



# Leveraging Commercial Satellite Data to Advance Weather Forecasting

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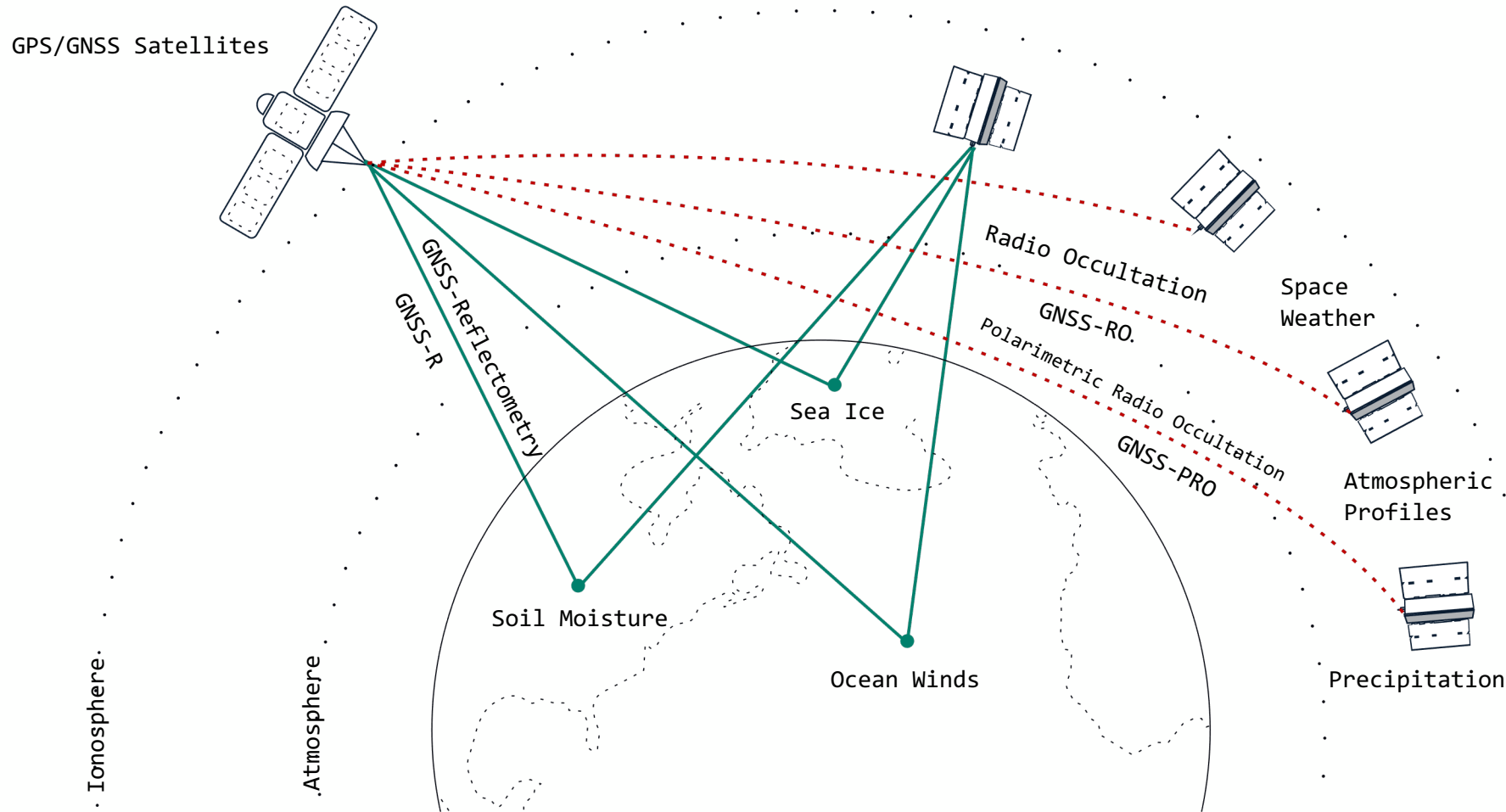


# The Space Company Focused on the Future of Planet Earth

Providing global data,  
analytics and space services



# Most Comprehensive Weather Data Anywhere on the Planet



24 million  
Radio Occultation  
profiles

*Spire has produced more RO  
than COSMIC-1 & COSMIC-2  
combined*

Future offerings

Hyperspectral Microwave  
Sounder (HYMS), Infrared  
sounding

# Enabling Public Sector with Weather Data

- Data used by public agencies providing weather predictions to protect lives and prevent the loss of property for almost a billion people and almost half of global GDP
- Global unlimited data sharing rights
- Rigorous quality assurance testing, operational testing, scientific value assessment, and forecast accuracy impact assessment
- Unique understanding of global weather conditions from space

## Customers

NOAA

EUMETSAT

NASA

ESA

UKSA

ECMWF

# U.S.A. Model for Delivering Critical Data

U.S. Agencies Shift 50%+ of Satellite Data Need to Private Sector Services

Success of the U.S. model for private-public sector partnership:

- **Data procurement:** Over 50% of satellite launch, satellite communications and satellite imagery needs acquired from commercial services
- **Benefits for public sector:** Greater resiliency, risk sharing, faster innovation, lower cost
- **Implementation:** Long-term, multi-party contracts

# Tackling Climate Change: A Unified Approach

## *A suggestion for the WMO*

- Consider encouraging the purchase of commercial satellite weather data through long-term, multi-party agreements
- Current model of “going it alone” hampers ability to tackle generational threat of climate change together
- Public sector's ability to produce early warnings and extreme weather forecasts, paired with commercial satellite data, is a powerful combination to tackle climate issues together
- Adopting a model similar to US would:
  - significantly improve the availability of data
  - bolster global efforts to address challenges from climate change
  - Ensures long-term stability, removes famine/feast budget cycles



# Possible Collaboration Ideas to Support WMO Activities

From the ultimate vantage point of space, commercial satellite data yields the insights to help solve our toughest challenges on Earth.

Opportunities to support WMO activities:

- UN Early Warnings for All (EW4All) initiative
- Global Greenhouse Gas Watch (G3W)
- Earth Radiation Balance
- Climate Science

# Thank you

