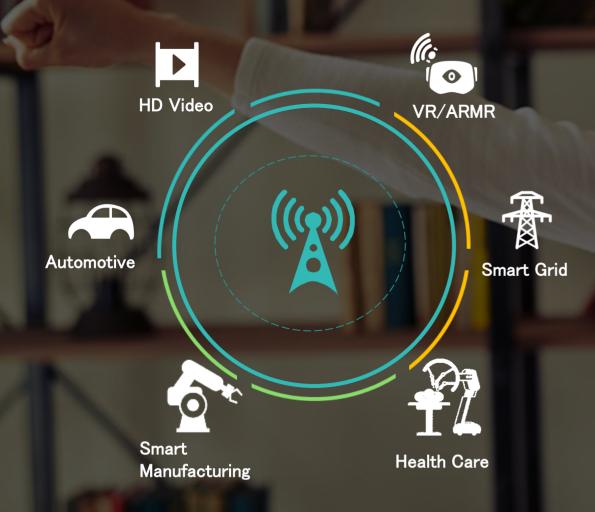




# **5G: One Network Infrastructure Serving All Industry Sectors**



- 5G unified air interface

  Flexible to address diverse requirements
- Network slicing
   Providing customized and isolated slices to meet individual requirement on sharing infrastructure
- 5G design target
   One network infrastructure to meet demands of all industry sectors to mobile and wireless communications

## **Accelerate to 5G Standardization Timetable**





A GLOBAL INITIATIVE

**RAN** 

Rel-13

Rel-14

Rel-15

Rel-16

**Previous Plan** 

5G Phase 1

5G Phase 2

**Accelerating Plan** 

Phase 1.1

Phase 1.2

Full IMT-2020 NR

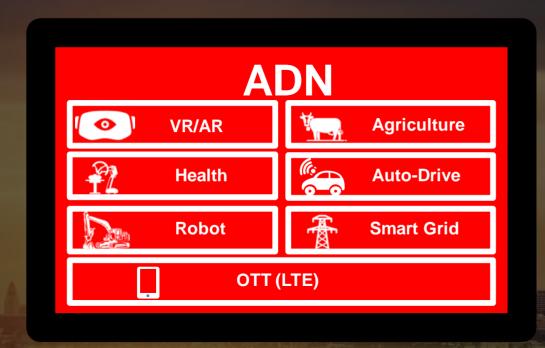


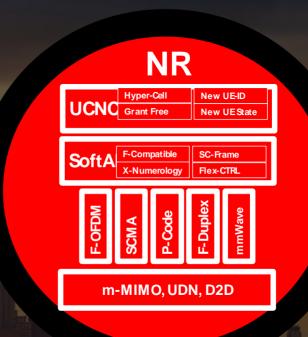
**Global Launch** 



## **5G Unified Air Interface for Diverse Use Scenarios**

**5G Networks Concept** 





**5G Physical Infrastructure** 



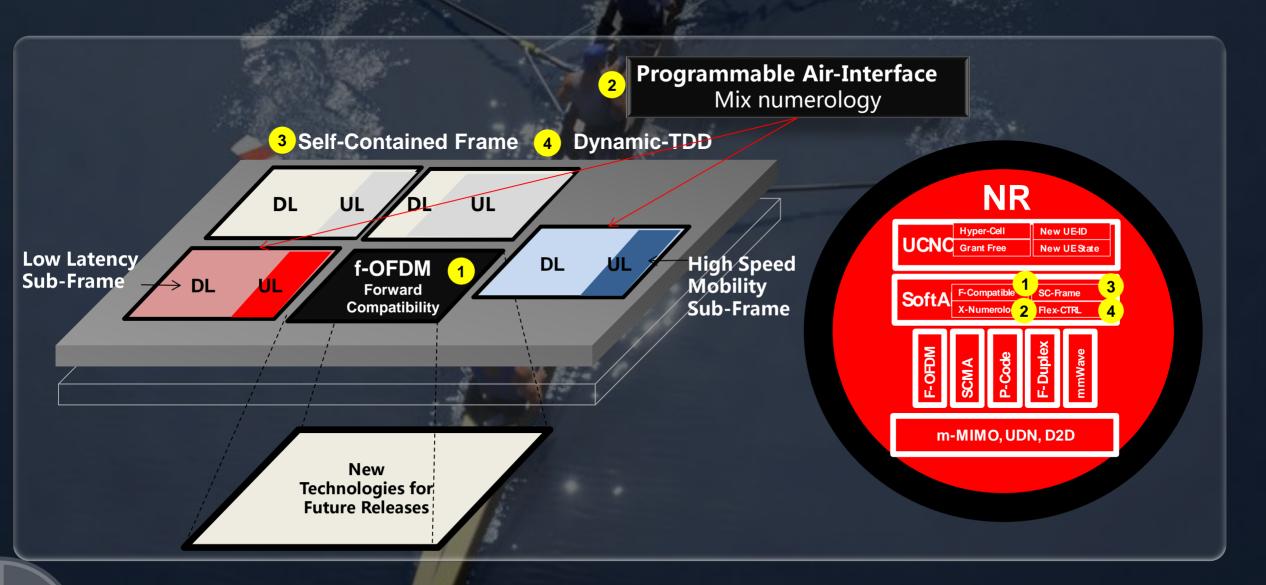






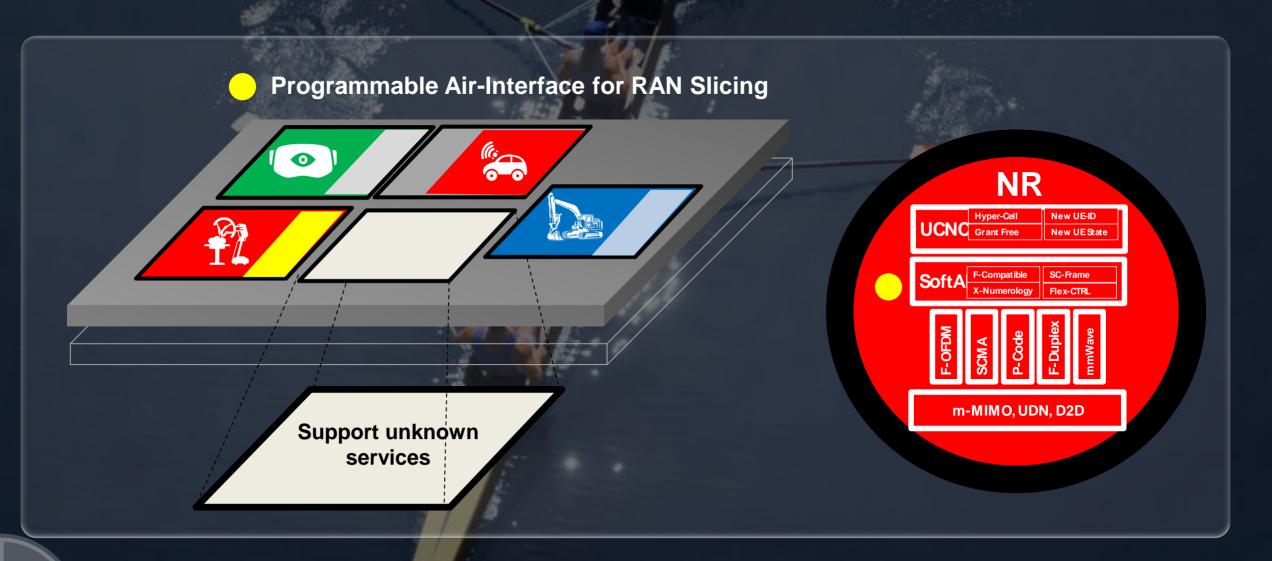
# 5G-NR Air-Interface is Software Defined Air-Interface











# UCNC to Meet Demands of 5G Capabilities by Trial



#### **User Centric No Cell RAN for NR**



# **Priority to C-band and Coordination with High Bands**





- China: 3.4GHz-3.6 GHz for 56 trial, other Sub6GHz bands and above 6GHz to be planned
- Europe: 3.4GHz-3.8 GHz recommended by for 5G, 700MHz for IMT (4G/4.5G/5G) before 2020, High Frequency (25GHz, 32GHz, 42GHz) to be confirmed
- Korea: 26.5GHz-29.5 GHz, 3.4GHz-3.8GHz for 5G trial
- Japan: 3.4GHz-4.2GHz, 4.4-4.9 and high frequency under evaluation for 5G availability
- USA: FCC announced 27.5-28.35 and 37-40GHz for 5G

# First Concrete Step of Cross Industry Collaboration





**5G Automotive Association (5GAA)** Founded in Munich, September 27, 2016





















**Usage Scenario** 



Standardization & Regulation



**Technical Research** 



**Interoperation Test** 

# **Open Collaboration for Global Unified Standard**



### **Industry Collaborations**

#### **Europe**









**Board Member** 

**Key Founder** 

**Key Founder** 

#### Asia







**Board Member** (China)

(Japan)

Leading R&D Partner Leading R&D Partner (Korea)

### **Operator Collaborations**



**Leading R&D Partner** 











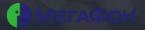


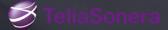














20+ operators

