

5G = NETWORK FOR NETWORKED SOCIETY













AGRICULTURE

















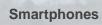
REMOTE MANUFACTURING, TRAINING, SURGERY

LOW COST, LOW ENERGY SMALL DATA VOLUMES

MASSIVE NUMBERS

Enhanced Broadband (eMBB)











Home, Enterprise, Venues, Mobile/Wireless/Fixed







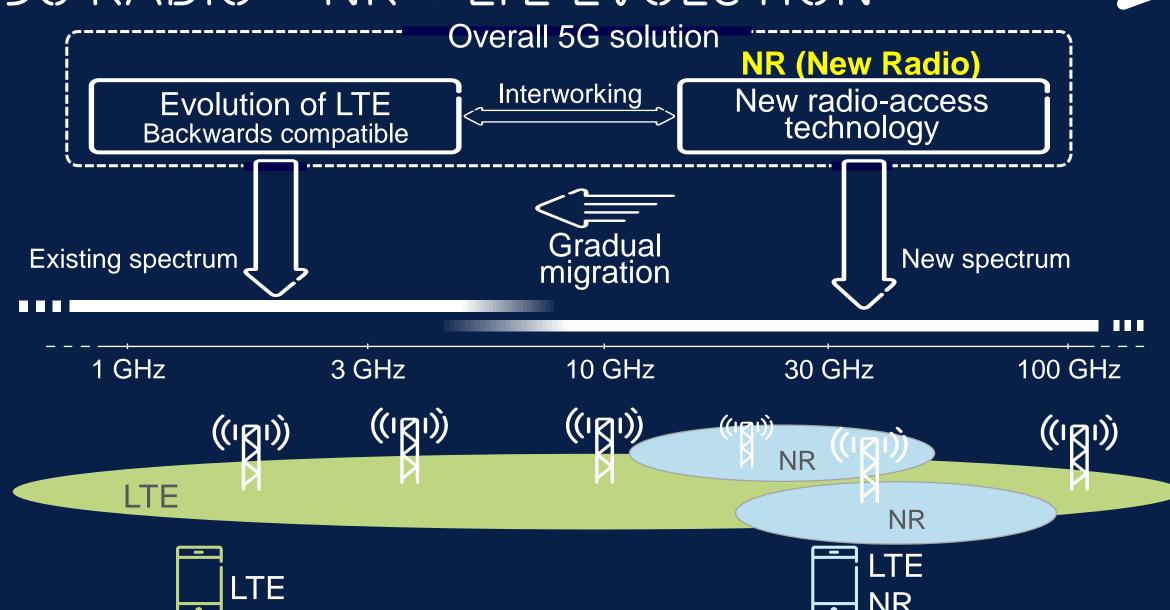
LOW LATENCY. HIGH CAPACITY. HIGH SPEED

devices

4K/8K UHD, Broadcasting, VR/AR

5G RADIO = NR + LTE EVOLUTION





FIRST 5G NR RADIO AIR 6468 (Antenna Integrated Radio)



5G NR RADIO

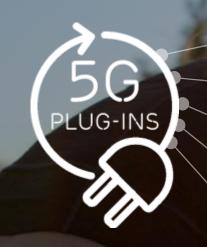
FIRST COMMERCIAL 5G NR MASSIVE MIMO RADIO

- > 64T / 64R active antenna system
- LTE and 5G NR going forward
- Supports 5G plug-ins: Massive MIMO and Multi-user MIMO
- Beamforming as part of Cloud RAN split baseband architecture
- > Works with today's Ericsson Radio System Baseband
- > 5-6 times capacity compared to 8T / 8R configuration
- > First deployments mid 2017 for TD-LTE

ERICSSON 5G PLUG-INS



Innovative SW applying 5G technical concept to 4G



Massive MIMO

Multi-user MIMO

RAN virtualization

Latency reduction

Intelligent connectivity

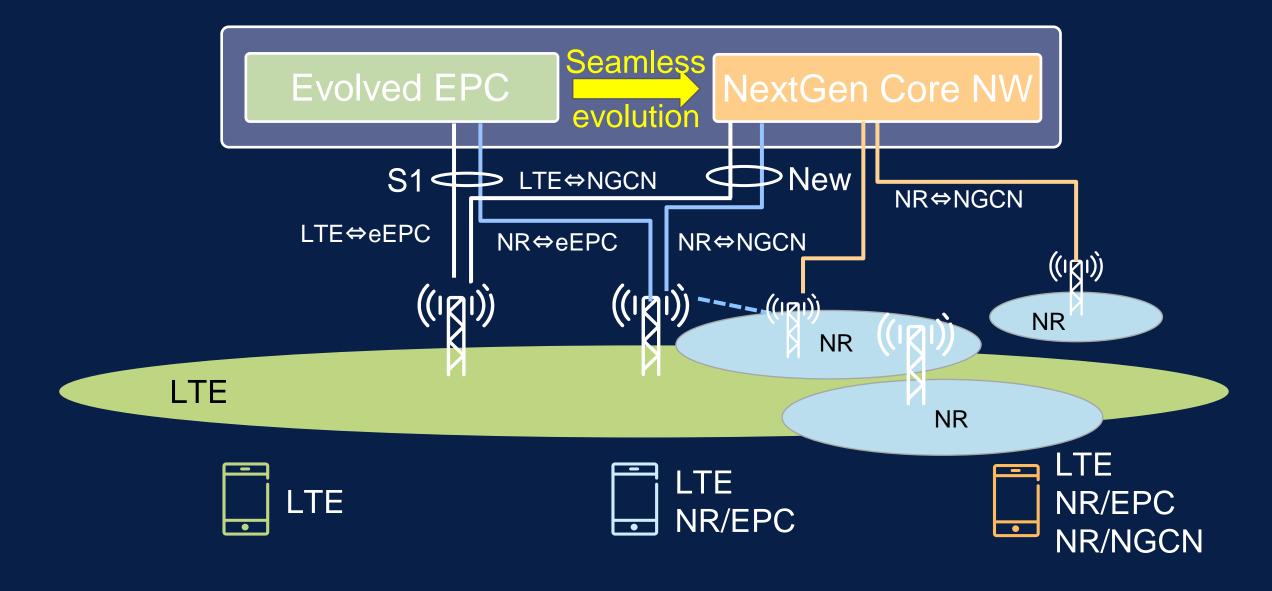


5G

Existing baseband HW re-used with new SW

NETWORK EVOLUTION TOWARDS 5G

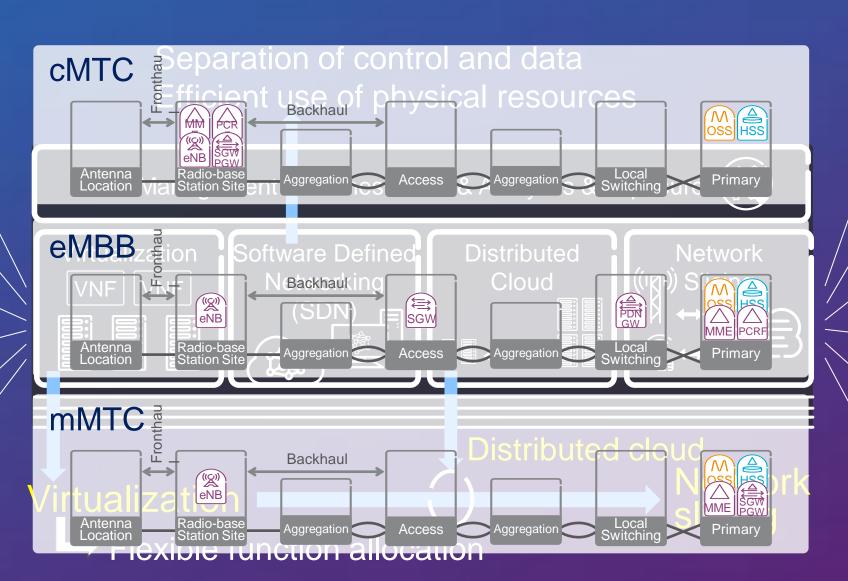




ONE NETWORK FOR VARIOUS USE CASES







ERICSSON 5G RADIO TESTBED











Phase 3

Phase 1

2014~

- 400 MHz BW
- 4 Stream MIMO
- 5+ Gbps Peak Rate
- Scalable OFDM

2015~2016

- 800MHz BW
- Beam Forming/Tracking
- Multi-User MIMO
- 10+ Gbps/user, 20+Gbps/site

2017+~

- End-to-End Trial Network
- From Factor for Pre-Commercial Trial

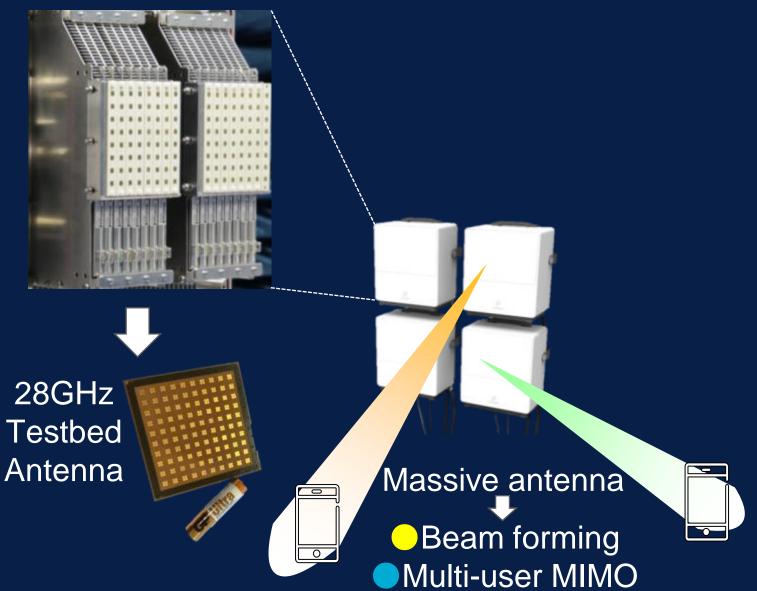
GLOBAL 5G MOMENTUM

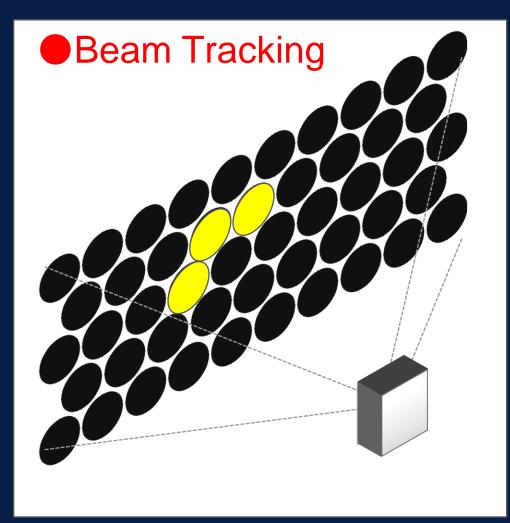




TECHNOLOGY COMPONENTS VERIFIED







5G FIELD TRIALS









CROSS-INDUSTRY 5G TRIALS

INDUSTRIAL MOBILE COMMUNICATION IN MINING

- Evaluate mobile communication infrastructure in an industrial context
- Consider strict requirements on safety and robustness in underground mining



- > Increased productivity
- > Improved Safety
- > Industrial 5G requirements
- > Understanding new eco system, business models, etc.



















5G-ENABLED WORLD CLASS MANUFACTURING

- > Evaluate 5G technology in manufacturing industry
 - Wireless factory communication
 - Industrial Internet of Things (IIoT)
 - Mission critical clouds (MCC)
 - Data analytics



- > Improved production efficiency
- Increased flexibility
- Excellent traceability









CONNECTED MOBILITY ARENA STOCKHOLM

- > Create Europe's leading test site for connected mobility
 - Open innovation platform
 - Open cellular radio connectivity
- Management and control platform
- Efficient management of test activities (system configuration, road authority, etc.)



- > Emergency vehicle prioritization
- > Remote-controlling of platoons
- > Automatic service orchestration

















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