The revolution in data delivery for Low Earth Orbiting (LEO) satellites is here. Viasat Real-time Earth is a hybrid space and ground network that finally brings affordability and reduced latency to the earth observation and remote sensing applications.

ADVANCING DATA DELIVERY
While satellite design and launch services have advanced significantly, data collection and dissemination have lagged behind. The inability to command, downlink, and disseminate valuable earth observation and remote sensing data in a timely and affordable manner is a business constraint to operators.

Viasat is solving these challenges by leveraging our game-changing satellite technology and infrastructure. This unique service offers satellite-to-satellite and satellite-to-ground communications for real-time, global data transmission available on a pay-per-use basis. The service platform has multiple layers of redundancy and diversity, making it resilient to ensure your data is always delivered. Next-generation and legacy LEO satellites using S-, X-, and Ka-band are supported to meet today and tomorrow's requirements.

CHANGING HOW DATA IS DELIVERED
End users in environmental, shipping, oil and gas, government, and many other industries rely on getting their data as quickly as possible and Viasat is strategically positioned to meet that demand. LEO satellite operators will be able to offer more immediate access to data with the service's ability to command the satellite, downlink the information with less latency, and host the data in the cloud for faster and easier access and processing. This also increases the value of data to end users so they can act on the results more quickly than ever before.

FEATURES
- Resilient The platform is inherently resilient with no single point of failure due to ground system redundancy, satellite transmission redundancy links, as well as primary and backup terrestrial diversity and multi-site diversity.
- Global Antenna systems strategically located worldwide to reduce latency; high-capacity continuous global coverage via space LEO-to-Viasat GEO satellite links.
- Scalable Satellite, terrestrial, and virtual resources designed to each customer’s requirements and are flexible enough to support high-value applications like integrated analytics, processing, and more.
- Secure Information assurance and cybersecurity are incorporated to ensure data is protected.
- Cost-effective Superior bandwidth economics and greater network efficiency with Viasat satellites, virtualized hardware, and next-generation ground station architectures, plus low-cost terrestrial circuits.
- Multiband support Supports legacy and next-generation services including S-, X-, and Ka-band.
Real-time Earth

SPACE SERVICE
With over 3 Tbps of capacity and global coverage, using Viasat’s groundbreaking ViaSat-2 satellite and coming in 2020, ViaSat-3 constellation, the space network will enable real-time tasking and data delivery at the economics of broadband. Imagine real-time situational awareness, weather forecasting, environmental monitoring, and endless other applications.

GROUND SERVICE
The ground service is a true network of strategically located antenna systems that are securely interconnected, providing shared resources for the best economics achievable.