

# Telesat LEO

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High quality, low latency  
connectivity for efficient  
offshore operations



**TELESAT**<sup>TM</sup>

Low latency, high-speed broadband connectivity to offshore assets will accelerate digital transformation in the oil and gas industry. Increased automation with cloud-based applications and real-time communication capability will create new efficiencies.

# Accelerate your digital transformation for remote and offshore assets with Telesat LEO



## Telesat LEO incorporates next-generation technology including:

### Data Processing in Space

Full digital modulation, demodulation, and data routing occurs in space for processing, resulting in higher capacity and flexibility

### Optical Inter-satellite Links

Data can travel at the speed of light from one satellite to another, resulting in a fully interconnected global mesh network that allows customers to access the Telesat LEO network no matter where they are

### Phased Array Antennas

Sophisticated antennas on each satellite with hopping beams can dynamically focus capacity precisely where users require it

### Hybrid orbits

Satellites in an industry-first combination of polar and inclined orbits, resulting in complete global coverage, including polar areas, with higher capacity where most of the world's population lives

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Telesat has developed a highly innovative global network composed of 300 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.



# Telesat LEO meets critical connectivity requirements



## Low Latency

Twenty times more responsive than today's GEO satellites for fibre-like performance enables remote monitoring, real-time video, increased automation and ability to connect to secure, cloud-based applications without applying TCP spoofing or acceleration techniques.



## High Speed

Delivering guaranteed (CIR) speeds to a remote with multiple Gbps in downlink and uplink directions ensures hundreds of crewmembers and thousands of sensors remain well connected.



## Resilient

Highly resilient network with multiple interconnected satellites always in view and multiple ground nodes without any single point of failure ensures your sites always stay connected.



## Quick Service Deployment

Compliant with Metro Ethernet Forum (MEF) standards for seamless plug and play integration allows remote assets to go live quickly.



## Global & Scalable

Every point on Earth is covered, with multiple Tbps of capacity in the network to deliver enterprise-grade connectivity. Sophisticated antennas on each satellite with agile beams can dynamically focus capacity precisely where users require it.



## Economical

Telesat LEO delivers transformational total cost of ownership via a highly efficient network, low cost hardware and flexible business models that maximize utilization of the network.

Telesat has conducted several testing campaigns with leading maritime, aero and enterprise service providers, demonstrating industry-leading high throughput and quality.

Telesat LEO, launching in 2022, will be available through leading connectivity service providers.



## Contact Us

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