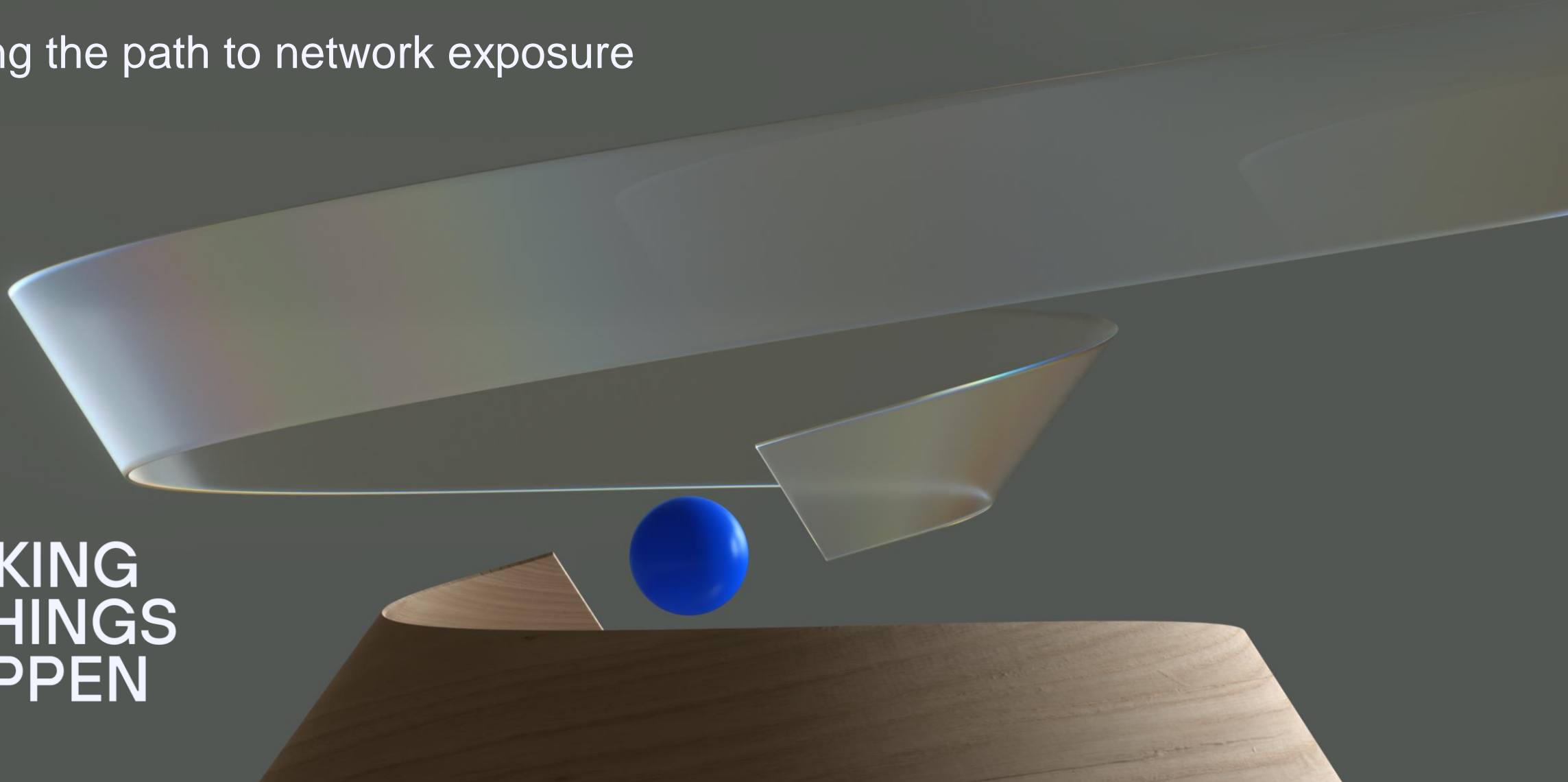


# Telefónica Network softwarization

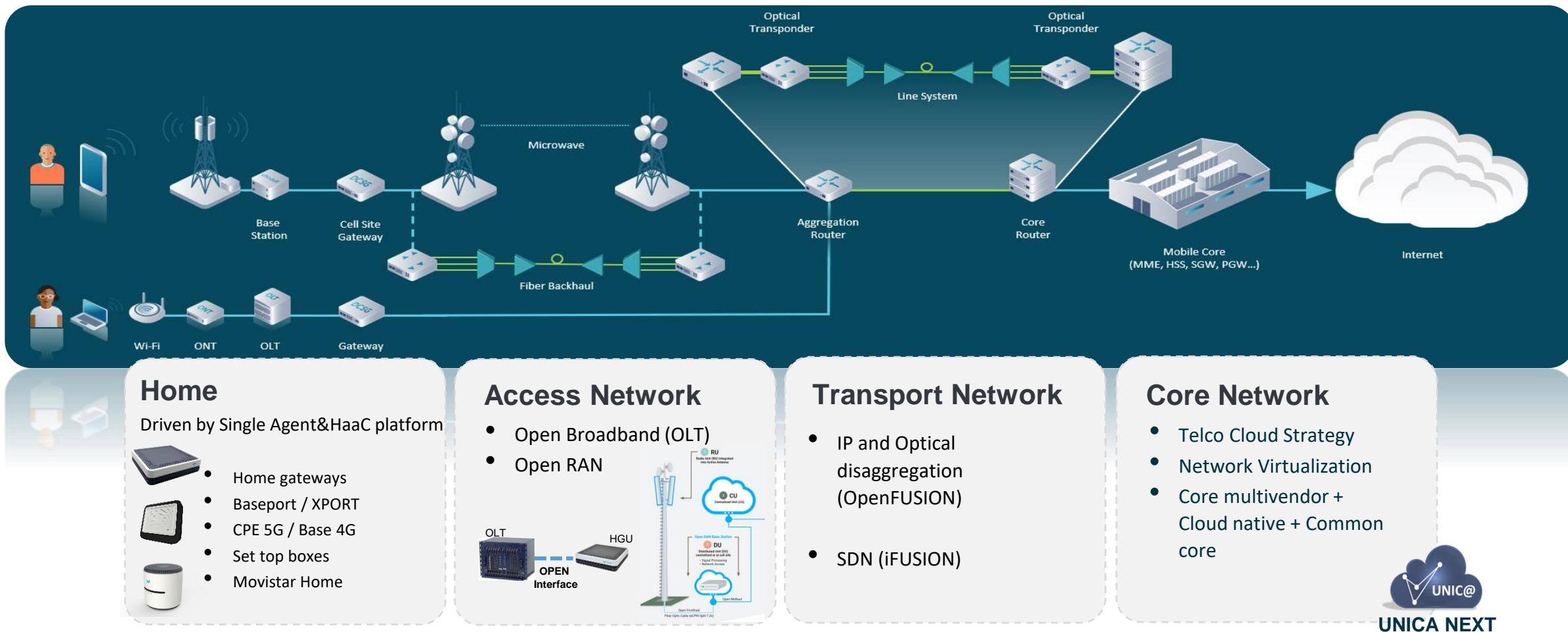
Paving the path to network exposure

MWC 2023

MAKING  
THINGS  
HAPPEN

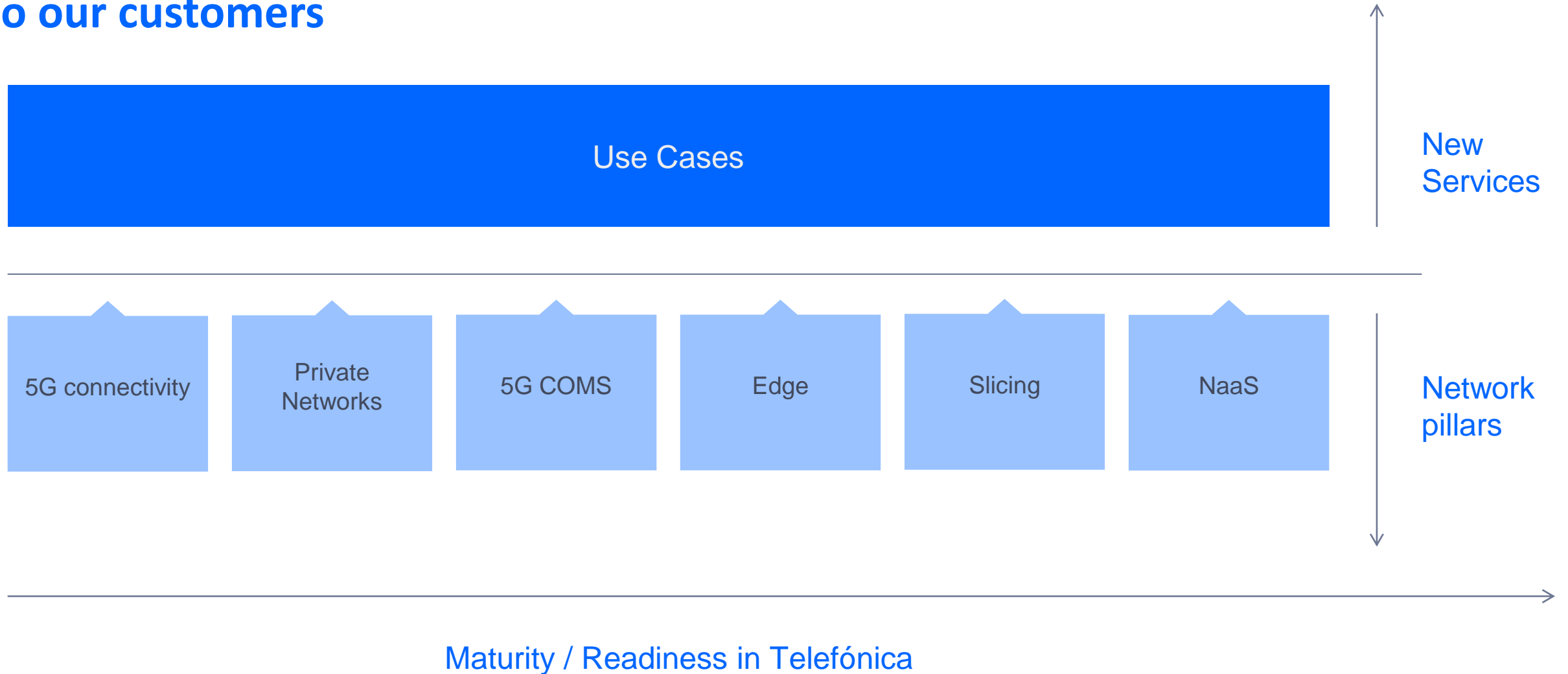


# Softwarization is happening in all the segments of Telefónica Networks...

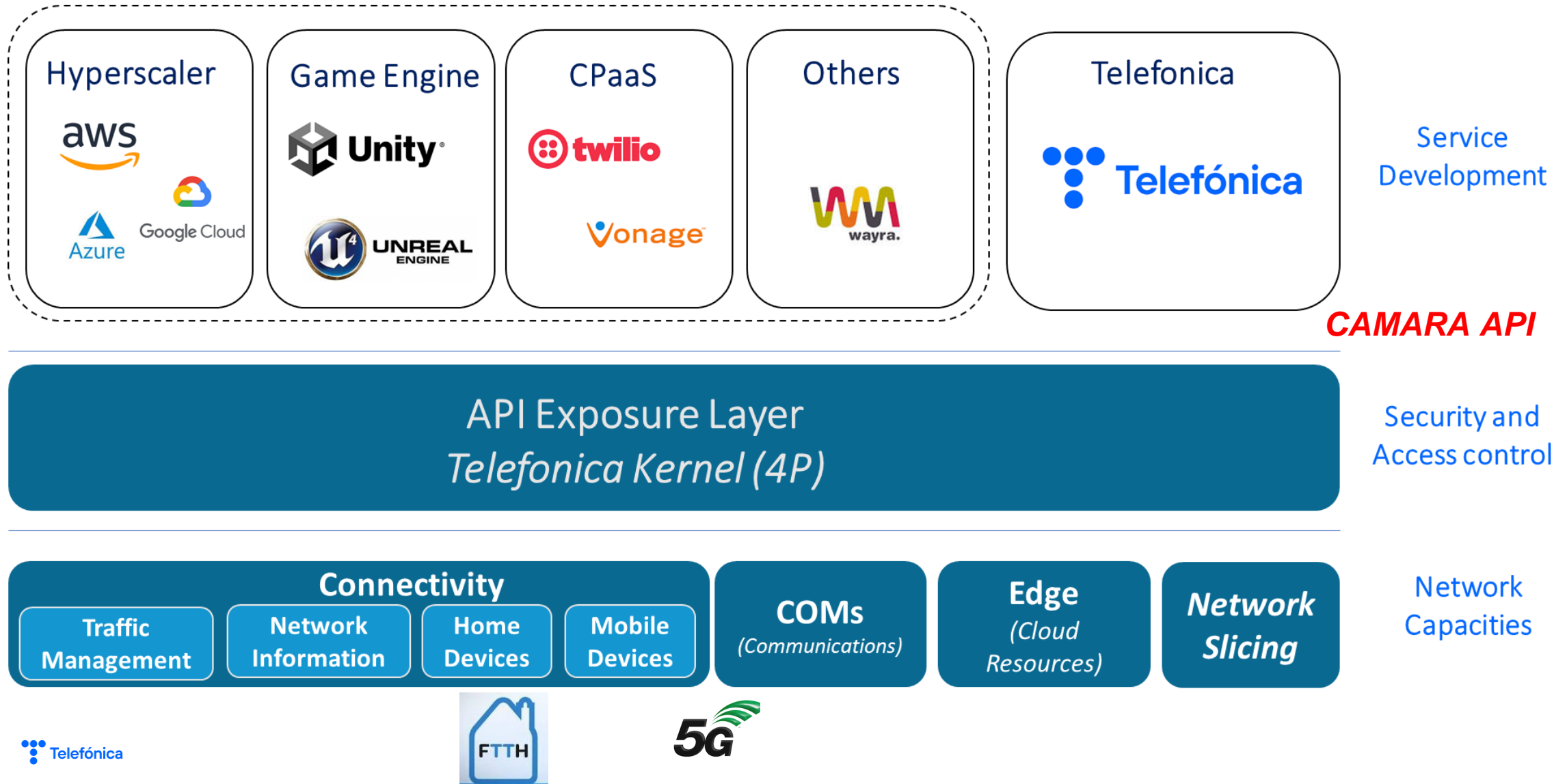


... guaranteeing robustness, flexibility and efficiency, enabling differentiation

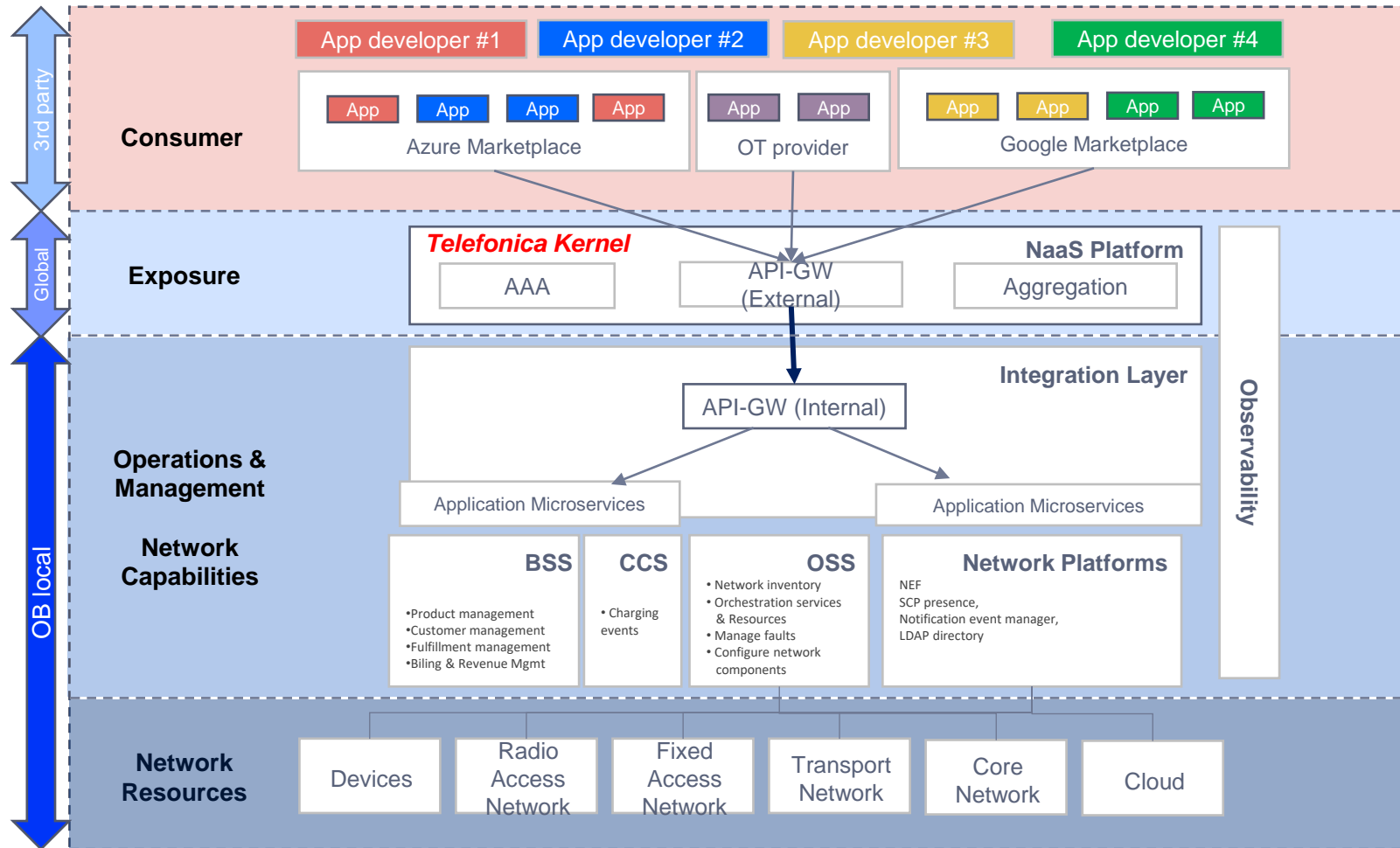
# New Network functionalities are increasing the possibilities of offering services to our customers



# How are we enabling NaaS?



# What is our NaaS Architecture?



# What is the type of network capabilities we plan to expose?



## Traffic Management

- Management of IP Flow in mobile networks
- Differentiation of the traffic of a given device in a WiFi network



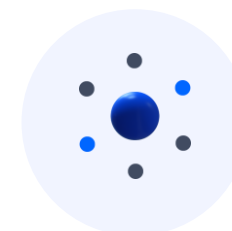
## Device Management

- Device Location
- Device Status
- Event notifications



## Network Information

- Real time performance of the network
- Prediction of network performance



## Authentication, Security, Privacy

- User identification
- User Consent



## Edge

- Edge node Discovery
- Application on boarding in an Edge node



## Slicing

- Creation, modification or elimination of a network slice



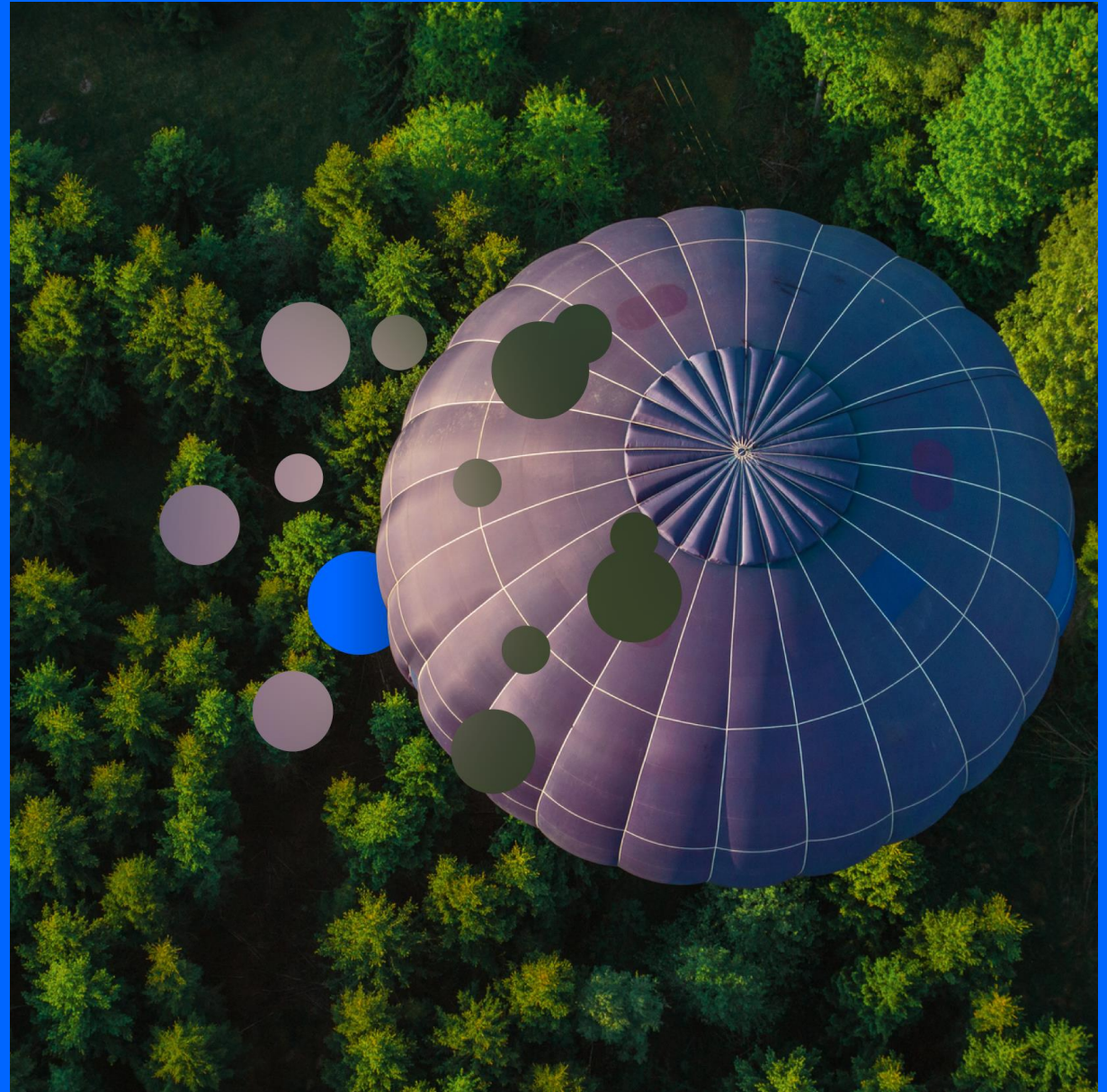
## Comms

- Web RTC
- IMS Data Channel
- New services Voice and messaging



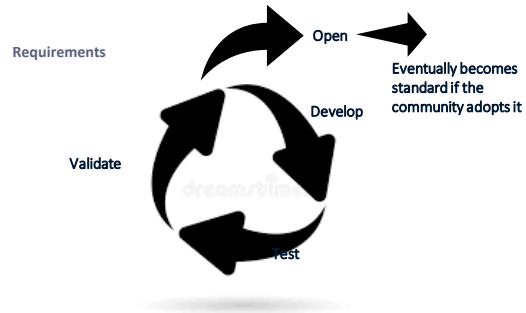
# Relevant topics for network exposure

- Service APIs MUST be standardized
  - Camara as Standardisation tool
  - OpenGW MoU as a key catalyser for implementation
- Network API should follow the standardised implementation, for instance NEF
- 5G will be the main source of exposed capabilities. Industry should speed up in exposure interfaces (mainly NEF interfaces)
- Network Security is a must. Some API misused could represent a serious issue
- Strict implementation of the service fulfilling net neutrality regulation
- In summary, a proper industrialization of our exposure capabilities is needed

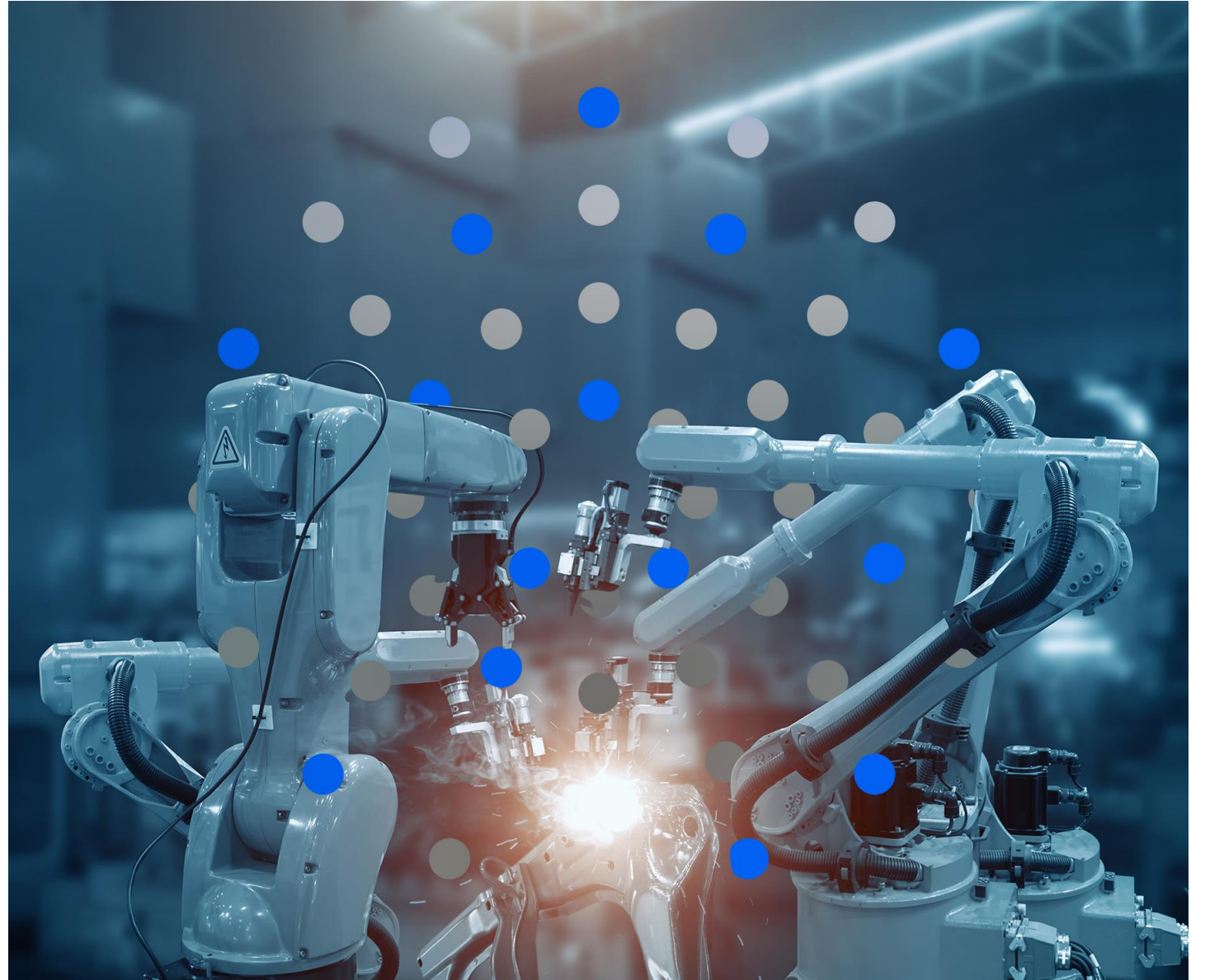


# What is relevant for developers?

- We should implement APIs, test them with developers and then standardise.



- Telefónica Early Adopter Program key in the dialogue with developers

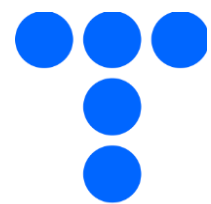






**NaaS may be a key  
disruption.**

**Telefónica is ready to  
take advantage of it**



Telefónica