Telesat LEO

Lightning-fast Internet Everywhere

TELESAT
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A ubiquitous transport alternative that delivers fibre-like connectivity at disruptive economics

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

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

**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

**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

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.
Community backhaul re-imagined

Unlock Revenue Pools
Increase revenue by selling more services and lower churn rates with enhanced network performance. Bring in new connectivity to unserved areas or expand data rates and packages to underserved communities.

Low Latency
Gigabits per second speeds and 20 times more responsive than today’s satellites for better voice, video streaming and security that matches fibre connectivity.

Always On
Highly resilient network with multiple interconnected satellites and ground nodes without any single point of failure ensures your customers always stay connected.

Quick Service Deployment
Compliant with Metro Ethernet Forum (MEF) standards for seamless plug and play integration provides the ability to rapidly set up connectivity anywhere, anytime.

Global, Scalable
Every point on Earth is covered, with Gigabits per second speeds to a remote and multiple Tbpps of capacity in the network to deliver enterprise-grade connectivity.
Telesat has conducted several testing campaigns with leading telecom operators, including the world’s first 5G testing over LEO. Learn more at https://www.telesat.com

Telesat LEO services, launching in 2022, will enable operators to universally deliver a high quality network that will improve customer experience and drive revenue growth.