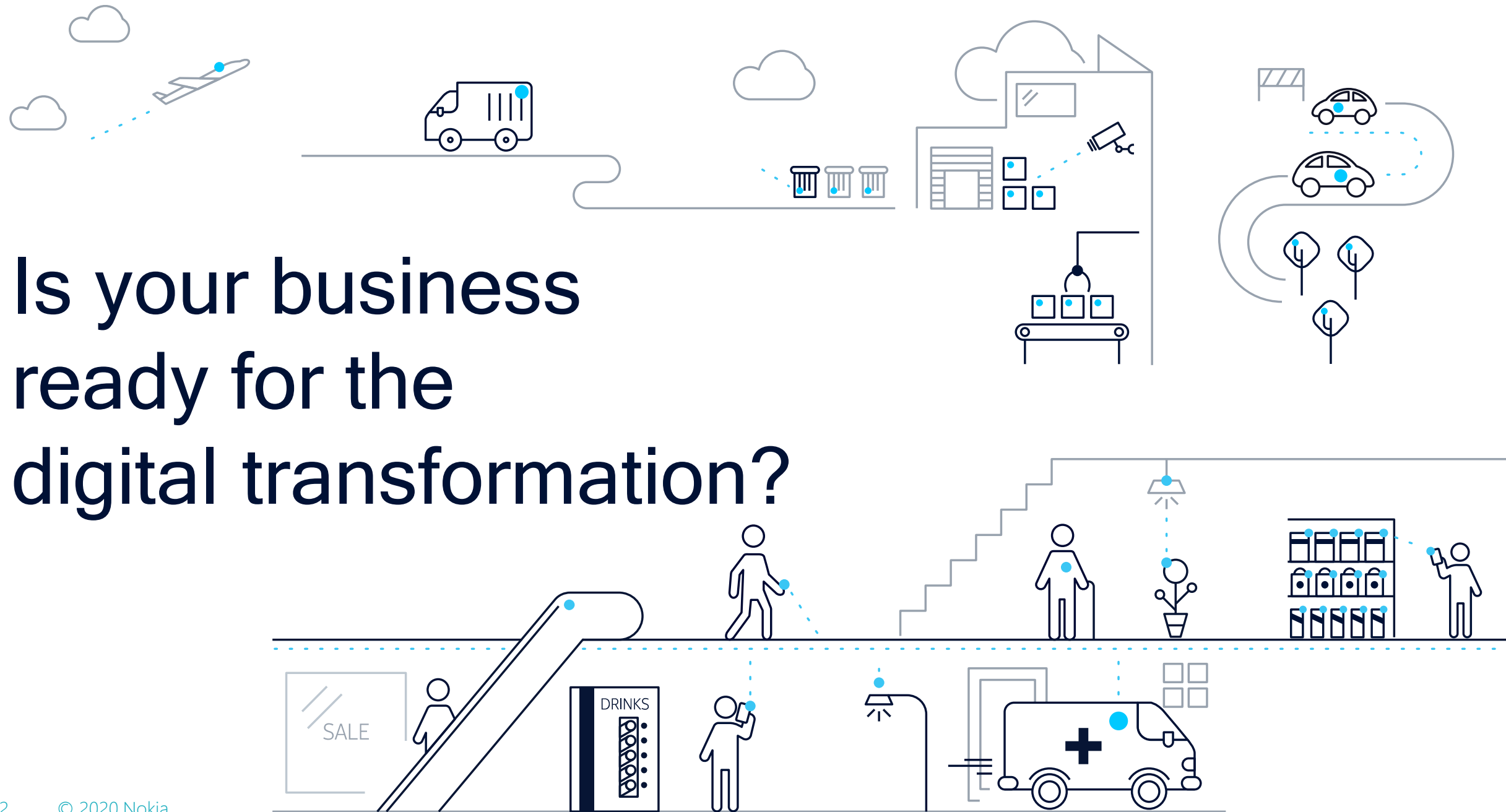


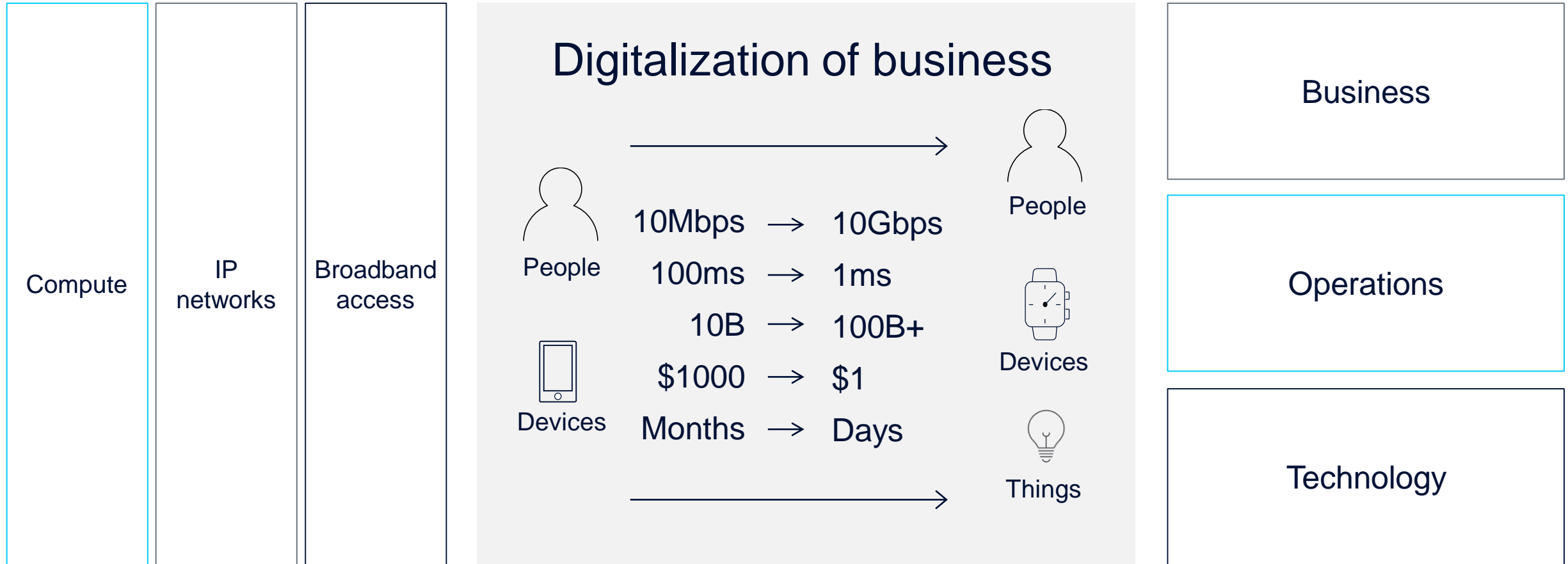
# Cloud architecture in 5G

Volodymyr Rynk



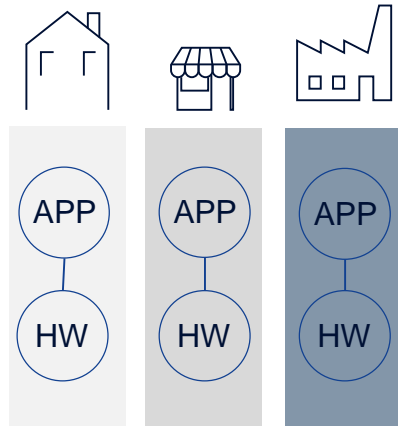
Is your business  
ready for the  
digital transformation?

# The Cloud with a silver lining for a digitalized business

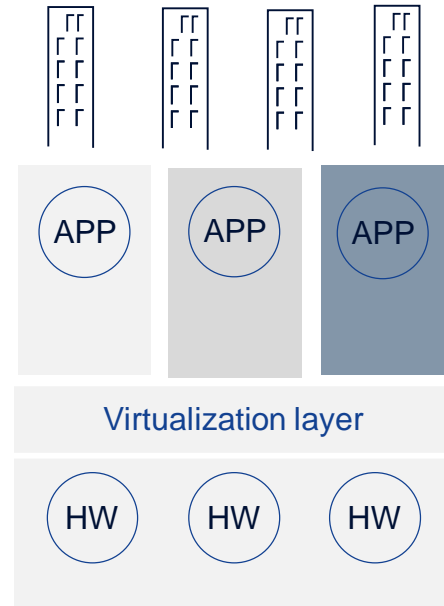


Cost + performance → Confluence of networks & cloud

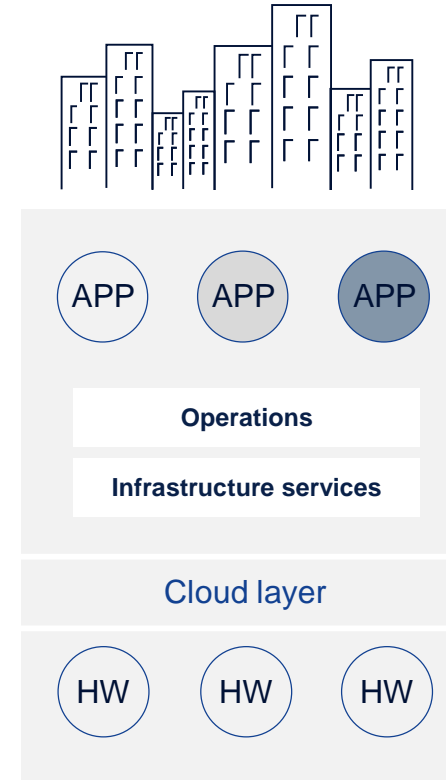
# Virtualization and cloud technology are just enablers



Traditional



Virtualized

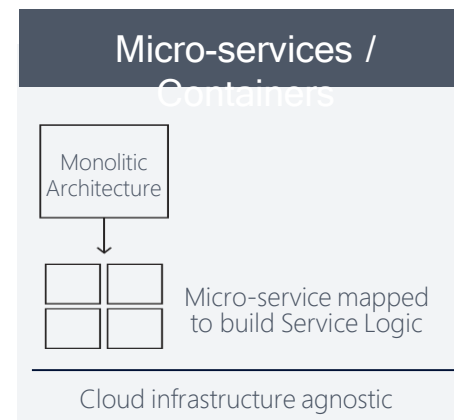
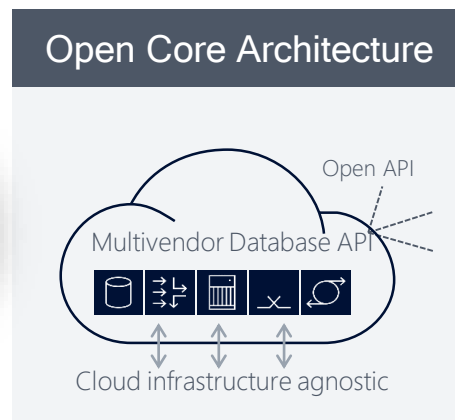
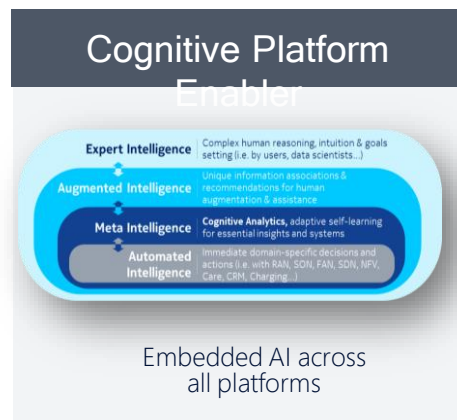
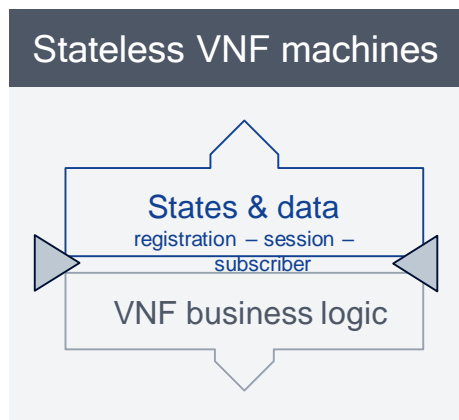


Cloudified



Cloud native

# Nokia 5G Cloud-Native Core strategic direction



Cloud-Native  
architecture  
for 5G

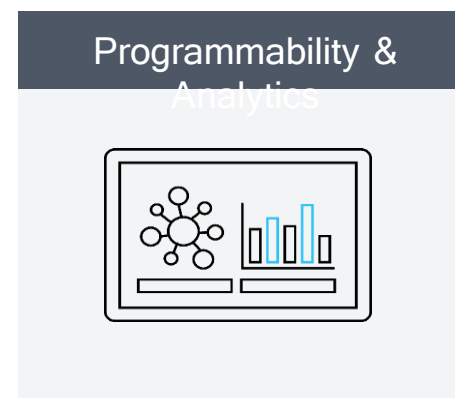
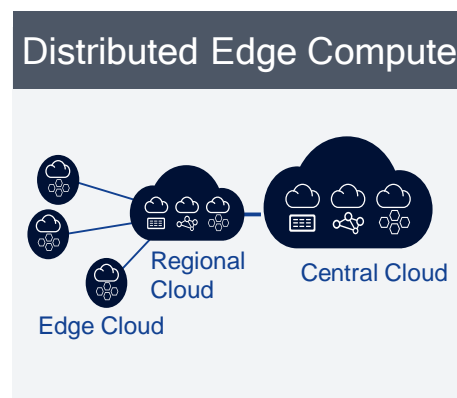
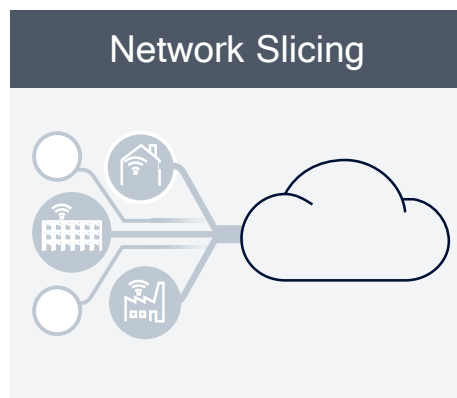
## Cloud Technology Drivers

for Nokia Products and Solution

## Business Transformation Drivers

for Operators to monetize cloud investment

Automated  
Operation &  
Cloud Agility



# Network Slicing as a Service

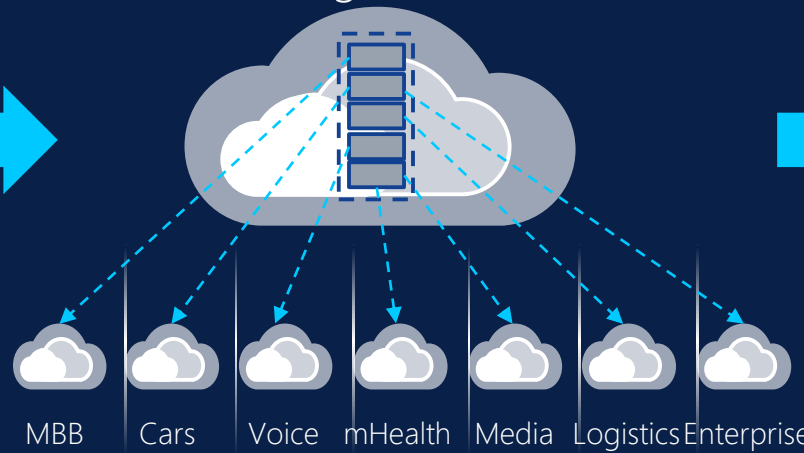
## Example of Horizontal and Vertical Slicing

One efficient Cloud network



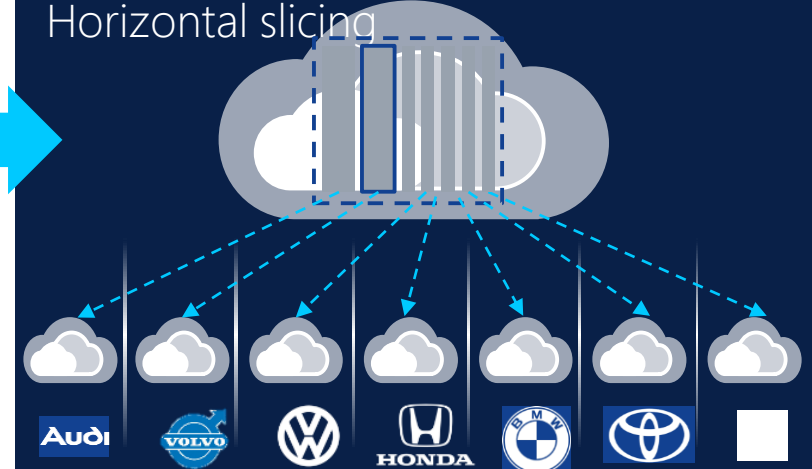
Today's network serving all services and devices

Horizontal Slicing



Horizontal slicing for Services, device segment and customer segments

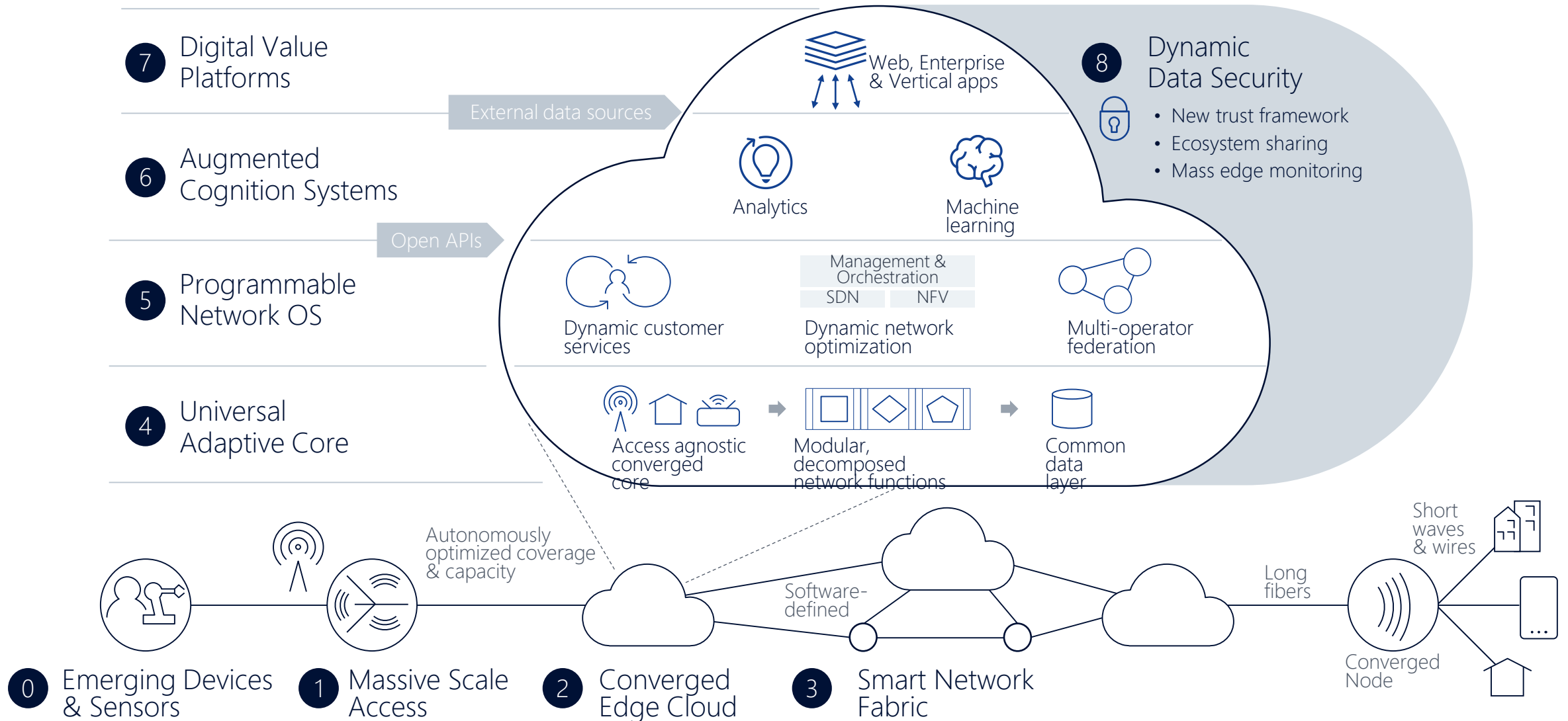
Network as a Service: Vertical and Horizontal slicing



Vertical Slicing for Service specific customization

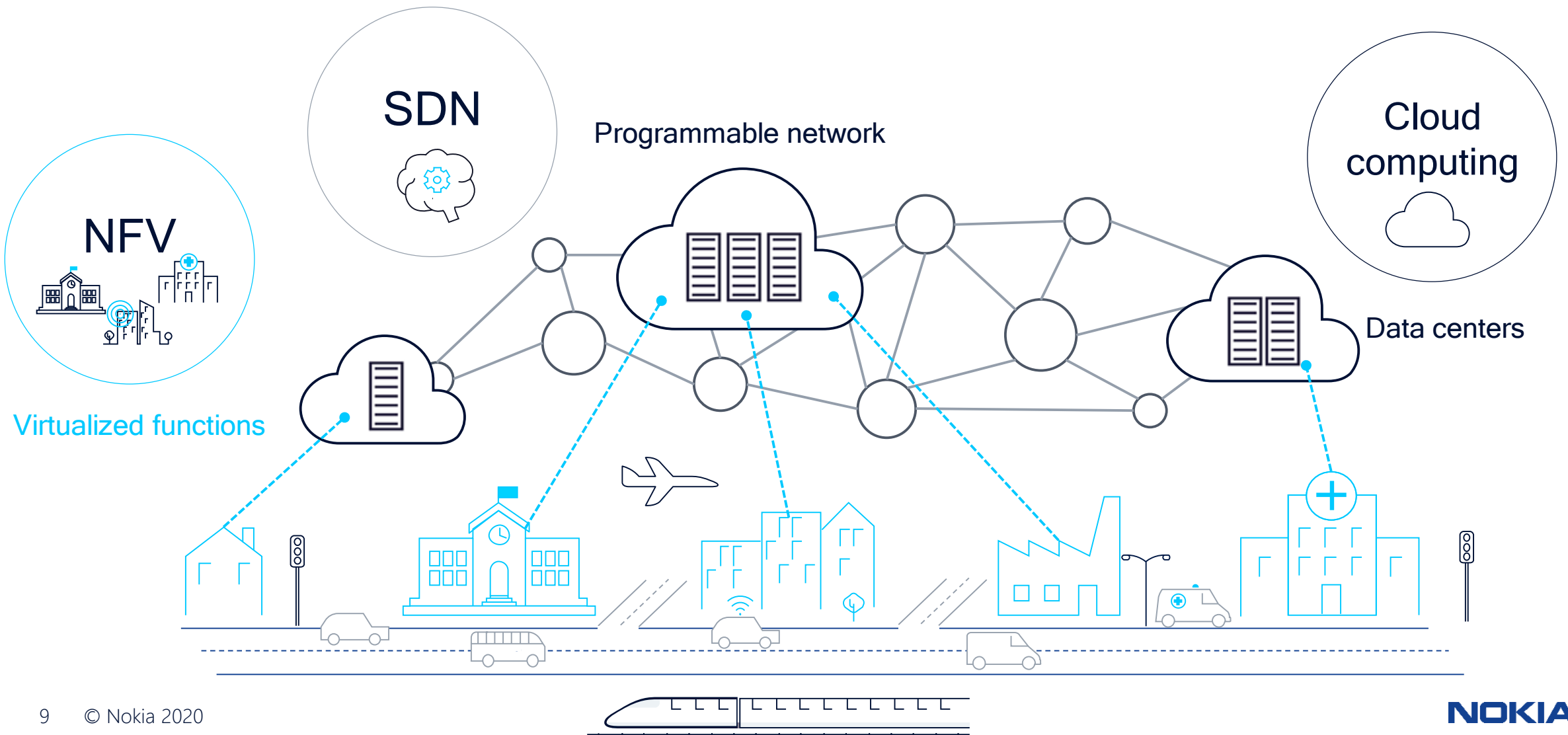
**Network slice as a Service** can be offered by CSPs to their customers, leaving the latter ones the possibility to offer their own services on top on network slice services (B2B2X).

# End to end 5G capability based on Future X architecture

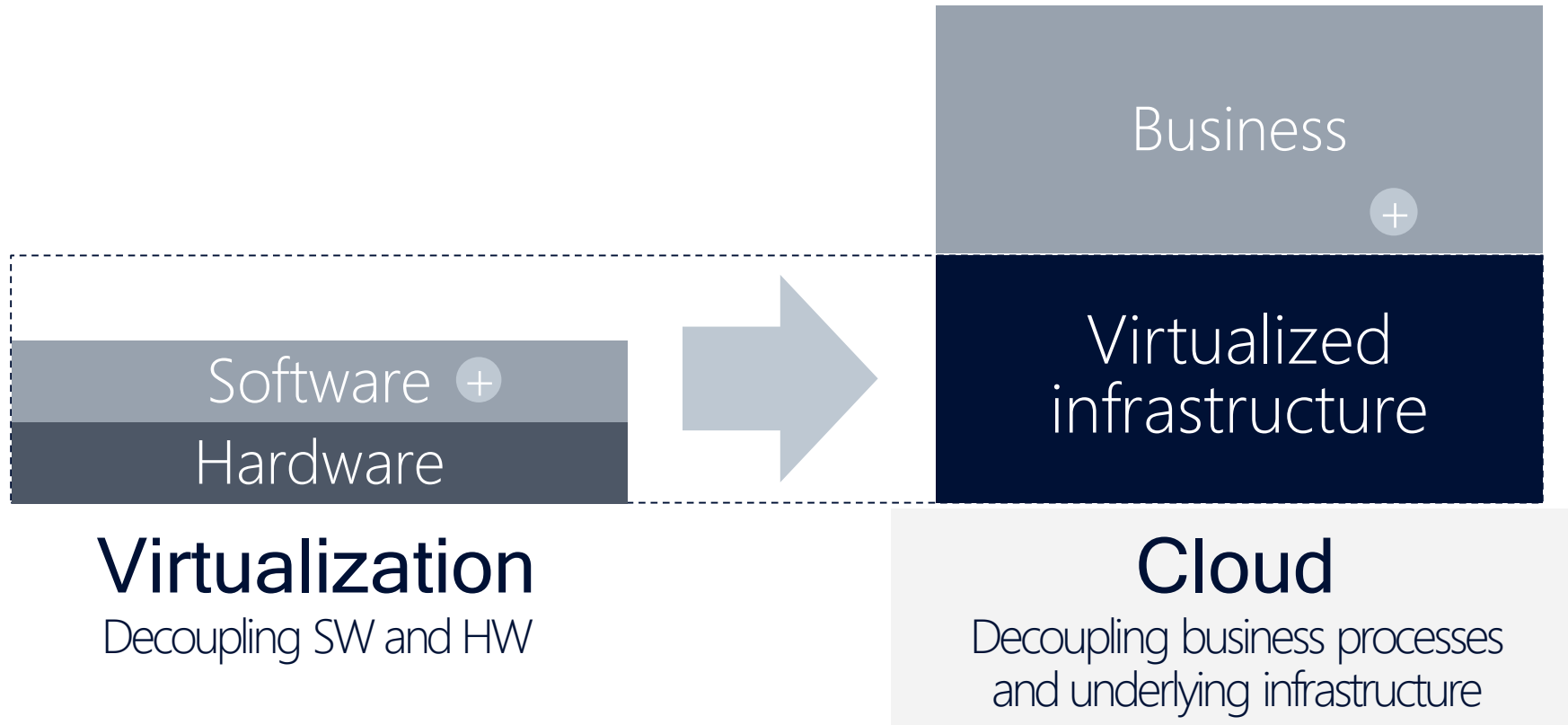


# Thanx

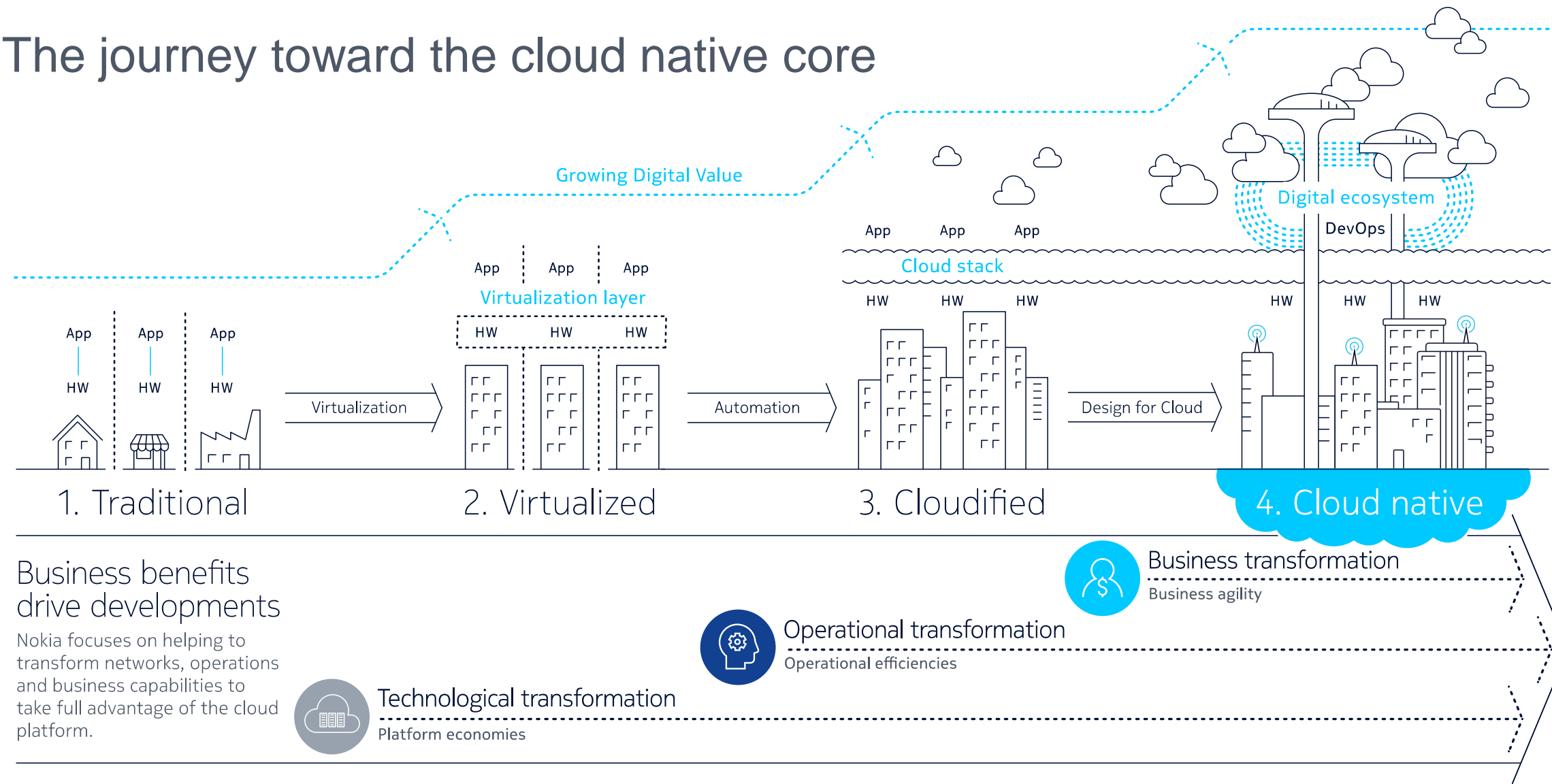




# Cloud is more than virtualization

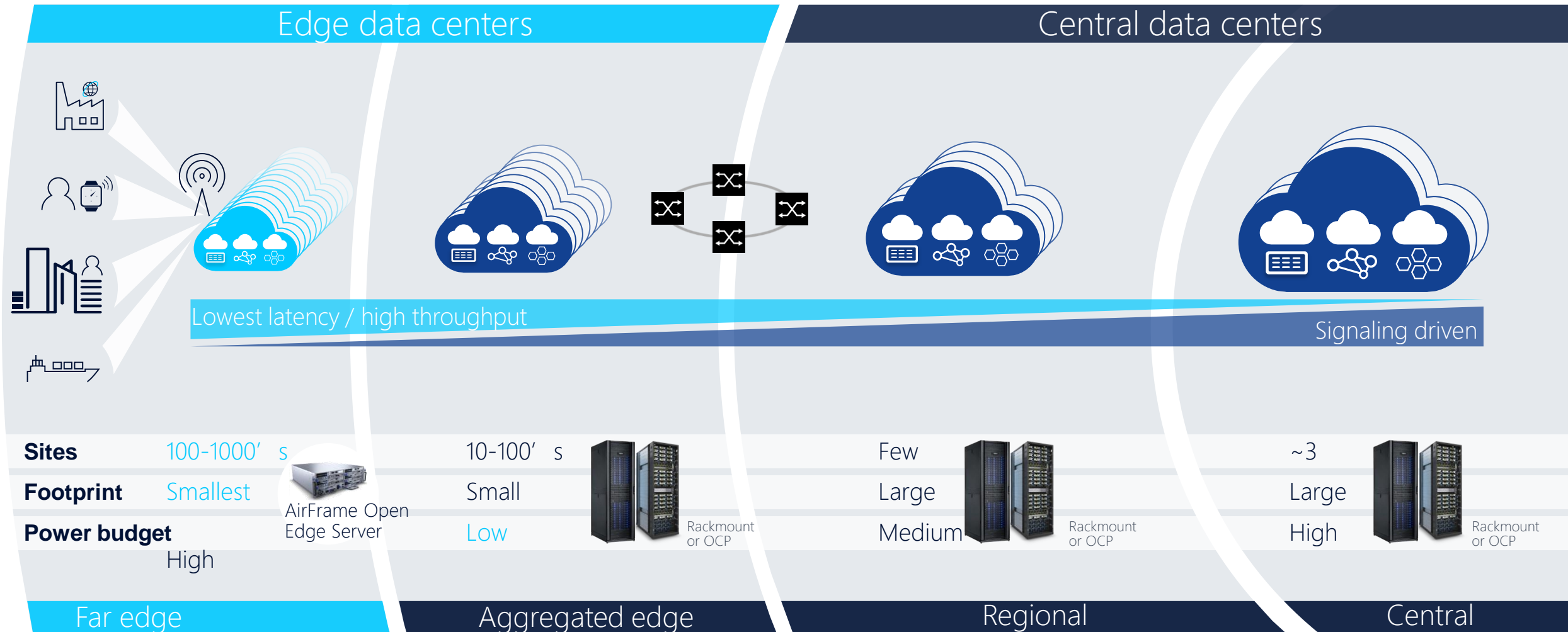


# The journey toward the cloud native core



# Managing the lowest latency/cost trade off with a layered architecture

## First data center solution designed for the edge



# Digitalization is everyone's business

**15 years**

average lifespan of a  
S&P 500 company

STANDARD  
& POOR'S

**1017**

new features and  
services during 2016

amazon  
web services

**45%**

decline in consumer SMS  
from 2012 to 2016 in Finland

Finnish Communications  
Regulatory Authority

**>40%**

revenue from start-  
ups and ISVs

Microsoft Azure

**20 000**

servers per admin

facebook.

**83%**

decline in number of CDs  
sold 2005 vs 2015

billboard

Alibaba Group

airbnb

Google

KICKSTARTER

NETFLIX

Spotify

UBER