

# Turn on 5G with Ericsson 5G Platform



Launch presentation

# 5G platform meeting the future



**Increased capacity and lower cost/bit**  
5G NR is the path to large scale capacity increases and reduced cost per bit transferred

**Seamless evolution to 5G**  
eMBB will be the main starting point in the initial phase of 5G

**Enable new use cases and business models**  
Capture new revenue streams from emerging industry use cases

5G



# Evolution of mobile broadband content



## User behavior changing

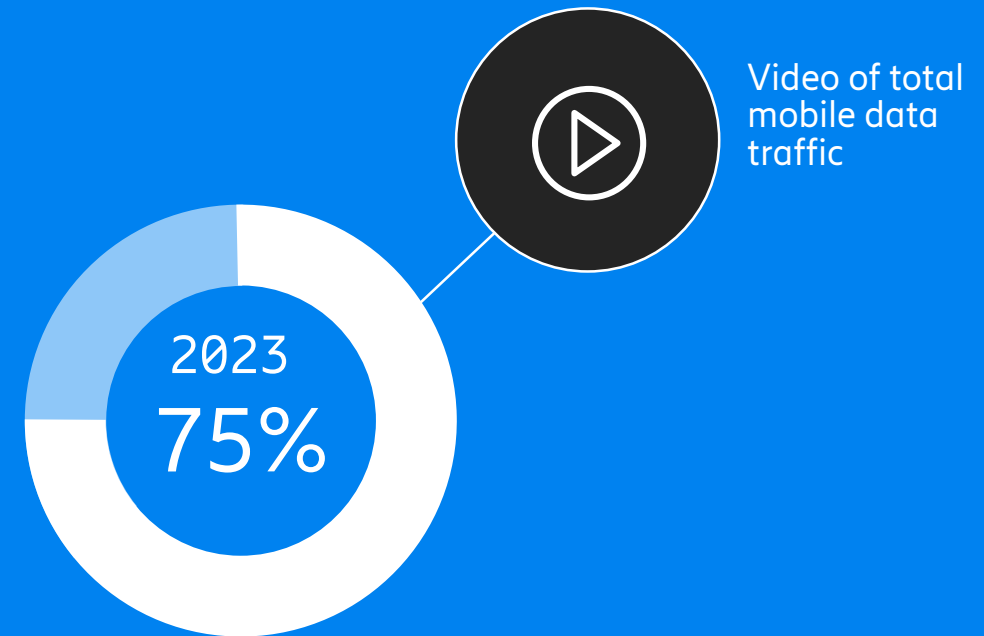
Users spend more time on watching and sharing video

## On-line content increasingly video

Embedded in most online content (news, ads, social media, etc)

## Emerging immersive media formats and applications

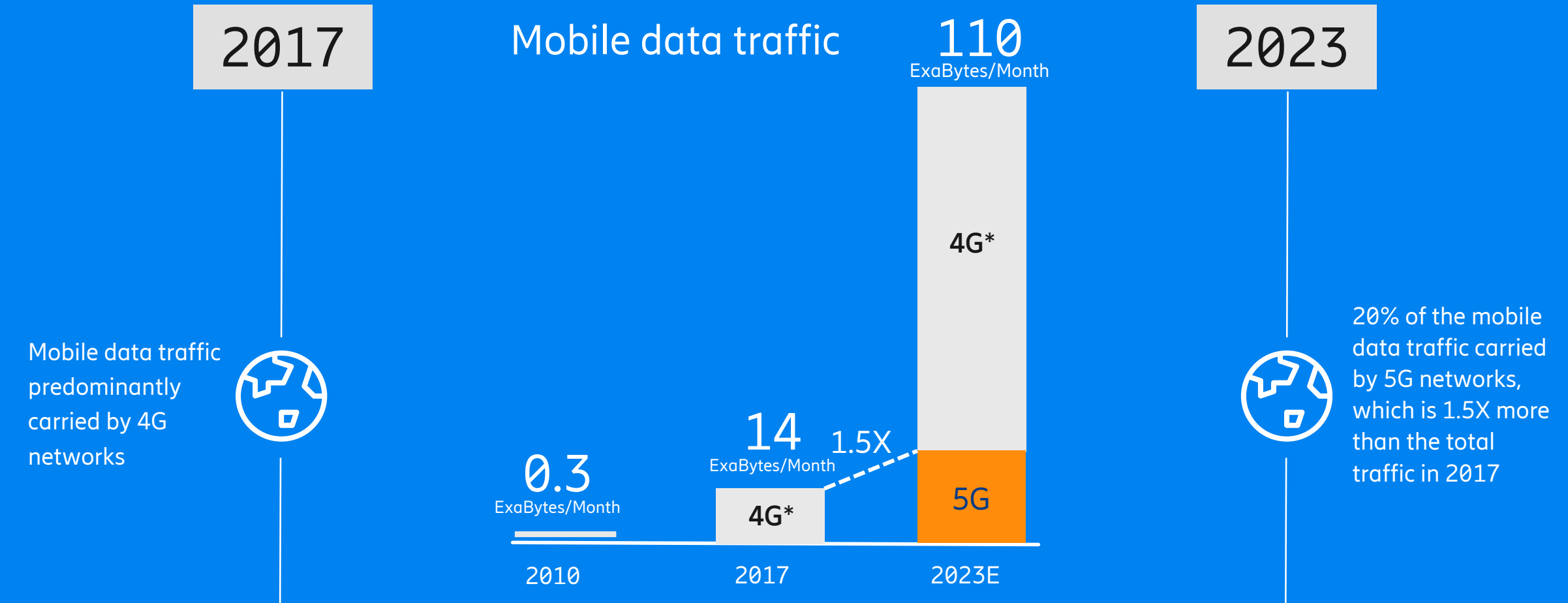
HD/UHD, 360-degree video, AR/VR



Video increasingly dominant

Driving MBB traffic growth →

# Continuous mobile broadband traffic growth

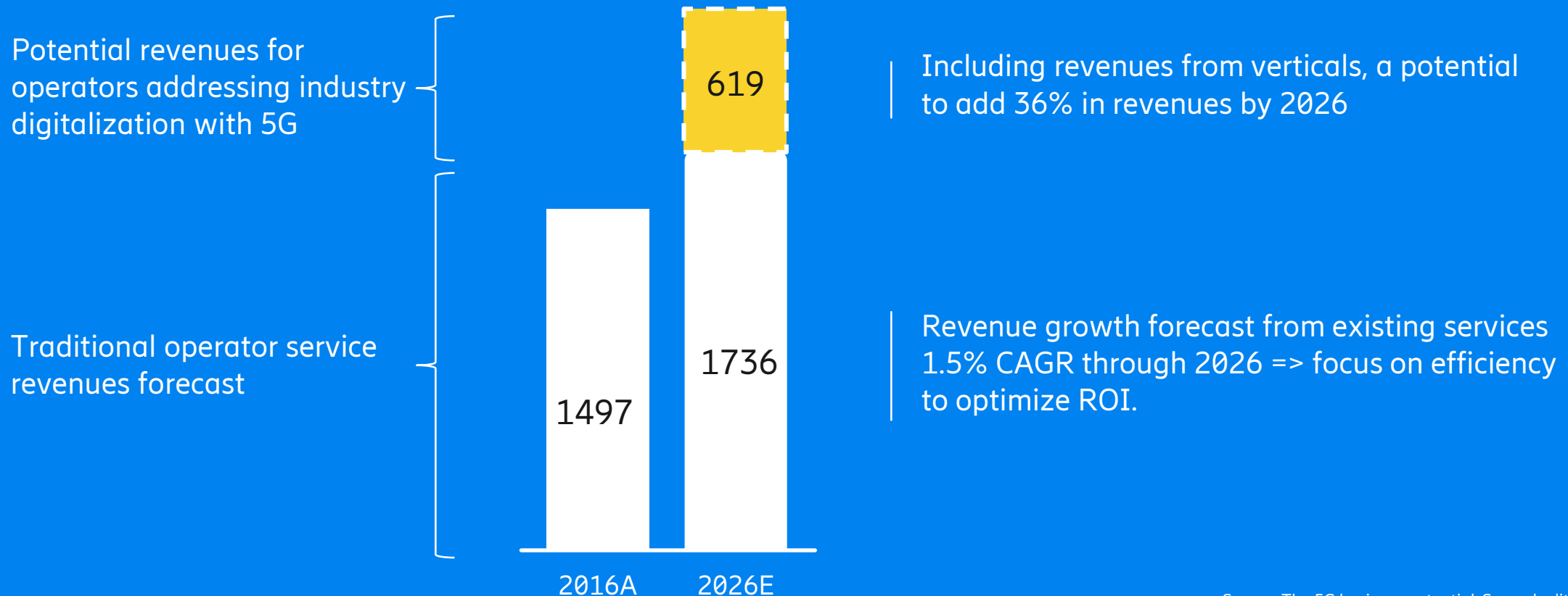


Source: Ericsson Mobility Report  
\* Includes a small proportion of other 3GPP traffic

# Growth potential from expanded opportunities



Total service revenue potential for operators in 2026 (USD Billion)



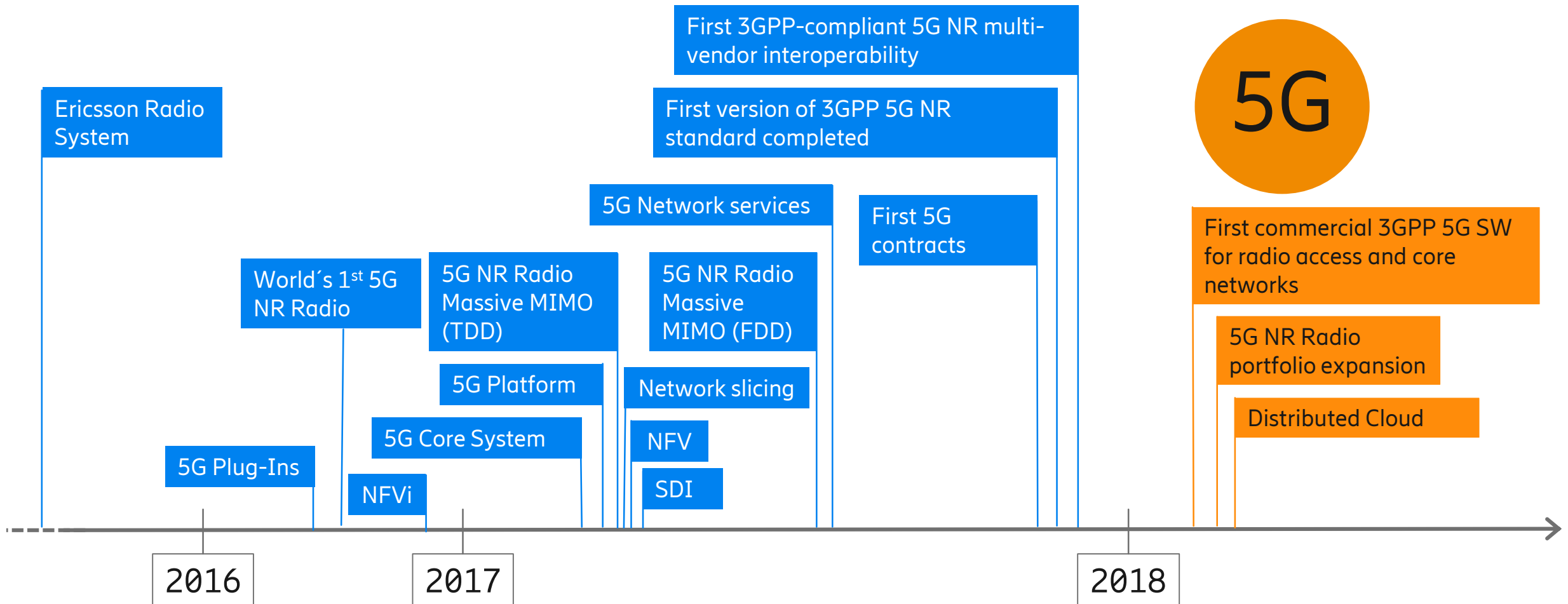
Source: The 5G business potential, Second edition, October 2017



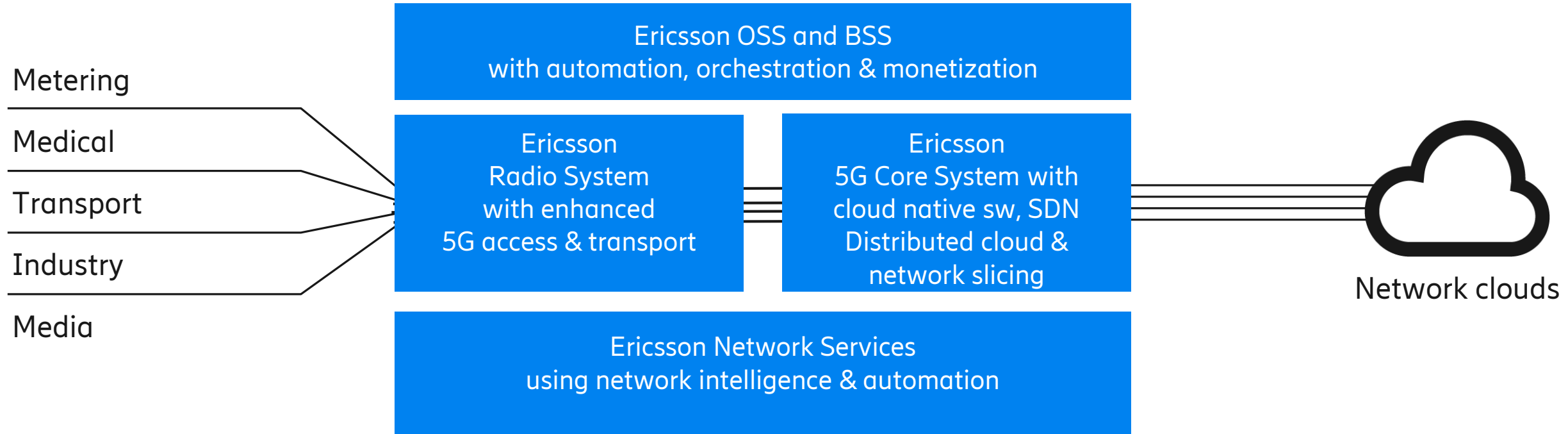
# Operator's needs



# Making 5G a reality

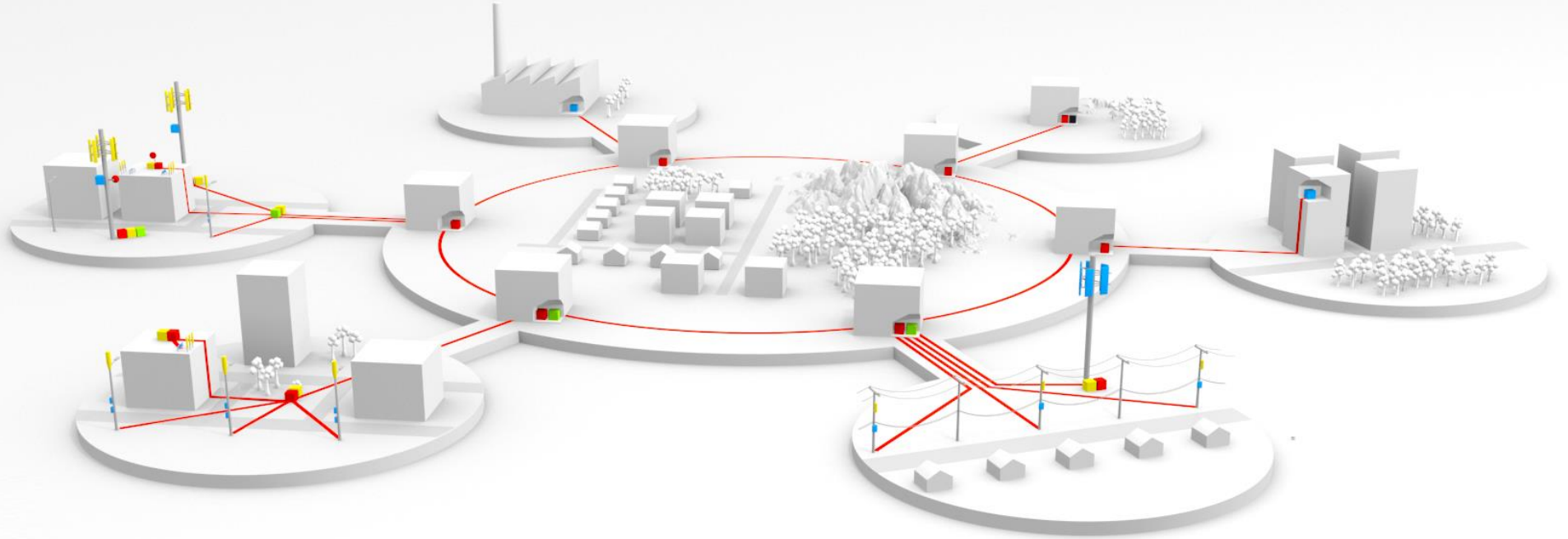


# Ericsson 5G platform





# Operator new opportunities with Ericsson Radio System



First  
with 5G

Grow 4G now  
with 5G-proof products

New products in Ericsson Radio System

# Turn on 5G Become 5G NR first-mover

Ericsson's first commercial  
5G RAN software:

5G 18.Q4

3GPP 5G NR  
capabilities

On Ericsson  
Radio System

Multi-band  
support for  
global  
deployment



# 5G 18.Q4 release highlights



## Add new spectrum

Additional frequency bands with wider bandwidth

## Ultra-lean design

Reduce interference and energy consumption

## Next step in antenna technology

From network-centric cells to user-centric beams

## Low latency

Faster network response allowing new use cases

## Tight interworking with 4G

Using 5G Plug-In towards 4G network

# 17 new products for performance, efficiency and growth



## Street Macro



AIR 1281

Streetmacro  
6701

AIR 4455

## Massive MIMO



AIR 3239

AIR 5331

AIR 3252

## Massive MIMO + Passive Antennas



AIR 6479

AIR 8828

## Multi-band



AIR 4488

Radio 2238

## Mid-band



Radio 8823

## Small Cell



Radio 4402

Radio 4408

5G Dot

## Baseband



Baseband  
6318

## Fronthaul

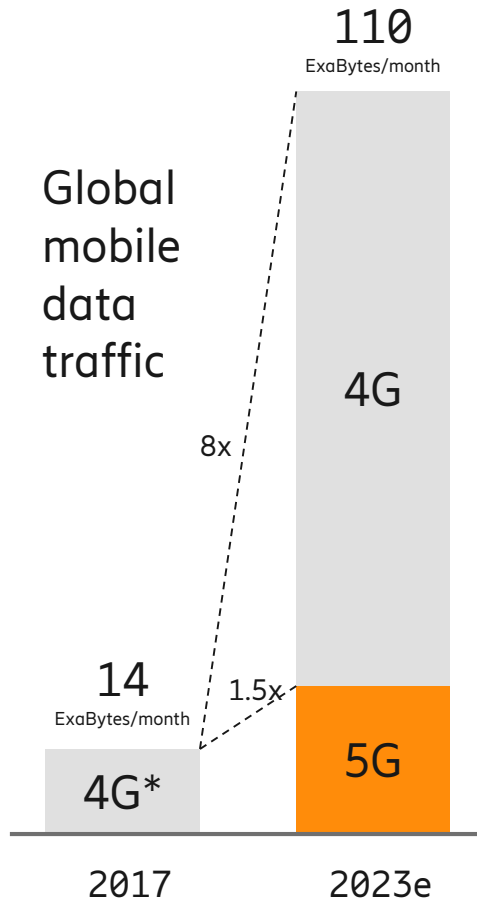


Fronthaul  
6322

Fronthaul  
6622



# Grow 4G now with 5G-proof products



Ericsson Radio System  
radios since 2015

Add 5G NR with remote  
software installation

Easy migration to 5G in  
existing bands

>150 radio variants in more than 190 networks



\* Includes a small proportion of other 3GPP traffic

# Ericsson 5G Core system updates



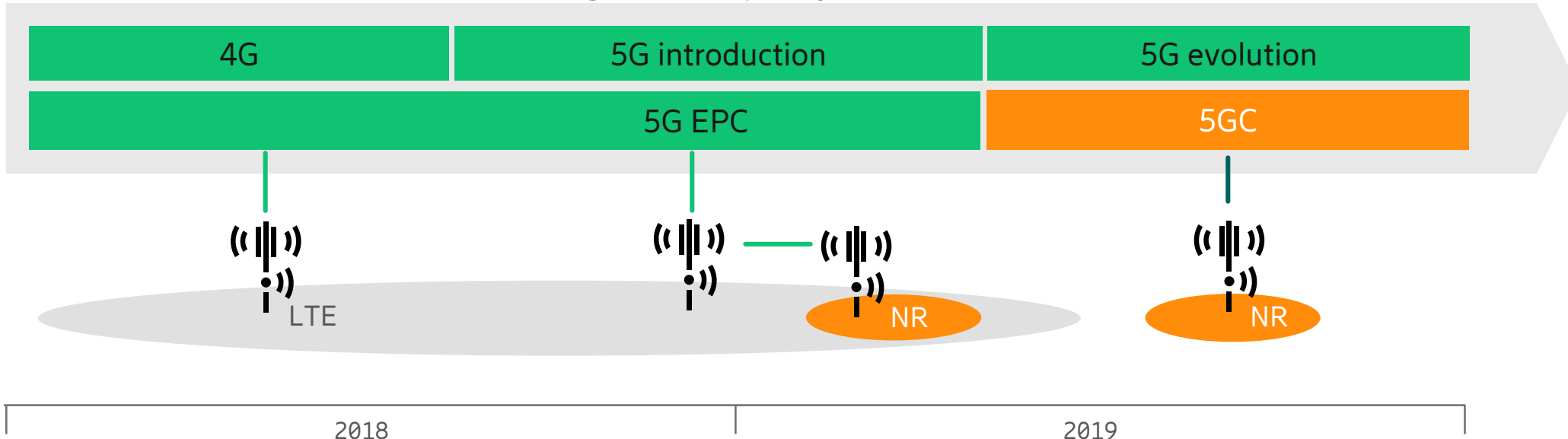
Optimized for 5G throughput, network capacity and scalability

Commercial 5G EPC software enhanced throughout 2018 to support 5G services enablers including

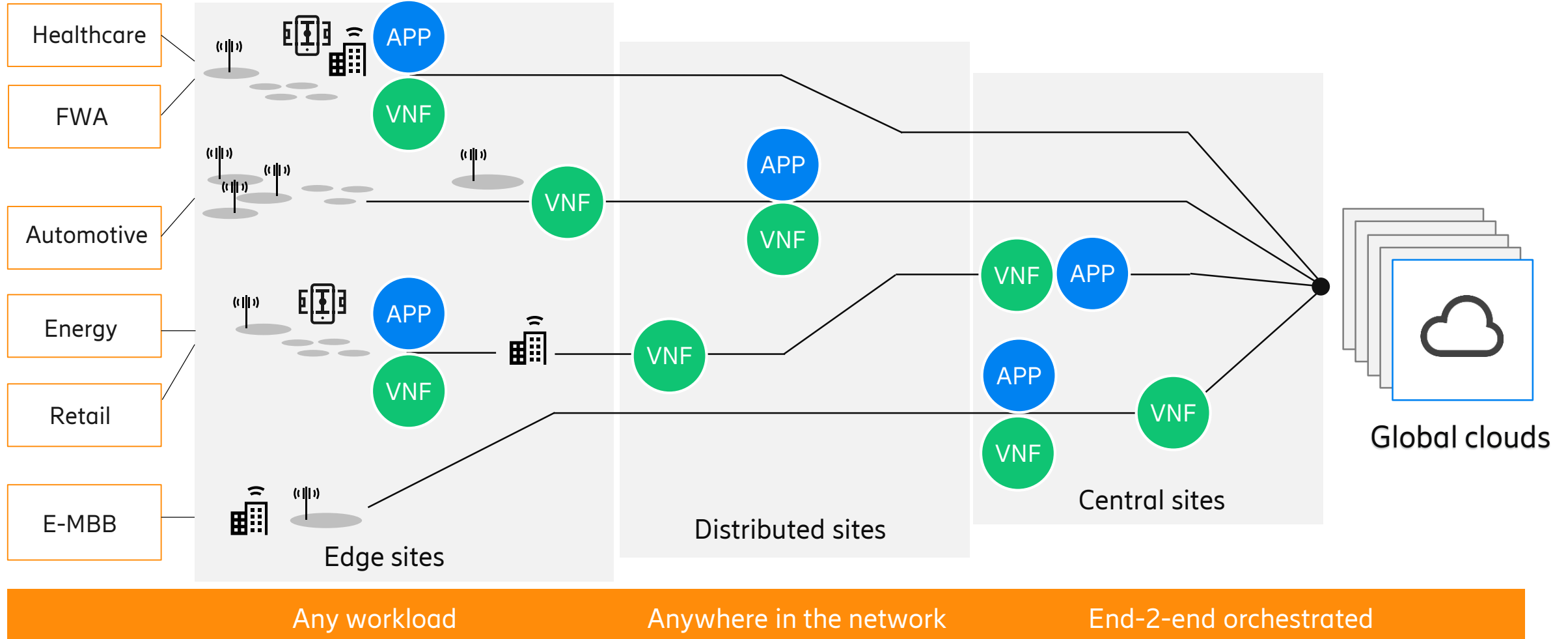


Network slicing, Distributed Cloud, CUPS, DECOR and 5G peak rates

Packet core and unified data management & policy control evolution



# What is a Distributed Cloud

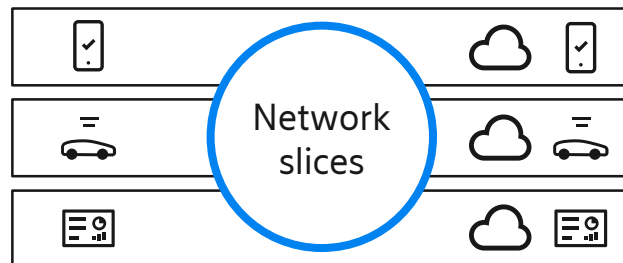


# Distributed Cloud journey



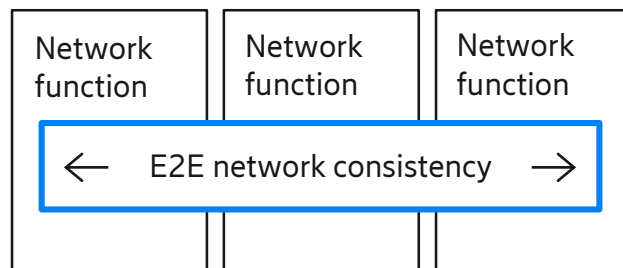
## Deploy and scale NFV

- Multi-site SDI and NFVI with SDN interconnect
- Workload distribution, e.g., packet core
- Prepare for Network Slicing, Critical IoT & Enterprise Services



## Implement Network slicing orchestration

- Greater flexibility & elasticity meeting fast-changing customer demands
- Distributed user plane



## Embrace Cloud Native

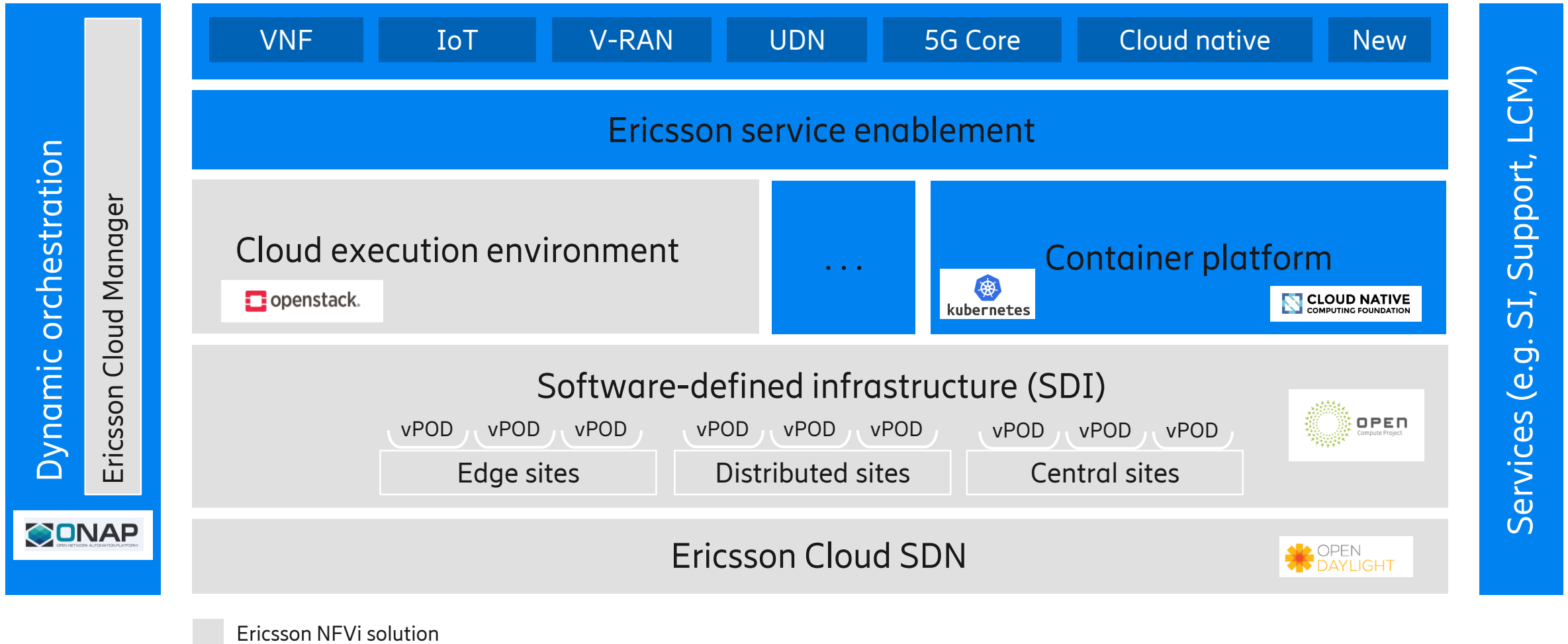
- Efficient and flexible infrastructure usage for demanding future 5G services

## Grow ecosystem

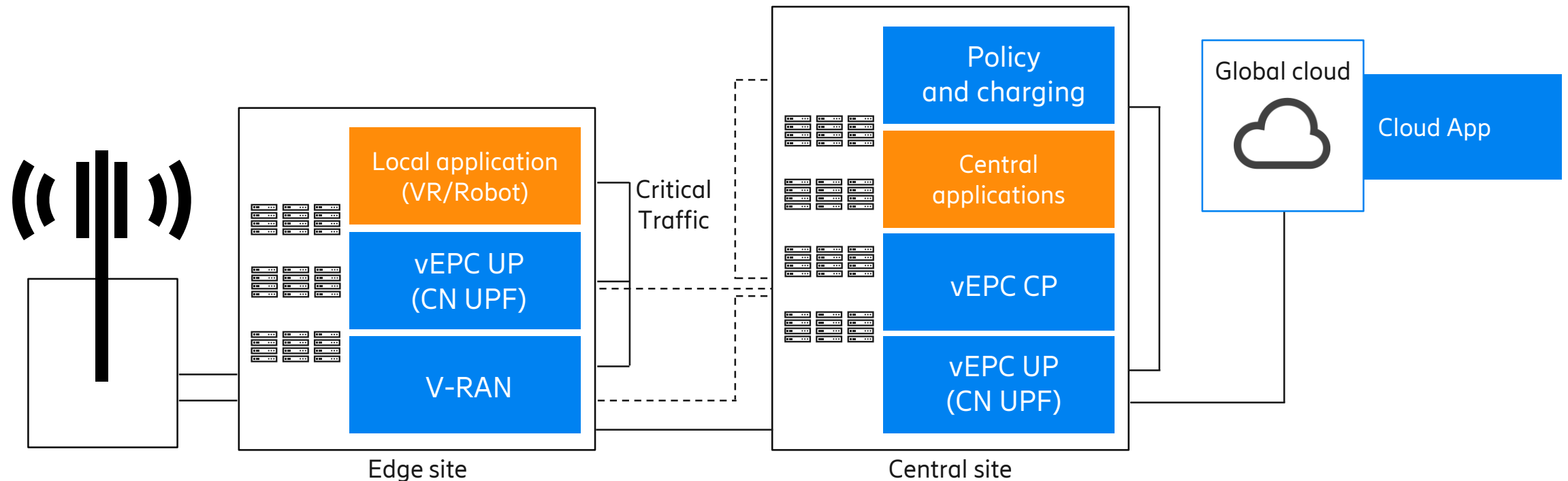
- Expose APIs
- Support service creation
- New multi-sided business models
- New offerings for IoT media acceleration



# Ericsson Distributed Cloud



# Distributed Cloud enables new applications



Latency – bandwidth – security – availability – transport/compute/data offload – scalability - regulations

# Value to operators



## Open platform for new business

- Drive eco-system for common framework for new applications
- Shorten TTM for service introduction
- Develop new business models



## Solutions to manage end-to-end complexity

- Manage virtualization and telco cloud deployments challenges
- Industry aligned solution, management, orchestration, and automation
- Cost efficiency life cycle management

## Unique Ericsson value added

### Open

Industry aligned solution based on SDN, NFV, and 3GPP Edge Computing leveraging open source

### Modular

Modular E2E solution, with open integration interfaces spanning products and services

### Unified orchestration

Unified orchestration and management for multi clouds