Seamless asset tracking using standards based terrestrial and satellite connectivity

Telemaco Melia

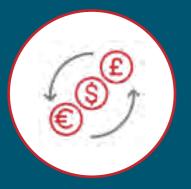


LoRa Alliance Member





# Commons concerns



**Expensive** 

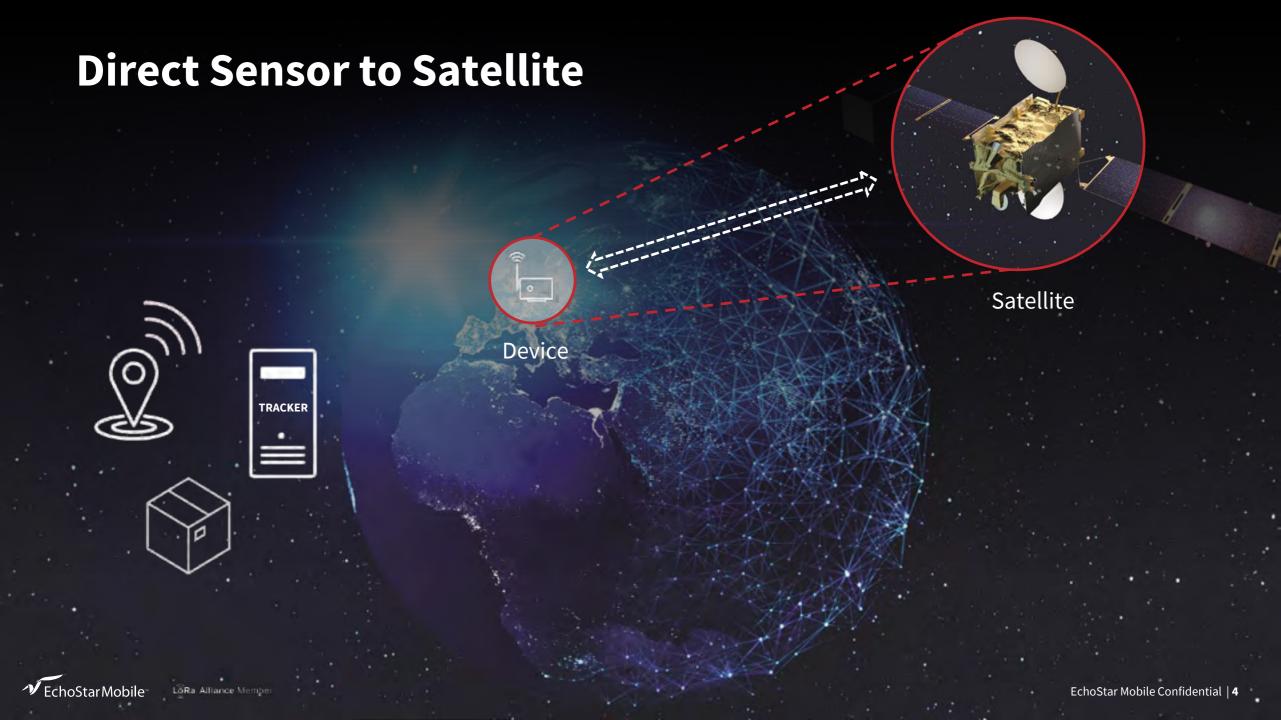


Complex



**Ecosystem** 





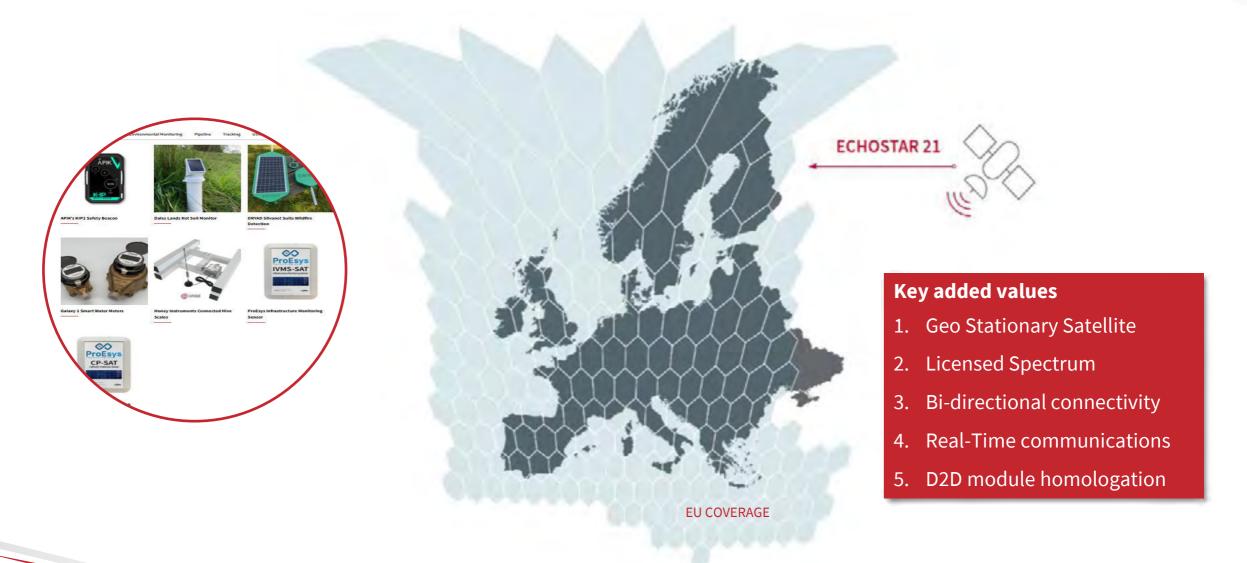
EchoStar Mobile operates the first pan-European IoT network for direct sensor to satellite communications based on LoRaWAN standard

In commercial operations from January 1<sup>st</sup>, 2023





### **EchoStar Mobile Commercial Service**



### **EM2050 Dual Mode Module: Satellite & Terrestrial**



Low power using LoRa®/LoRa®-FHSS modulation

Real time bi-directional connectivity

Based on latest Semtech radio chipset LR1120

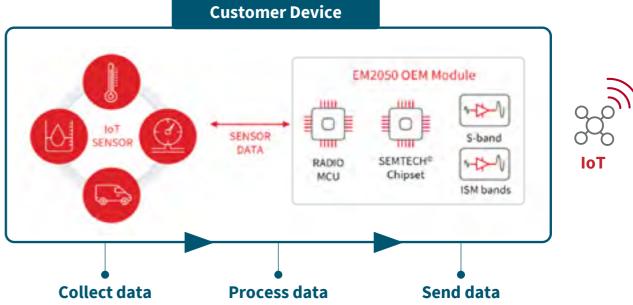
LoRa® satellite module on licensed S-Band (2GHz) @27 dBm

LoRa® terrestrial module on ISM bands

- EU868 @14 dBm
- US915 @22 dBm

Homologated for ETSI, UKCA, FCC and ISED Market







#### Challenge

- Expand or augment Industrial LoRaWAN® deployments
- Choose best connectivity as situations change

#### **Solution**

- EchoStar Mobile EM2050 LoRa® modules work in both satellite and terrestrial bands
- EM2050 switches connectivity on a as-needed-basis







## The EchoStar Mobile Advantage





## Demo time: asset tracking made easy



EM2050 module handles the satellite link No LoRa Gateway required Making a satellite enabled device is as simple as a terrestrial one Easy integration with legacy IoT platforms via API







Disruptive pricing model



LoRaWAN compatible



Ideal for asset tracking





EchoStar Mobile will be offering demonstration coverage of the US in Q1 2024

## **Breaking News**





For further information:

Please stop by our **booth D56** or contact info@echostarmobile.com



