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DEAL
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DENVER, CO
OCTOBER 17-20



FIXED MOBILE CONVERGENCE

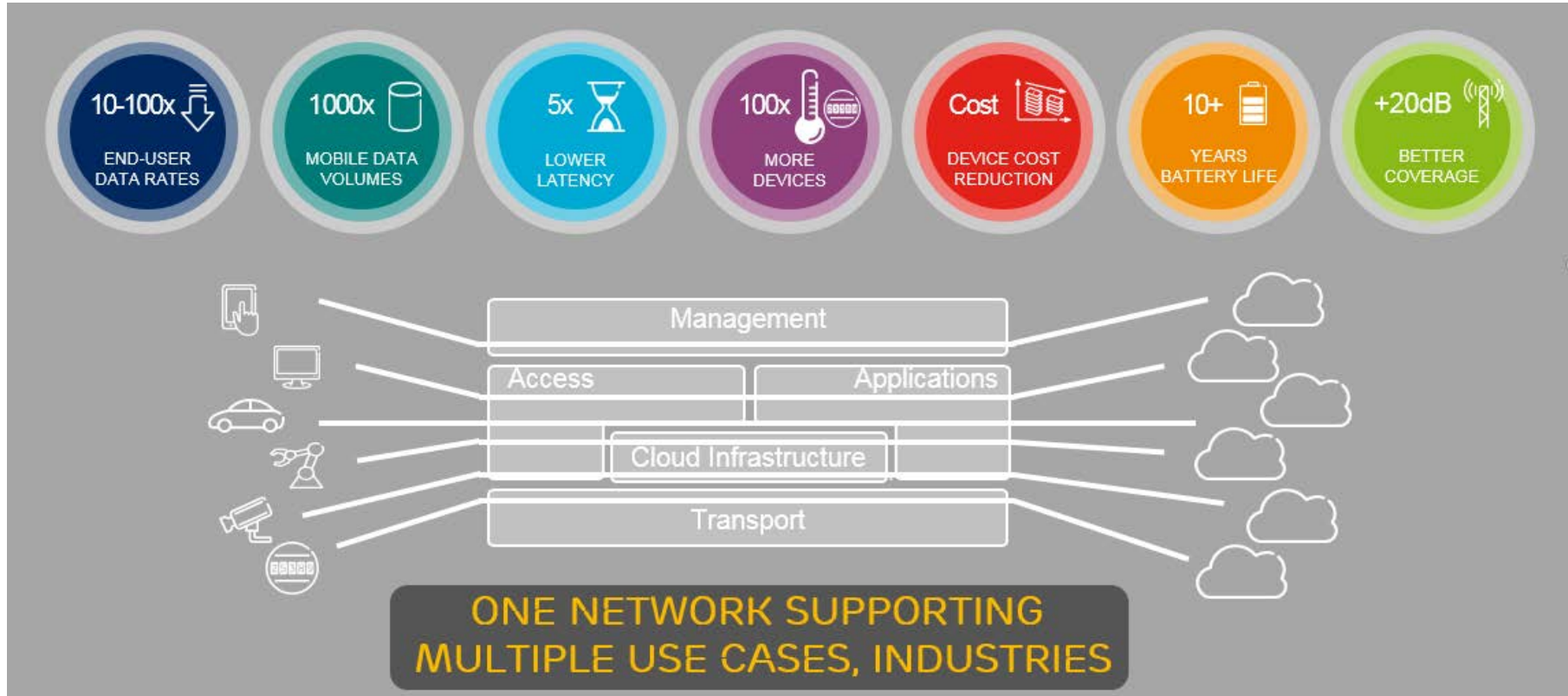
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FIXED MOBILE CONVERGENCE IN THE TRANSITION TO 5G

Glenn Laxdal
Ericsson



DENVER, CO
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EXAMPLE USE CASES FOR 5G EXTEND BEYOND 4G



5G
Stop a self-driving car faster



Drone control & communication



Virtual reality / hologram



Fixed wireless broadband



10-year battery life for remote sensors



Full-length HD movie in seconds



Remotely operate robots

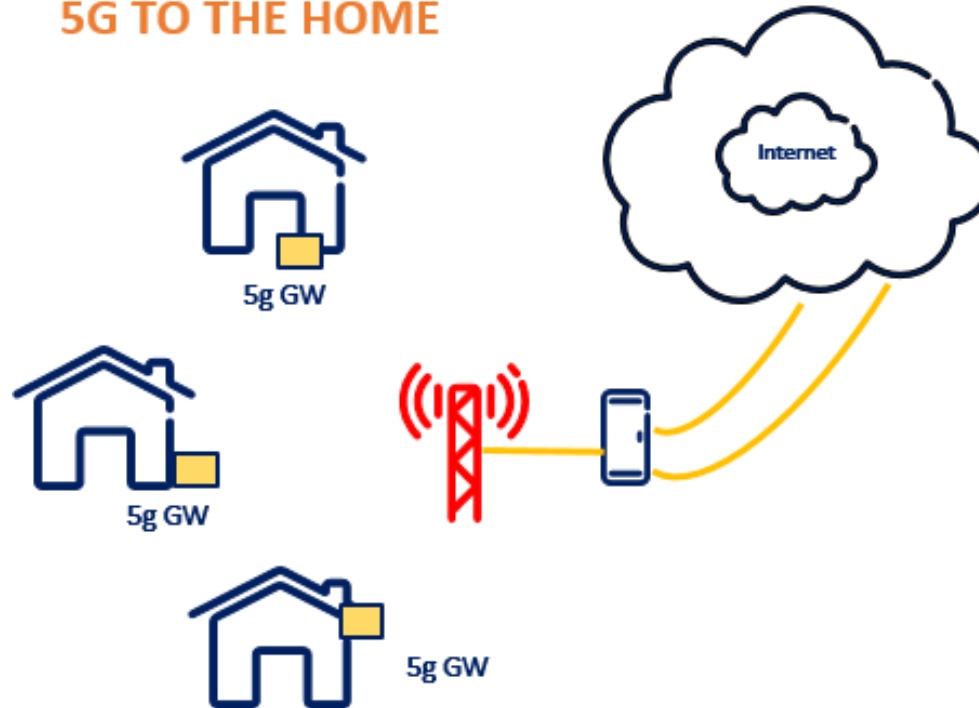
Opportunities with 5G

New Use Cases expand the potential for wireless beyond Mobile Broadband

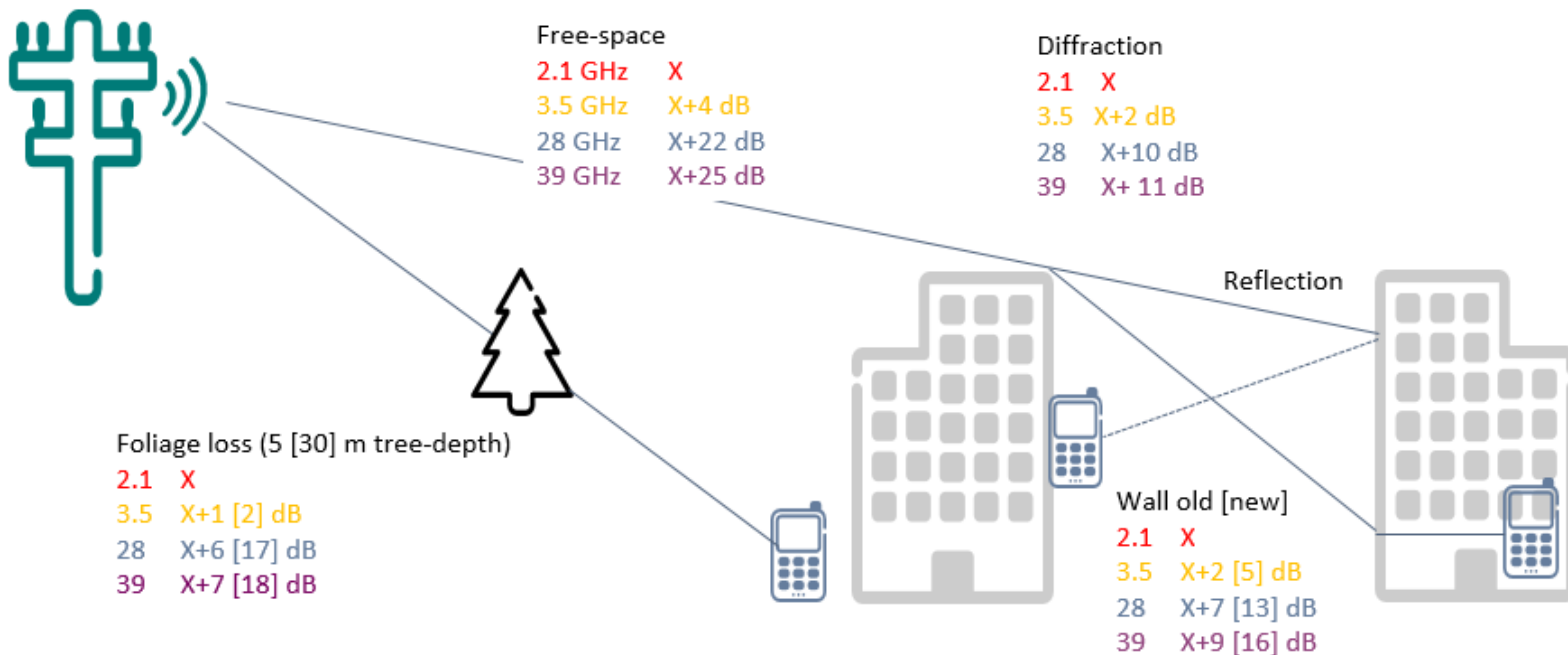
New capabilities enables services with **New Business Models** targeting new customers and industries.

Applications using 5G capabilities **Enables new revenue streams** for operators and MSOs.

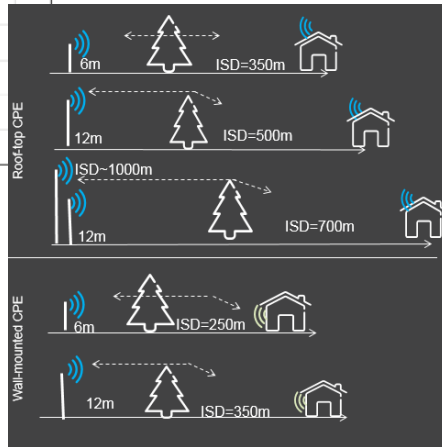
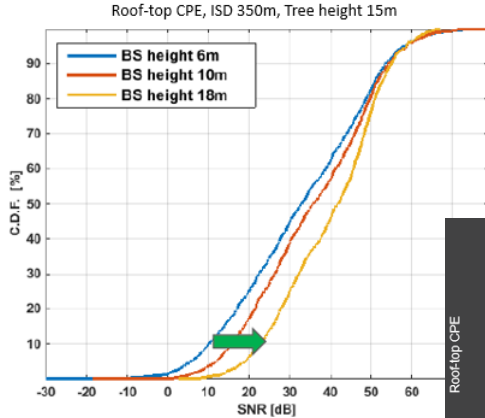
5G TO THE HOME



LINK BUDGET COMPARISONS



Impact on Base Station Antenna height



Deployment in mmWave

The coverage achievable by deployment in mmWave is sensitive to the locations of both the Base Station and CPE antenna

Deployment above, or close to, rooftops can provide equivalent service with a larger Inter-site distance (ISD). Mixed heights of CPE provides a good balance.

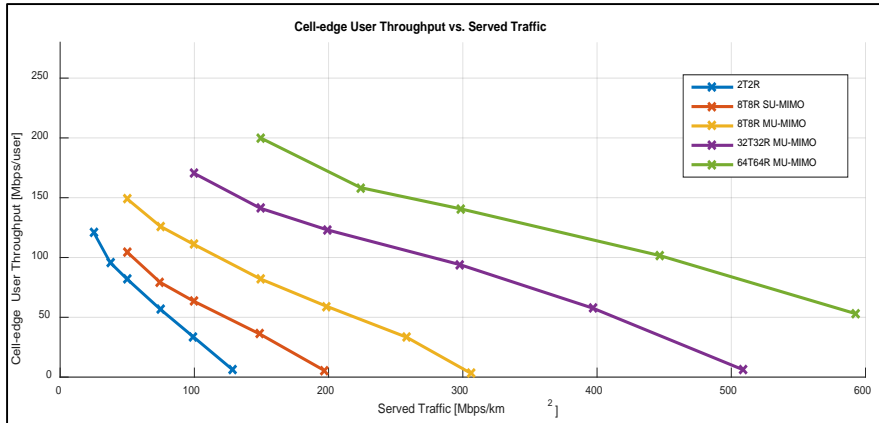
High throughput and capacity makes 5G mmWave attractive for deployment in urban and dense suburban areas.

MU-MIMO in 3.5 GHz band

High capacity demands with Fixed Wireless Access often make mid-band deployment capacity constrained due to limited available spectrum.

High order of Beamforming combined with MU-MIMO provides a significant increase in cell capacity.

MU-MIMO and moderate amount of spectrum makes 3.5 GHz band attractive for FWA in suburban areas.



Conclusion

5G provides new technologies and gives access to new spectrum which allows for the large growth in data usage driven by adaption of more individualized video consumption

The increased capacity enabled by 5G technologies makes it suitable for providing Fixed Wireless Access to residential and enterprise customers

Leverage 5G in the convergence of wireless and wireline business will give an operators or MSO a flexible network that enables the opportunity to offer a wide range of communication services

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THANK YOU!

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