



OneWeb

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OneWeb presentation

Oulu Finland – June 2017

The Dream of Affordable Internet Access for Everyone is Getting Closer

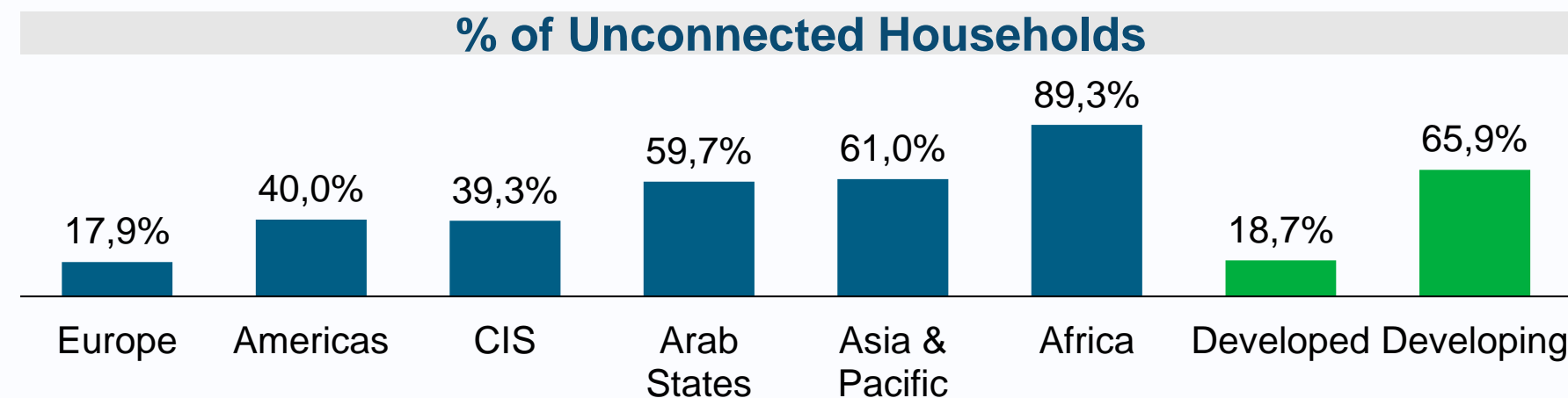
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Tony Azzarelli – VP Regulatory Affairs

Majority of the World Does Not Have Access to the Internet

- The ITU¹ estimates that **over 4 billion people** have none or bad internet access globally
- OneWeb's market entry objectives align with public initiatives and international governments' goals to increase access globally



Source: ITU - ICT Facts & Figures, 2015; FCC 2015 Broadband Progress Report.
(1) International Telecommunication Union, an agency for information and communication technologies within the United Nations (UN).

OneWeb is ...

A Global Communications Company

Global Coverage

100% of the Globe

Fastest Speed

Up to 500 Mbps

Lowest Latency

< 50 milliseconds

Mobile Technology

3G / LTE / 5 G / WiFi

System Capacity

more than 7 Tbps

Enabled by Satellite Technology

Premium Spectrum

≥ 3 GHz of globally harmonized spectrum

System Architecture

Up to 882 Satellites

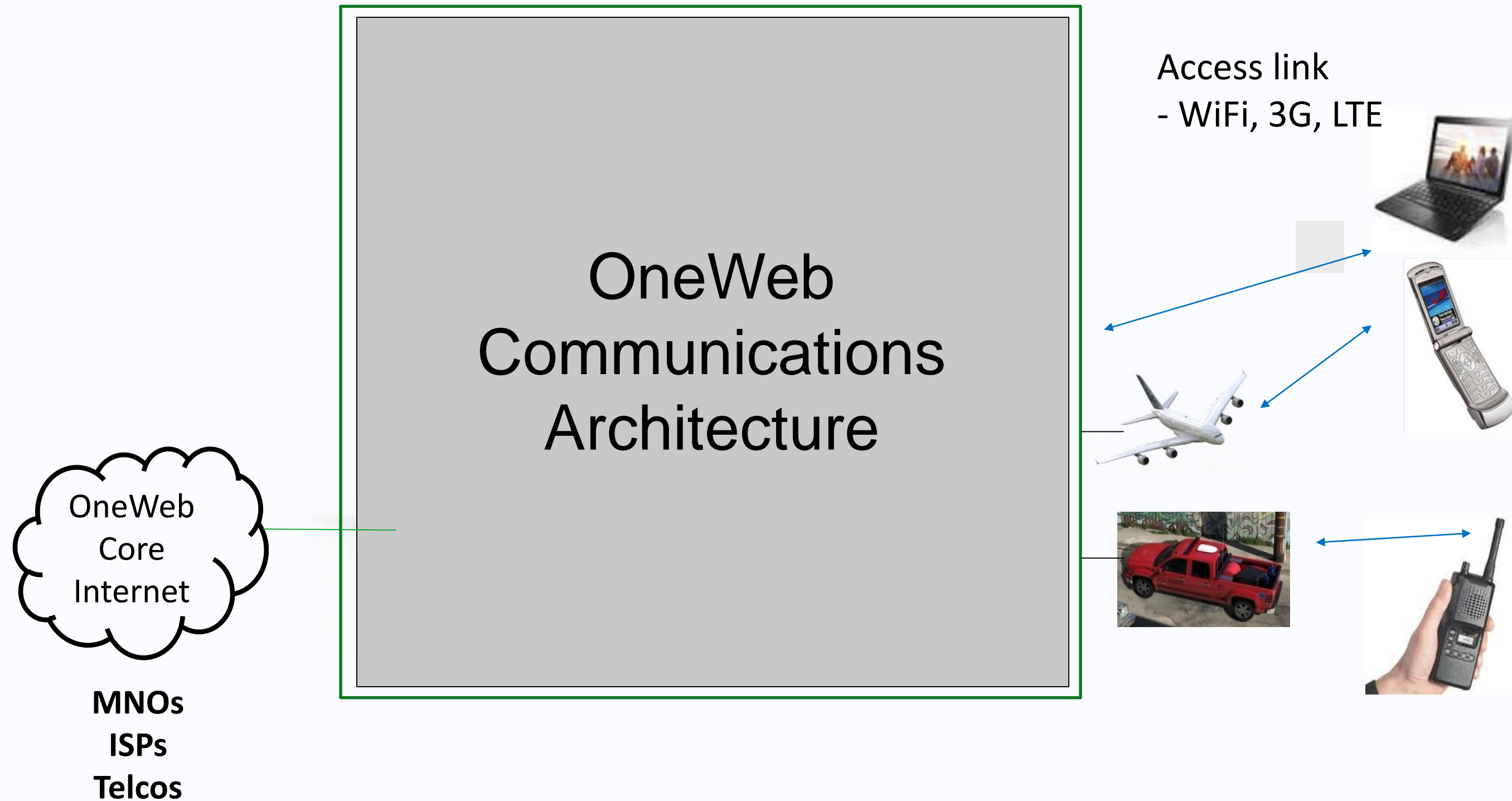
Smallest Terminals

30cm - 70cm

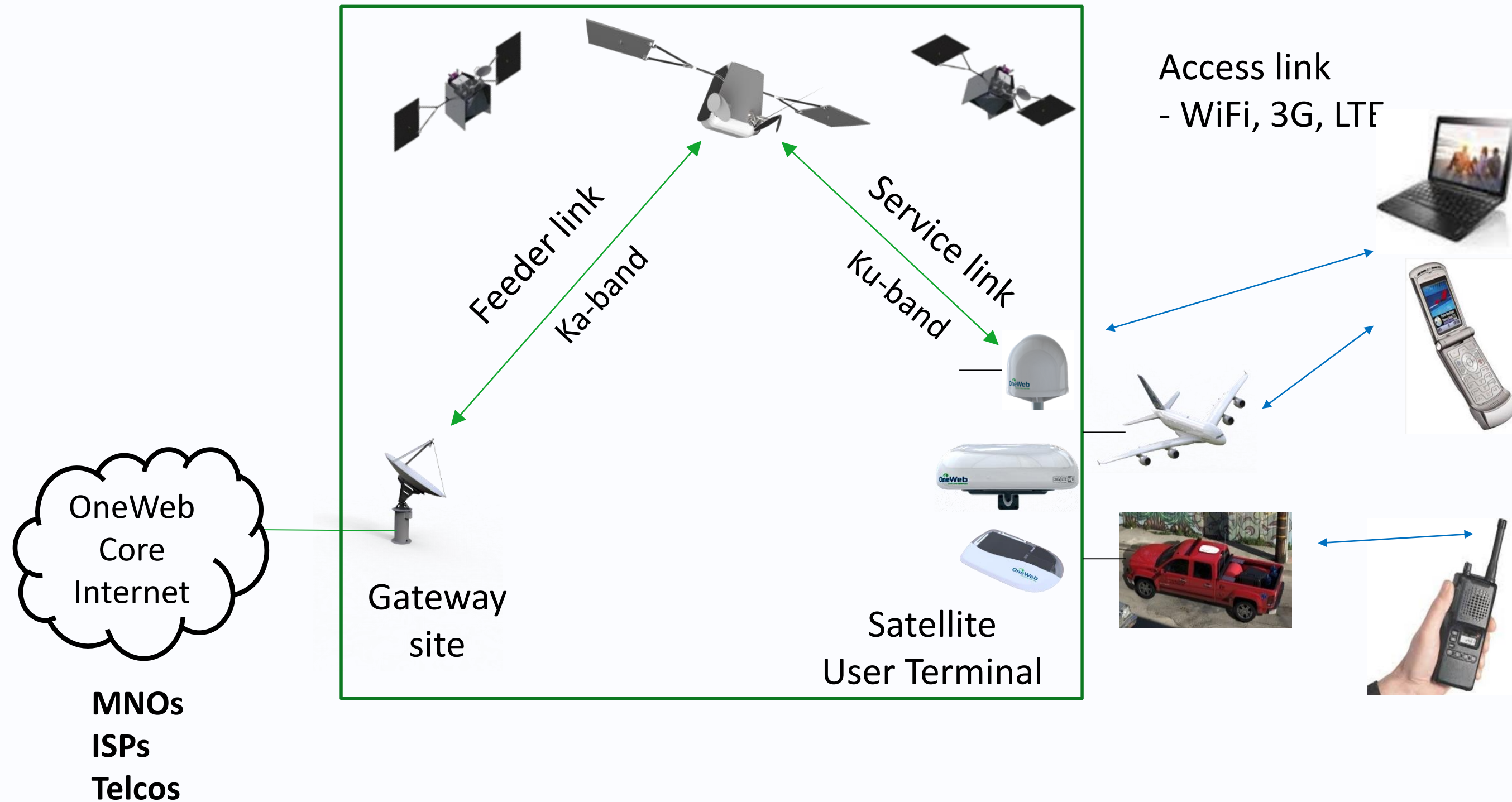
Lowest Satellite Cost

<1M\$ / satellite

OneWeb enables people to use their own devices

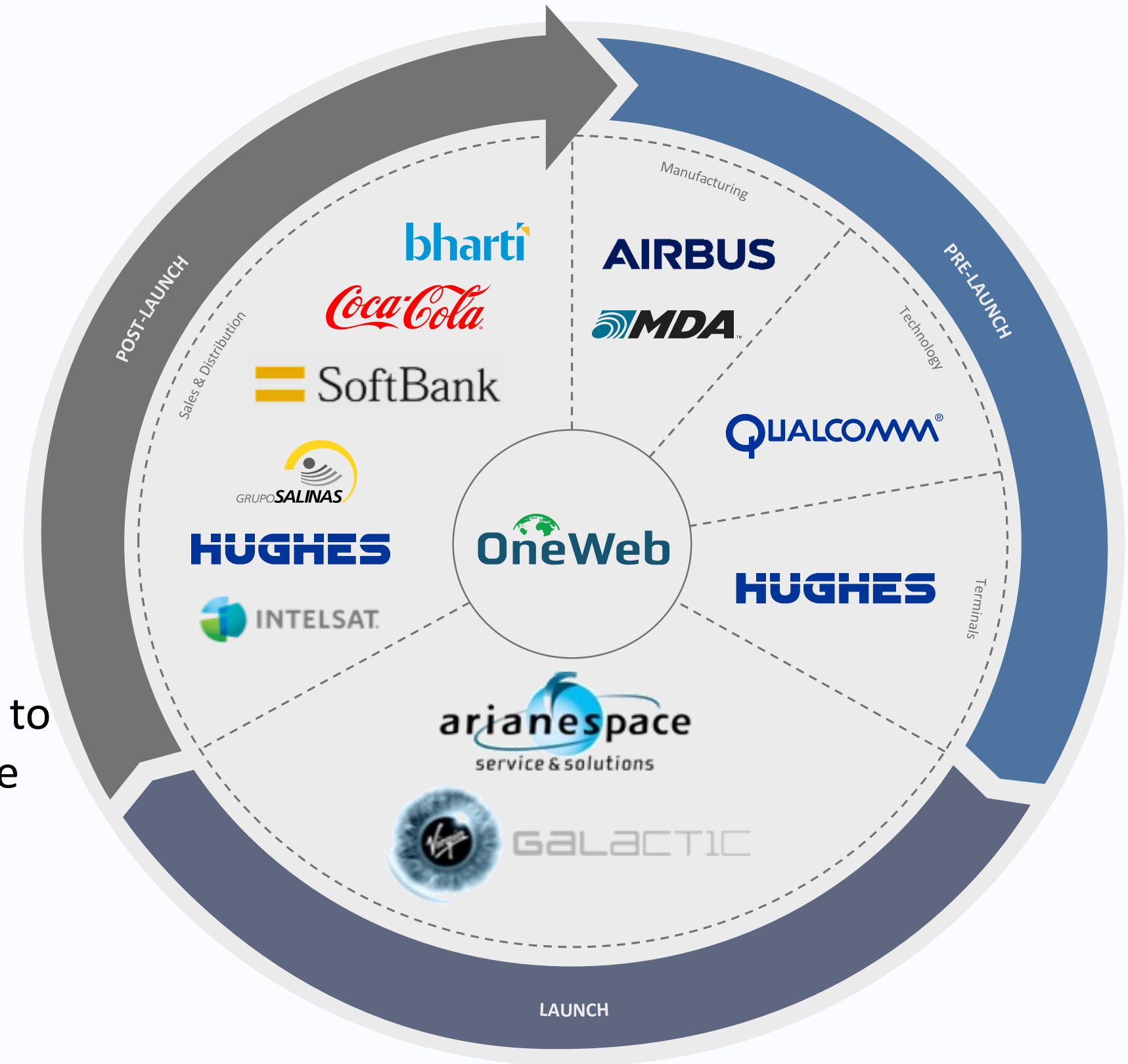


Through the OneWeb communications system



Well Established Partnership Ecosystem

- Key strategic and commercial partners
- Strong support rapid development of the satellite, user terminal and ground systems
- Key distribution partnerships support initial go-to-market strategy
- OneWeb will continue to partner with new industry leaders to support deployment and market access of OneWeb's service



Enabling affordable connectivity

Economic Growth and Benefits for isolated communities and communications on the move

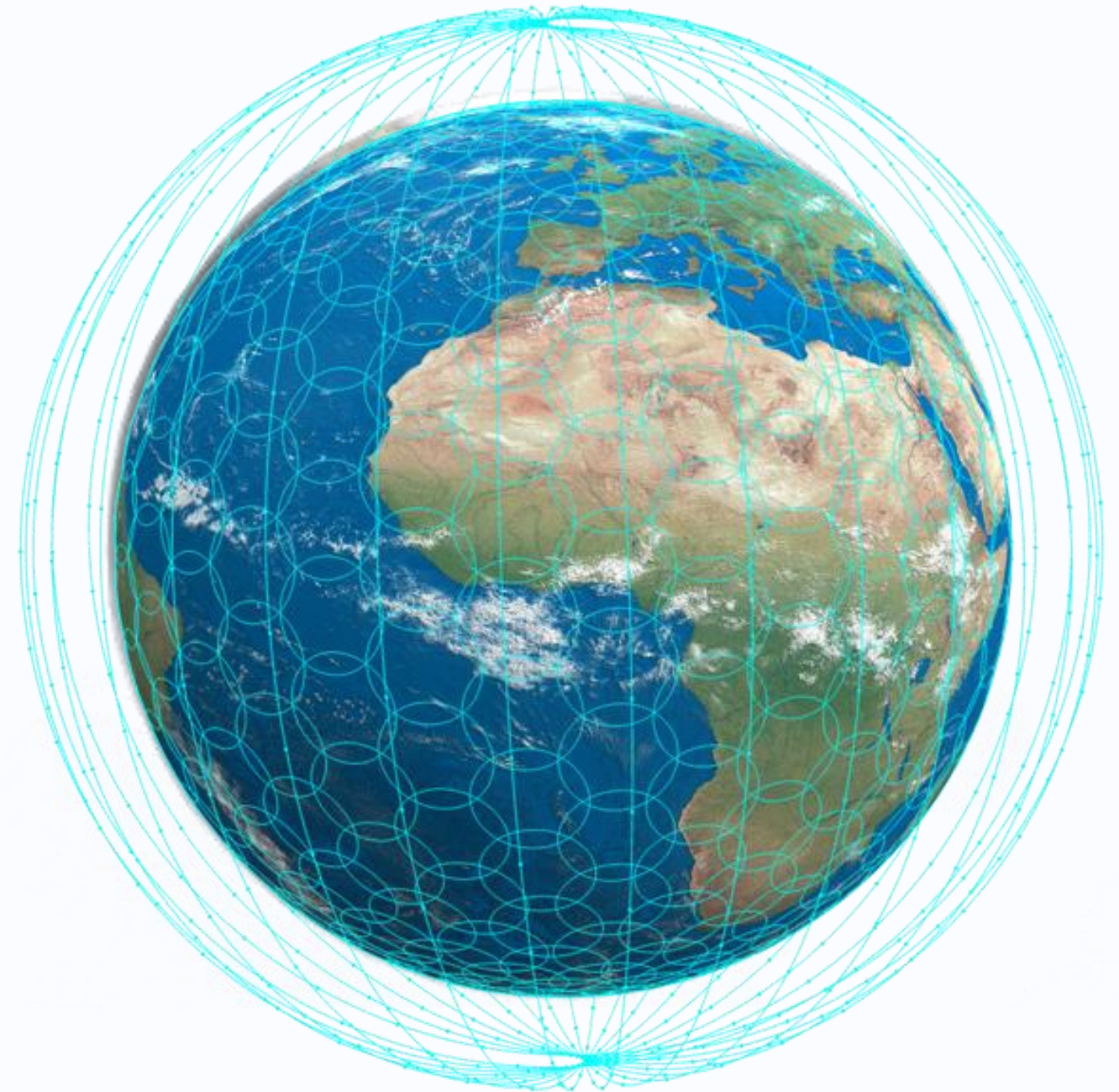
- e-Government
- e-Medicine
- e-Learning
- e-Commerce
- Border control
- Emergency Services
- Science
- Weather stations
- e-Office
- Tele-conferencing
- Cloud computing
- e-Games

Empowering Communities Without Access

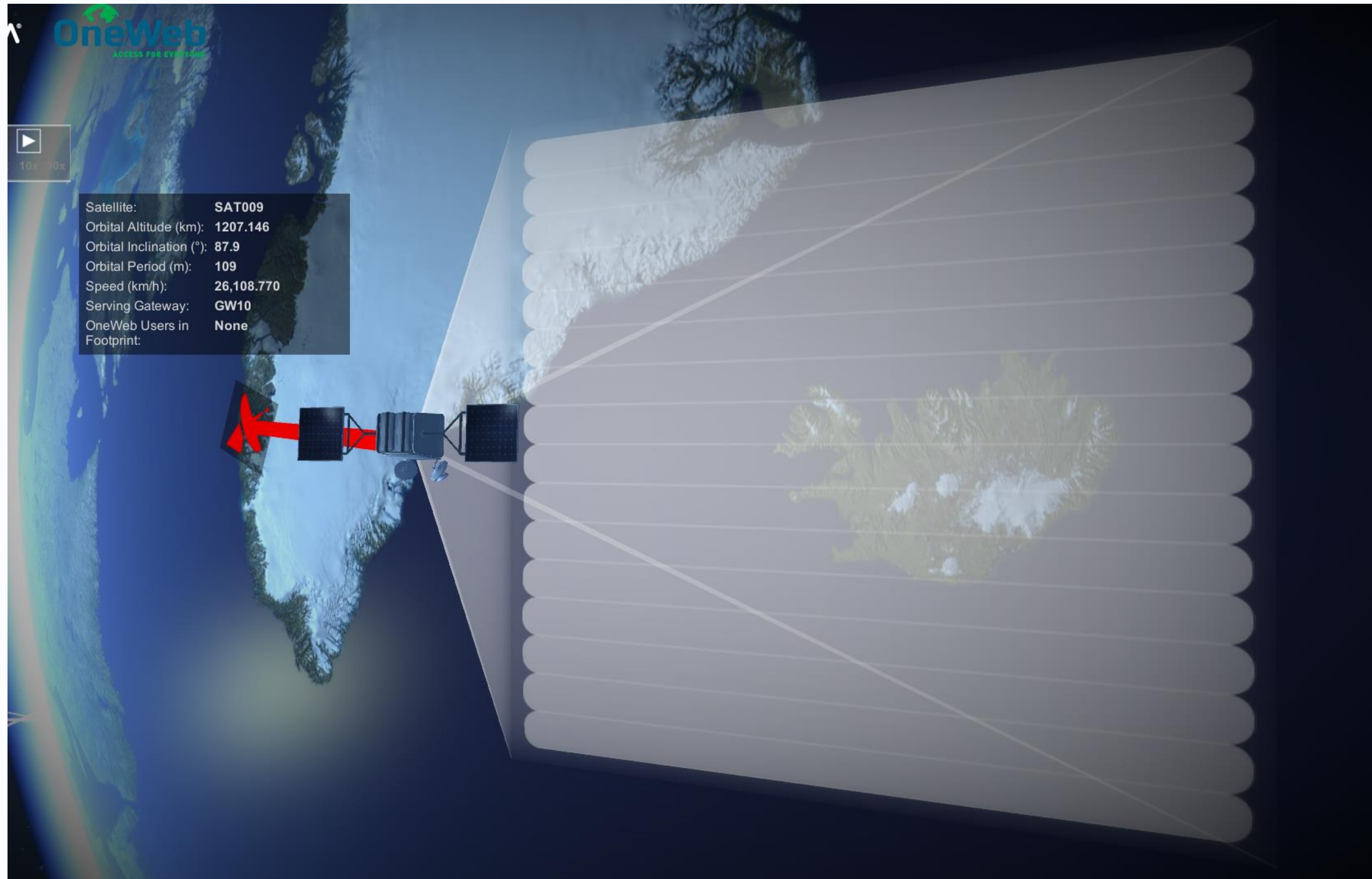


System Overview

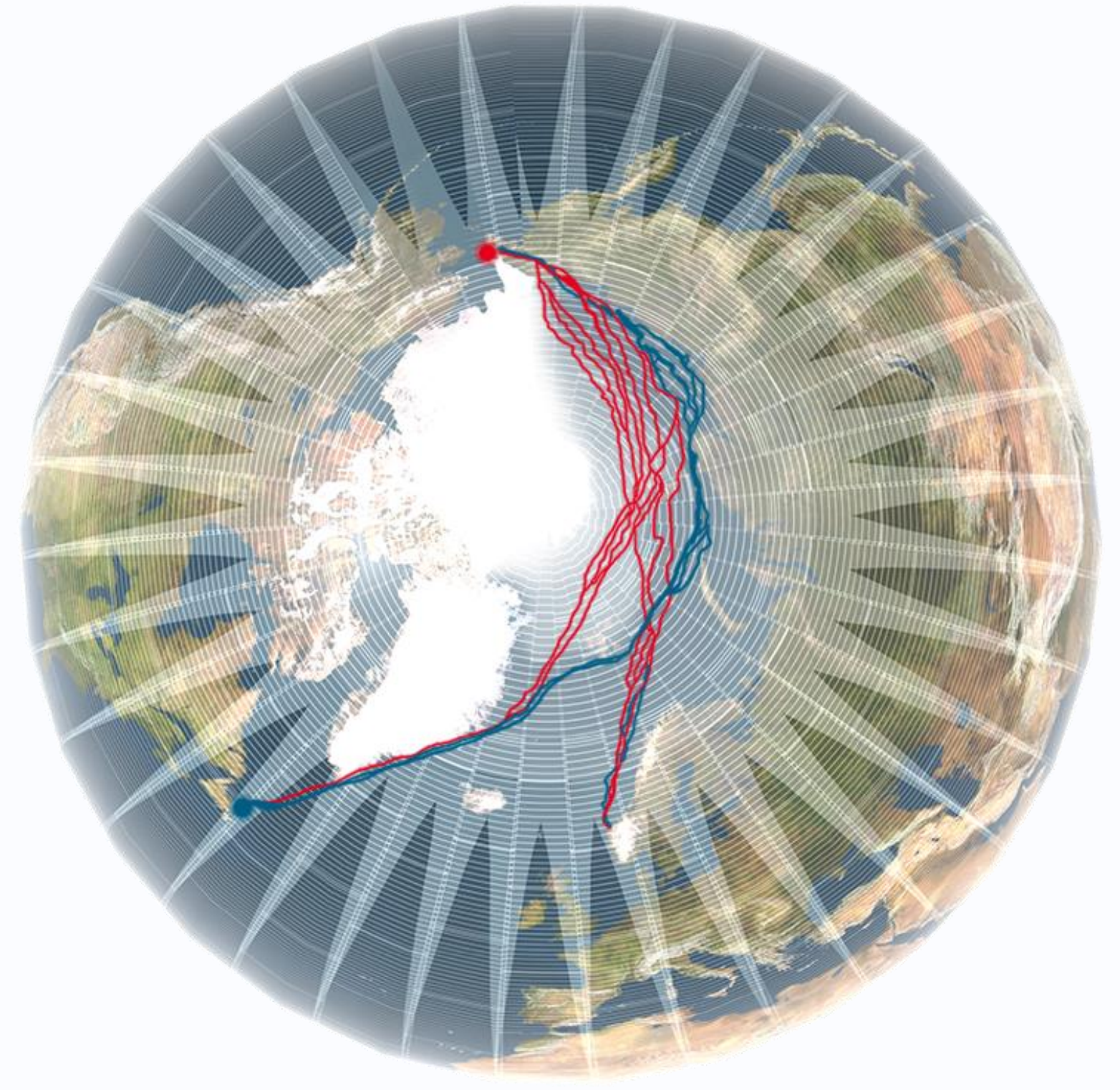
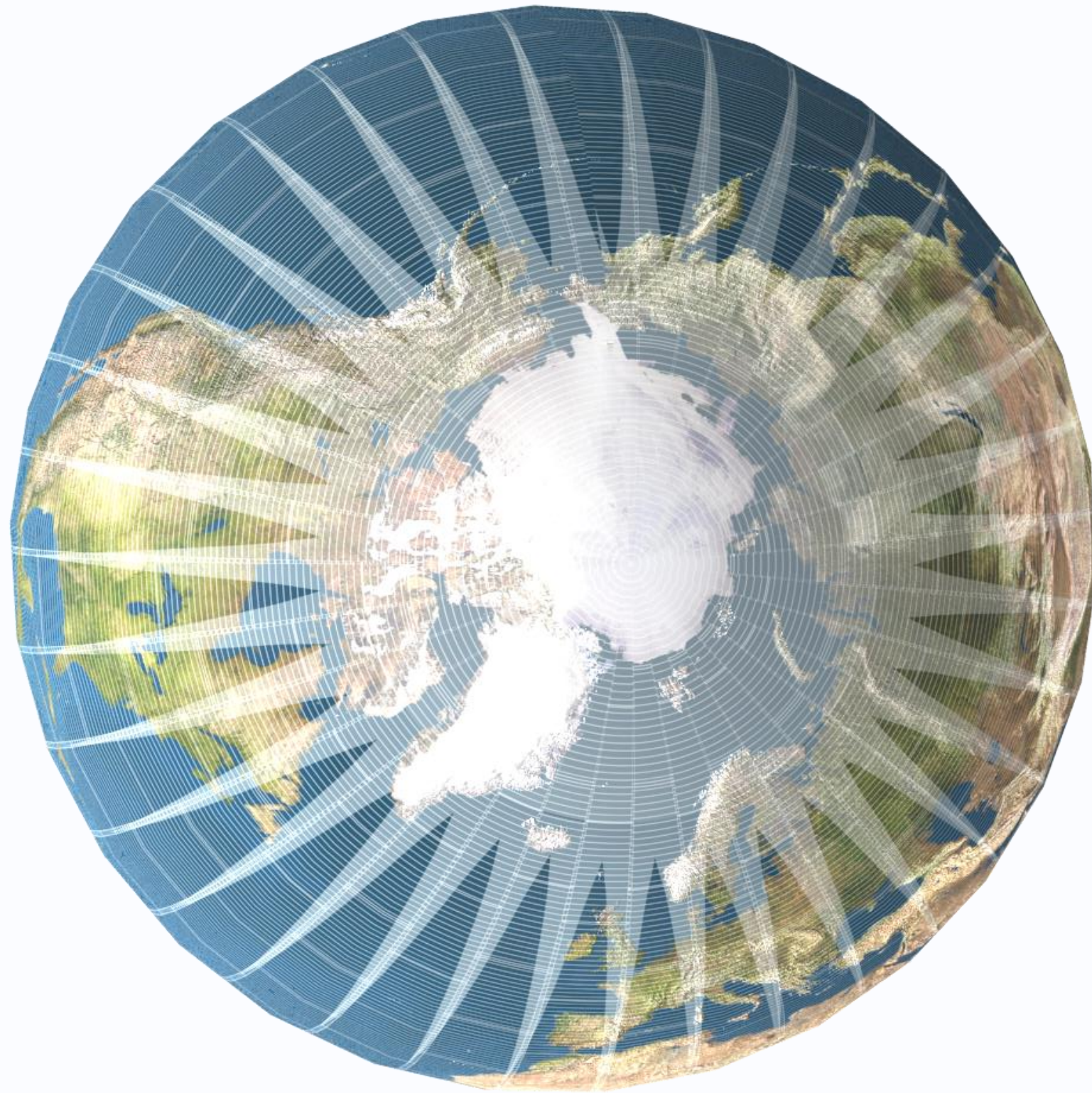
- Global Communications Company
- Ku-band and Ka-band spectrum
- 900 satellite production
- 1200 km altitude
- First launch – Early 2018
- Ramping introduction of services by end of 2019
- Fully compatible with existing connectivity solutions (Wi-Fi, 3G, 4G/LTE, 5G)



Satellite coverage of one satellite



Satellite coverage of the Arctic Region



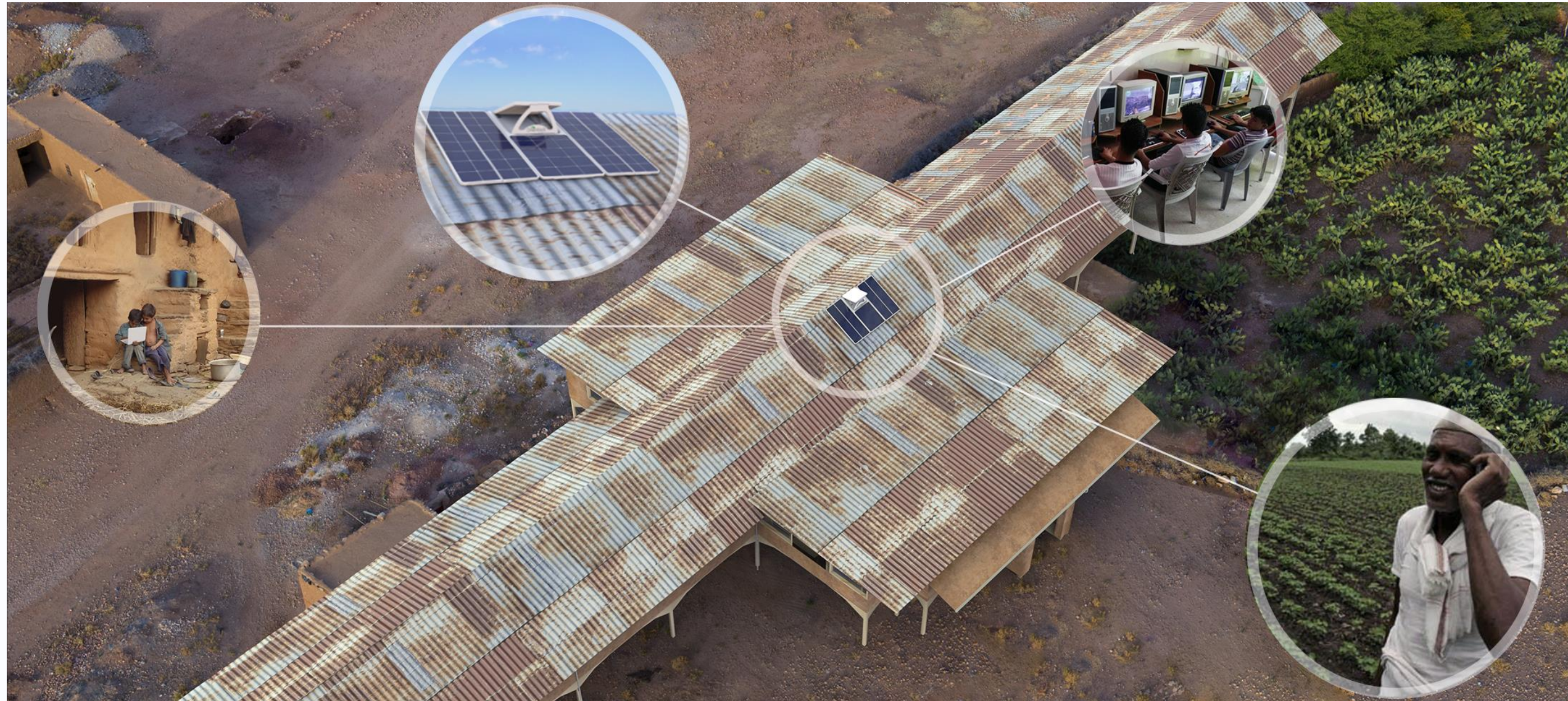
OneWeb Benefits

- Global coverage (including Poles)
- Seamless mobility
- Low latency
- Small, high-performance user terminals
- Cellular extension, even without towers
- Improved performance in obstructed terrain ($> 55^\circ$ elevation)
- Multiple local distribution options, working with local partners



Allowing Community Access Points

WiFi / 3G / 5G / LTE



Connecting First Responder and Disaster Areas



Providing Cellular Backhaul in Remote Areas



Cellular Backhaul in Roads



Connecting People and Machines in Transit



Connecting Workers in Remote Areas



Connecting people at air and sea



OneWeb Satellite Broadband in the Arctic Region





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