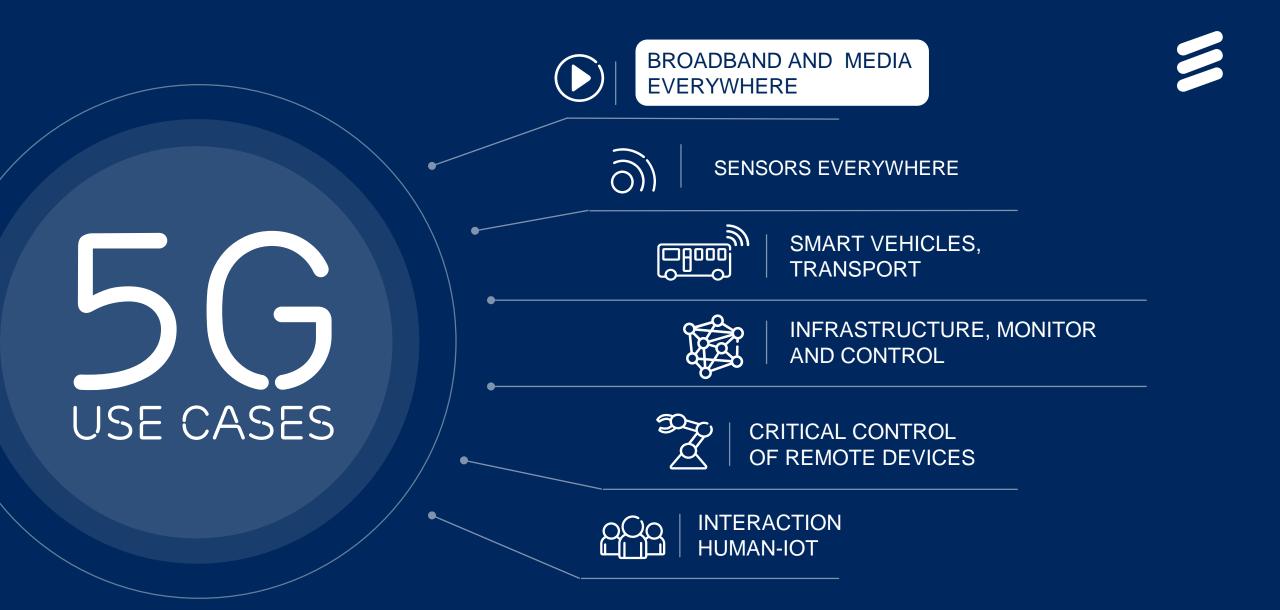
5G – NETWORKING PERSPECTIVE

JARI ARKKO SENIOR EXPERT ERICSSON RESEARCH



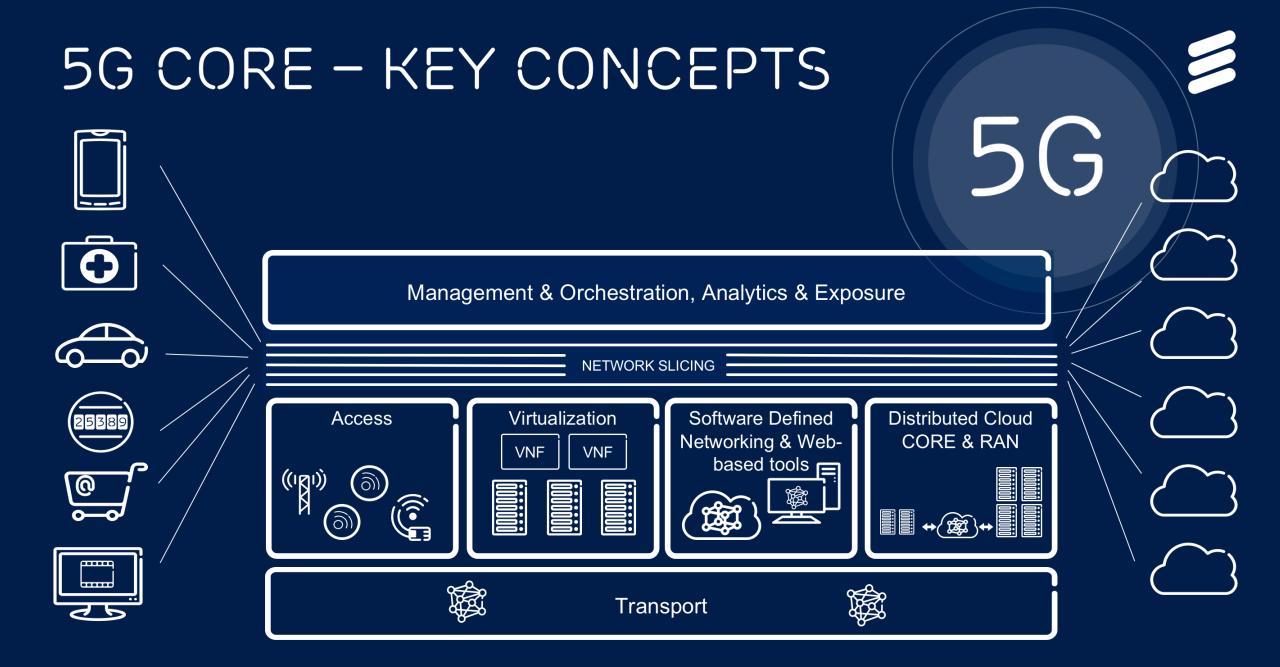
ONGOING CHANGES IN THE NETWORKING WORLD





5G BUSINESS DRIVERS AND SUCCESS FACTORS

- Global ecosystem Multiple use cases with one global eco-system (Leveraging scale; industry alignment, collaboration)
- Enable new business IoT, media and industry transformation (Relevance to other industries, and new capabilities for digitalization)
- Flexibility, speed of change Ability to support different needs (To support the new business, and to enable faster evolution)
- Leverage best IT & networking technologies (For scale, cost, ease of deployment)
- Industry alignment Collaboration
 (A broad set of use cases requires collaboration, standards, and open source)



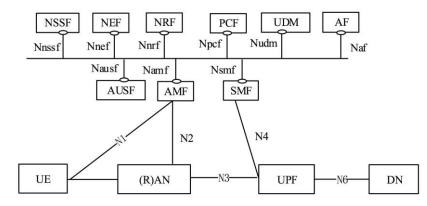
5G CORE – KEY FEATURES

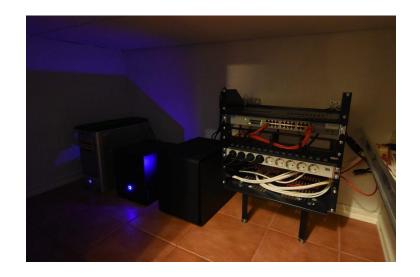


> NETWORK SLICING IS A KEY ENABLER

- SEPARATION OF CONCERNS
- DIFFERENT USE CASES
- > 2ND KEY ENABLER IS SERVICE BASED ARCHITECTURE
 - EASY INTRODUCTION OF NEW SERVICES
 - MOVE CLOSER TO MAINSTREAM IT
 - WEB-BASED APIS REPLACING DIAMETER

> FLEXIBLE USER AUTHENTICATION ARCHITECTURE









- > EASIER TO BUILD NEW NETWORK PARTS, GIVEN ALL THE TOOLS
- > EASIER FOR DIFFERENT PARTIES TO CONTRIBUTE
- > WE AS INDUSTRY HAVE A LOT TO LEARN, CHANGING TOOLS IS EASIER THAN CHANGING MINDSETS
- > RUNNING CODE & NEED TO GAIN EXPERIENCE
- > FURTHER EVOLUTION IS EXPECTED & WELCOME!

SUMMARY

AS A WHOLE, NETWORKING IS UNDERGOING SIGNIFICANT CHANGES 5G SYSTEMS AS A WHOLE GET TO USE AND EXPERIENCE, MANY OF THOSE CHANGES MORE EVOLUTION TO COME - SPEED OF CHANGE IS CHANGING OPPORTUNITIES IN THE ECOSYSTEM

ERICSSON