

Partner with Nokia to deliver  
the world's best broadband

NOKIA





Nokia is a leader in broadband technology, trusted to bring broadband to life for the smallest communities, utilities and the largest network operators in the world.

## Technology

#1 ultra-broadband platform and technology

## Experience

Real-world experience in building Gigabit networks

## Expertise

Proven tools and processes for fast deployment and provisioning

# Powering the biggest, fastest and best-performing broadband networks in the world

Nokia is a global technology leader at the heart of our connected world. From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in virtual reality and smart cities, we are shaping the future of technology to transform the human experience.

We are the worldwide leader in fixed broadband technology. You may not know it, but our solutions power the biggest, fastest and best-performing fiber networks in the world. In fact, we are the only broadband technology vendor with a leading position in every region of the planet.

We connect millions of households and businesses around the world with our state of the art fiber-to-the-home (FTTH) solutions. All 20 of the world's biggest network operators trust us for their broadband networks, including AT&T, Verizon, Telefónica, Vodafone, Orange, China Telecom, and Deutsche Telekom.

But we're also trusted by small local providers, communities, utility companies and municipalities. We've partnered with many of them across the Americas, Europe and Asia to make ultra-broadband a reality for their communities and customers.

The fastest community broadband network in the US, Chattanooga's Gig City, relies on Nokia's fiber solution, as do Lus Fiber, Bristol, Tennessee, Opelika, Alabama and many others.



# A history of innovation

We've earned this trust over a 150-year period that combines the heritage of Nokia, Alcatel, Lucent and Bell Labs.

Our innovations span the history of communications. We invented telephony, lasers, transistors, and mobile phones, the ingredients of today's intelligent, secure, and reliable communications networks. Our inventions and solutions connect people and organizations across the planet, over land, under sea and through the air.

We create the technologies to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve governments, municipalities, defense and emergency service organizations, energy, transportation, large enterprises and communication service providers with the industry's most complete, end-to-end portfolio of products, services and consulting.

From the enabling infrastructure for cellular communications, fiber-to-the-home networks and the Internet of Things, to emerging applications in virtual reality and digital health, we are shaping the future of technology to transform the human experience.

A truly global company, we are 160 nationalities working in more than 100 countries. And we are here to stay.



# Leading the way in broadband

Nokia is a pioneer in broadband, with a long history of game-changing innovations. We were there at the early days of broadband, when we brought the world's first ADSL technology to market. We led the industry through the next stage: delivering ultra-broadband services worldwide with high-speed GPON and Vectoring. And we're at the forefront of the Gigabit broadband era: we're the first technology vendor to have Gigabit and even 10 Gigabit networks in commercial operation. Now, we're leading the way to massive scale access networks, enabling 5G transport and convergence of all services over one, high-capacity fiber infrastructure.

## Fiber leadership

- First with GPON, 10G PON, TWDM-PON and 25G PON
- Quillion chipset for high-density, low-latency PON solutions
- First fiber platform for the 5G world

## Supercharging copper

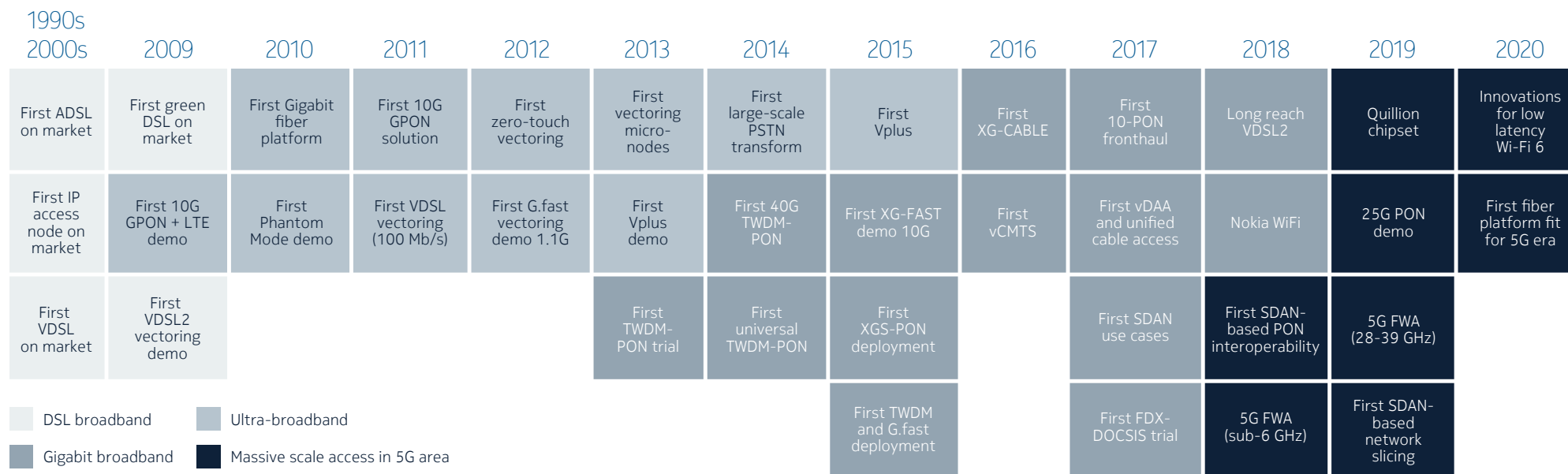
- Initiated copper revival with Vectoring innovation
- Fiber-like speeds at lower cost: Vplus, G.fast, MGfast
- Increasing operational efficiency with market-leading density, low power consumption, zero-touch operations

## Wi-Fi for future homes

- First end-to-end managed Wi-Fi
- Best-in-class algorithm for interference mitigation
- Low-latency Wi-Fi (L4S and Pi2)

## Virtualization and software-defined networking

- First with SDN-based PON interoperability
- First with SDN-based network slicing
- Simplest transition path on the market







## The technology leader

Our technological breakthroughs have been honored with 9 Nobel Prizes, 4 Turing Awards, 2 Grammys, 2 Emmys and 1 Oscar, among many other awards. Our broadband solutions regularly earn the industry's highest accolades and Nokia owns more than 15,000 patents, including almost 3,000 for fixed broadband technology.

But more important than these awards are the opportunities we create when we put our technology to work. Our mission in fixed broadband is to provide more bandwidth to more people, wherever they are. We want connections to be seamless, secure, from any device and any kind of network. We do this by providing lightning-fast, wireless and fixed broadband access, backed by our high-performance IP networking expertise.

# Working together to bring broadband to all

All this experience, all these innovations, and all this technology are at your service.

Unlock the social and economic benefits your community deserves with a cutting-edge ultra-broadband network. With market-leading solutions and professional services, we help you design, plan and deploy your network right first time. Give your community reliable value – and reliable broadband – for years to come.

With Nokia, your community broadband project is in safe hands.

**The #1 FTTH vendor in the US**  
and 100 million users worldwide  
– we can help you understand  
what your consumers need

**Trusted** by 20 out of 20 of the  
largest broadband operators in  
the world – you can trust us, too

**Our solutions will take you far:**  
ready for next-generation fiber  
and software-defined networks  
from day one

**Become a leader in broadband;**  
we were first with Gigabit and  
10 Gigabit networks in the US  
and the rest of the world

**Independently recognized**  
as the leader in broadband access,  
with the most competitive and  
comprehensive portfolio  
(Omdia 2020, Current Analysis 2020)

**Keep your community at the  
cutting edge;** we have 3,000  
fixed broadband patents and are  
consistently first-to-market with  
new technology



Nokia Oyj  
Karaportti 3  
02610 Espoo  
Finland

**nokia.com**

## About Nokia

We create the technology to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry's most complete, end-to-end portfolio of products, services and licensing.

From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in digital health, we are shaping the future of technology to transform the human experience. [networks.nokia.com](https://networks.nokia.com)

Nokia operates a policy of ongoing development and has made all reasonable efforts to ensure that the content of this document is adequate and free of material errors and omissions. Nokia assumes no responsibility for any inaccuracies in this document and reserves the right to change, modify, transfer, or otherwise revise this publication without notice.

Nokia is a registered trademark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or trade names of their respective owners.

© 2020 Nokia

Nokia Oyj  
Karaportti 3  
FI-02610 Espoo, Finland  
Tel. +358 (0) 10 44 88 00

Document code: SR2008046648EN (September) CID201287