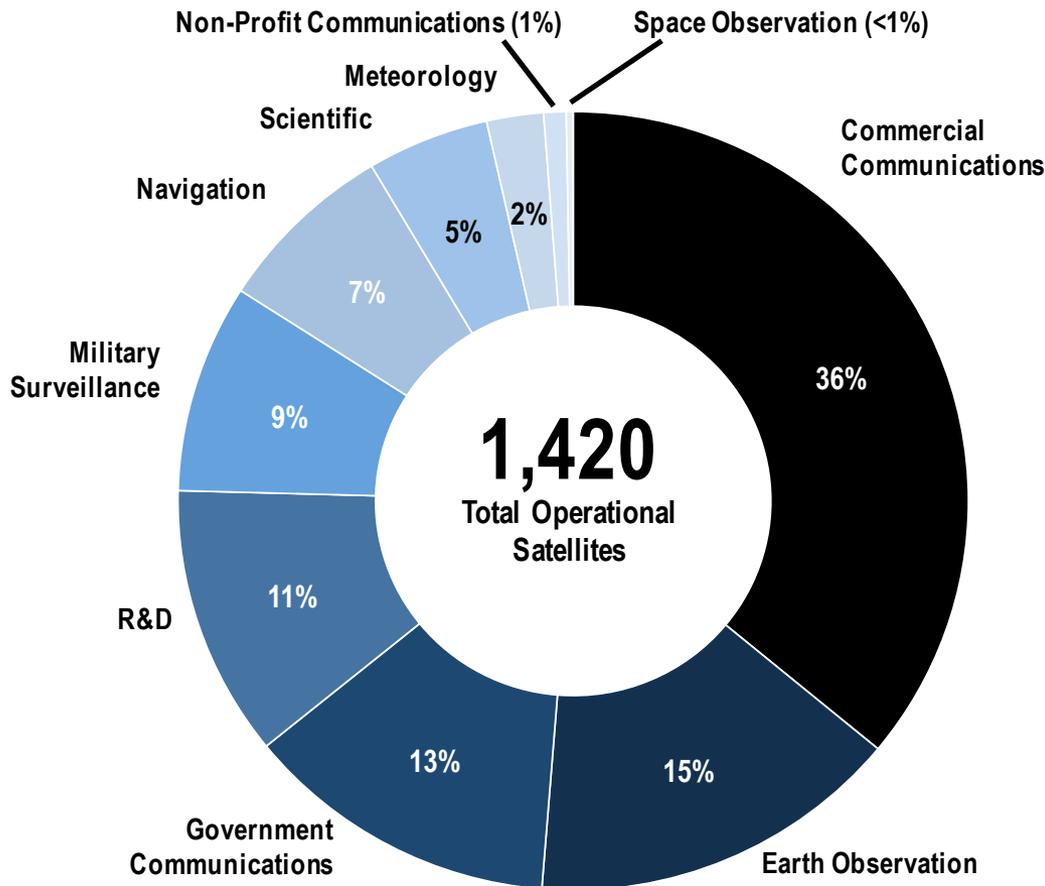


Today

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

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



Satellite Industry Association
1200 18th Street, NW, Suite 1001
Washington, DC 20036
(202) 503-1560
www.sia.org
info@sia.org