



**ANE XI Congreso Internacional de  
Espectro. Noviembre 2021**

***“Satellite mega-constellations and non-  
geostationary systems”***

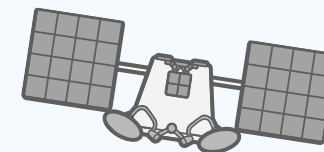
**Christopher Casarrubias, Jefe de  
Asuntos Regulatorios para America  
Latina y el Caribe, OneWeb.**

# OneWeb – where are we and where we are heading to

## Ownership



## Satellites built by OneWeb Satellites



Launching satellites at regular cadence

**358 satellites** in orbit to date

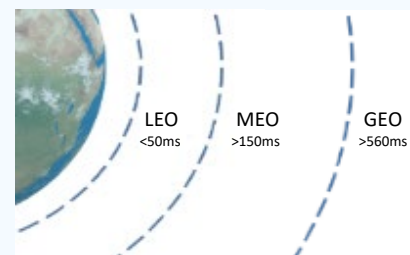


In the time of COVID  
connectivity is critical  
infrastructure

Building a satellite network to  
deliver global broadband  
communications



**6 GHz**  
of Ku-band & Ka-band  
spectrum



**Lowest Latency**  
< 70 milliseconds

Space is a global, shared,  
natural resource.  
It is up to all of us to **protect it.**

**Responsible Space**

<https://responsible.space/>

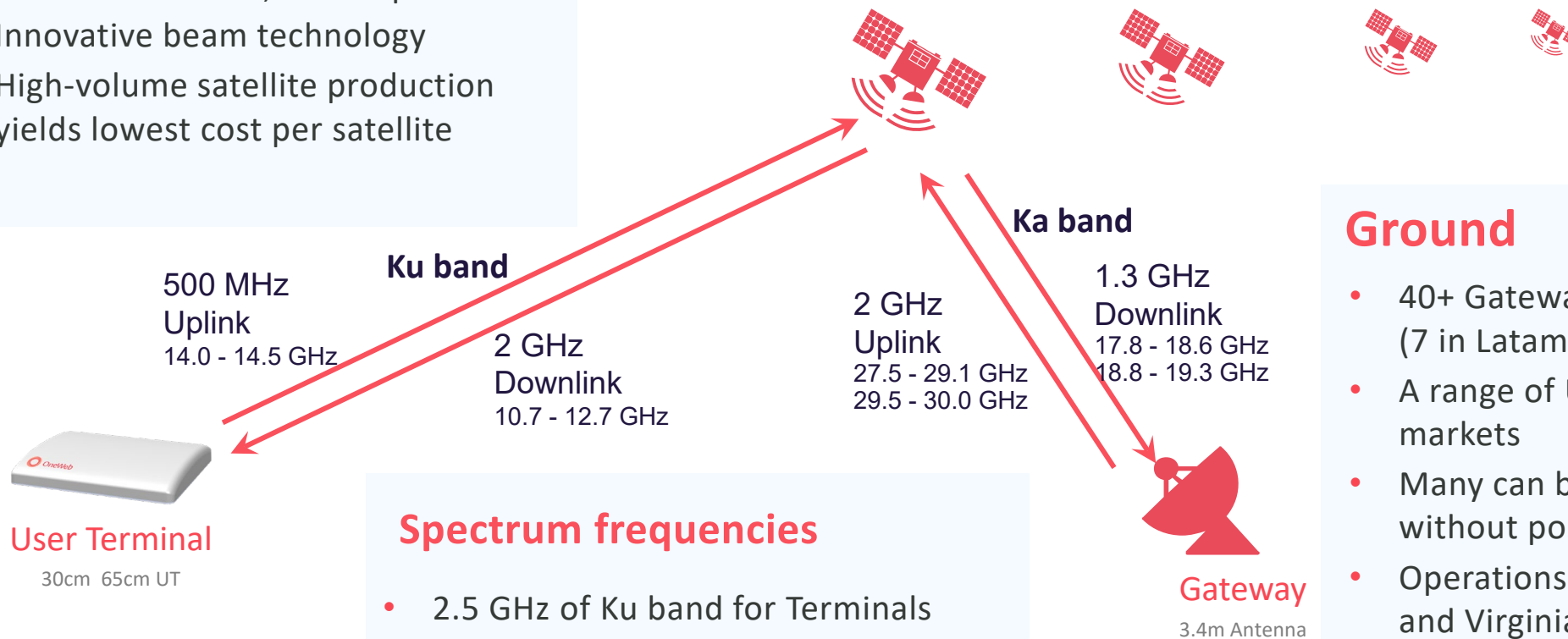
OneWeb is a leader in  
**Responsible Space**

# Our Network



## Space

- 650 LEO satellites; orbital planes
- Innovative beam technology
- High-volume satellite production yields lowest cost per satellite



## Spectrum frequencies

- 2.5 GHz of Ku band for Terminals
- 3.3 GHz of Ka band for Gateways



**User Terminal**  
30cm 65cm UT

**Gateway**  
3.4m Antenna

# Perceptions, soon to be Misconceptions

Service is Too Expensive...



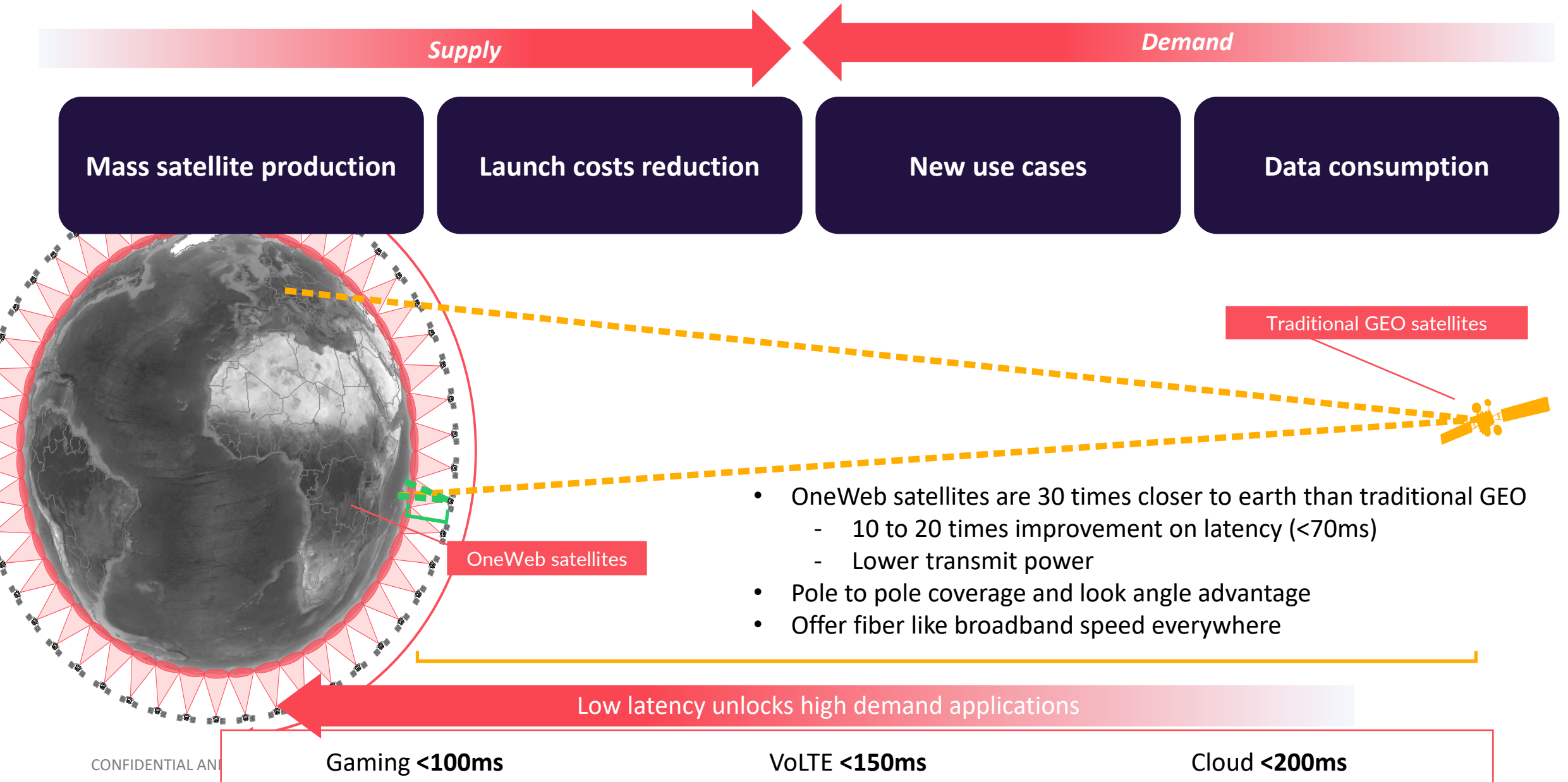
Connectivity is Unreliable...



Connection too Slow for Using Apps...



# Change driven by Innovation



# And the Regulations?

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1. Technological Agnosticism: The choice of infrastructure solutions must be based on merit.
2. Spectrum is an essential input for digital transformation; access criteria should go beyond money collection.
3. Service authorization processes need to be simplified, made more agile and transparent.
4. Promote the granting of group licenses for satellite terminals.
5. Increase the dialogue with the satellite industry on the need for spectrum for next-generation satellite services:  
Q / V band
6. Importance of the ITU regulatory framework for sharing and coordinating with GEO and non-GEO systems



Global Connectivity Coming Soon

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#OneWebOneWorld