



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

**Presented to: UN General Assembly  
Joint Panel Discussion  
of the First and Fourth Committees  
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**Charity Weeden  
Senior Director of Policy, Satellite Industry Association**

# Overview



- Progression of Commercial Satellites
- Uses and End Benefits of Commercial Space Activities
- Industry Actions for Safe Space Operations
- Importance of Long-term Sustainability Efforts for Commercial Space Development
- Satellite Industry – Government Relations

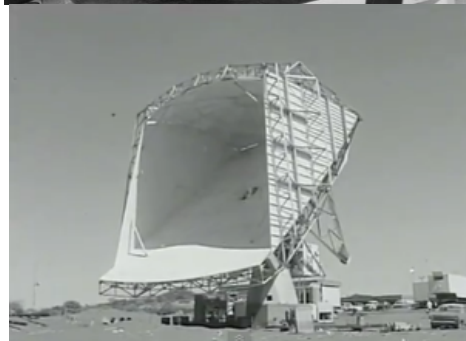
# Satellite Industry Association: 21 Years as the Voice of the U.S. Satellite Industry



## SIA ASSOCIATE AND EXECUTIVE MEMBER COMPANIES

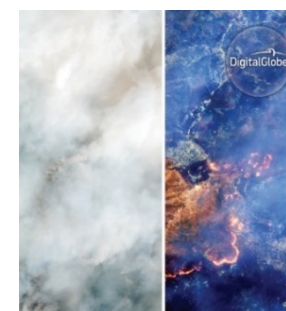
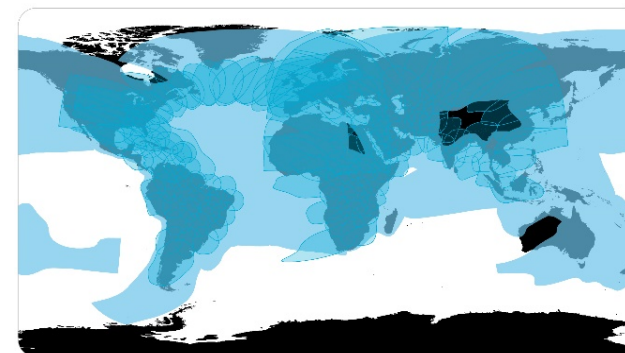


# Commercial Satellites: 52 year legacy



1965

**52 YEARS**  
Technology  
Coverage/Capability  
Applications

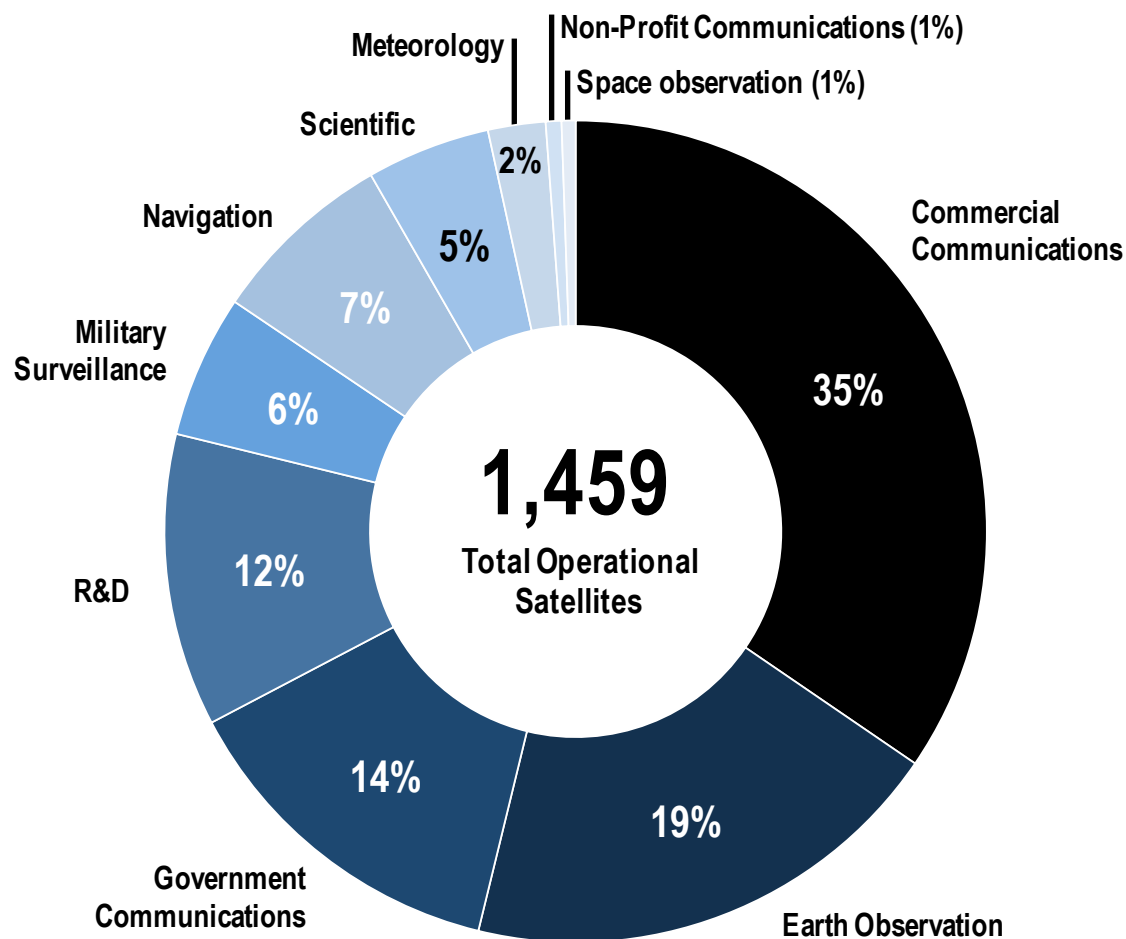


Today

# Commercial Satellites: Technology Uses



## Operational Satellites by Function (as of December 31, 2016)



As of December 31, 2016, 41% 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
  - 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
- Education and Outreach to public

## Advocacy

- Predictable and certain regulatory regime
- Efficient licensing processes
- Effective spectrum allocation and usage
- Long-term vision

## International Input

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



- Satellite industry committed to conducting responsible space operations
- 50 + year legacy of expertise
- Current actions 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](http://www.sia.org)  
[info@sia.org](mailto:info@sia.org)