

**TELESAT**  
**LIGHTSPEED™**

**City-quality connectivity everywhere**

**TELESAT™**

An aerial photograph of a coastal town, likely Lofoten in Norway, during winter. The town is built on a peninsula and is surrounded by a harbor filled with numerous colorful fishing boats. The houses are painted in various colors like red, yellow, and white, and their roofs are covered in snow. In the background, there are large, rugged mountains with significant snow cover, illuminated by a warm, golden light, suggesting a sunrise or sunset. The sky is a clear, pale blue.



# TELESAT **LIGHTSPEED™**

A ubiquitous transport alternative that delivers wireline quality and wireless flexibility – at disruptive economics

## **Telesat Lightspeed 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 Lightspeed 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**

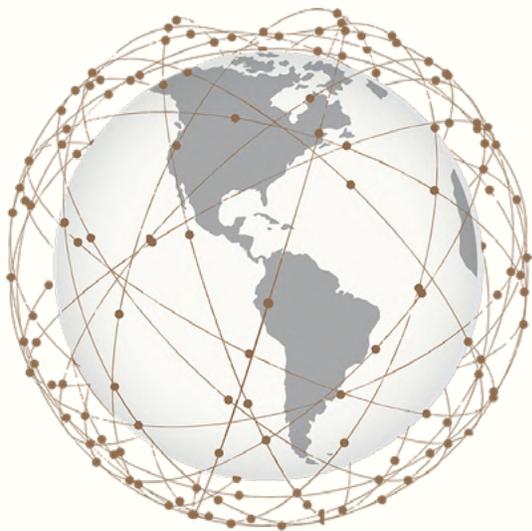
Satellites fly in a combination of orbits, resulting in complete global coverage, including polar areas, with higher capacity where most of the world's population lives.

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**Telesat has developed a highly innovative global network composed of 198 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.**



# Backhaul connectivity 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 coverage of 4G/5G networks.



## High Performance with Low Latency

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

MEF 3.0 standards compliance provides seamless plug-and-play integration with 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 Tbps of capacity in the network to deliver enterprise-grade connectivity.

Telesat has conducted several testing campaigns with leading mobile network operators, including the world's first 5G testing over LEO.

Telesat Lightspeed services will be available through leading connectivity service providers. To learn more, visit [www.telesat.com/lightspeed](http://www.telesat.com/lightspeed)



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