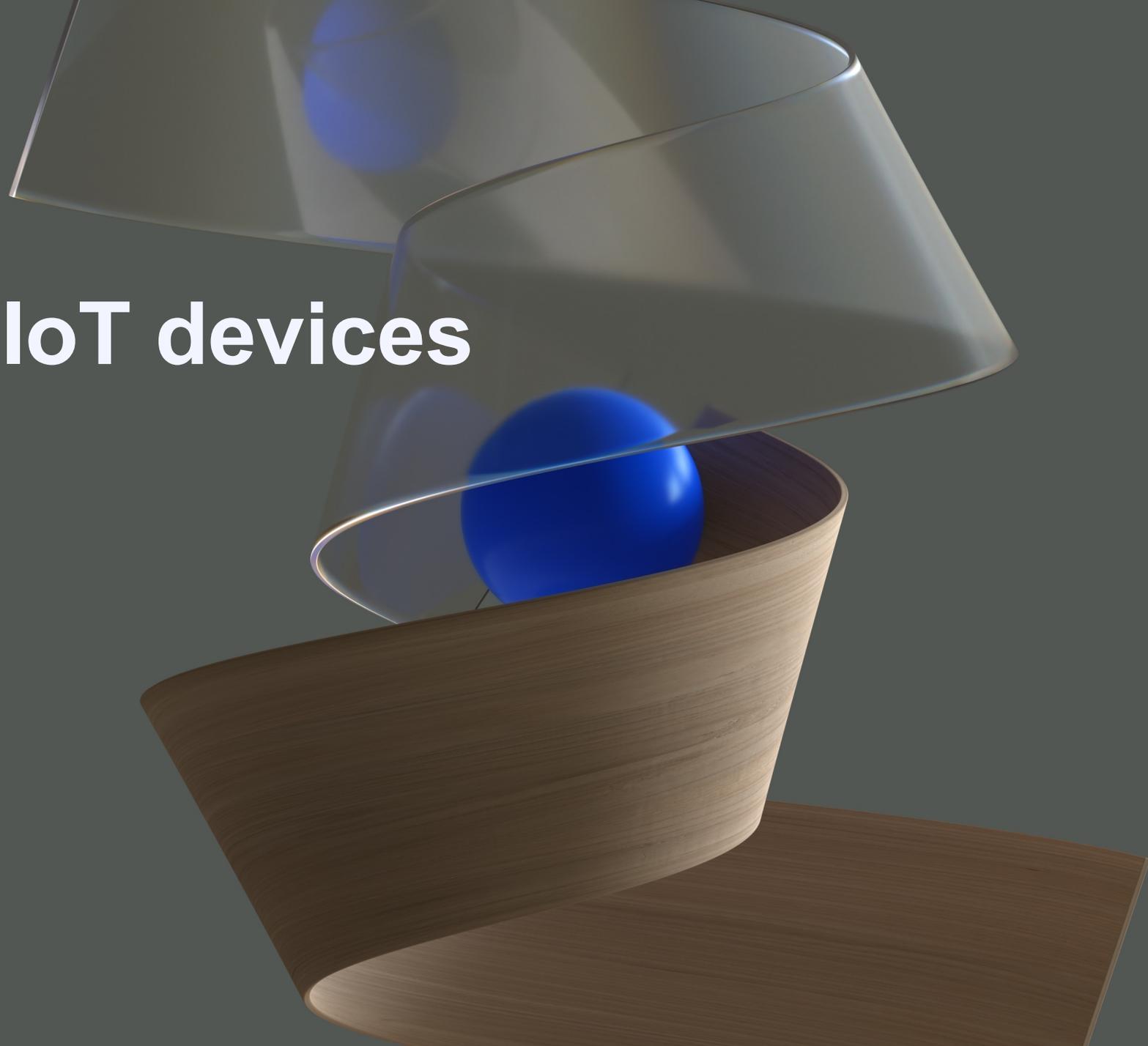


Connecting 5G IoT devices from space

MWC 2023

MAKING
THINGS
HAPPEN



Satellite communications have always played an important role

Satellite communications offer advantages over traditional terrestrial communication systems:

Communication in remote areas

Less vulnerable to natural disasters

Enabling communications impossible to achieve with other communication technologies

Weather forecasting

Leveraging different solutions for different use cases



Satellite industry is **evolving**



Smaller and more efficient



satellites
Lower cost

New applications for satellite

We are immersed in an authentic IoT revolution



Digital transformation

Increased demand for IoT solutions



New technologies 5G & LPWA

Enabling new use cases

IoT
Massification

Thanks to our connectivity capabilities, we have already connected more than 50M of devices around the world



Use cases emerging are not covered by terrestrial IoT connectivity

Clients face challenges with current satellite deployments



Ownership
cost



Device
management



Connectivity
Management



Telefónica Tech and Sateliot have collaborated to develop an innovative solution





The solution



**3GPP Standard
Protocol**



**Integrated natively
with KITE**



Global coverage

Our satellite connectivity solution

Responds to customer challenges



Same NB-IoT device for terrestrial and satellite networks: no new ad-hoc costly hardware needed.



Easy to manage using KITE as unique interface to manage all SIM base

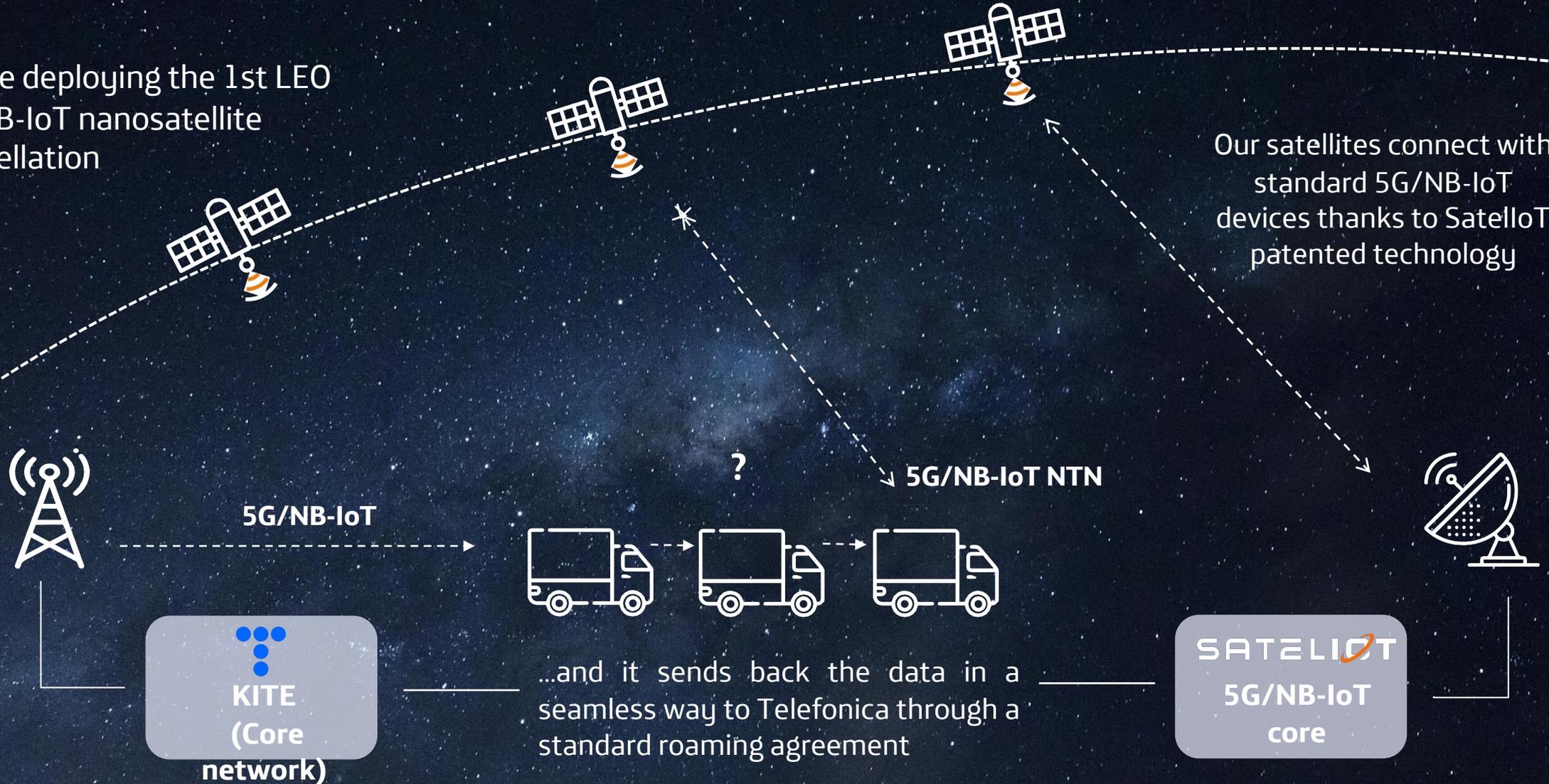


Ubiquitous, global, seamless coverage working simultaneously with terrestrial and satellite coverage.

Connecting from space with a standard low cost IoT device

We are deploying the 1st LEO 5G/NB-IoT nanosatellite constellation

Our satellites connect with standard 5G/NB-IoT devices thanks to SatelloT patented technology



Everywhere standard NB-IoT connectivity



A GLOBAL INITIATIVE

**Cellular
NB-IoT r.17**



**100% Planet
covered**



**Constellation
ramp up to 255
satellites**

Commercial Launch
December 2023

2023 – up to 6h delay

2025 - Real time

2024 – up to 30 mins
delay

To attend 5M lines demand on key verticals engaged on next 3 years



MARITIME



LIVESTOCK



**RENEWABLE
ENERGY**



CROPS



TRACKING & TELEMATICS

Summing-up



IoT massification

Demand is increasing as companies are emerged in a digital transformation and 5G&LPWA are enabling new use cases driving IoT massification and demanding coverage in places not covered by terrestrial networks.



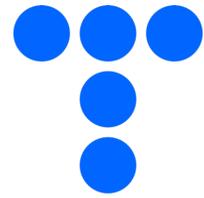
Satellite solutions

Satellite solutions until now had been entailing several challenges around cost and management for the customers



Telefonica and Sateliot solution

Telefonica and Sateliot have collaborated to develop a solution, to be available commercially this year: same NB-IoT device, easy management and global coverage.



Telefónica Tech