

What will 6G bring?

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Outline



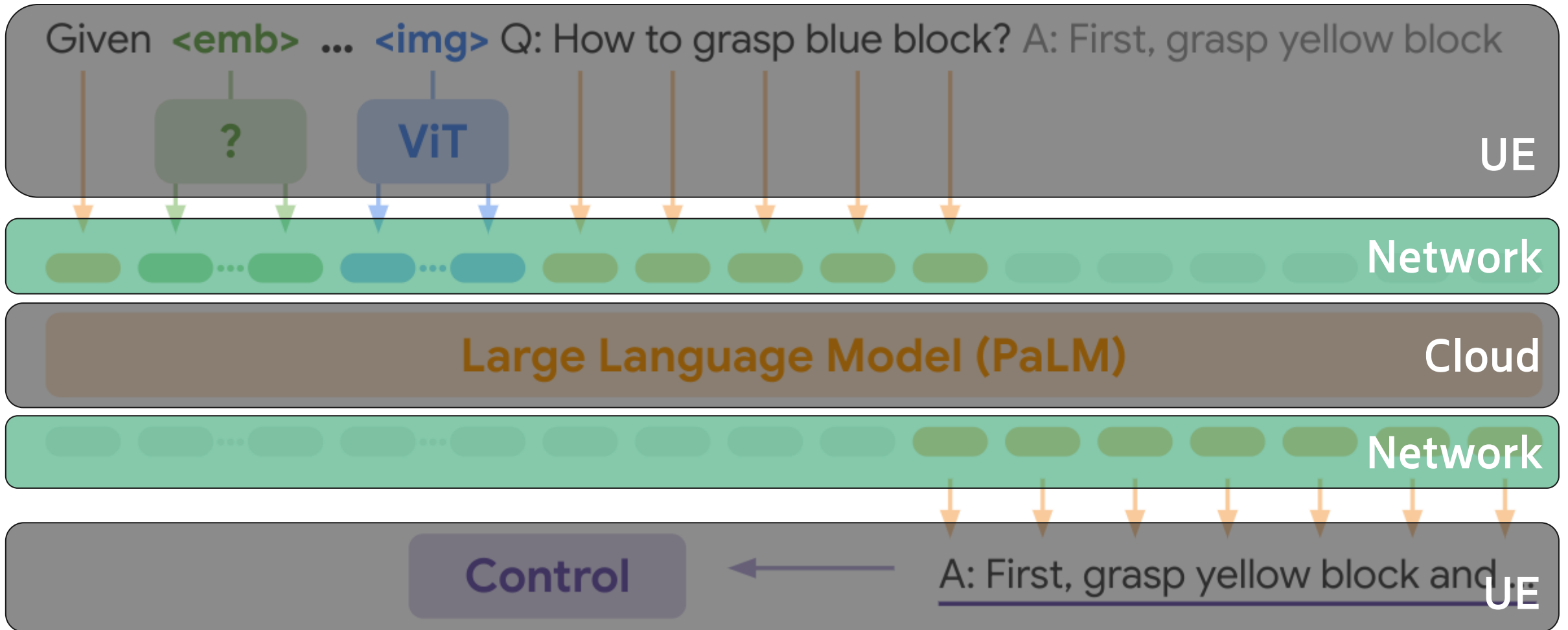
AI-over-the-Air

Uplink capacity

Remote-rendered XR

5G/6G Migration

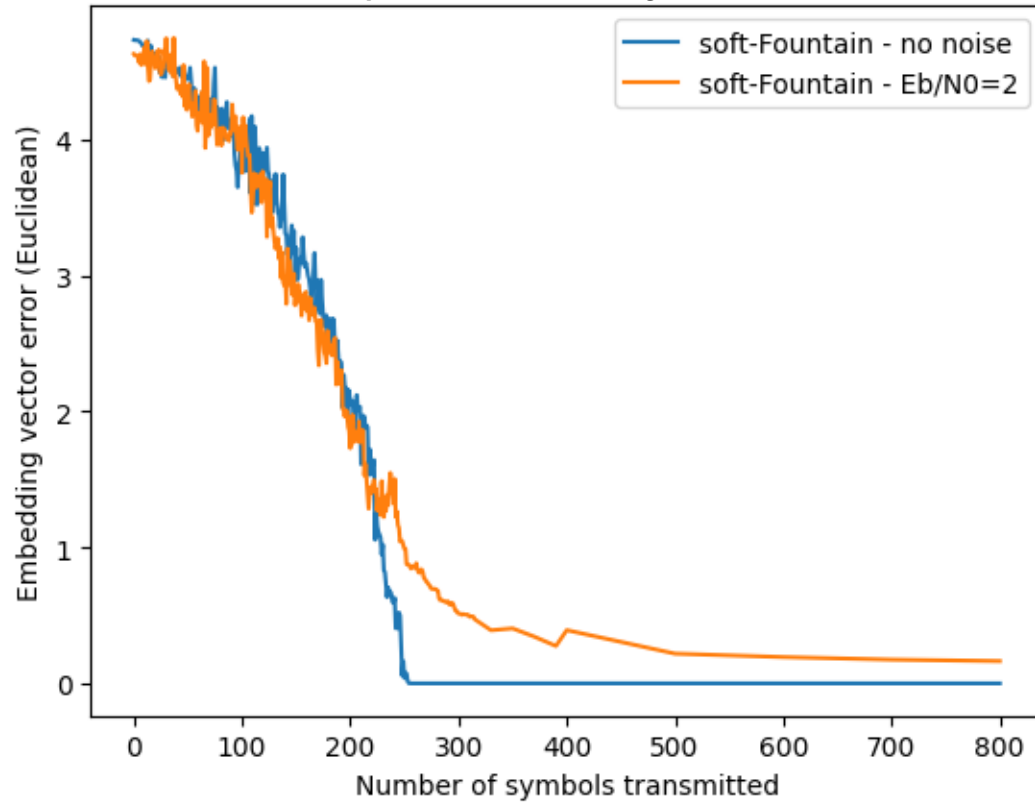
AI-over-the-Air Applications



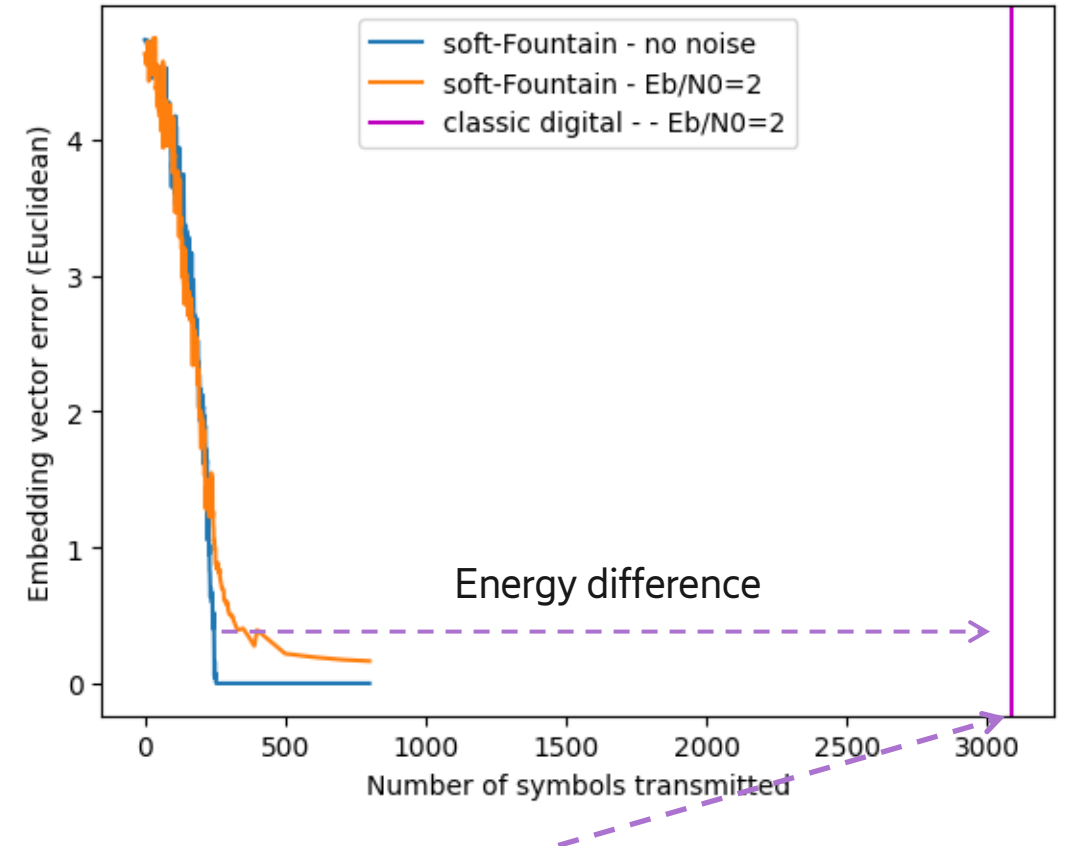
Soft-Fountain simulations



Gradual convergence of received vector
- minimal impact from noisy channel



With orders of magnitude less energy

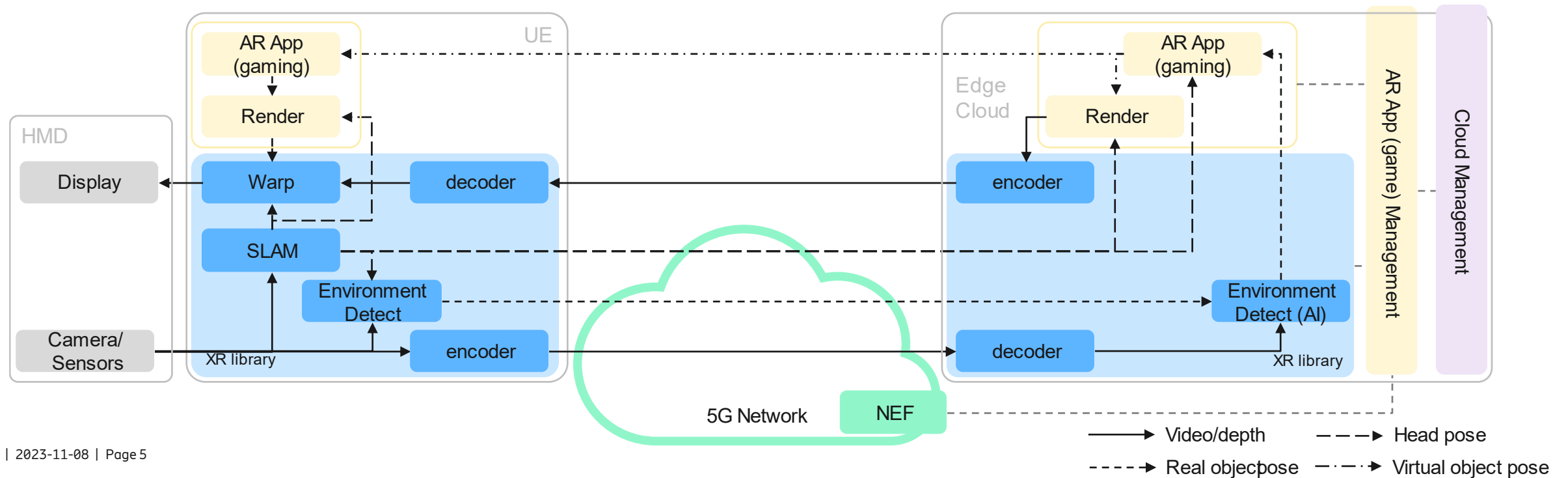


Embedding vector becomes available much later and using orders of magnitude more energy with "classic" digital

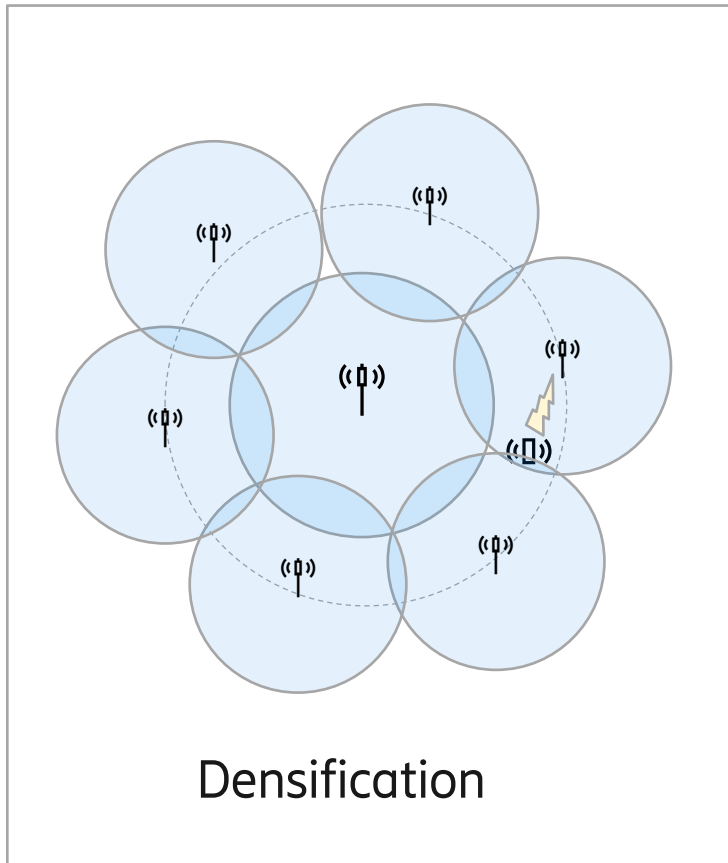
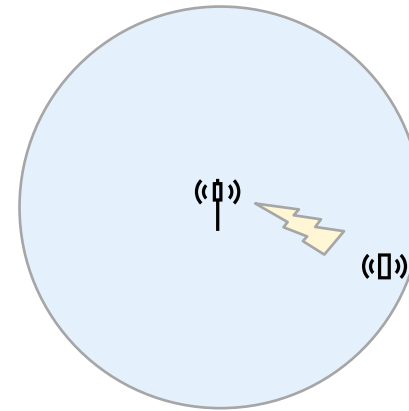
Remote-rendered XR Application



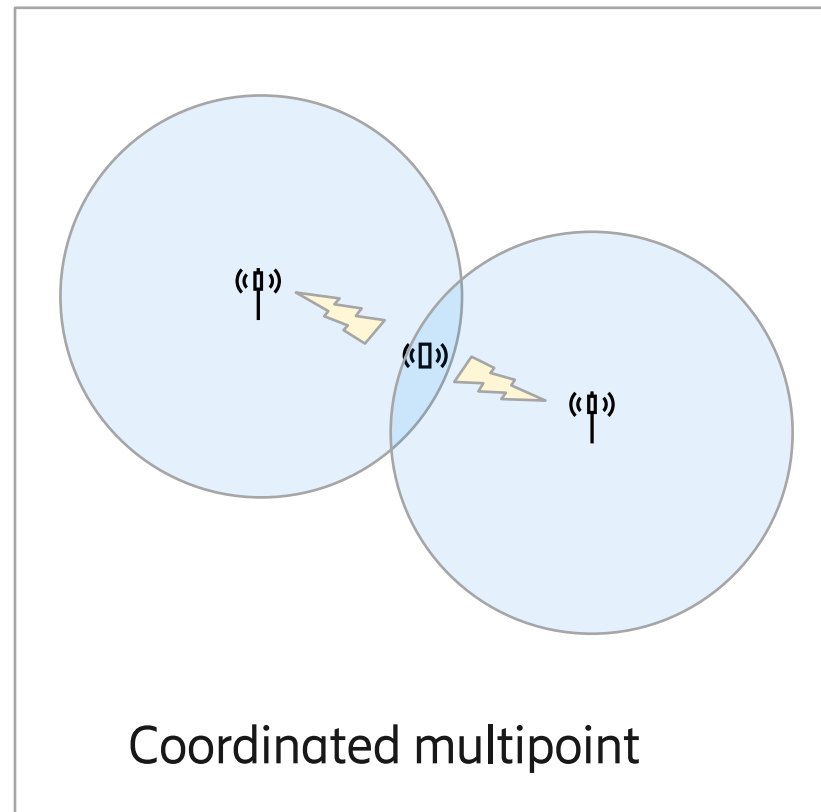
- Dynamic split of tasks between device and cloud
- Several channels of communication
- Low latency, high bandwidth uplink



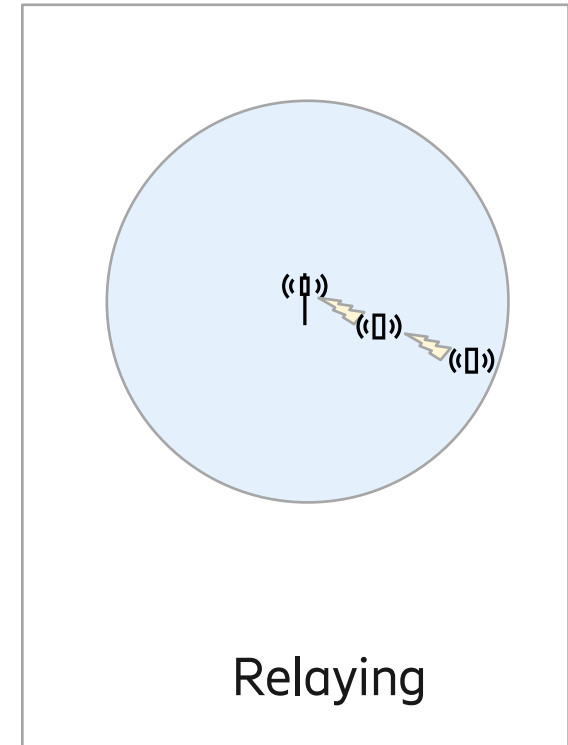
Uplink link performance



Densification

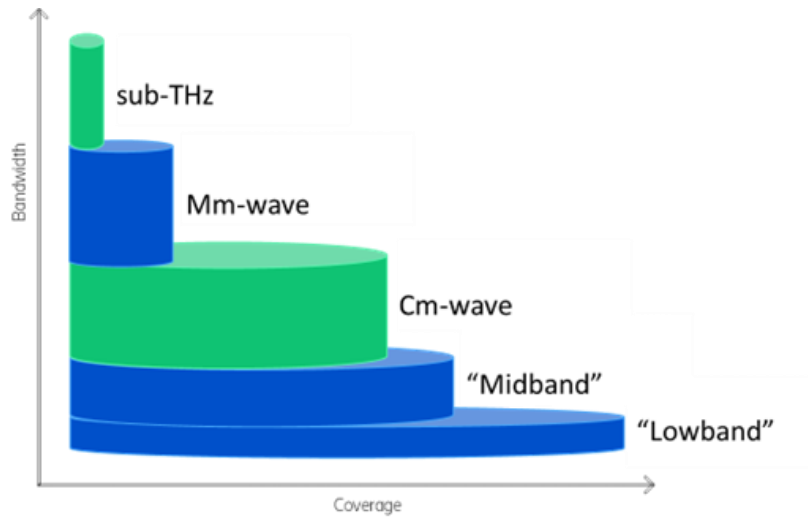


Coordinated multipoint

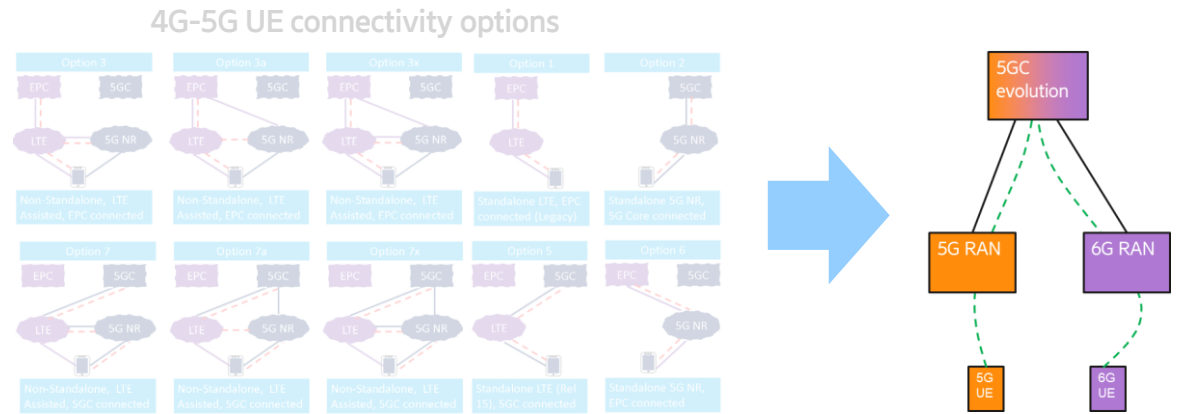


Relaying

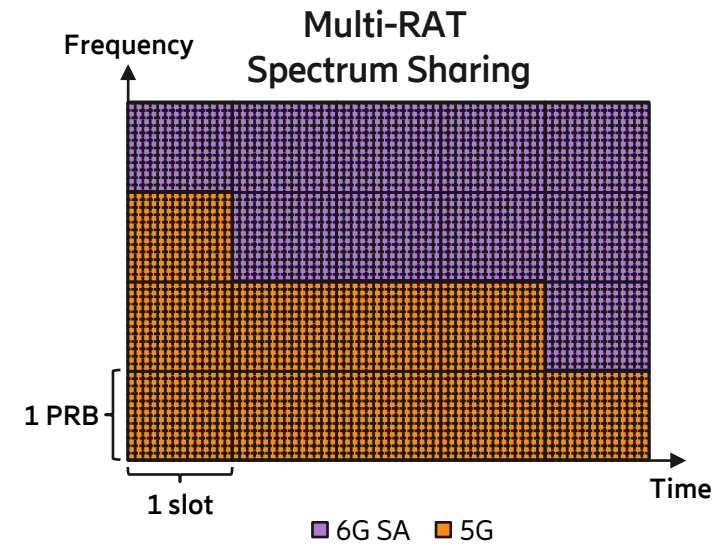
5G/6G Migration



6G spectrum compatible with 5G



A single migration mechanism



Spectrum sharing for migration

