

Nokia Defense – Space and Devices

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The Nokia Defense logo is centered within a large white circular graphic on a teal background. The word "NOKIA" is written in a large, white, sans-serif font, with the "O" being a stylized circle. Below it, the word "DEFENSE" is written in a smaller, white, sans-serif font.

NOKIA
DEFENSE

5G and dual-use tech in the core of NATO's modern defense strategy



“ We must ensure that technologies shaping our future security, from Artificial Intelligence to quantum and 5G, reflect our values and reinforce our defense. Dual-use innovation is essential — our ability to harness civilian technologies for military applications will define our strategic advantage. ”

Jens Stoltenberg
NATO Secretary General, remarks at the NATO Public Forum, Vilnius Summit, July 2023.

“ Allies are advancing work on 5G, quantum-safe communication, and other emerging and dual-use technologies. These are critical to ensuring secure, resilient, and interoperable systems that support our operational and deterrence needs. ”

NATO Foreign Ministers' Communiqué, Brussels, April 2024.

Advanced, Secure, Interoperable Connectivity from National Infrastructure to Tactical Edge



Finland as Our Homebase, Strong European Footprint, and NFS as Our Trusted US Partner

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NOKIA
FEDERAL 



Nokia Federal - a trusted partner for U.S. Federal Government agencies with R&D and manufacturing in USA.

Furthermore, regional offices in Australia and Japan.



'Nokia Mission-Safe Phone'

Fit-for-Purpose Defense Smartphone

Built for security and resilience.

Engineered for communications in tough conditions.

Military standards for durability, encryption & operational efficiency.

Trusted choice for uncompromising performance.



Mil-STD-810H



NIST NATIONAL INSTITUTE OF
STANDARDS AND TECHNOLOGY
U.S. DEPARTMENT OF COMMERCE

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Tactical Outfit Accessories

Designed for **tactical efficiency**, this outfit features a **rugged, quick-connect system** that ensures seamless delivering reliable performance with minimal maintenance.

Engineered for **future-proof adaptability**, it supports evolving operational requirements, making it a dependable choice for mission-critical applications

16 Pins with SDK

Connect multiple outfits

Develop enterprise ready accessories

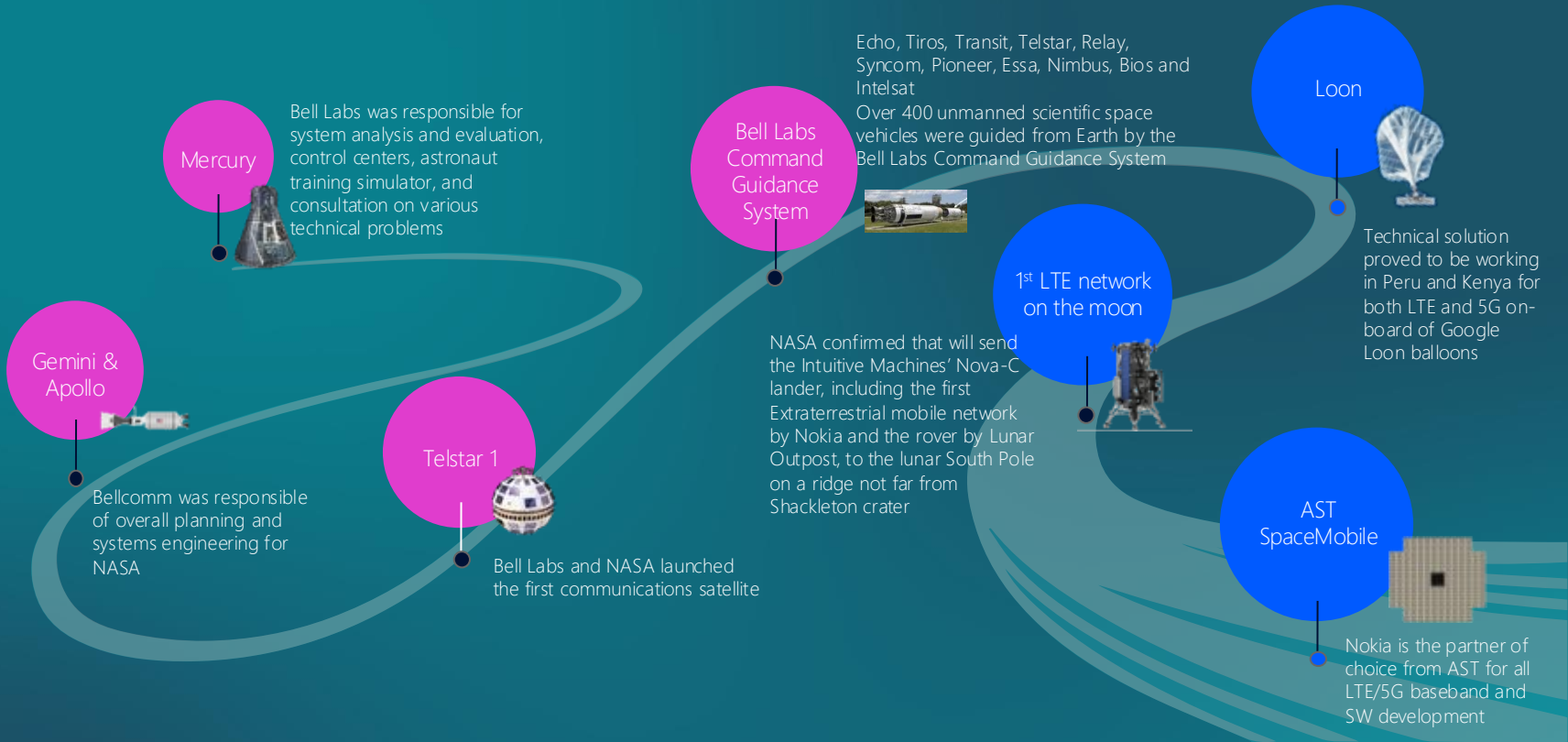
Up to 15W charging

USB 3.1

Connectivity modules:

- Side link
- LTE/5G 450Mhz module
- NTN / Satellite: 23, 255, 256
- Mesh

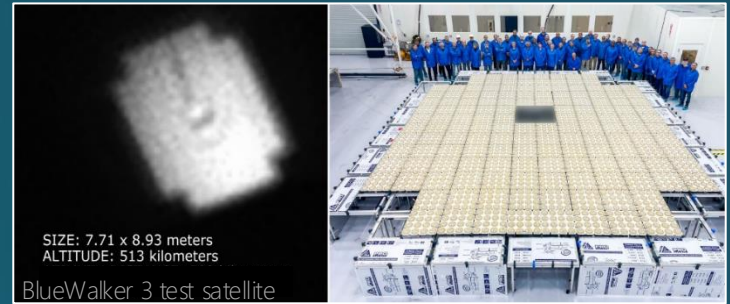
Nokia experience on space-based projects



Nokia approach on space

- Complement mobile broadband terrestrial coverage with direct to device
 - AST SpaceMobile as the lead project
- Active on standardization, research and consulting
- Opportunity led approach, leveraging existing assets

AST
SpaceMobile



NOKIA

Global coverage through
non-terrestrial networks

Enabling cellular network services everywhere

White paper



<https://www.nokia.com/asset/212761/>

Downlink

14 Mbps



Uplink

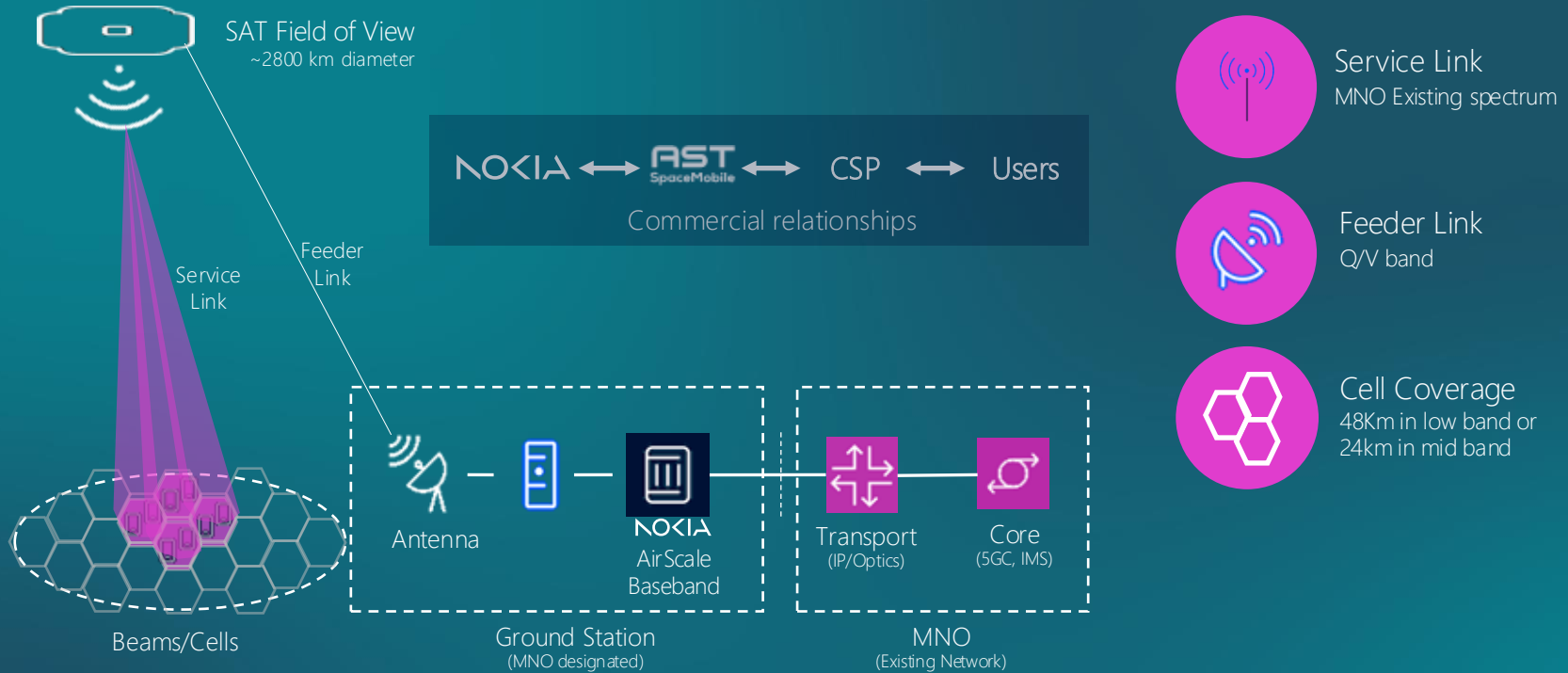
2.5 Mbps



Using commercial AT&T spectrum (5 MHz) and unmodified smartphone

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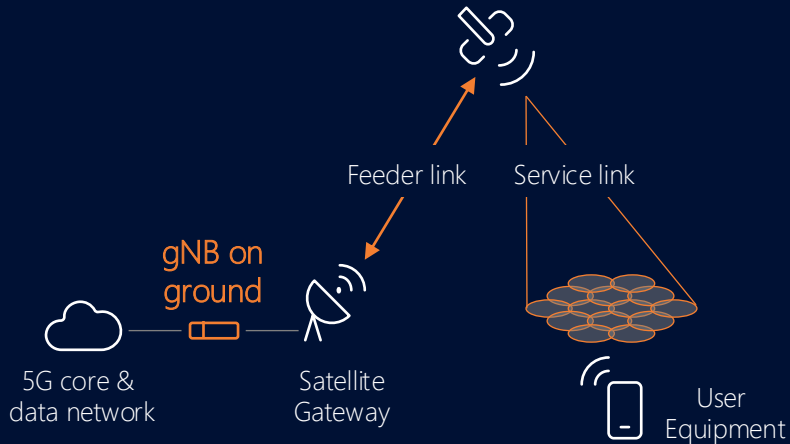
In collaboration, AST SpaceMobile and Nokia is building the first & only space-based cellular broadband network



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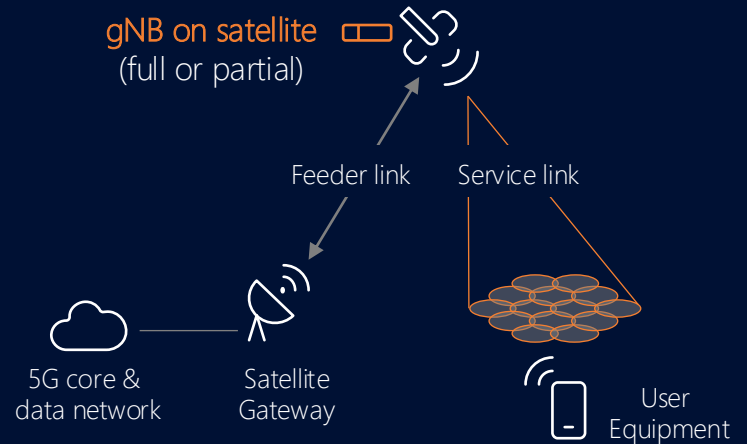
Two architectures can be used to support 3GPP NTN

Transparent architecture



- Low-complexity “relay” satellite
- Waveform independent
- No space-hardening of 3GPP equipment

Regenerative architecture



- Reduced control-plane delays
- Higher feeder link efficiency
- Inter-satellite links