



WHAT IS 5G?

- MONDERFUL NEW TECH, THAT IS GOING TO MANAGE ALL YOUR COMMUNICATION NEEDS, BE SUPER FAST
- ALSO, A COMPLETE REVOLUTION IN HOW YOU COMMUNICATE



WHAT IS 5G?

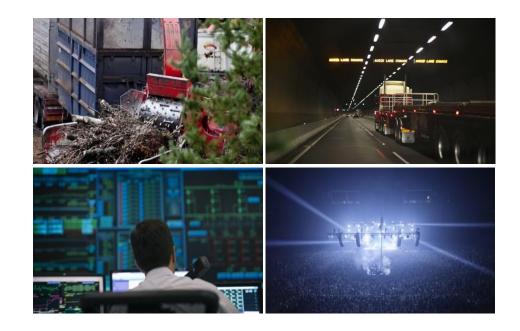
- MONDERFUL NEW TECH, THAT IS GOING TO MANAGE ALL YOUR COMMUNICATION NEEDS, BE SUPER FAST
- ALSO, A COMPLETE REVOLUTION IN HOW YOU COMMUNICATE
- ... OR IS IT?



SOME 5G REVOLUTIONS



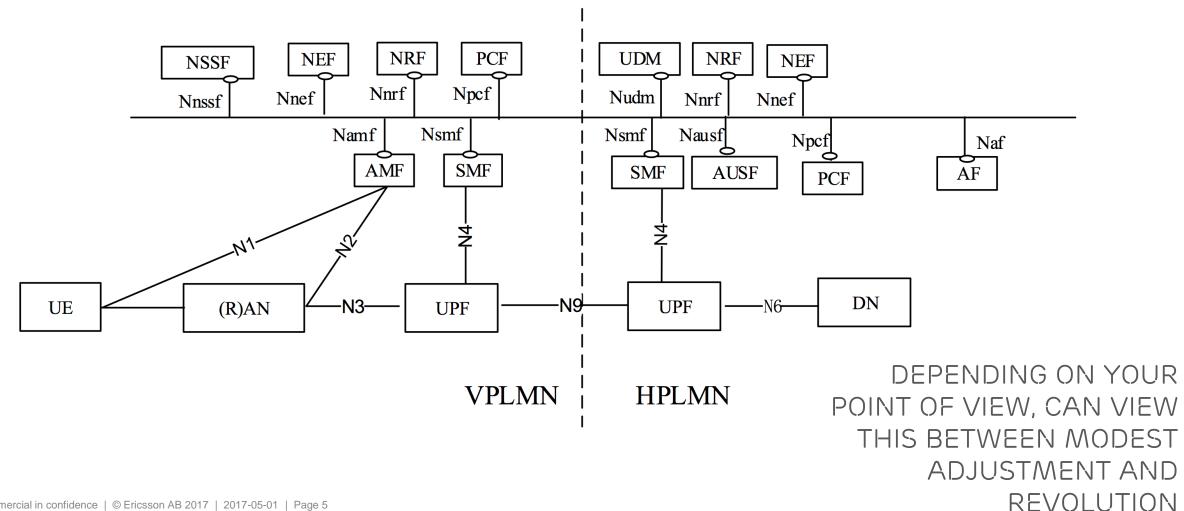
TRULY AMAZING RADIO



USES CASES INTEGRATED
TO OTHER INDUSTRIES

WHAT ABOUT THE SYSTEM ARCHITECTURE & NETWORKING?









WHILE THERE ARE ARCHITECTURAL CHANGES...

- LARGELY THE SAME ENTITIES REMAIN
- MANY OF THE CHANGES ARE AFFECT PROTOCOL DETAILS
- MOST OF THE CARRIED TRAFFIC IS STILL TOWARDS INTERNET-BASED SERVICES

MANY CHANGES HAPPENING AT THE SAME TIME





WHY THIS MIGHT BE MERE REVOLUTION



- MOVING SYSTEMS TO CLOUD PLATFORMS
- VIRTUALISING SERVICES AND FUNCTIONS, AND MAKING NETWORKS PROGRAMMABLE
- BUILDING MANY THINGS ON OPEN SOURCE
- ARCHITECTURE 5G AND CHANGING SYSTEM
- BUILDING MORE FUNCTIONS ON TOP OF THE WEB

BACK TO THE 5G ARCHITECTURE



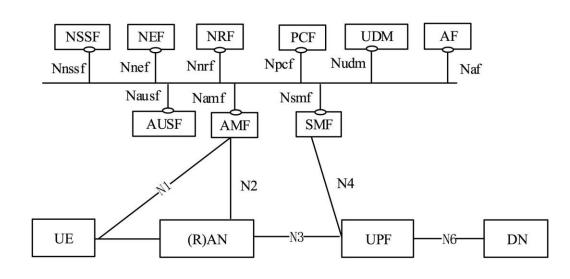
SOME OF THE CHANGES INCLUDE:

- PROVIDE A FLEXIBLE PLATFORM TO BUILD THE CORE NETWORK ON
- SE OF A GENERAL AUTHENTICATION FRAMEWORK (EAP)
- > SLICING





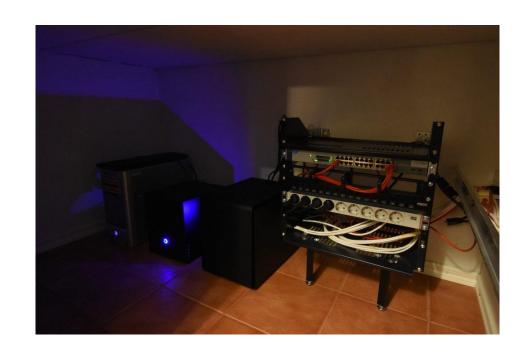
- WEB-BASED APIS REPLACE DIAMETER INTERFACES
 - >HTTP/2, JSON, REST, ...
- > MAINSTREAM IT
- >FLEXIBILITY, FASTER EVOLUTION, LESS SPECIALISED



OBSERVATIONS ON THE NEW SBA ARCHITECTURE



- > CLEARLY THE RIGHT DIRECTION
- > AMAZING THINGS CAN BE DONE EASILY, GIVEN ALL THE TOOLS
- > WE AS INDUSTRY HAVE A LOT TO LEARN



- > FURTHER EVOLUTION EXPECTED AS WE REALISE THE UNDERLYING CLOUD & VIRTUALIZATION CAPABILITIES
- > RUNNING CODE & NEED TO GAIN EXPERIENCE



- AS A WHOLE, NETWORKING IS

 UNDERGOING SIGNIFICANT CHANGES
- SYSTEMS AS A WHOLE GET TO USE AND EXPERIENCE, MANY OF THOSE CHANGES
- MORE EVOLUTION TO COME, LONG LEARNING CURVE

