

Mobile Networks at a glance

€64bn²

2016 primary addressable market

Revenue mix:

55% products

45% services

~52 000

professionals

~23 000

in R&D

~25 000

in Services

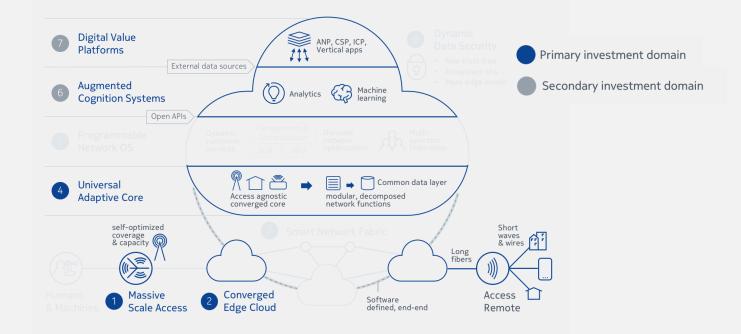
#1 LTE 1

#3 RAN ¹

#1 IMS/ Volte *, 2

#2 Small Cells ¹ (pico and micro)

#3 Services ²



Radio

- 4G / 4.5G / 4.9G / 5G
- Cloud RAN
- High performance
- Self-optimizing
- TCO optimization

Converged Core

- Telco Cloud infrastructure
- Cloud Service Core
- Agile network service capable

Advanced Mobile Networks Solutions

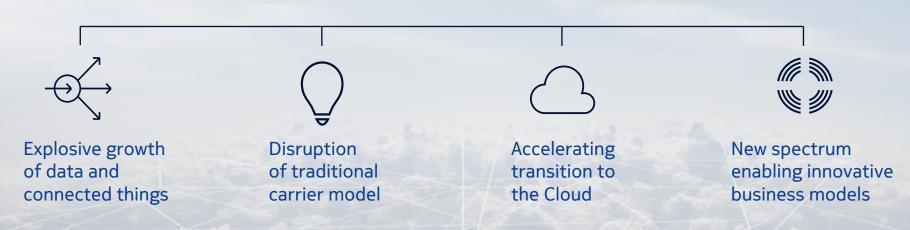
- Capacity & coverage with small cells
- Enterprise solutions
- Connnected IoT

Services

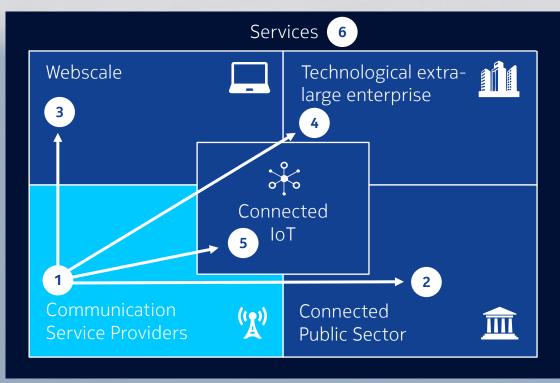
- Attached services
- Professional services
- Cloud and transformation services

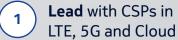
Traditional models are being disrupted, while new opportunities emerge

Key trends shaping the industry



Positioned to differentiate and lead in the evolving landscape



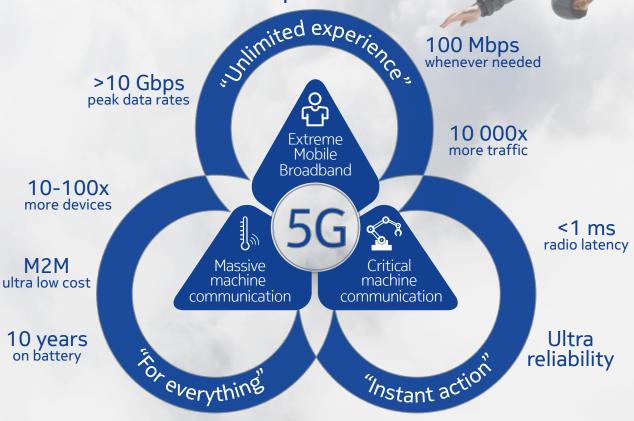




- Lead with Webscale and alternative service providers
- **Expand** into technological extra-large enterprise
- 5 Lead in connectivity for IoT
- 6 **Differentiate** strategically with Services



5G will create new possibilities





Lead on the journey from 4G to 5G





Capacity



User experience (\$)





Architecture evolution



Lead the evolution of Cloud programmable core

Digital service delivery, Self-optimizing networks

Virtualization

Stateless machines,
Shared data layer

Cloud native core network, Network slicing

New digital business models for operators

Distributed datacenters

E2E solutions

Radically simplified networks

Agility and endless scalability

Cloud-optimized core

OTT-like service delivery





Cloud infrastructure



Broad Virtual Network Functions



Open APIs



Integration and Transformation Services

Expand to grow revenues in attractive adjacencies



Public sector

- Public safety
- Air-to-ground
- Mission-critical railway solutions

Webscale

- End-to-end network solutions
- Turnkey design and build
- New business models

Technological extralarge enterprise

- Private LTE
- Disrupt with unlicensed LTE
- Tailored solutions

Connectivity for IoT

- Networks ready for IoT
- Cloud-enabled
- Focused verticals























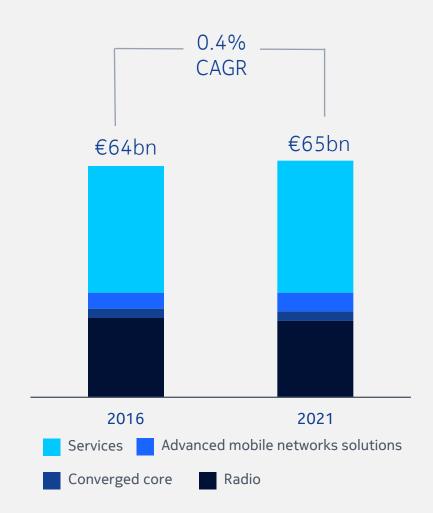
Primary market outlook

Radio

Converged Core

Advanced Mobile Networks Solutions

Services



Market outlook for Attractive adjacencies

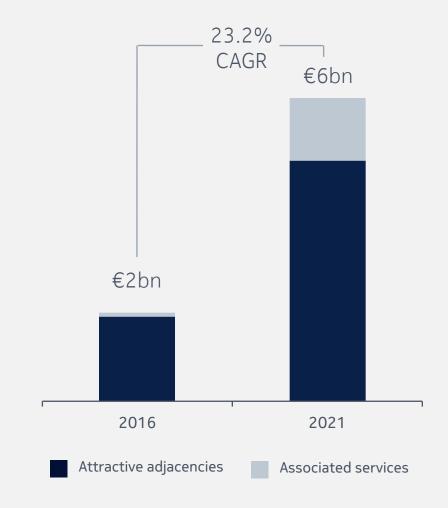
Public Sector

Webscale

Technological extra-large enterprise

Connectivity for IoT

Associated services



Higher returns through focused growth

Required investments already factored into long-term Networks guidance

Disciplined expansion and diversification

Strong long-term business model

Attractive Primary market adjacencies **€2bn** in 2016 €64bn in 2016 5 year CAGR 0.4% 5 year CAGR **23.2%**

Net sales:

Grow faster than the primary market

Long-term operating margin:

Expand to double digits

Nokia will achieve the EUR 1.2 billion cost savings target

Industry-leading governance and operating model drive execution excellence

Streamlining of overlapping products and services

Continuous transformation



Transformation Programs

Impact

1. Regional and Service Profitability Improvement (RSPI)

Gross Margin

- 2. Product cost optimization
- 3. Site materials cost reduction
- 4. Best-in-class serviceability
- 5. Care process modernization

6. Software upgrade process modernization

Gross
Margin &
OPFX

- 7. Transformation best-practice applied across merged business
- 8. R&D Transformation

OPEX

9. Continuous improvement capability development

Enabler & Gross Margin

10. End-to-end process management

Enabler

Looking forward

2016

- All portfolio convergence decisions made in 1H2016 and portfolio roadmap aligned with customers
- World leader in VoLTE subscribers
- 4.5G Pro commercialized
- Leadership in small cells

2017

- 4.9G launched
- Evolving to Cloud native core and radio
- Establish CSP datacenters
- Disrupt public safety market with LTE
- Differentiate strategically with Services

2018

- First 5G sales
- Lead in technological extra-large enterprise and private LTE
- Lead in unlicensed radio
- Achievement of cost savings target

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