ITU Regional Forum on Emergent Technologies

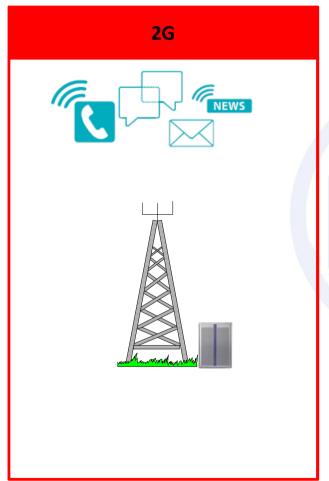
5G Deployment : Opportunities and Business Models

Tunis, Tunisia 23-24 April 2019

Dr. Eng. Mohamed Tahar MISSAOUI Studies Director, SUPCOM University INTT Board Member



Mobile Network Evolution

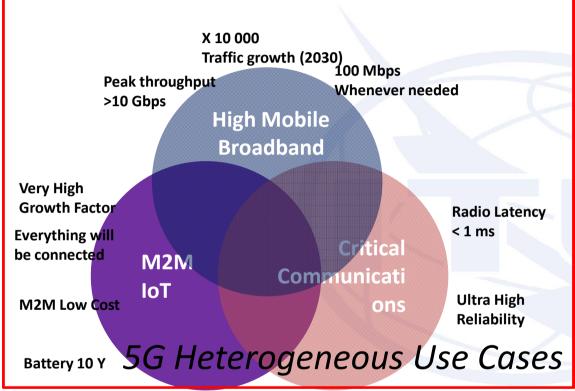








5G New Opportunities/ New Business cases

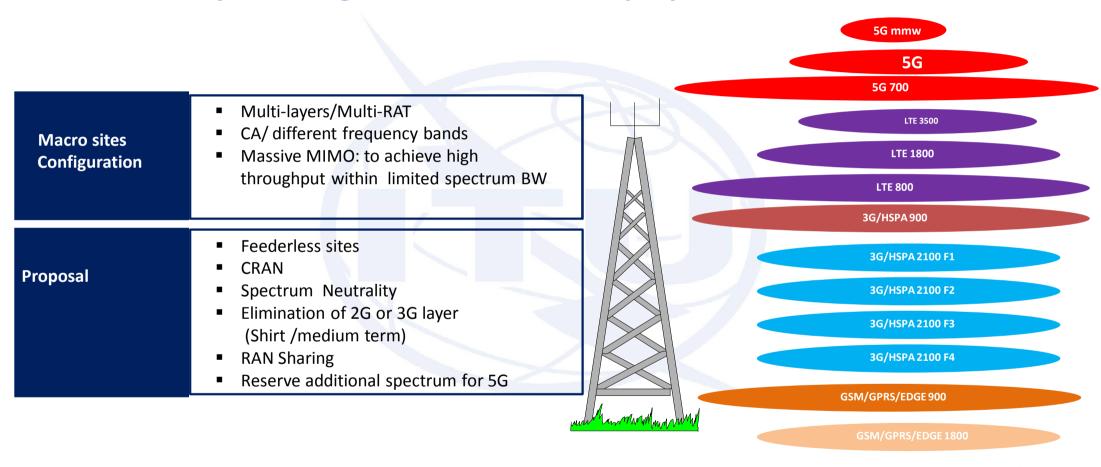


"IHS Markit estimates the potential global sales across multiple industry sectors enabled by 5G could reach \$12.3 trillion in 2035"

Extracted from "The 5G economy: How 5G Technology will contribute to the global economy" HIS Economics/HIS Technology, report, pp 16

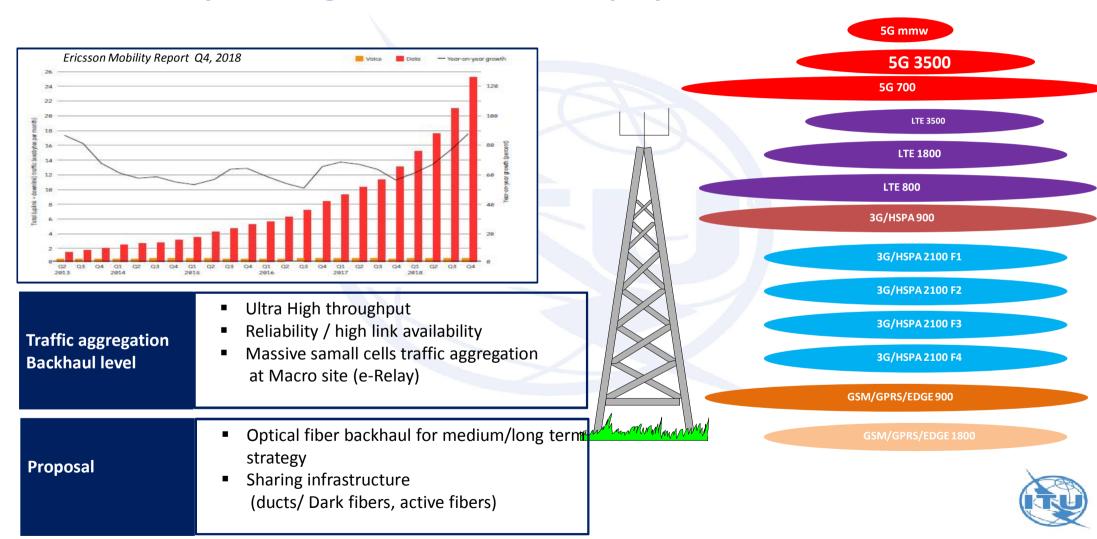


Key Challenges in 5G network deployment : Radio Part

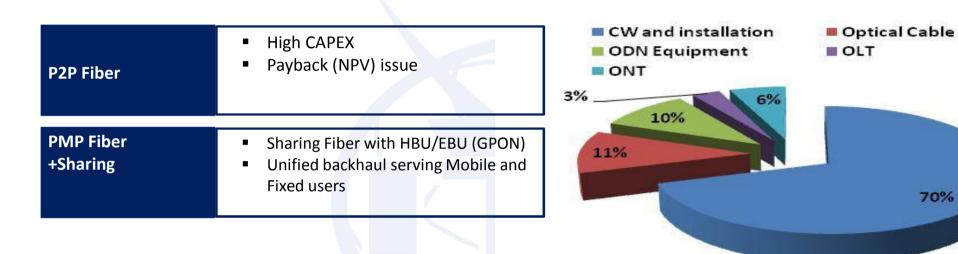




key challenges in 5G network deployment: Backhaul Part



key challenges in 5G network deployment: Backhaul Part Fixed- Mobile backhaul convergence



FTTH elements cost Distribution

70%

Integrated Backhauling solution:

- **Serving enterprises and Homes located around the fiber itinerary**
- Reduced OPEX and enhanced NPV

key challenges in 5G network deployment: Backhaul Part Fixed- Mobile backhaul convergence - FWA

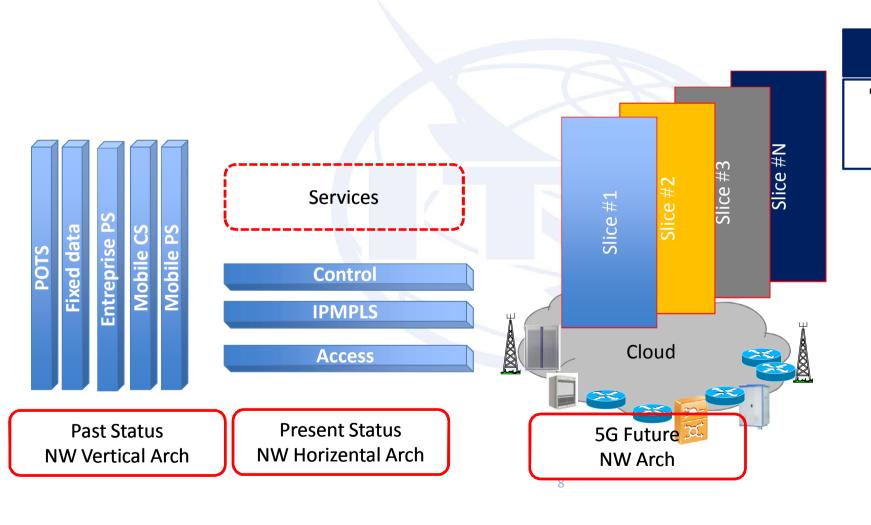


FWA

- Enabling easy customers connections
- Very High BB services penetration growth
- Radio-Fiber complementarity



key challenges in 5G network deployment: Core NW Part

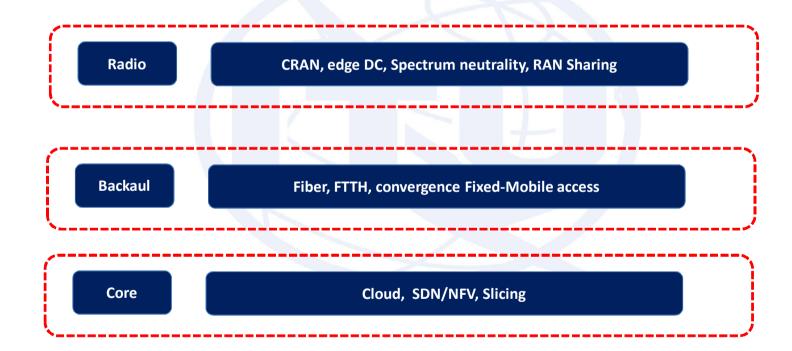


Prepare the Core NW for the future

- Cloudify the Core NW
 - Upgrade the core to SDN/NFV
 - Mini DC at Edge NW



key challenges in 5G network deployment: summary





"Digital Growth Depends More on Business Models than Technology"

Mark W. Johnson

Harvard Business review, December 14, 2018





