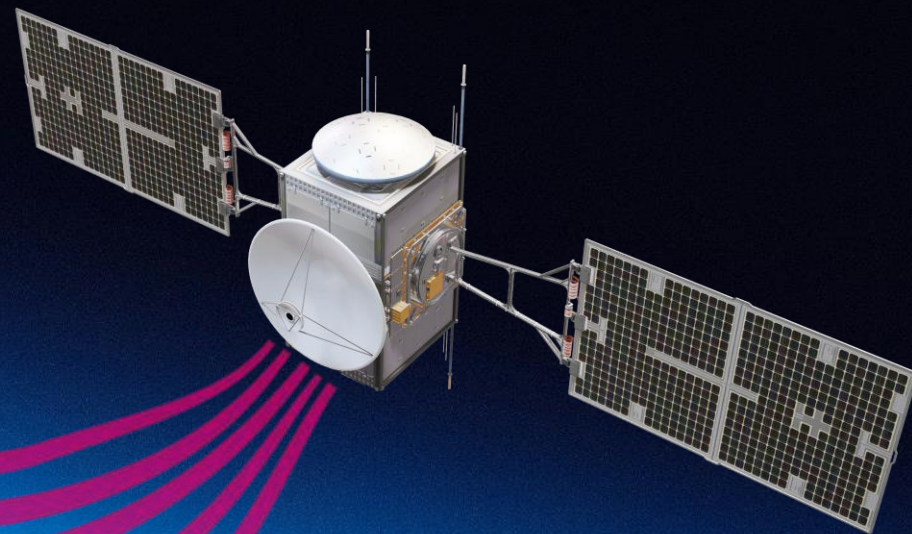


# Connecting Beyond the Horizon: Deutsche Telekom's Approach to Satellite IoT

c21-virtual Webinar, 30.04.2026

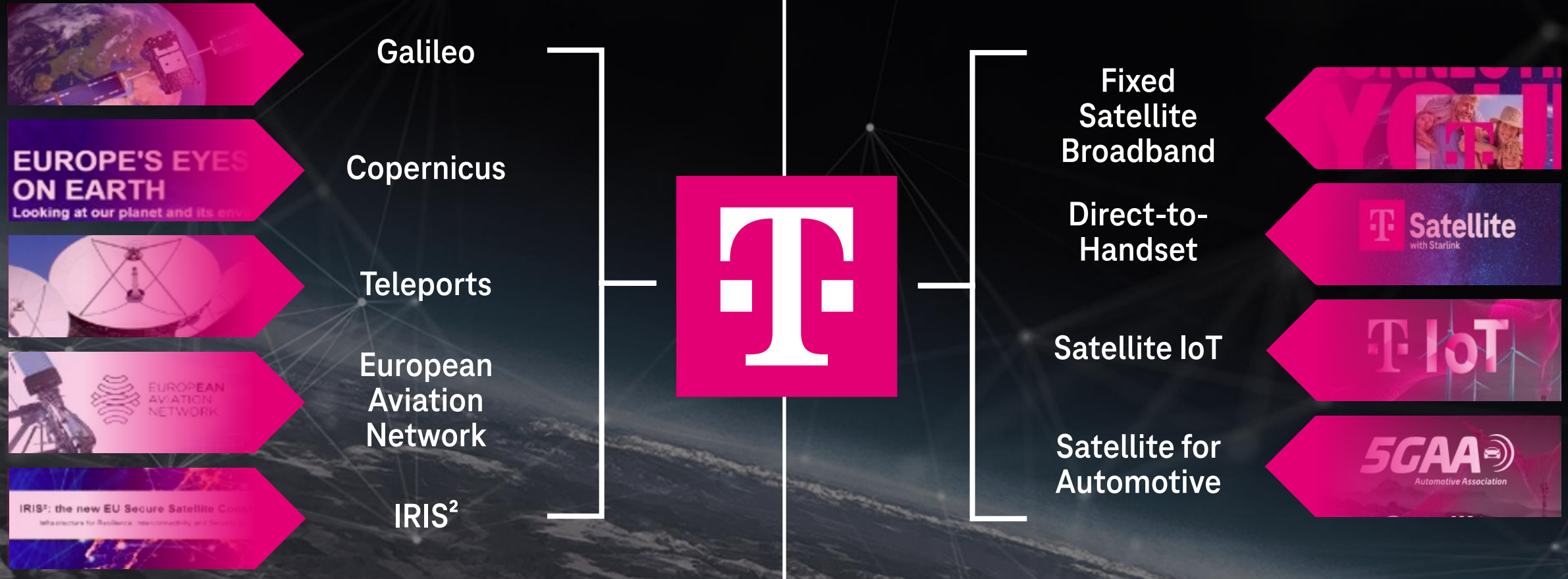


**T IoT**

# Deutsche Telekom in the Satellite Ecosystem

Deutsche Telekom operates across the full satellite value chain

UPSTREAM DOWNSTREAM



Research & Standardization with industry and science partners

# Deutsche Telekom's Upstream Services for the European Space Infrastructure



## Galileo Navigation System

MPLS data distribution network and IT services to manage core systems

*since 2010*

## Copernicus Data Access

Design and operation of infrastructure systems

*since 2012*

## Teleport / PoP Services

Two teleports with ground segment services for Satellite Operators (OTE Greece)

*since 1970*

## European Aviation Network (EAN)

LTE-based complementary ground network, fully integrated with Inmarsat's satellite network  
*since 2018*

## IRIS<sup>2</sup> EU Sat Constellation

Core team member of SpaceRISE consortium

*since 2023*

# Fixed Satellite Broadband: Satellite Internet Access



**Focus** segments: Large Enterprises & Public

## What We Launch

- DT Satellite Internet (powered by Starlink)
- Fixed & mobile use cases
- Standard DT offering

## What It Delivers

- High-speed, low-latency
- Up to 400 Mbps DL
- 20–60 ms latency

## How We Operate It

- Fully managed service
- End-to-end support
- Optional add-ons

**A new connectivity option  
for DT business customers.**  
(Launched 04/26)

# Direct-to-Handset: Starlink Satellite-to-Mobile



## What is it?

- Satellite-to-Mobile connectivity
- Operating in MSS spectrum

## What does it provide?

- NR-NTN based services
- Powered by Starlink Gen2

## Where is it available?

- Germany & European DT NatCos
- Reciprocal access via partner MNOs

**Seamless extension of cellular networks  
for smartphone users.**

# Satellite IoT Connectivity: Real-World Examples

Universal Asset Tracking



Environmental Monitoring



Remote Monitoring & Control



Livestock Tracking



Fleet Management



Food Container Tracking



AI-based Monitoring



Fill Level Monitoring



Maritime Tracking & Monitoring



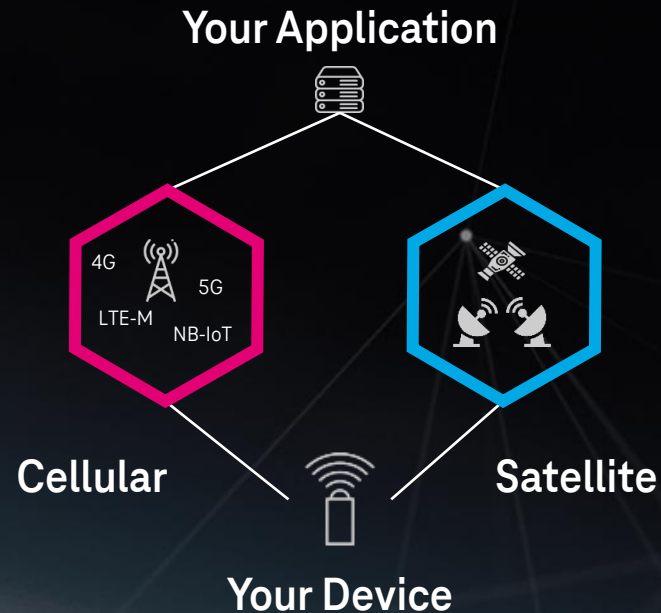
In-car Emergency Messaging



# Satellite IoT Connectivity: Full Coverage in Every Spot

## The Global IoT Connector

- **Converged connectivity** offering to connect any IoT device globally
- NB-IoT, LTE-M, 4G, 5G – terrestrial & non-terrestrial – all **integrated**
- Offering steadily extended by further partners & tariffs



## Converged connectivity

- ✓ One product & contract
- ✓ One delivery process
- ✓ One management platform
- ✓ One after-sales service
- ✓ One SIM
- ✓ One device



Q4/2026

# Satellite IoT Connectivity: Our Core Principles



**Integral part of connectivity**

Roaming extension of terrestrial offering  
– no separate product



**Global standards**

3GPP-compliant technologies only  
– no proprietary approaches



**Free satellite option**

Access satellite networks as regular feature  
– no extra subscription cost



**Per-per-use**

Only consumed satellite traffic is charged



**Best footprint**

Largest choice of multi-orbit NTN roaming partners, continuously extended

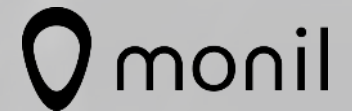
**Maximized terrestrial & non-terrestrial convergence**

# Multi-Orbit Early Adopter Program: Learning Together

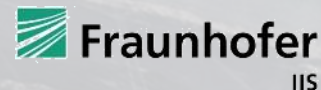
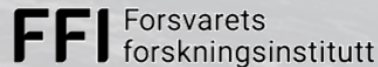
## Technology Partners



## Main Participants



## Research Group



# Multi-Orbit Trial Offering With Nordic Semiconductor

Free terrestrial and  
satellite connectivity

for 3 months

for testing and evaluation

included in every  
Nordic Semiconductor  
nRF9151-SMA-DK



Deutsche  
Telekom  
SIM  
included

Get in touch with us to  
learn more about **Multi-  
Orbit Satellite!**

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