

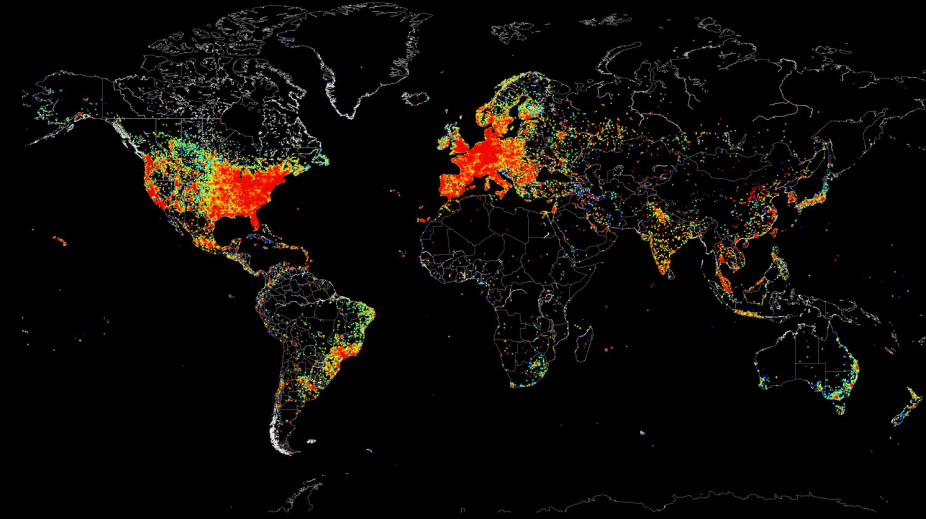


A seamless extension of terrestrial NB-IoT everywhere

SATELIOT

Mariona Pazos Rovira - mariona.pazos@sateliot.com

Challenges in scaling IoT deployment globally



The Challenge

80% of the world has no terrestrial coverage

Existent satellite solutions for IoT

1. Proprietary
2. High investment
3. Limited scalability

Standardization is crucial

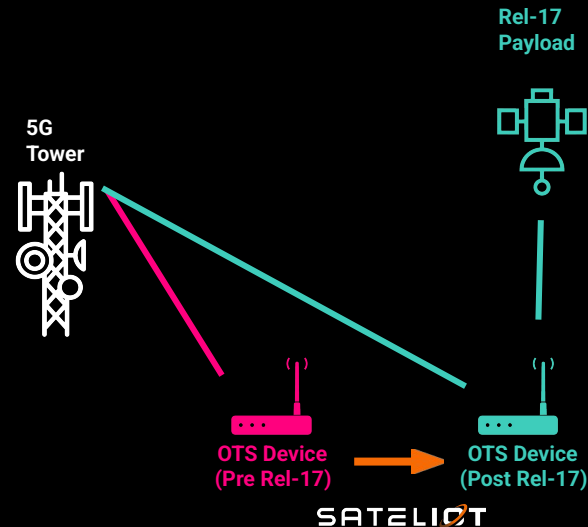
Massive IoT adoption requires **GLOBALLY AFFORDABLE** connectivity solutions, this is only achievable through the implementation of a **STANDARD PROTOCOL**



Release 17 (2022)

- ➡ 5G NTN NB-IoT
- ➡ Standard devices IoT devices
- ➡ 3GPP defined S-Band and L-Band

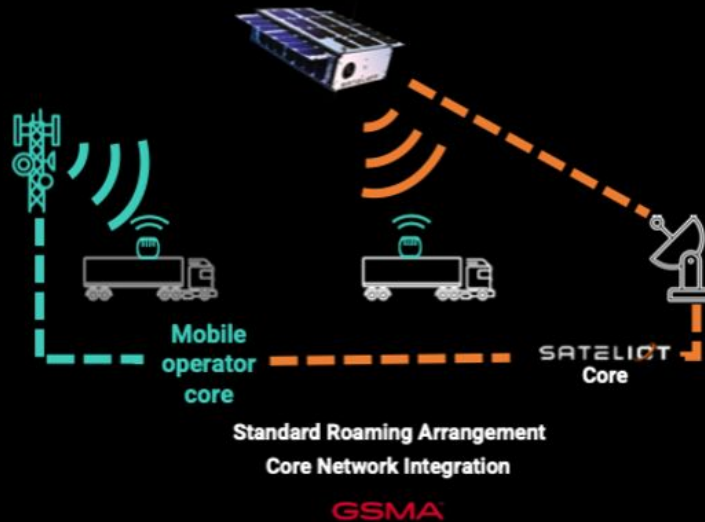
Release 17 enables off-the-shelf devices to connect to both terrestrial towers and satellite



Note: OTS (Off-the-shelf), MNOs (Mobile Network Operators), Rel-17 (Release 17 of the 3GPP standard)

Sateliot: standard, seamless and scalable IoT

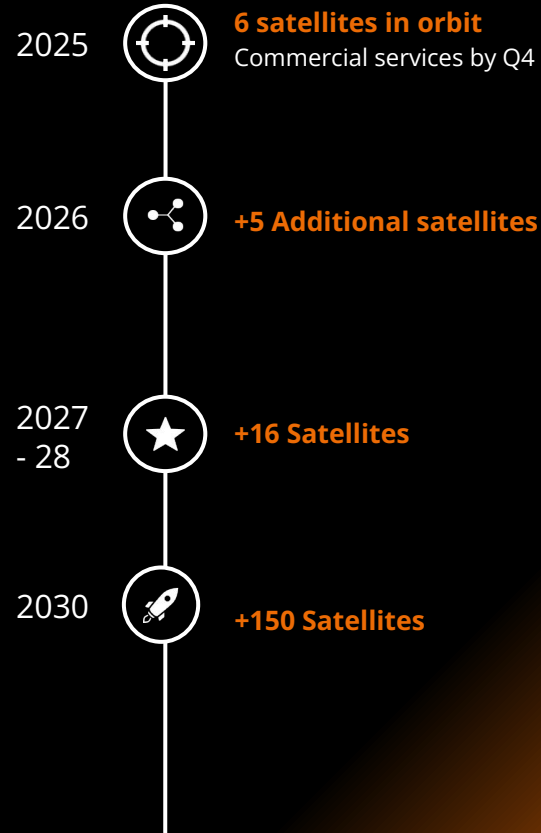
We are committed to enable global NB-IoT connectivity, working as wholesale satellite capacity provider to extend the MNOs footprint



IoT verticals



Most IoT applications don't require continuous connectivity



Enabling the deployment of IoT across the globe

NTN Satellite Band #	Uplink (UL) operating band	Downlink (DL) operating band
255 (L band)	1626.5 MHz – 1660.5 MHz	1525 MHz – 1559 MHz
256 (S band)	1980 MHz – 2010 MHz	2170 MHz – 2200 MHz



Standardized Bands (S-Band and L-Band) - ensuring access to spectrum for IoT



Spectrum requirements - Just 1MHz UL and DL



To unlock innovation:

- Encourage efficient use of frequencies
- Prevent spectrum warehousing
- Consider reserving small blocks for IoT



It is essential to promote **inclusive frameworks** that recognize and distinguish **IoT satellite standard technologies** to ensure their effective integration.

The main title of the advertisement, "A CONNECTED WORLD IS A BETTER WORLD". The words "A CONNECTED" and "WORLD" are in white, while "IS A BETTER" and "WORLD" are in orange. The text is centered and has a slight drop shadow. The background is a composite image of Earth from space, showing the Americas, and a network of white lines connecting various points across the globe, symbolizing global connectivity. A bright blue light streak curves across the upper right portion of the image.

A CONNECTED WORLD IS A BETTER WORLD