

NOKIA



33<sup>rd</sup> APDC Congress

Harness the exponential  
potential of networks

The opportunity for Portugal

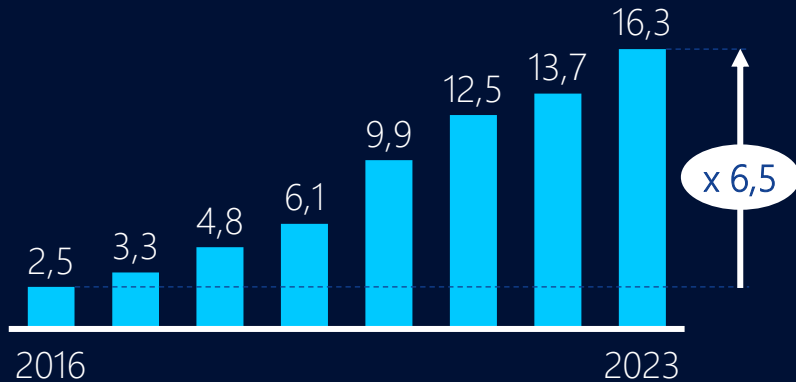
May 15<sup>th</sup> , 2024



# The industry paradox also in Portugal

## Traffic

in TB



## Revenues

in €bn



Commoditization created by a single network capability: Connectivity

Source: ANACOM, Q4 2023 report

# 5G impact creation

Giant leap enabling beyond connectivity

NOKIA Bell Labs



Source: Nokia Bell Labs report

# The Growth opportunity for Portugal



## Agriculture

123K

Companies in the sector of Agro Production

€0,9bn

10% with TWO annual productions



## Industry

68K

Companies in the Industry sector (inc. Textiles and Clothes)

€1,0bn

10% with adapted production lines



## Other

4<sup>th</sup> Industrial Revolution

# What's different now ?

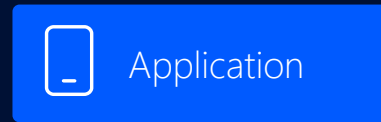
## Network programmability underpinning value creation

4x to 9x Networks traffic is project to grow through 2030

0% to 6% connectivity market grow/year

30% to 40% digital applications ecosystem market grow/year

Before 5G

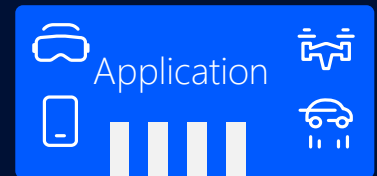


Over-the-top



Single Capability

With 5G



Multiple Capabilities

Source: Gartner, Bloomberg, IDC, Global Data, Bell Labs

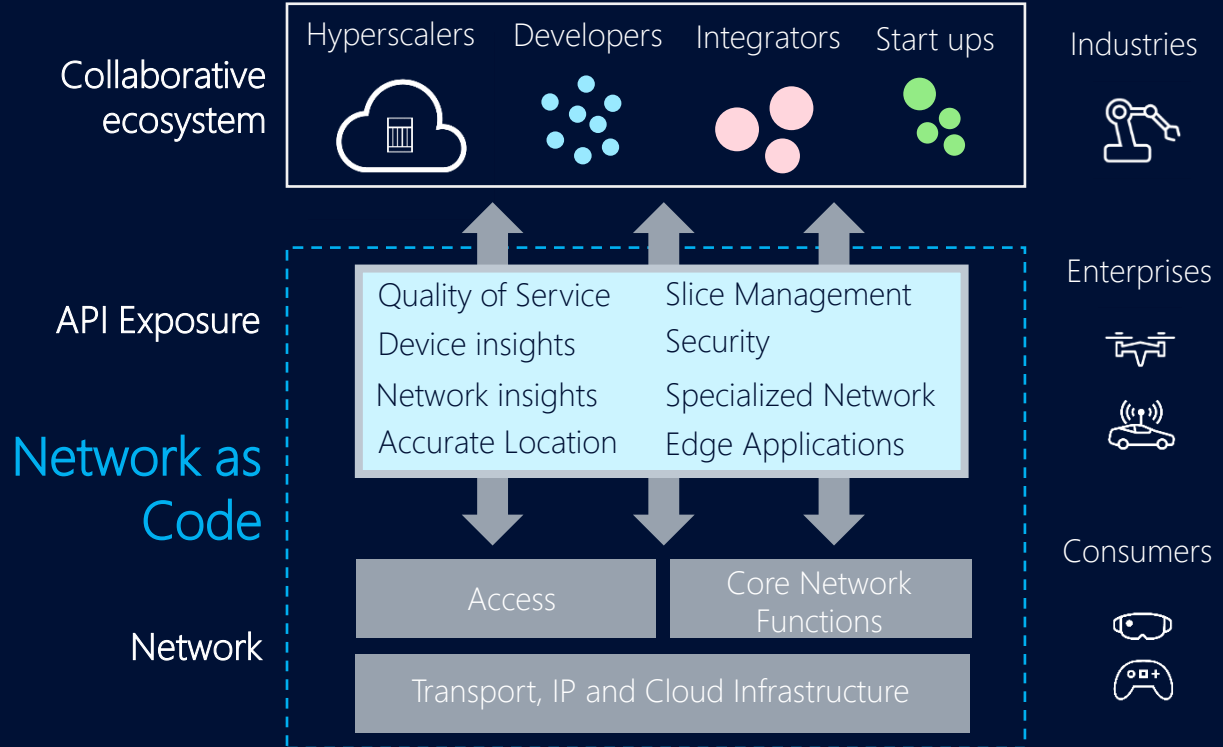
# Network as Code driving industry value creation

Changing the relation between applications & telecom operator networks

Network as Code  
– a Programmable Product

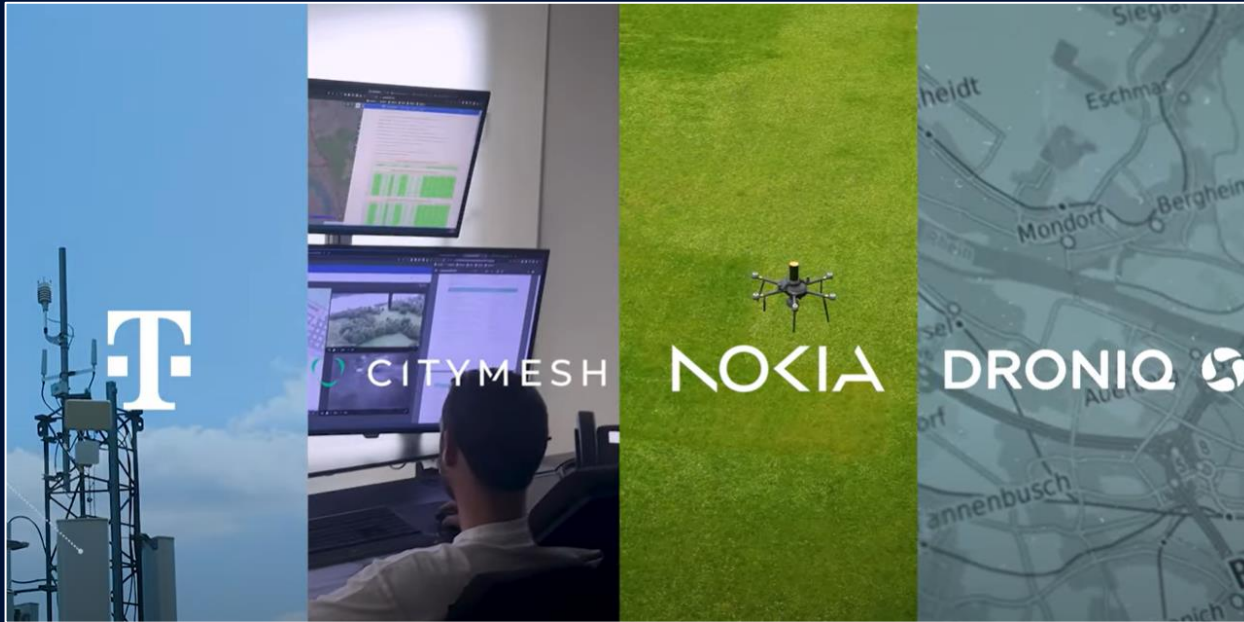
Rich, open ecosystem,  
driven by collaborative  
partnership and  
developer-led innovation

5G Network capabilities &  
APIs - leveraged for new  
value creation



# Collaborative value ecosystem market example

Remote-controlled drones over 5G,  
leveraging Quality of Service and Location Verification APIs



# Nokia is delivering Network as Code elements for value creation

319

5G Radio Networks

The biggest 5G SA in the world

113

5G Stand Alone Core

710

Extreme-performance specialized networks  
(for several industry verticals)

11

Network as Code APIs framework Projects



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

5G creates a strategic opportunity for economical growth in Portugal

Telecom Industry Value creation journey is just starting

Nokia is delivering projects enabling Network as Code journey

NOKIA