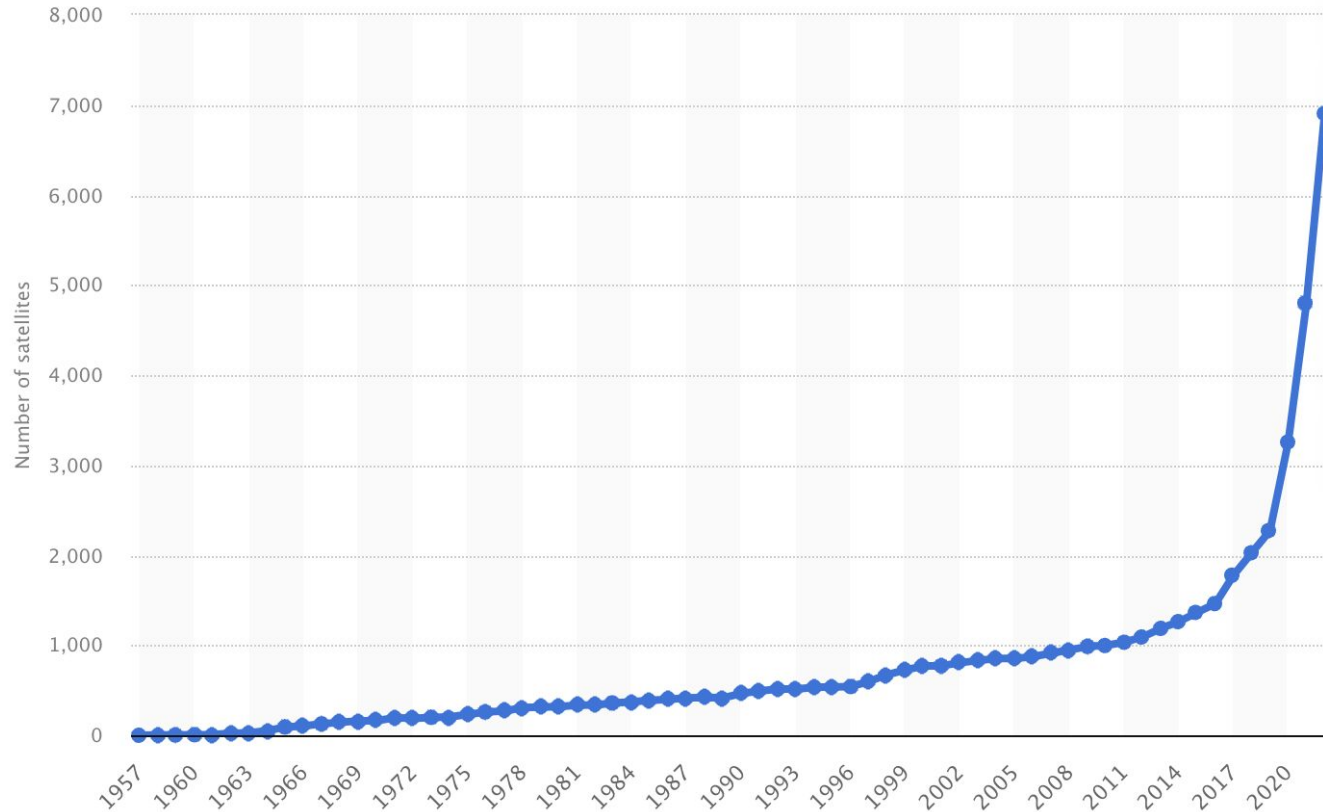




Connecting Humanity Through Space™

Ryan Clulo
rclulo@atlasspace.com

The Number of Satellites is Expanding



(as of 2023)



Network Capacity is Stretched



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Civil

NASA Deep Space Network reaches "critical point" as demand grows

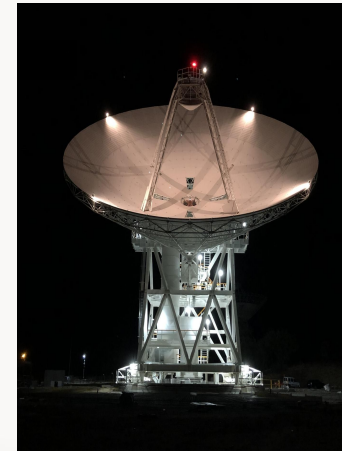
Jeff Foust August 29, 2023



Officials warned of growing strain on the Deep Space Network as demand grows but budgets decline. Credit: NASA/JPL-Caltech

WASHINGTON — Increasing demand but decreasing budgets are putting a strain on NASA's Deep Space Network (DSN), threatening its ability to provide communications for the agency's science missions and Artemis lunar expeditions.

While pressures on the DSN, a system of antennas located in Australia, California and Spain used primarily for communications with spacecraft beyond Earth orbit, have been growing for years, the Artemis 1 mission and the demands it placed on the network laid bare the challenges NASA will face in the future, officials warned.



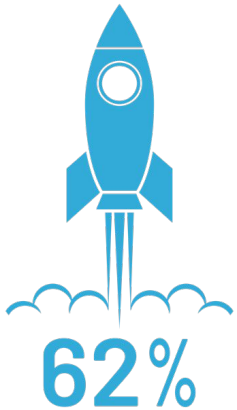
<https://spacenews.com/nasa-deep-space-network-reaches-critical-point-as-demand-grows/>

Existing Networks



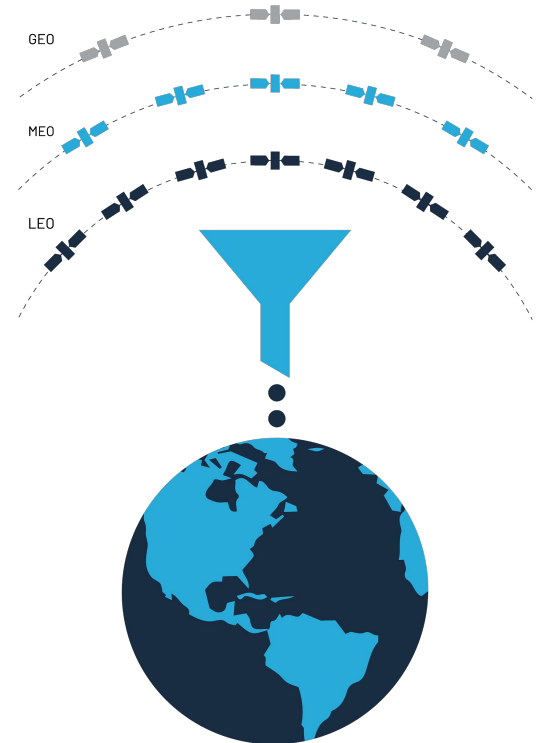
30+ Years with no developmental advancement in ground segment technology

- Contain outdated, legacy hardware
- Have limited bandwidth & scalability
- Lack software & automation
- Prone to failure
- Require human operators



Reduction in Launch Costs
leading to booming growth in
launch and spacecraft segments

**Legacy Operating Model
Creates a Data Bottleneck**



What We Do

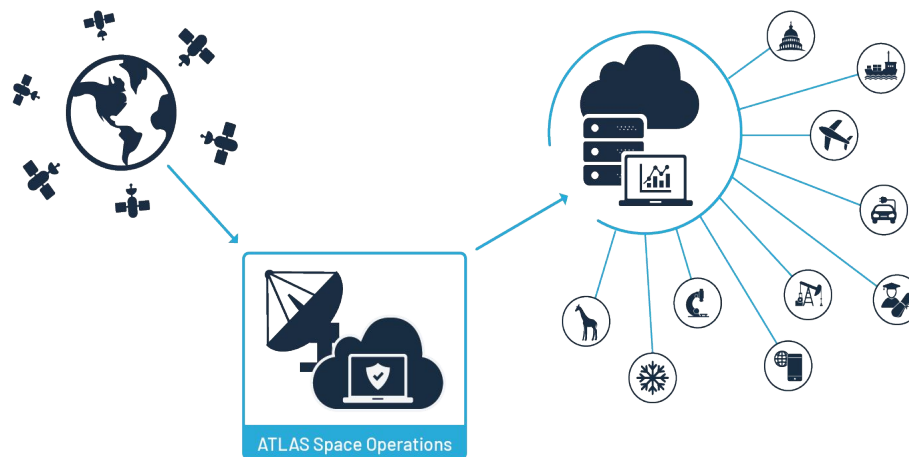


→ ATLAS provides ground communication services enabling Global Access to Real-time Data from Space through:

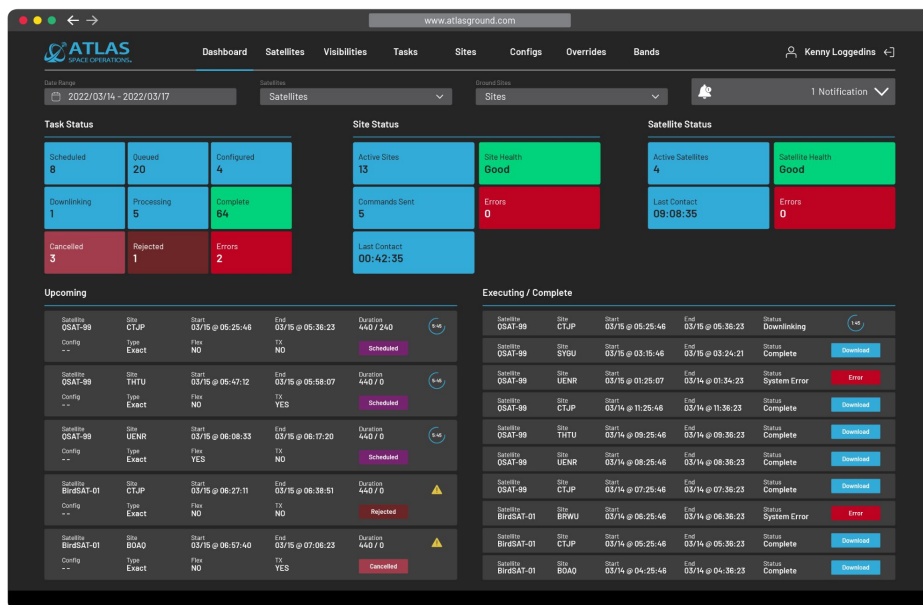
- ◆ Ground Software as a Service™ (GSaaS)
- ◆ Worldwide infrastructure connecting the planet
- ◆ Delivering more data... faster and cheaper

Ground Communications segment is the conduit for the entire space industry.

Providing global markets access to communications resources and real-time space data



Our Solution: Freedom™ Software Platform



Freedom™

- Cloud Based Software & API
- Interconnected Global Network

Features

- Secure, Automated & Scalable API
- Real Time Data Streaming
- Unified Web Interface
- Mission Integration Tools with Step-by-Step Onboarding
- Mixed Modem Capabilities
- Flex Scheduling and Forecasting
- Metrics & Data Insights

Benefits

- Unfettered Access to Data
- Speed of Integration
- Mission Success
- Resource & Cost Efficiencies

Our Solution: Global Antenna Network



World's first global network of cloud-integrated sat-antennas



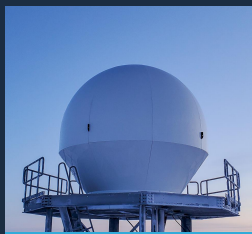
Low Latency: Satellite is always in site of an antenna - creating real-time, continuous communications capability



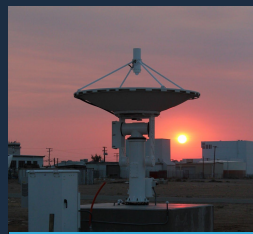
Downlink Capacity:
≥ 300 Mbps up to 1 Gbps



ATLAS Sites Around the Globe



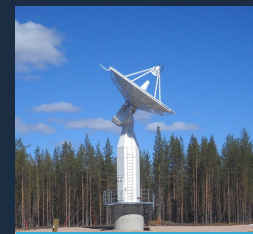
Utqiagvik, AK



Mojave, CA



Chitose, Japan



Sodankylä, Finland



Sunyani, Ghana



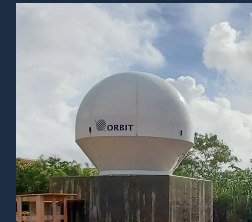
French Polynesia, Tahiti



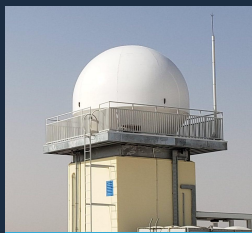
Brewster, WA



Miami, FL



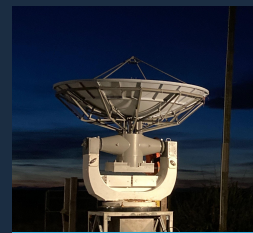
Harmon, Guam



Dubai, UAE



Dundee, Scotland



Awarua, New Zealand



Mingenew, Australia

Who We Serve - Our Client's Mission Segments



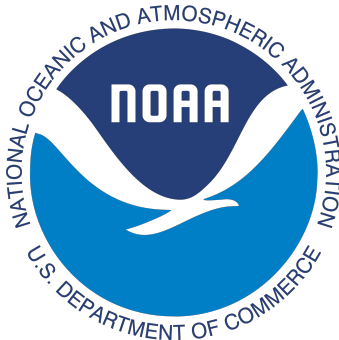
Commercial Earth Observation



Space Domain Awareness



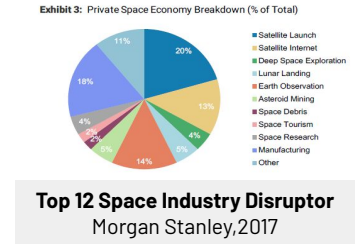
Civil Government Earth Observation



Department of Defense



The Spirit of ATLAS



ATLAS is a non-traditional small business headquartered in Traverse City, MI. Our innovative approach to optimize ground antenna networks for space communications can vastly improve government and commercial satellite operations around the globe. ATLAS employs 40+ workers located in 8 states, and conducts business around the world.

Community Outreach - ATLAS Space Explorers



Utqiagvik Alaska at Twilight

