



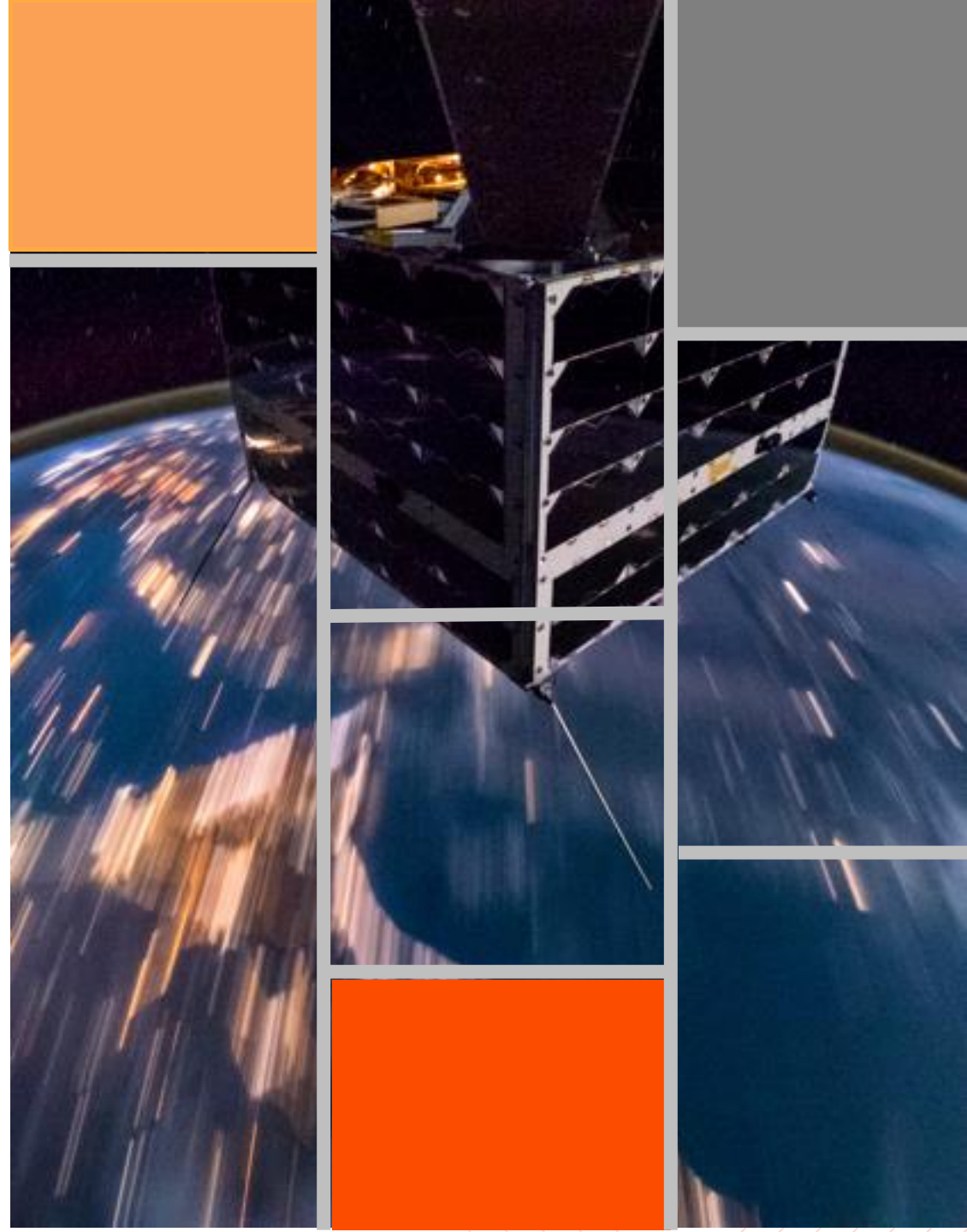
OQ Technology

The Direct-to-Device Impact on SatCom

OQ Technology today

The fastest growing 5G NB-IoT company worldwide

- OQ Technology is a Low Earth Orbit satellite operator
- The world's first LEO 5G IoT satcom company
- Global IoT and M2M satcom solutions
- Multi-Industry: energy, mining, logistics, maritime, agriculture
- Our patented technology facilitates IoT connectivity anywhere for billions of users, leveraging existing 5G IoT chips and integrating both terrestrial and satellite networks



About OQ Technology

Only European player in the market



Founded in
2016



HQ in Luxembourg
KSA, Greece, UAE, Rwanda



Global coverage: 10
satellites in orbit



International
partnerships and
customers



20+ 3GPP
contributions
made
One standard
3GPP – 5G NB-
IoT / NTN Rel. 17



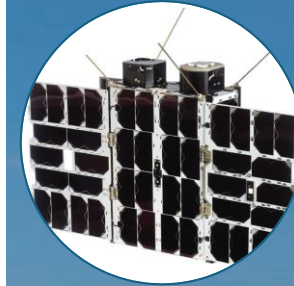
9 Patents granted in
EU & US



Notified OQ own
ITU filings –
Licensed
spectrum and
landing rights



€ 20 Million Funding
raised up to date



Awards and Recognitions

Recognized Leader in the 5G Satellite Industry



NOKIA

Winner Nokia Open Innovation Challenge 2017



Mobile Satellite Newspace Award 2024



ARAMCO Space Age 2024 Award



Space Tech Solution of the Year 2021



Middle East Technology Excellence Award 2023



Top 10 Startups in Luxembourg



Top 11 Innovative Startups in Europe in New Space 2025



EIC Accelerator Winner 2024 (Blended Finance)



Our Leadership Team

Experts from Satellite & Telecom Industries



Mr. Prasanna Nagarajan - CIO



Mr. Omar Qaise - Founder & CEO



Mr. Cyril Dufoing - CTO



Ms. Marwah Naseem – COO



Mr. Hugo Alvarez –
Technical Product Manager



Mr. Christoph Limmer –
VP Commercial



Mr. Michael Haller - CFO

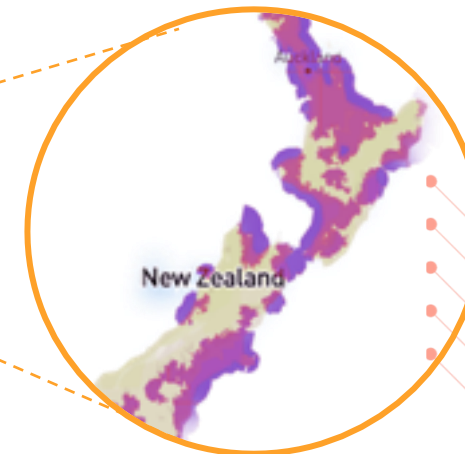
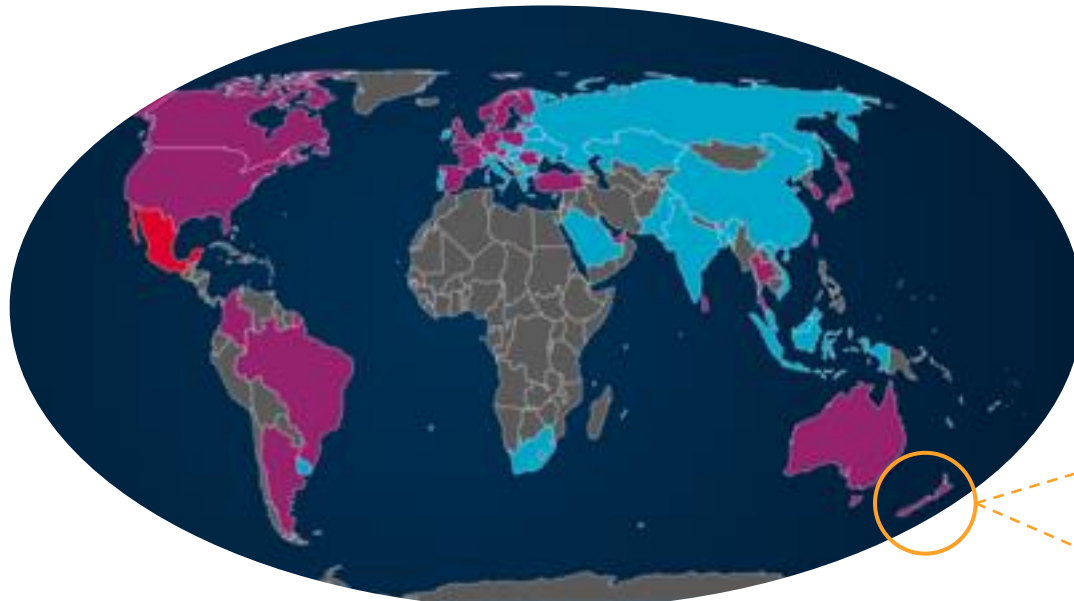
Today's IOT Networks Have Limitations

CELLULAR is limited

- Cellular covers <20% of the world. *
- Fragmented
- Rural coverage gaps
- No roaming
- No mobility

SATELLITE IoT not viable.

- Bulky and Power-hungry
- Hardware & Connectivity VERY EXPENSIVE
- Non-Cellular Standard / Proprietary
- No indoor reach



* Source: GSMA, 2021

The Unconnected



5.61
BILLION

1.0 \$
TRILLION



750
MILLION

20 %
COVERAGE



2.5
BILLION

31%
OF
POPULATION



50%
FATALTY
REDUCTION



5 American
Players
Vs.
?? European
Players

Problem / Solution Overview

OQ Technology enables sustainable growth to vital industries

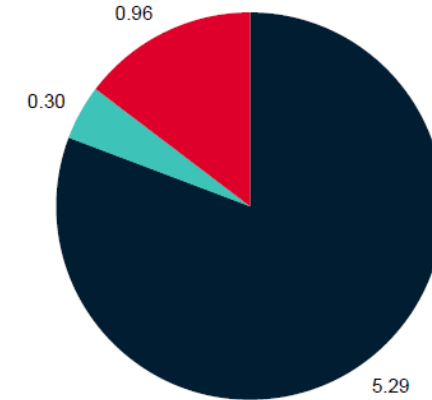
Problem:

- 80% of the world has no mobile coverage
- Limited sustainable growth for vital sectors such as logistics, energy, agritech and utilities without connectivity

Solution:

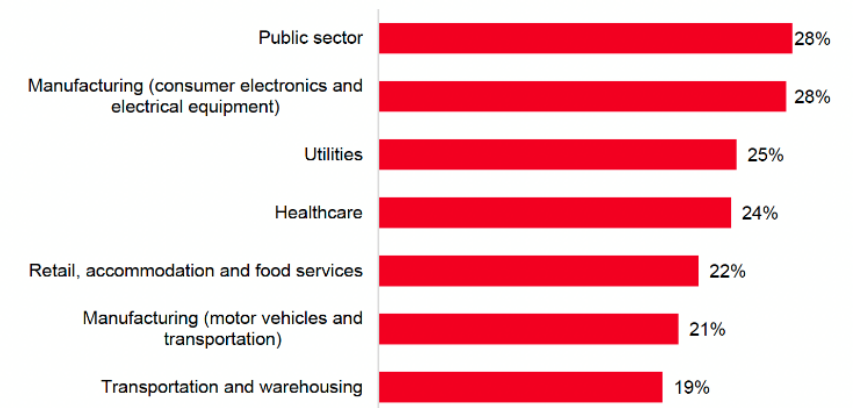
- OQ is a comprehensive solution providing full coverage (4G/5G) connectivity in offering a global roaming service for all applications based on a LEO constellation of satellites
- Billion of devices can be accommodated on OQ's network with a truly global coverage, no gaps, ultra-low & ultra-reliable latency

Billion



■ Unique mobile subscribers ■ No phone (coverage barrier) ■ No phone (other barriers)

Note: Data as of 2021
Source: GSMA Intelligence



N=2,900
Source: GSMA Intelligence Enterprise in Focus Survey 2021

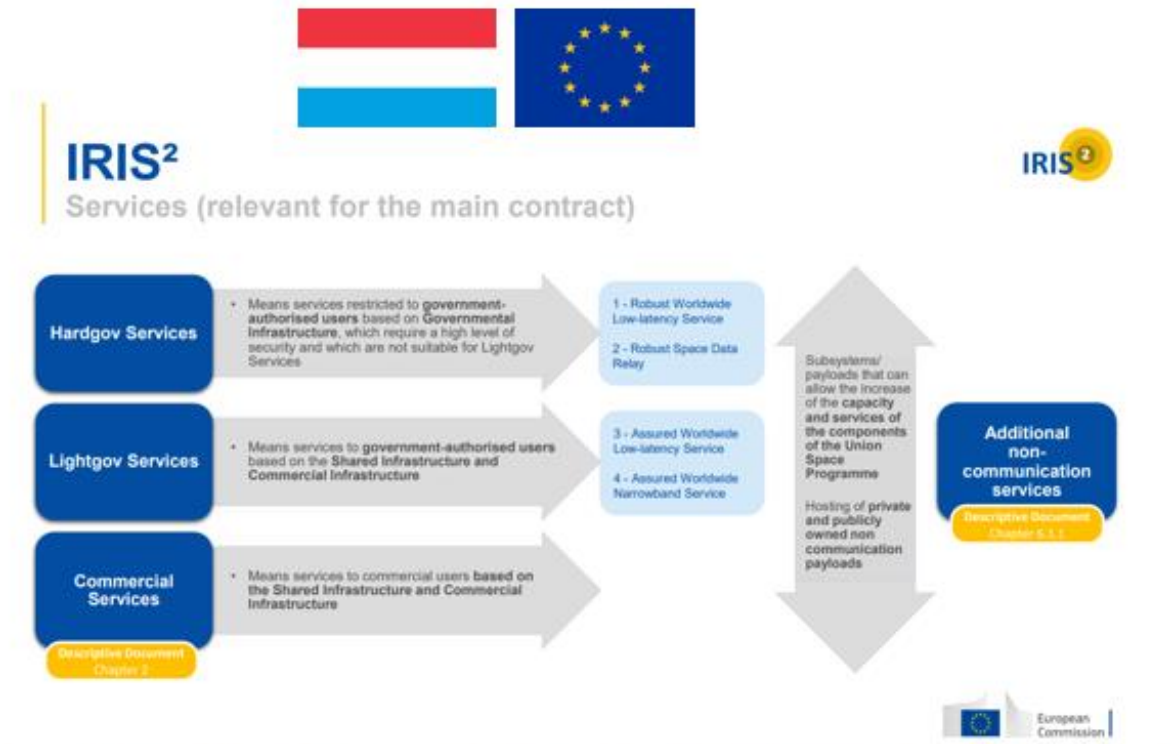
The Need We Address

There is a clear lack of European player in the Market



The collage features several news articles from SpaceNews and other sources, all highlighting American companies and their satellite-based services. The articles include: 'EchoStar teams up with Astro Digital to build satellite-based 5G network', 'SpaceX and T-Mobile partner for direct-to-cellphone satellite service', 'Iridium and Qualcomm to bring satellite connectivity to smartphones this year', 'Bullitt unveils satellite-enabled Android smartphones', 'AT&T-backed satellite can pick up regular phone signals from space', 'Apple to be largest user of Globalstar's satellite network for iPhone messaging', and 'Lynk Completes Satellite-to-Phone Connectivity Demonstration'. The collage also includes the American flag.

The Global market is only dominated by American players today.



OQ Technology, with its operational constellation, is already well positioned in the Market to address EU driven initiatives such as the IRIS².

The OQ ONE SOLUTION

➔ ONE NETWORK

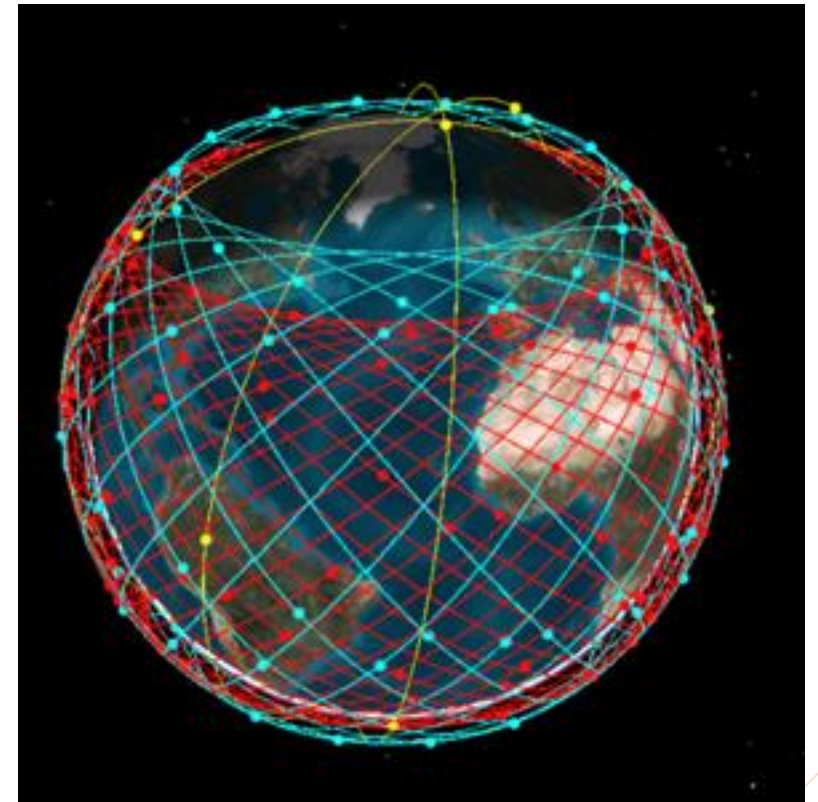
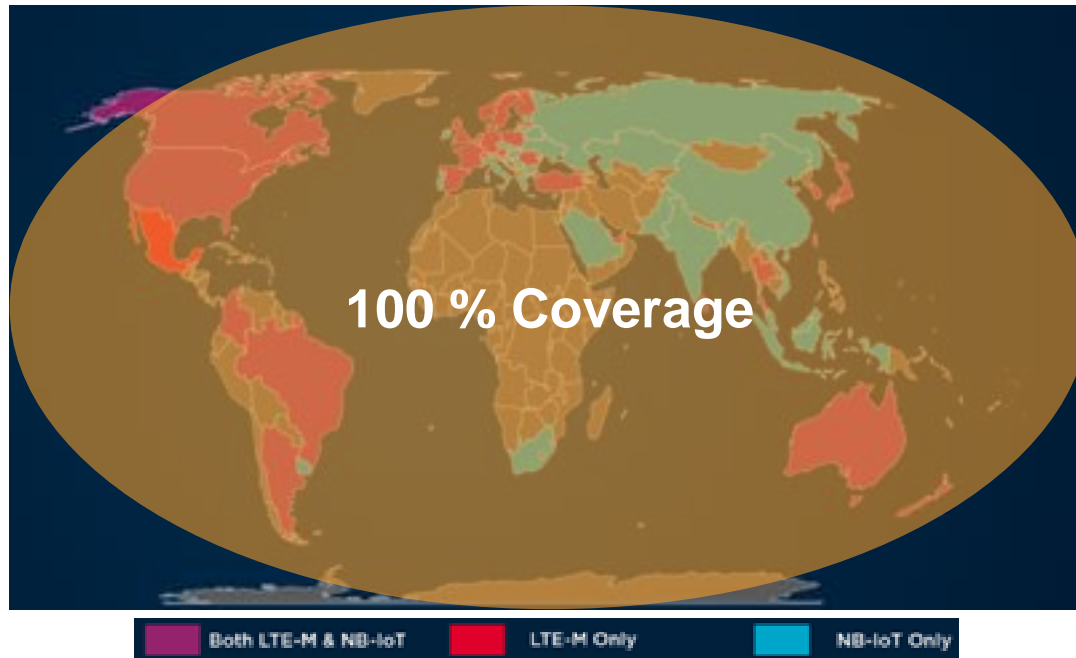
TRULY GLOBAL COVERAGE ↔ NO COVERAGE GAPS ↔ ULTRA-LOW, ULTRA-RELIABLE LATENCY

➔ ONE SIM

GLOBAL ROAMING ↔ NO FRAGMENTED NETWORKS ↔ OPERATIONALLY SIMPLE

➔ ONE STANDARD

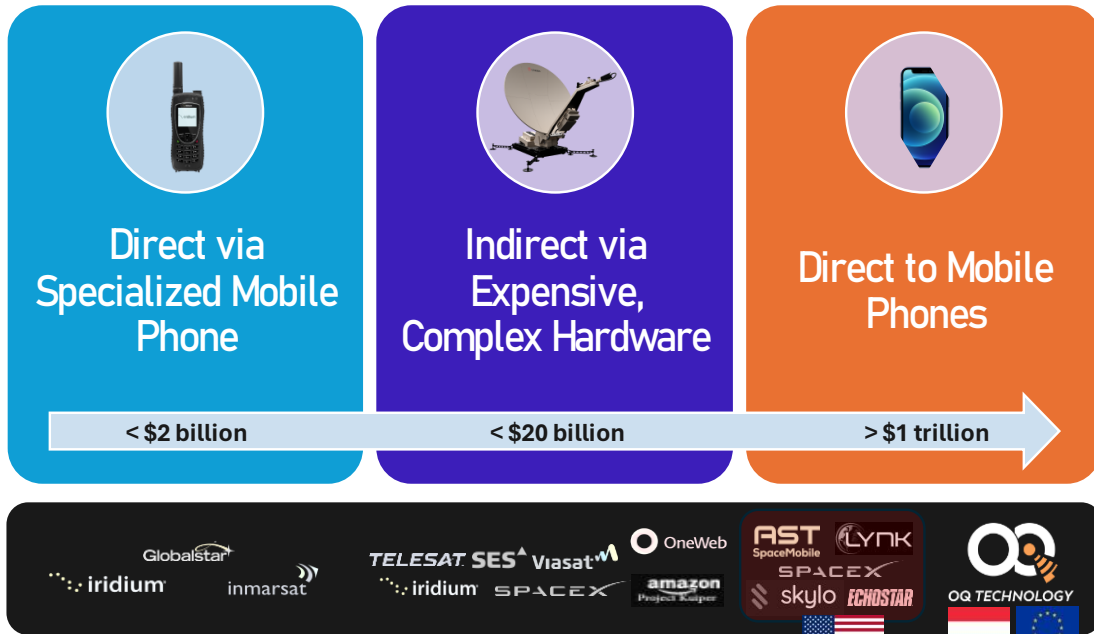
CELLULAR 5G 3GPP COMPATIBLE ↔ WHOLESALE MNO MODEL



Market Opportunity

Satellite Connectivity market to reach US\$19.9 billion by 2035

- OQ Technology is already well positioned to address the Satellite IoT Direct-to-Device market **as of 2024** with its 10 satellites in orbit.



- OQ Technology is the only European Player, while market is filled by American players.
- Important for European Sovereignty.

TAM: Global Telecom market \$1 Trillion

SAM: Satellite direct to mobile device \$66.8B in 2035



Value Proposition

OQ Technology Advantages



3GPP Standards:

- Players following the 3rd Generation Partnership Project standard of 5G.
- Any 3GPP-compliant device with NTN capabilities can connect to OQ Technology's network. Free from proprietary lock-ins, allows **scalability and easy integration**.
- OQ has more than 14 contributions to 3GPP NTN standards



Patents:

- OQ Technology has been **granted 9 NTN Patents** (more in progress)
- Patents are part of company's IP strategy, encompassing hardware and software as well as payloads
- Protection and barrier to entry
- **OQ patent claims map into the 3GPP NTN standard**



Operating on Regulated 5G Spectrum:

- OQ has **notified and brought-into-use own ITU spectrum filings** allowing the system to be used for premium enterprise, controlled applications that require high reliability and service quality without leasing expensive spectrum



First-Mover Advantage:

- OQ Technology boasts significant licenses & landing rights across Asia, Africa, Australia, and Europe. Licensing initiatives for the Americas are in progress
- OQ has the first-mover advantage having **de-risked the technology and business since 2016**.

Target Market Segments & Use cases

Offsite Industry Workers



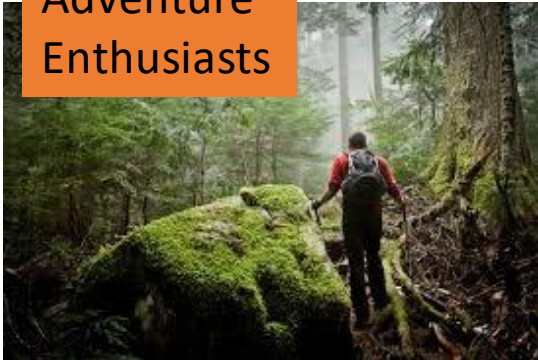
First Responders



Defense



Adventure Enthusiasts



MNOs / MVNOs



The Unconnected



Disaster Relief



Maritime



Agritech



Partnership Testimonial

LEO Satellite IoT Case Study: <https://rb.gy/p53eb>

“ OQ Technology successfully transmitted sensor data, including temperature, humidity, and CO2 emissions, from a remote oil wellhead to Aramco headquarters. OQ is currently establishing a global subsidiary in Saudi Arabia, which will become the only 5G space network operations center in the Middle East ”.

Mr. Nabil Al Nuaim - Aramco's SVP of Digital & Information Technology



وزارة الطاقة
MINISTRY OF ENERGY



هيئة الاتصالات والفضاء والتقنية
Communications, Space &
Technology Commission

أرامكو السعودية
saudi aramco



Broad Impact

Inclusivity



Reliable communications to remote and underserved areas
Bridging the digital divide, with **3.5 billion** people still **unconnected**
Empowering communities with access to essential info

Emergency Services



Enabling SMS or SOS signals through satellites.
public safety & lives saving
Broadcast important information during disasters to be used as

Green Planet



Reduce the need for terrestrial infrastructure development
Minimize environmental disruption in sensitive ecosystems
Remote resource management

UN SDGs



SDG 9 Provide innovative space/telecom solutions and 3GPP contributions
SDG 11 Ensure inclusivity through messaging & emergency services
SDG 17 Establish European & Global partnerships (in Germany o2 Telefonica)

EU Programs



Digital Europe through extending advanced satcom services to underserved areas
European Green Deal emphasize sustainability and environmental responsibility
Horizon Europe R&D for future 3GPP advanced satcom solutions (such as 5G broadband NR).

Job Creation



Create jobs in satellite development, telecoms, 3GPP protocols, standards.
Foster innovation and economic growth in technology and emergency response sectors.

Challenges for NTN D2D

- Limited providers for 5G NTN software.
- Limited IoT Devices (Chipsets/Modules) available for LEO NTN
- Limited Smartphone availability for NTN that are NTN compatible.
- Direct-to-Device for current generation UE's require non-standard modifications of the NR stack.
- High CAPEX drivers for NTN Infrastructure – New Market – Requires Investments



@oqttec



@oqtechnology



oqttec.com



Thank You
www.oqttec.com

