

ERICSSON'S 5G PERSPECTIVE



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DRIVING 5G EVOLUTION

New Use Cases & Business Models



Massive MTC



Mission Critical MTC



New deployment options

New Tools



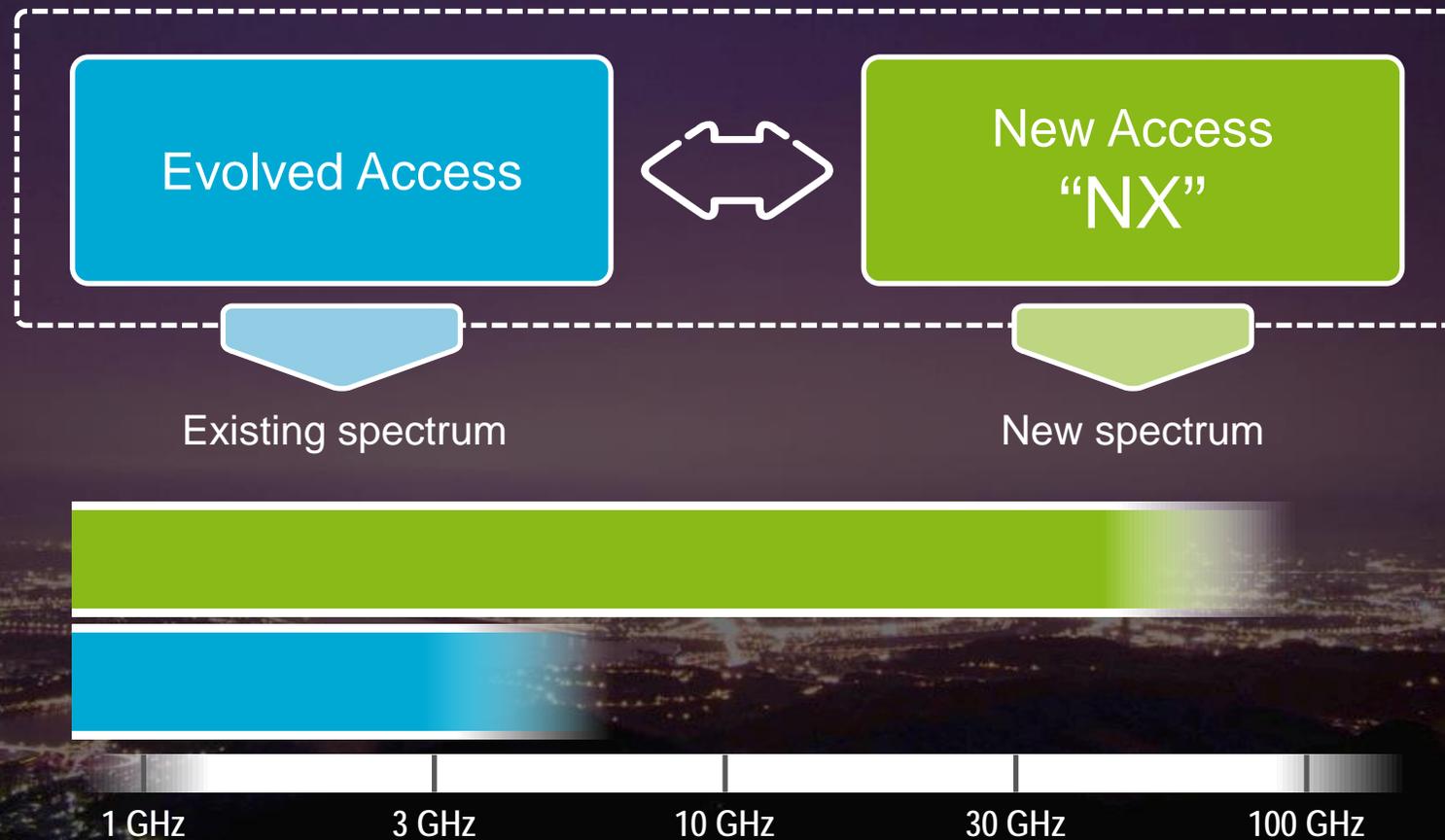
Enhanced Broadband



Operational Efficiency



5G SPECTRUM AND RADIO ACCESS



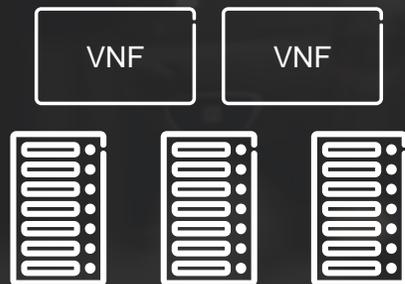


5G CORE NETWORK EVOLUTION

Management & Orchestration, Analytics & Exposure



Virtualization



Software Defined Networking (SDN)



Distributed Cloud



Network Slicing





KEY NX TECHNOLOGIES

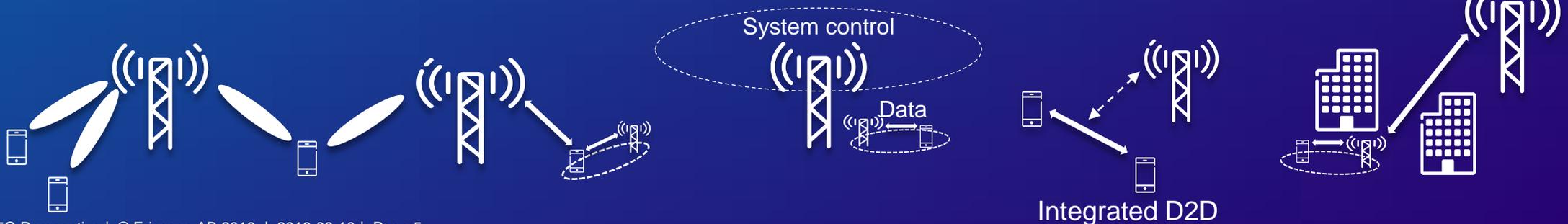
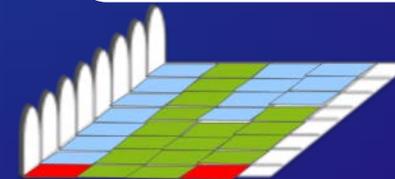
MULTI-ANTENNA/SITE CONNECTIVITY
including Distributed MIMO

SEPARATION OF DATA AND CONTROL PLANE

NEW CONNECTIVITY LAYERS
Wireless backhaul, D2D, ...

ULTRA LEAN DESIGN
User throughput and Energy Efficiency

FLEXIBLE AND SCALABLE LAYER 1 DESIGN
Flexible OFDM, dynamic TDD, ...





5G SECURITY



NEW BUSINESS & TRUST MODELS



NEW SERVICE DELIVERY MODELS



INCREASED PRIVACY CONCERNS



EVOLVED THREAT LANDSCAPE

Govt role should encourage public-private partnership without mandates

IoT security offers new challenges

- 5G outside telco domain, roaming between telco and industry verticals, third-party VNFs in 5G network, change in device mix

Security Assurance

- 3GPP SECAM solution for telecom
- How will the 5G standard be affected by assurance models for verticals?
 - › Network Slicing is a solution

<http://www.ericsson.com/res/docs/whitepapers/wp-5g-security.pdf>



5G ACCESS TIMEPLAN



ABBREVIATIONS

Abbrev.	Description
3GPP	3 rd Generation Partnership Project
D2D	Device-to-device
evo	Evolution
IMT	International Mobile Telecommunications
ITU	International Telecommunications Union
LTE	Long Term Evolution
MTC	Machine Type Communication
OFDM	Orthogonal Frequency Division Multiplexing
SDN	Software Defined Networking
TDD	Time Division Duplex
VNF	Virtual Network Function



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