## **5G Broadcast / Multicast**

When Broadcast natively meets Broadband

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# Agenda

- ▶ R&S Vision
- ▶ 5G Broadcast
- Use Cases
- The Big Picture
- Global Footprint



### **Industry Challenges Meet Emerging Business Cases**

### **Content Provider**

- Reduce distribution costs
- Reaching wider audiences
- More reliable and flexible distribution system
- Look for alternative/enhancement to legacy cellular model

### **BNO**

- Change in customer behavior
- Linear TV is loosing popularity
- Smartphone/Tablets are gaining importance
- Looking for new B2B opportunities



### **MNO**

- Increase of Mobile video consumption incl. Live
- Exploring new services apart from Telco
- Consumers desire premium content anytime-anywhere
- Missing QoS/QoE

### Efficient Media Delivery – Anywhere, Anytime, to everybody

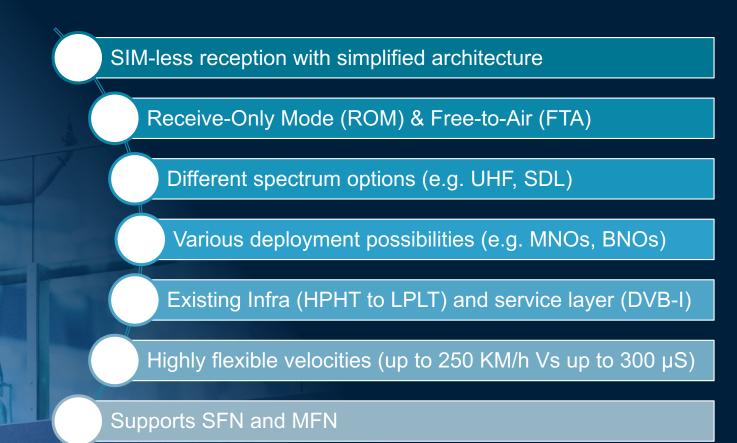
- Usage of Broadcast/Multicast approach together with Unicast → eMBB
- Deployment of overlay network with One-to-Many concept
- Deployment of SDL mixed mode and/or dedicated mode in existing Cellular sites
- Enable Multicast as a Service (MaaS) to explore more business models





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# **5G** Broadcast – Main Features for multiple use cases



## 5G Broadcast Technology - Global Specifications



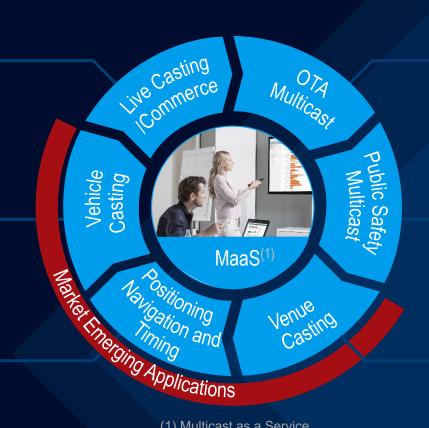
Continuous work towards WRC23

## **Cross-industrial Verticals With New Business Incentives**





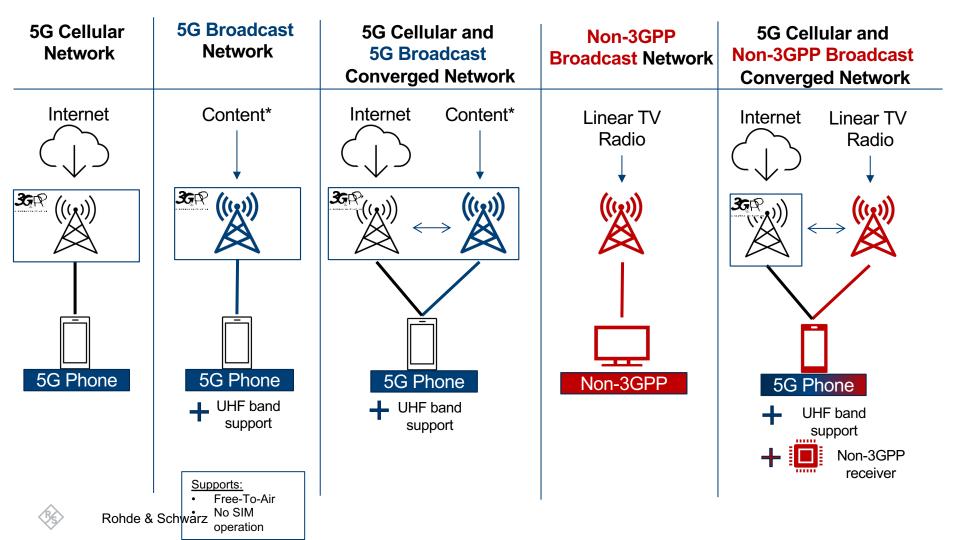












# 5G BC - The BIG Picture

TUB SDR ~36k€/pc

12 prototype QRDs ~13k€/pc

Off-the-Shelf ~600€/pc







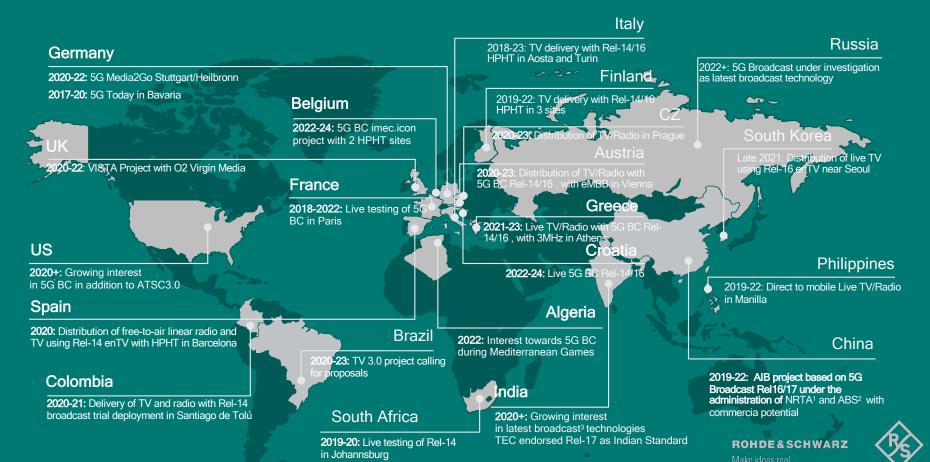
2018

2022

2023

The route towards commercialization

# Significant interests towards 5G broadcast deployment



1 National Radio and Television Administration 2 Academy of Broadcast and Science commercia potential 3 Prasar Bharti working jointly with IIT Kanpur on Next Generation Broadcast Technology

