

5G Fixed wir eless Access, technology and performance

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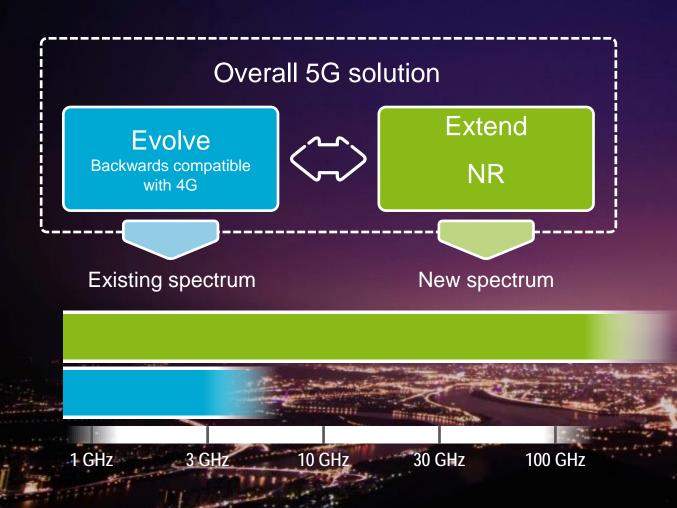
Evolution of Use Cases



To enable new revenue streams, new business models, new use cases

5G Radio Access



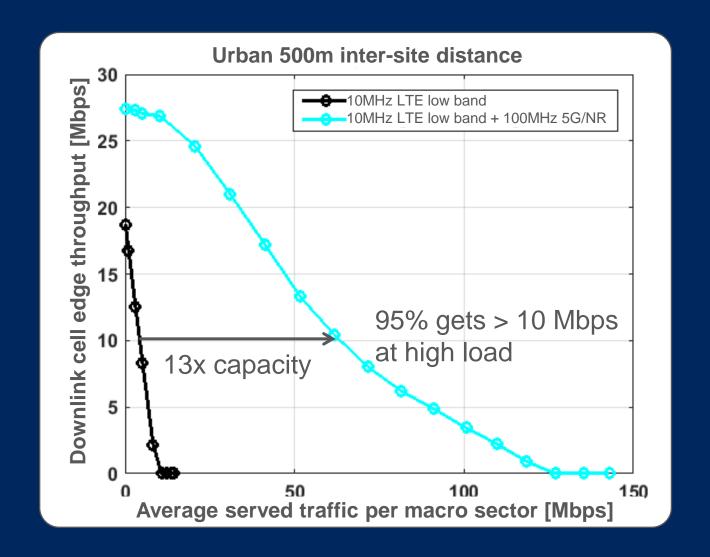


- Evolution of existing technology adding new RAN technology
- Combined allows rapid switching based on radio conditions
- Gradual migration of new technology into existing spectrum
- Flexible connections for multiple services

Enhanced Mobile Broadband

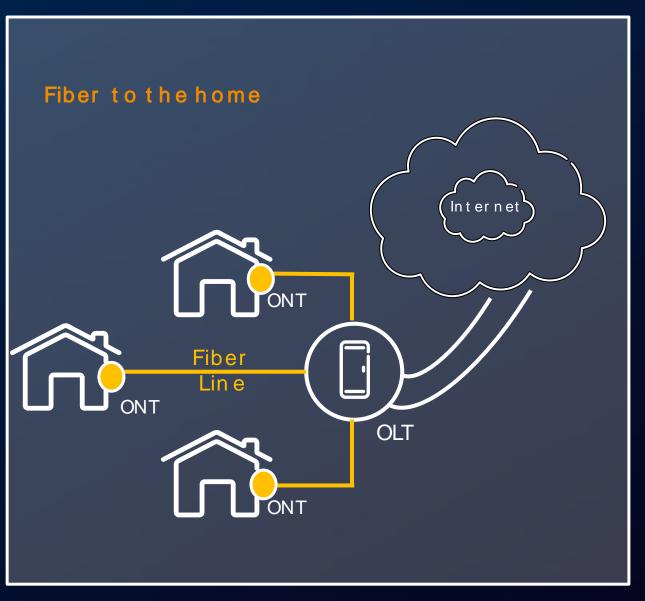


Adding 5G/NR at high band 5G/NR high band LTE low band



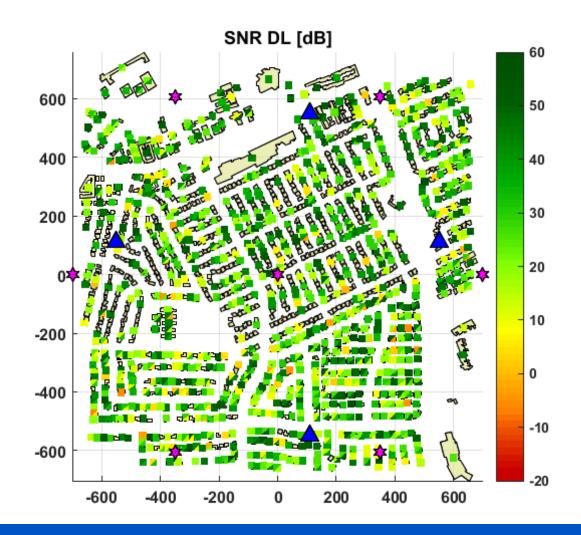
Fixed Wireless Access







Fixed Wireless Access (28 GHz)



Optimum Coverage with Rooftop CPEs, 35 ft. Utility Poles

Roof-top CPE



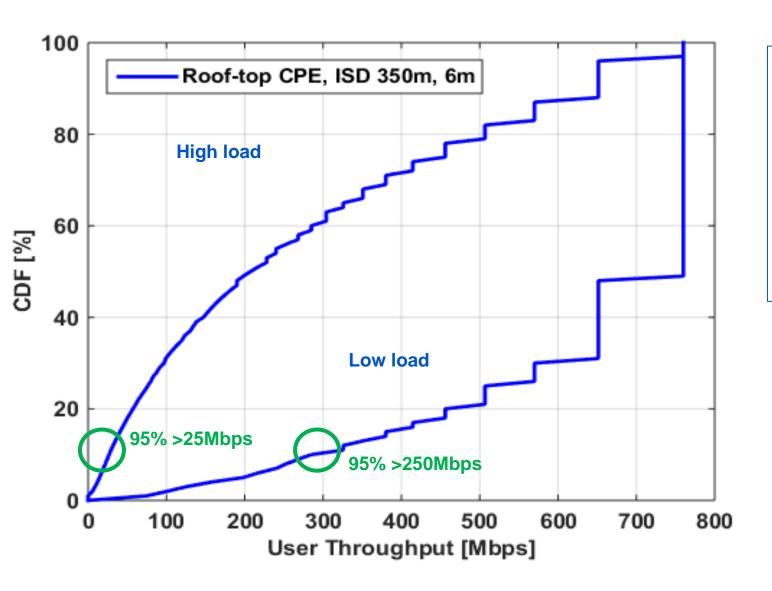
12m ISD=500m





Fixed Wireless Access Performance





- **❖ 200 MHz Spectrum Block**
- 100 Mbps Offered Speed / 25 Mbps Busy Hour Household Consumption
- Low Load Marketed Speed
- High load Busy Hour HH Consumption
- 90 homes covered
- 18 homes connected

Summary & Conclusions





Enhanced Mobile Broadband

- 5G deployment will enhance the existing 4G mobile experience
- 5G will interwork seamlessly with 4G
- Coordinating a high band 5G carrier with a low band 4G carrier drives capacity gains



Fixed Wireless Access

- 5G will also be deployed for Fixed Wireless Access
- Can engineer the network for speeds of 100 Mbps to 1 Gbps
- 5G FWA performance is dependent on base station antenna height and CPE mounting



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