



XI CONGRESO INTERNACIONAL DE ESPECTRO

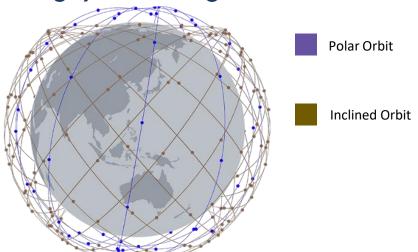
HABILITADOR DE DESARROLLO Y COMPETITIVIDAD

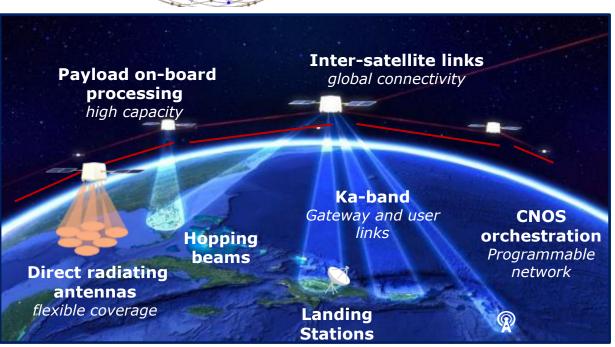
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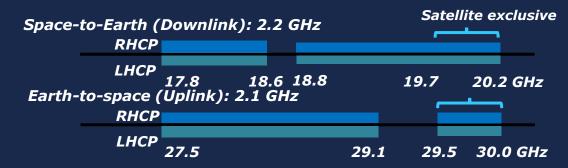
A highly innovative global LEO network







- √ 298 satellite constellation with optical inter-satellite links, full global coverage from pole to pole
- √ 78 polar satellites in 6 orbit planes at 1,015 km and 220 inclined satellites in 20 orbit planes at 1,325 km
- √ ~35 times closer to Earth than traditional satellites for <u>fibre-quality low</u>
 <u>latency</u>
- √ ~4 GHz Ka-band spectrum and ~135,000 agile beams to flexibly connect small to very large sites (few Mbps to multiple Gbps links)



- ✓ Multiple satellites and ground nodes for <u>resilient</u>, <u>always-on</u> connectivity to rural and remote areas
- √ Mobile/Fixed applications for enterprise/government/maritime/aeronautical

Regulatory Aspects



O1. Lack of Regionally Harmonized/streamlined Framework for ESIM and Ubiquitous VSAT terminals

Harmonizing/streamlining requirements (e.g. by introducing blanket licenses/ facilitating the circulation of terminals) on a regional basis is conducive to the timely provision of services and reduces the work of regulatory agencies and all involved. Draft Recommendation on ESIM being proposed within CITEL

O2 High Spectrum Fees

High spectrum fees could have a dampening effect on the ability to provide broadband satellite services, as novel satellite systems can use up to 4GHz of spectrum

O3. Landing Rights requirements

Landing rights are very rare outside of the Americas. The lighter the regulatory touch, the quicker and more effectively services can be provided domestically, regionally and globally

04. WRC-23 Al 1.16 – NGSO ESIM operation in Ka-band

Government of Canada and Telesat Lightspeed Partnership on Rural Connectivity



Backhaul on Telesat Lightspeed



Affordable Access

Cost-effective for ubiquitous coverage, more affordable than fibre and wireless alternatives for remote communities



50/10 Mbps Unlimited

High speed, true broadband experience



5G and LTE Services

Reliable, affordable and rapidly deployed wireless services

Eliminating the digital divide



Empowering Communities

Providing underserved communities with fibre quality broadband



Expanding Healthcare

Real-time access to medical specialists, electronic records and management systems

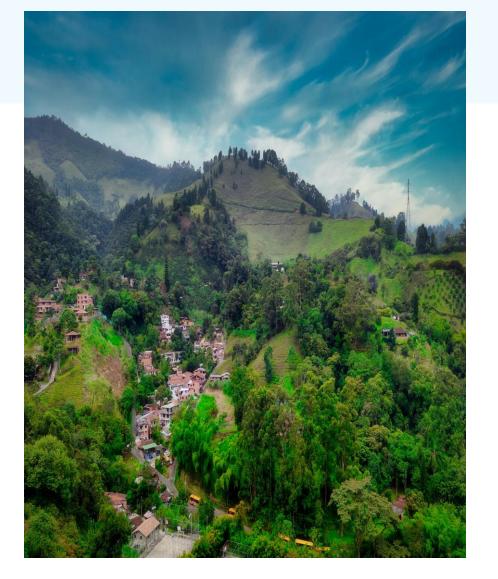


Creating Opportunities

With state-of-the-art online learning, access to government services, and the global economy



City-quality connectivity everywhere





Key Takeaways

- Telesat Lightspeed will provide much needed capacity with flexibility, low latency and revolutionary economics in the region
- Government support and technology-neutral funding for rural connectivity will be important in achieving universal connectivity for education, health and other important societal applications
- A streamlined and harmonised regulatory touch will enable operators to timely deploy novel services
- Administrations are invited to support
 - revision of domestic regulations, when needed, to adapt to new services
 - the development of harmonized regulatory framework in the region
 - studies under WRC-23 Al1.16 towards a successful solution for this Al, similar to the one for GSO ESIM in the same frequency band



Thank you for your attention!

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