



# TE IoT

## Satellite IoT

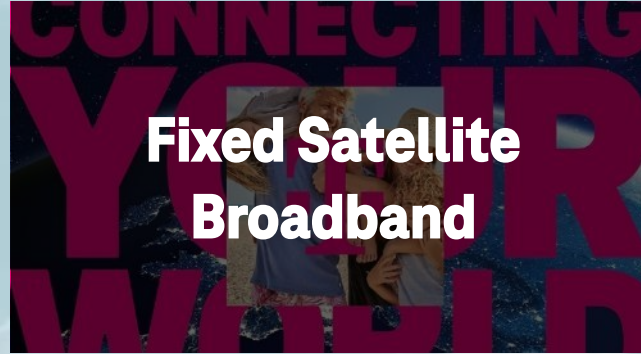
Full coverage in every spot

23/10/2025

**Deutsche Telekom IoT**  
connect. digitize. get ahead.



# Satellite Activities @ Deutsche Telekom



**Research Programs** with industry and science partners

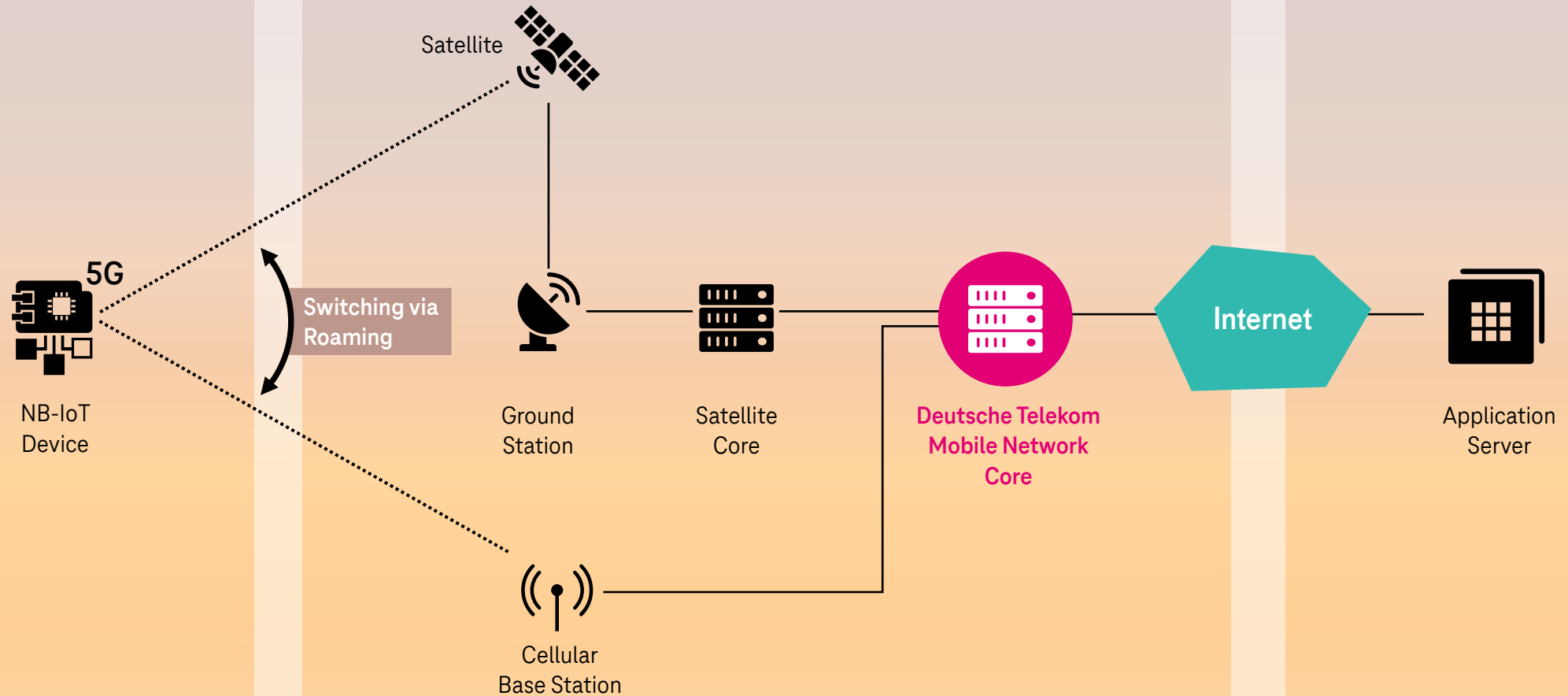
**Midstream**

(services for the space industry)

**Downstream**

(connectivity products)

# Deutsche Telekom offers converged NB-IoT



**ONE DEVICE**

**TWO WAYS OF CONNECTIVITY**

**ONE APPLICATION**

# Examples of existing use cases

## Transport & Logistics

Monitor freight and supply chains through real-time info — cargo location, condition and temperature



## Agriculture

Monitor crop and irrigation conditions to optimize crop growth and yields



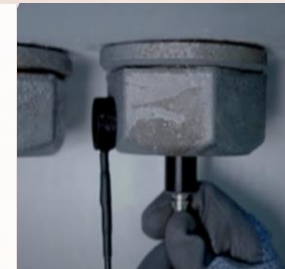
## Simple Remote Control

Control simple machines in remote areas



## Status & Emergency Messaging

Manage machinery and equipment with messaging applications



## Environmental Monitoring

Monitor environmental conditions such as air quality, water quality, forest fires and natural disasters



## Smart Sensors

Monitoring of installed system technology — all locations in *one* platform




**Typical NB-IoT use cases  
requiring satellite connectivity**

# IoT Business LPWA Satellite — Product Offering

IoT Business LPWA Tariff	
Radio technology	Multimode: NB-IoT, 2G, LTE-M, LTE
Pool volume	6.5 MB / month
Pool monitoring	Yearly
Geographic pool coverage	EU / EU+ (optionally N-AM)
Consumption outside pool	Pay-per-Use
SMS	Pay-per-Use per SMS (MO)
Voice	No support
Invoice	Lifetime Fee only
Contract term	1–10 years
Notice period	3 months
Contract extension	With initial term
Pricing	From <b>€2,70*</b> for 1 year per SIM



## Additional feature with LPWA Satellite<sup>2</sup>



Radio technology Satellite NB-IoT supported

Pay-per-use (Satellite NB-IoT):  
**€0.90\*/KB**

<sup>2</sup>only in combination with a contract term of 1 year (optionally with auto-renewal)

\*All prices are subject to VAT.

# There is more:




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Home > Networks > Sateliot and Nordic achieve a historic milestone

Friday 10 October, 2025

## Sateliot and Nordic achieve a historic milestone

A satellite in orbit above Earth, with solar panels and a large antenna dish.

[Read the full announcement here](#)

Sateliot and Nordic have achieved a world-first by connecting a standard 5G IoT device directly to a LEO satellite using 3GPP Release-17 NTN standards, with no hardware modifications required. This milestone demonstrates seamless interoperability between terrestrial and non-terrestrial networks, enabling true global IoT coverage. To scale this innovation, Sateliot – alongside other GSMA members – actively participates in the GSMA NTN Community, helping to define critical guidelines for roaming, interoperability, and certification, ensuring a consistent and reliable global IoT ecosystem.

Source: [www.gsma.com](http://www.gsma.com)

# New Product Extension: LEO NB-NTN



## Satellite NB-IoT (NB-NTN)

- Connections in cellular white spots
- Convergence: 1 module, 1 SIM, 1 platform
- Future-proof 5G standard (3GPP Rel. 17+)



OQ TECHNOLOGY



## Expanded roaming network

- More geographic coverage
- Additional use cases (LEO satellites)
- Higher resilience

# Multi-Orbit Satellite NB-IoT Early Adopter Program



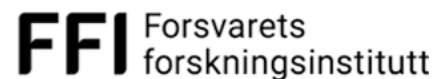
## Technology Partners



## Main Participants



## Research Group



# Deutsche Telekom Satellite IoT Roadmap

As of  
October 2025

