

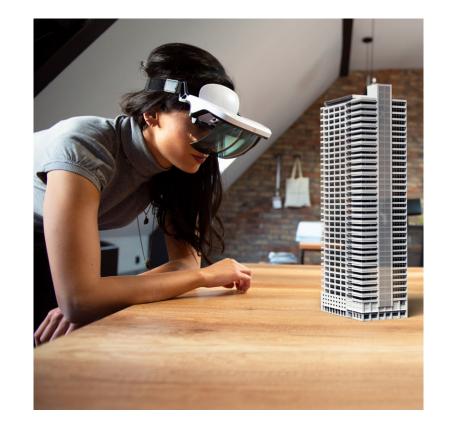
## Fiber-to-the-home becomes Fiber for Everything

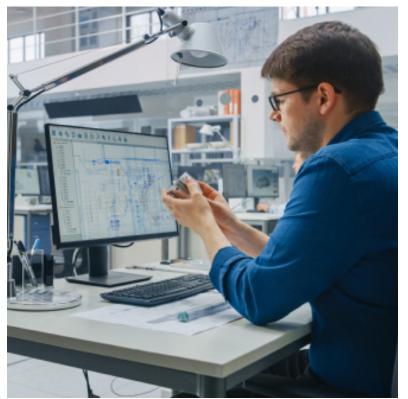
Fiber is the fastest and greenest broadband technology. And it's future-proof: once deployed, it lasts forever.

Today, fiber is everywhere. It passes every street, every building, stretching beyond cities into towns and across rural communities.

This makes fiber readily available to connect more than just homes: it can now be used to connect enterprises, Industry 4.0, 5G sites, smart cities, smart meters and much, much more.

Fiber-to-the-home is ready to become Fiber for Everything.













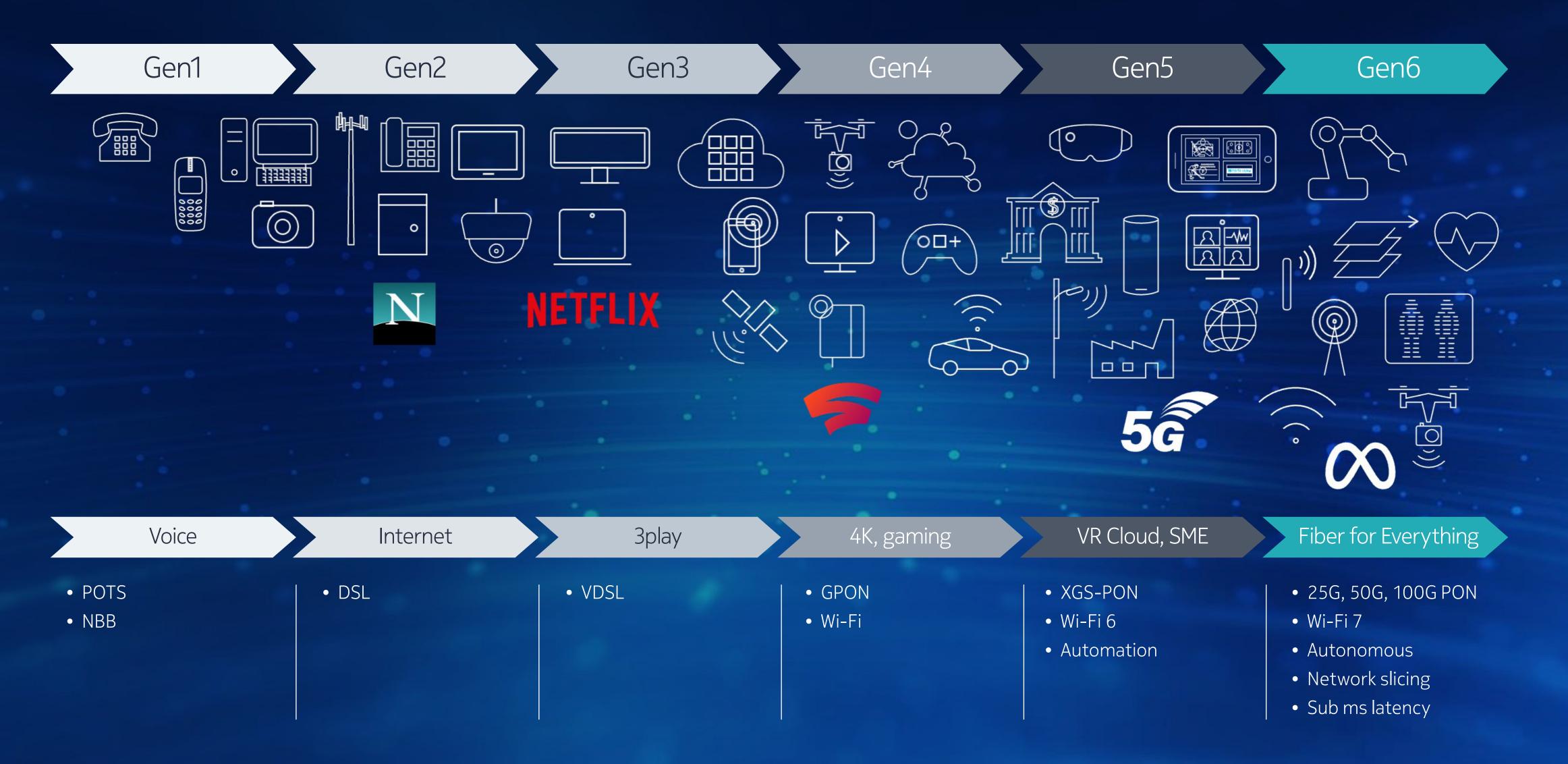






## On a path to Generation 6 broadband





### A disruption enabled by technology evolution



services on a single fiber infrastructure.

- 25G today
- 50G standard
- 100G demo



Massive connectivity requires SDN for automated operations and flexibility in managing multiple services.

- Automation
- Network slicing



#### Low latency

A growing number of applications require very low latency. Recent advances in PON technology ensure that these requirements are met.

- Sub-millisecond latency
- Industry 4.0
- 5G anyhaul



#### Reliability

Businesses and consumers depend on broadband. Fiber is robust, and new software and hardware approaches enhance reliability.

- Mission critical
- Minimum five-nines availability



#### Green

Fiber is the greenest way to deliver broadband. The more end points connected to fiber, the better it is for energy bills and the environment.

• 6-8 times lower carbon footprint than copper, coax or wireless



## Nokia Lightspan MF

The industry's first access node for Gen6 of broadband

#### **True Gen6 capacity**

4 times greater than Gen5

#### 25G-50G-100G

Ready for the future

#### No single point of failure

Six-nines availability

#### 20% greener

Than the industry average

#### Open & programmable

Open API for anyone to use

#### **Fast telemetry**

10x higher scale than Gen5

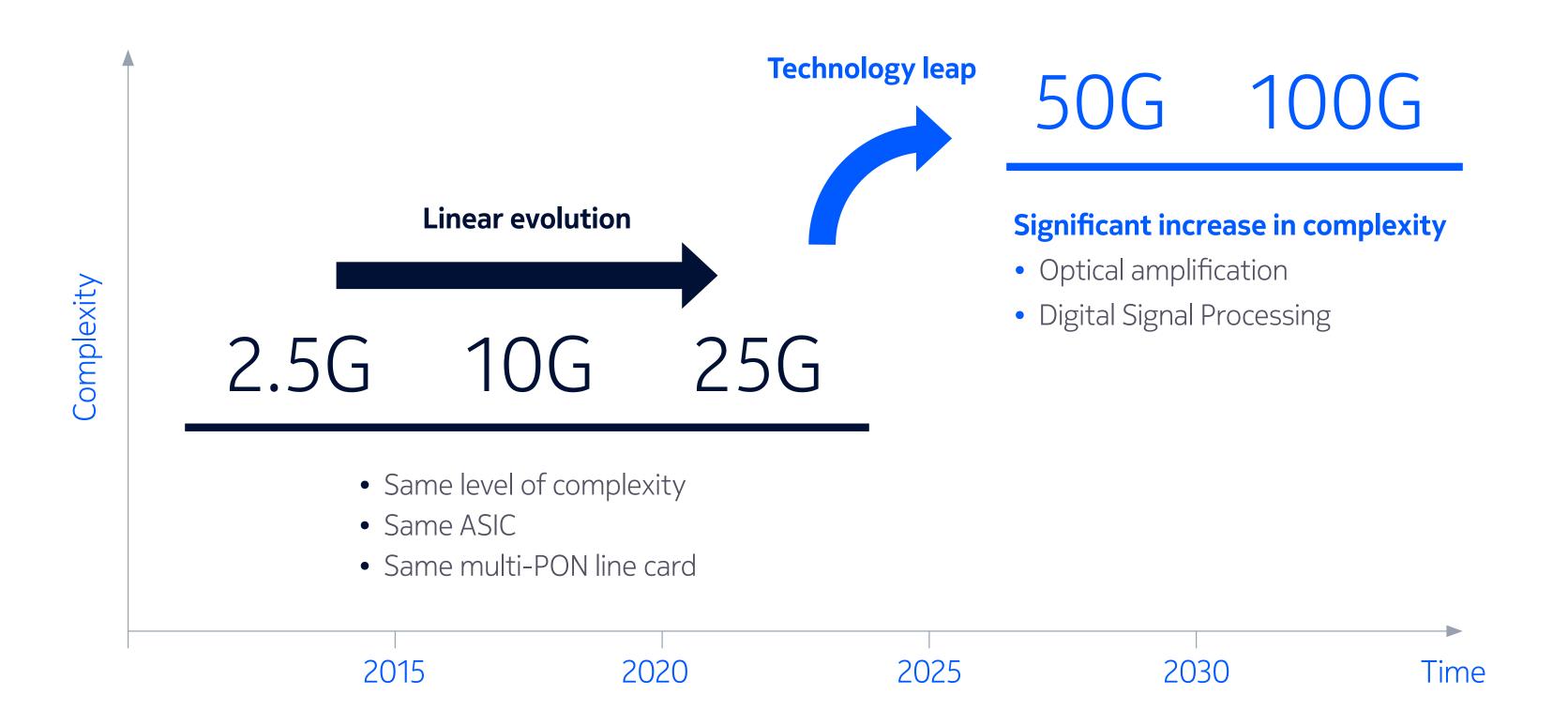
#### **Cloud controllable**

Automation SDN enabled

#### **Modular SW**

Agile to test and deploy

## Lightspan MF enables evolution based on cost, time, need



25G PON, 50G PON and beyond are the future of fiber. You choose a network technology for various reasons: cost, service focus, competition, business priorities, timing, or usually a combination of all these things.

Different flavors of PON help you diversify your service offering and compete more effectively.

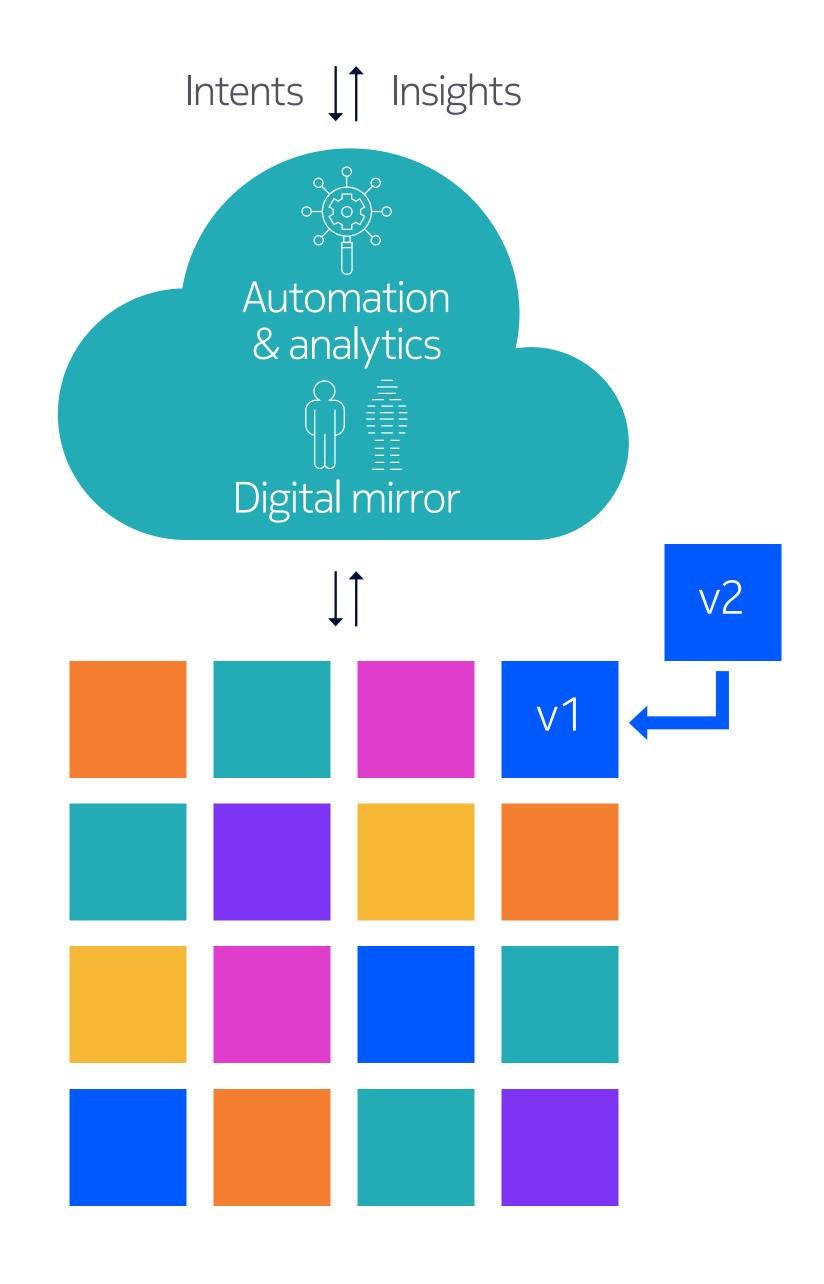
Lightspan MF is designed to support high-density 25G PON, 50G PON and beyond, enabling any evolution path that works for you.



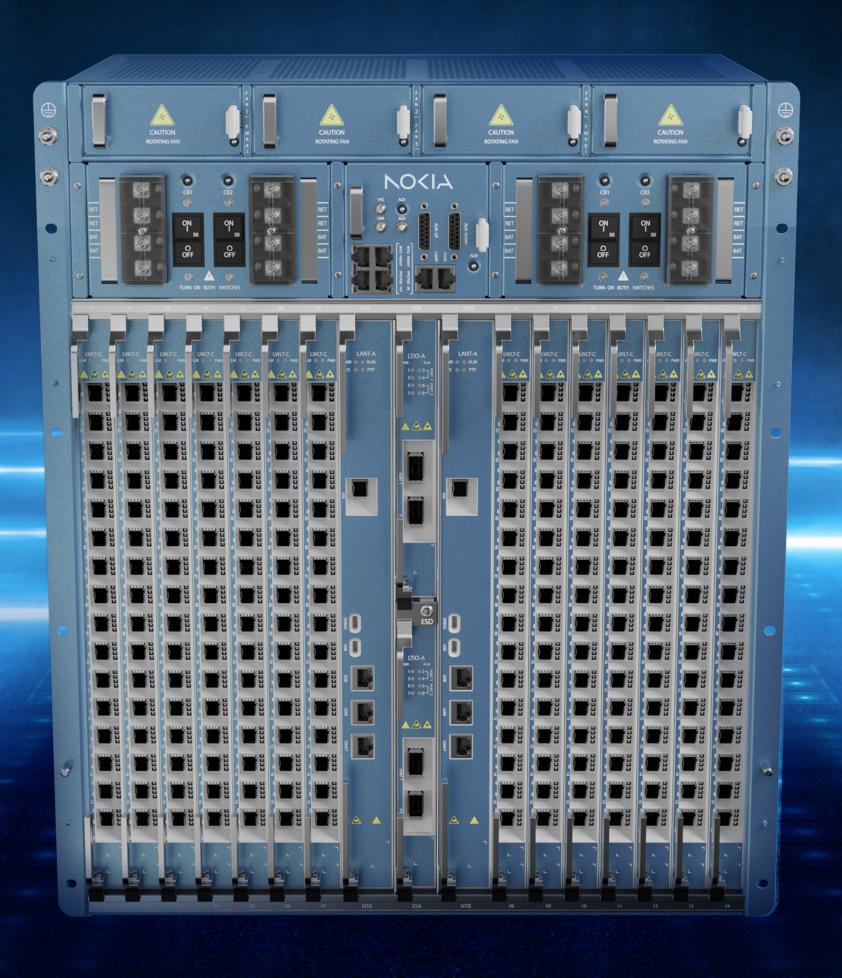
## New software architecture for more agility

- Open APIs for vendor-agnostic management and control
- Easy access to data for Nokia and 3rd party network applications
- Zero-touch automation with fewer inconsistencies and errors
- Selective modular software upgrades accelerate time-to-market and network innovation
- More powerful control and partitioning of node resources to support network slicing

Cloud-native SDN controller Modular network OS



## Lightspan MF brings future capabilities – today

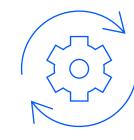




Start with a premium platform that will support you for decades



Get more revenue with the first Fiber for Everything platform Capacity, reliability, low latency, network slicing



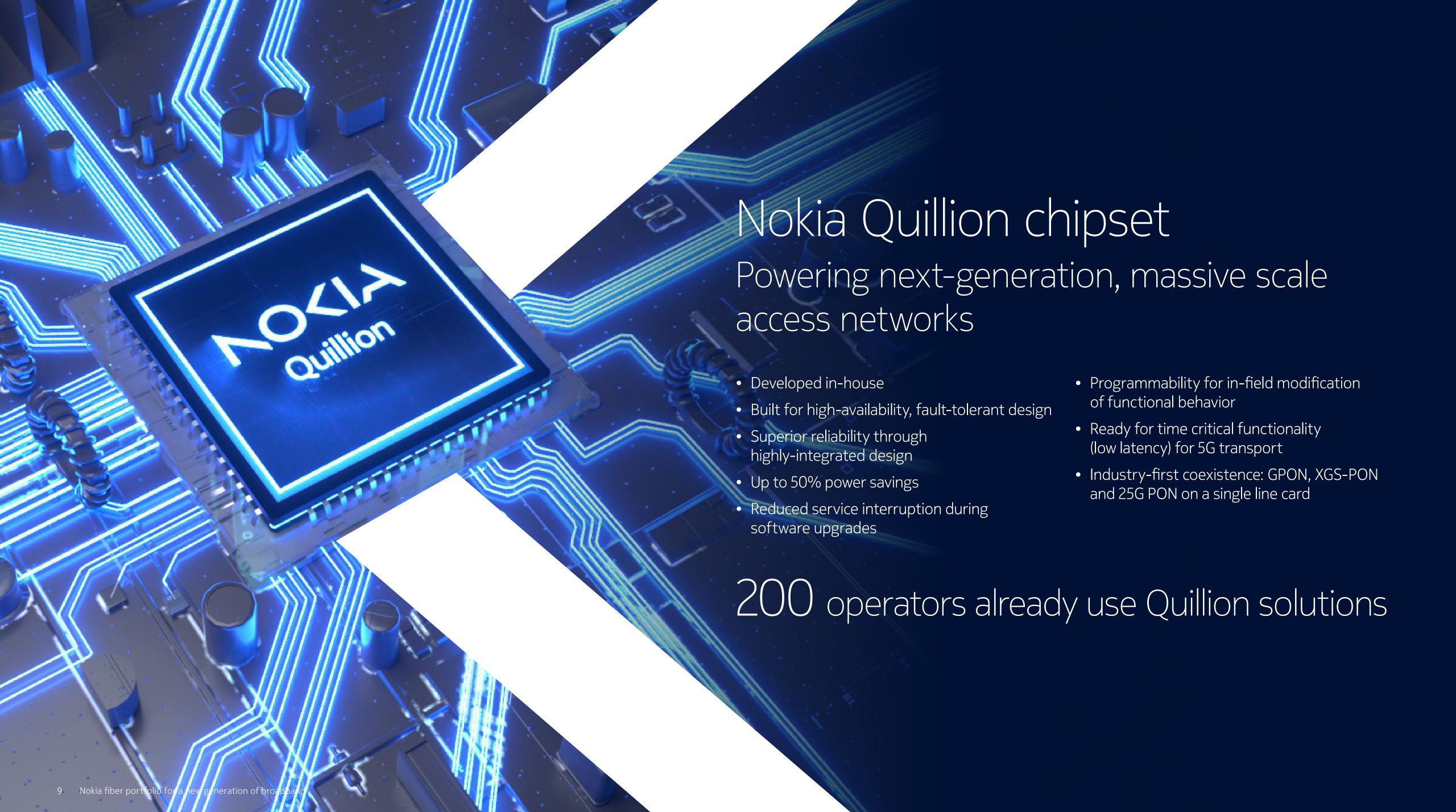
Excel in network operational efficiency

Fully programmable, disaggregated architecture, open and standardized



Stay ahead of energy targets

Two years ahead of the EU CoC today



## A disruption enabled by technology evolution

Common management across platforms Covering all hardware architectures: chassis-based or disaggregated Optimized for all deployments: central office, cabinet, remote







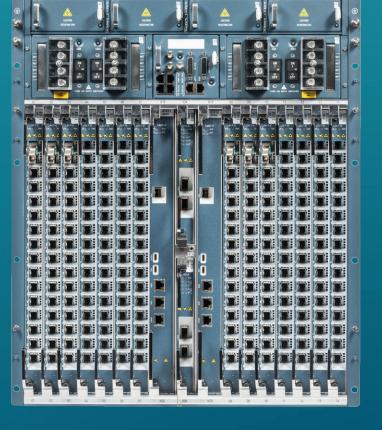












FX-16

FX-8

**FX-4** 

SF-8M

DF-16GM

DF-32GM

MF-2

MF-14

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At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering the future where networks meet cloud to realize the full potential of digital in every industry.

Through networks that sense, think and act, we work with our customers and partners to create the digital services and applications of the future.

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