

More than a new generation of mobile. A new kind of network.

Unifying connectivity fabric

Scalable across many dimensions

Intelligence
at device, edge,
and the cloud







From vision to reality



Smashing through barriers

Creating a rock solid 5G design

Delivering technology on a global scale



Closer than you think





Multi-Gbps data rate

Low latency Lower cost per bit

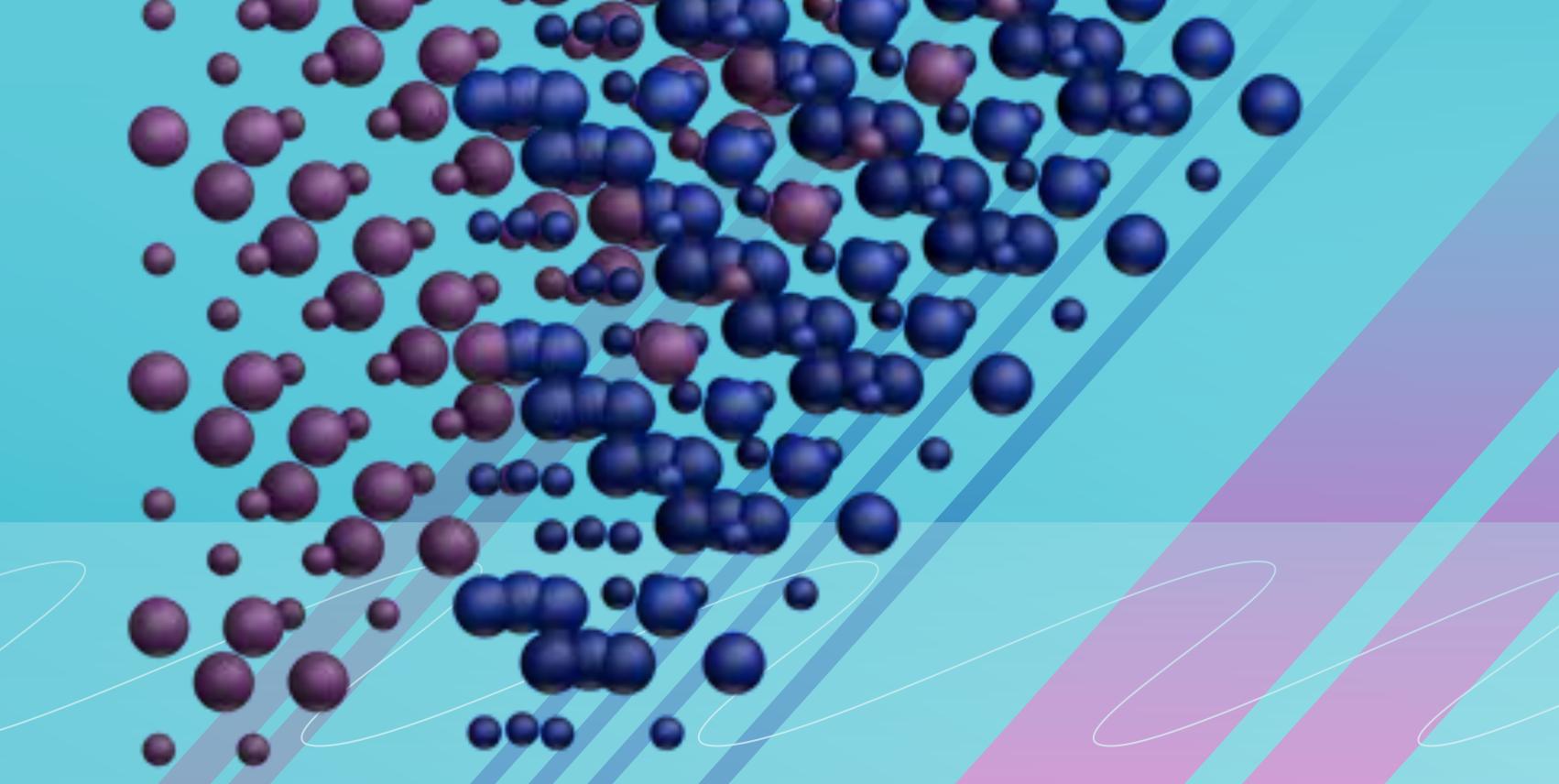




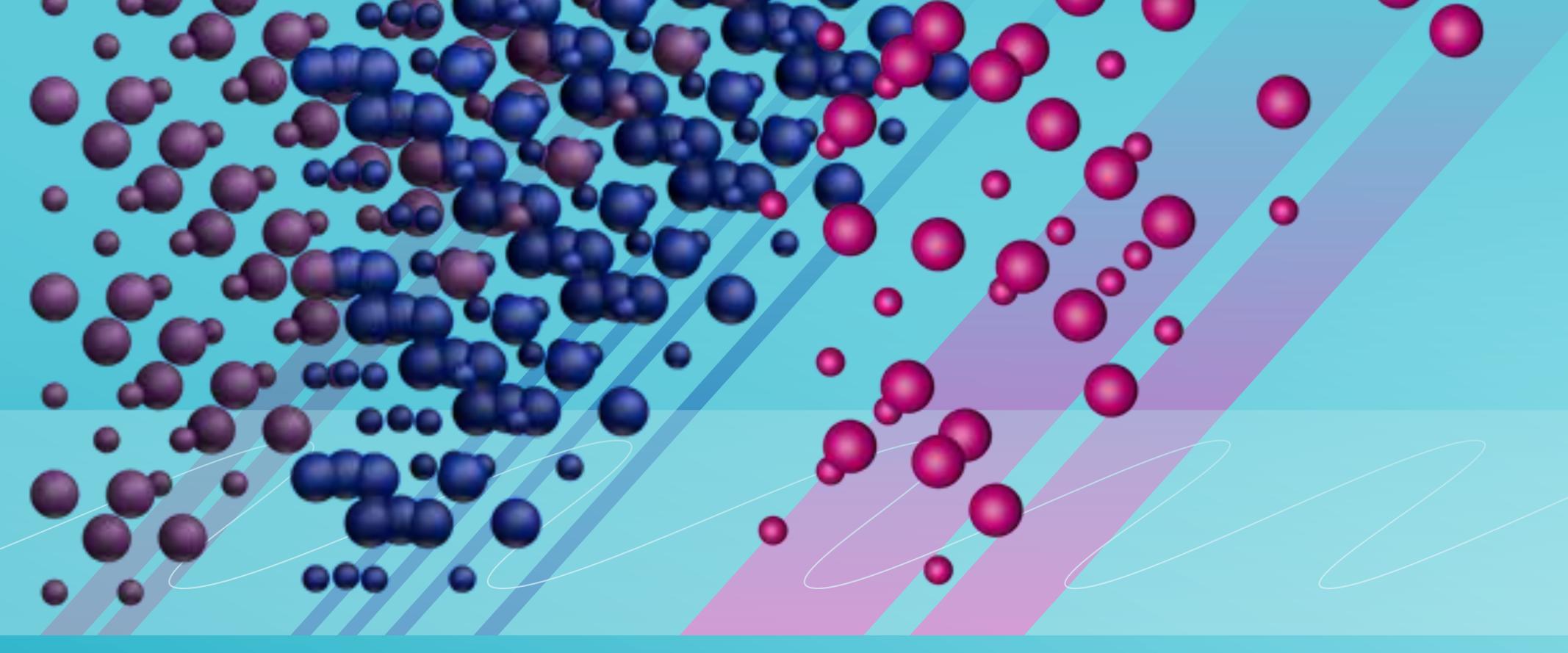
Achieving fast, responsive, pervasive connectivity



Achieving fast, responsive, pervasive connectivity



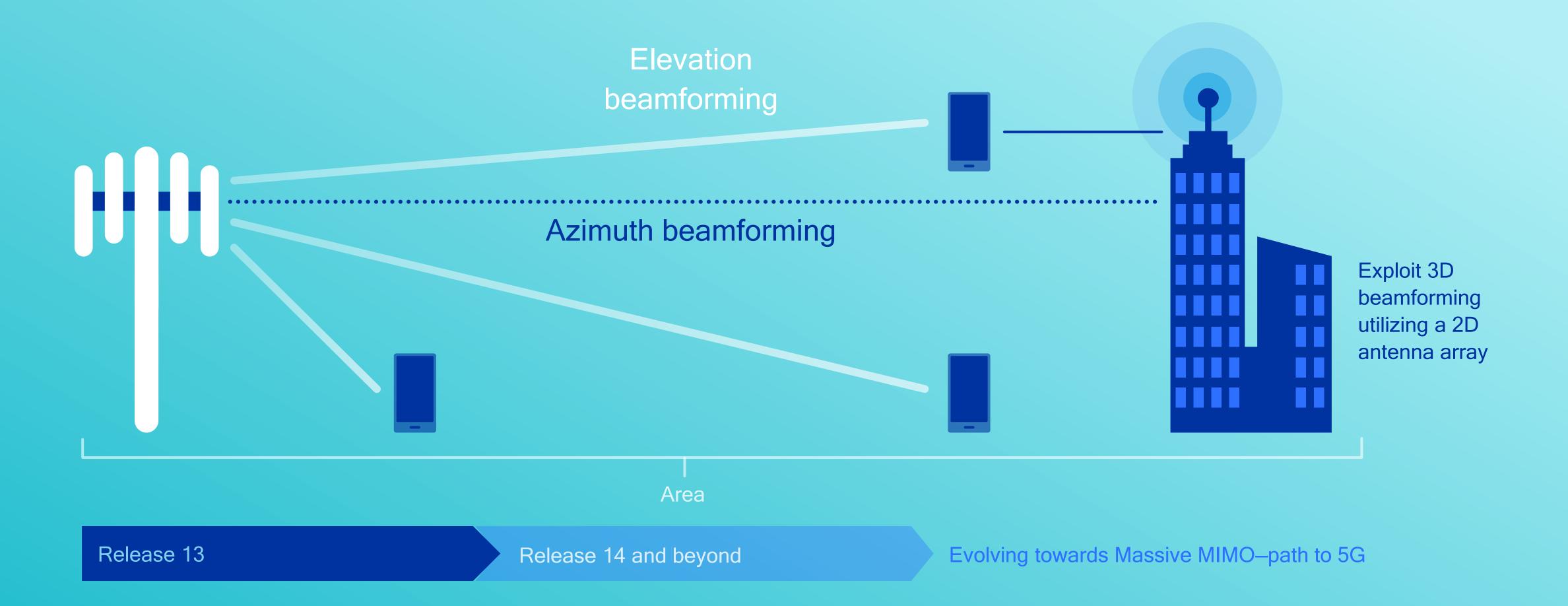
Achieving fast, responsive, pervasive connectivity



Achieving fast, responsive, pervasive connectivity 600 MHz 1 GHz 6 GHz 28 GHz 39 GHz 70 GHz 60 GHz

Advanced antenna techniques

A key enabler for higher spectrum bands









Ashley Worley

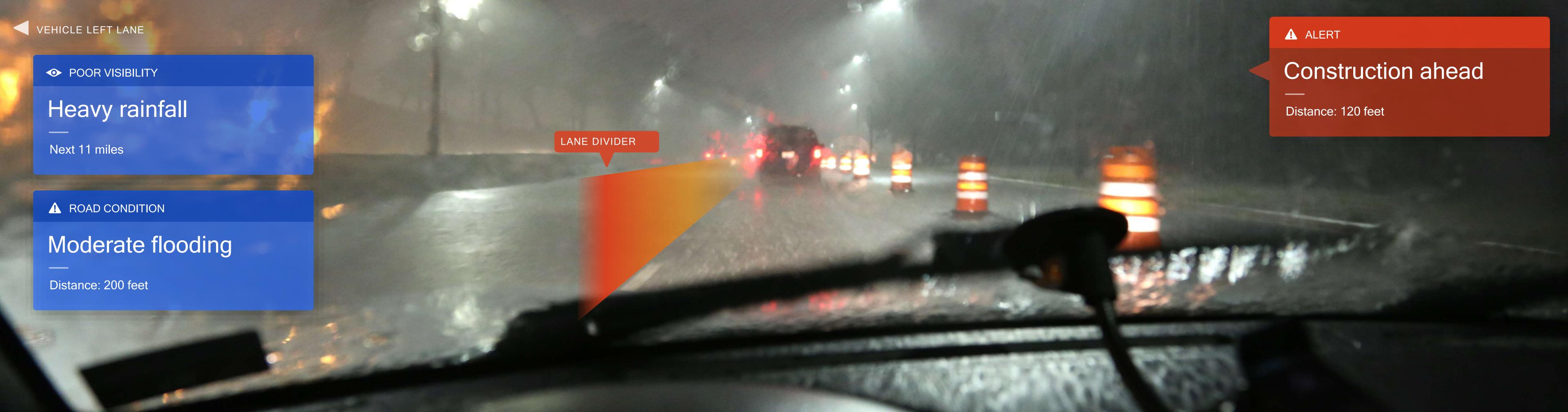
Critical condition



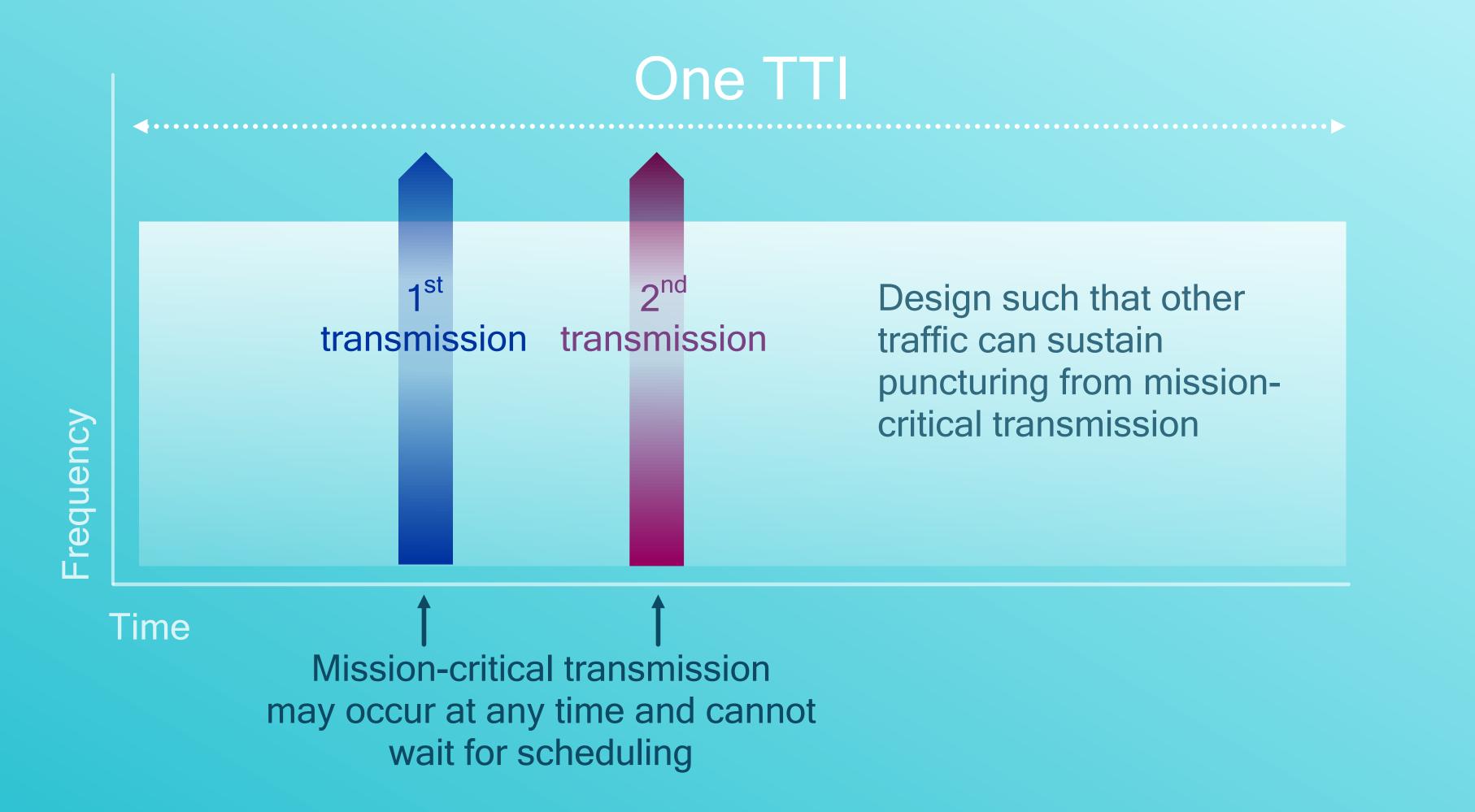




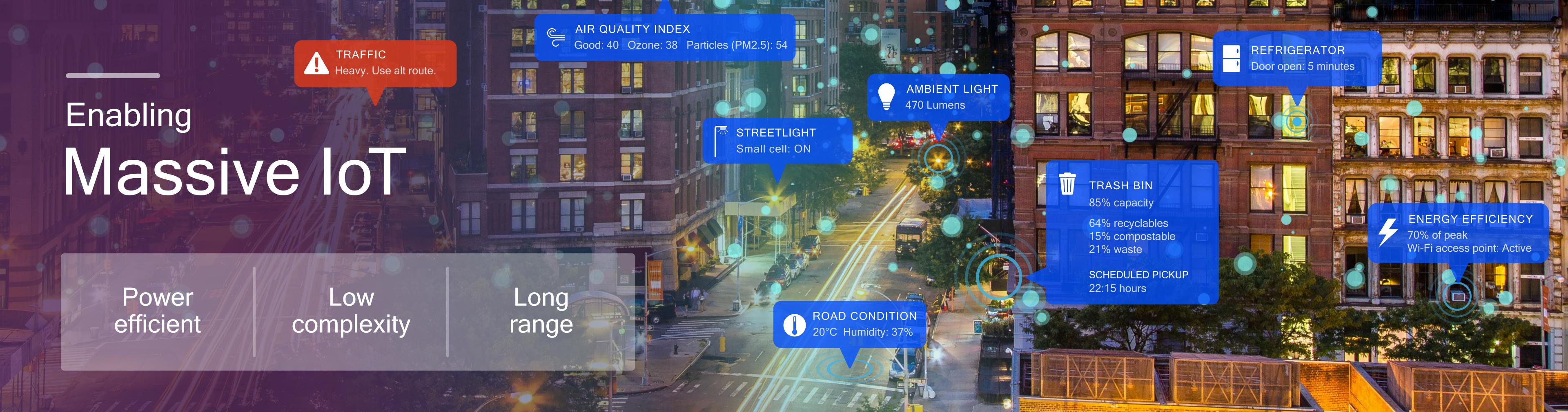




Efficient missioncritical multiplexing with other services









Supporting vast scale with

Efficient IoT communication

High bandwidth

Greater complexity



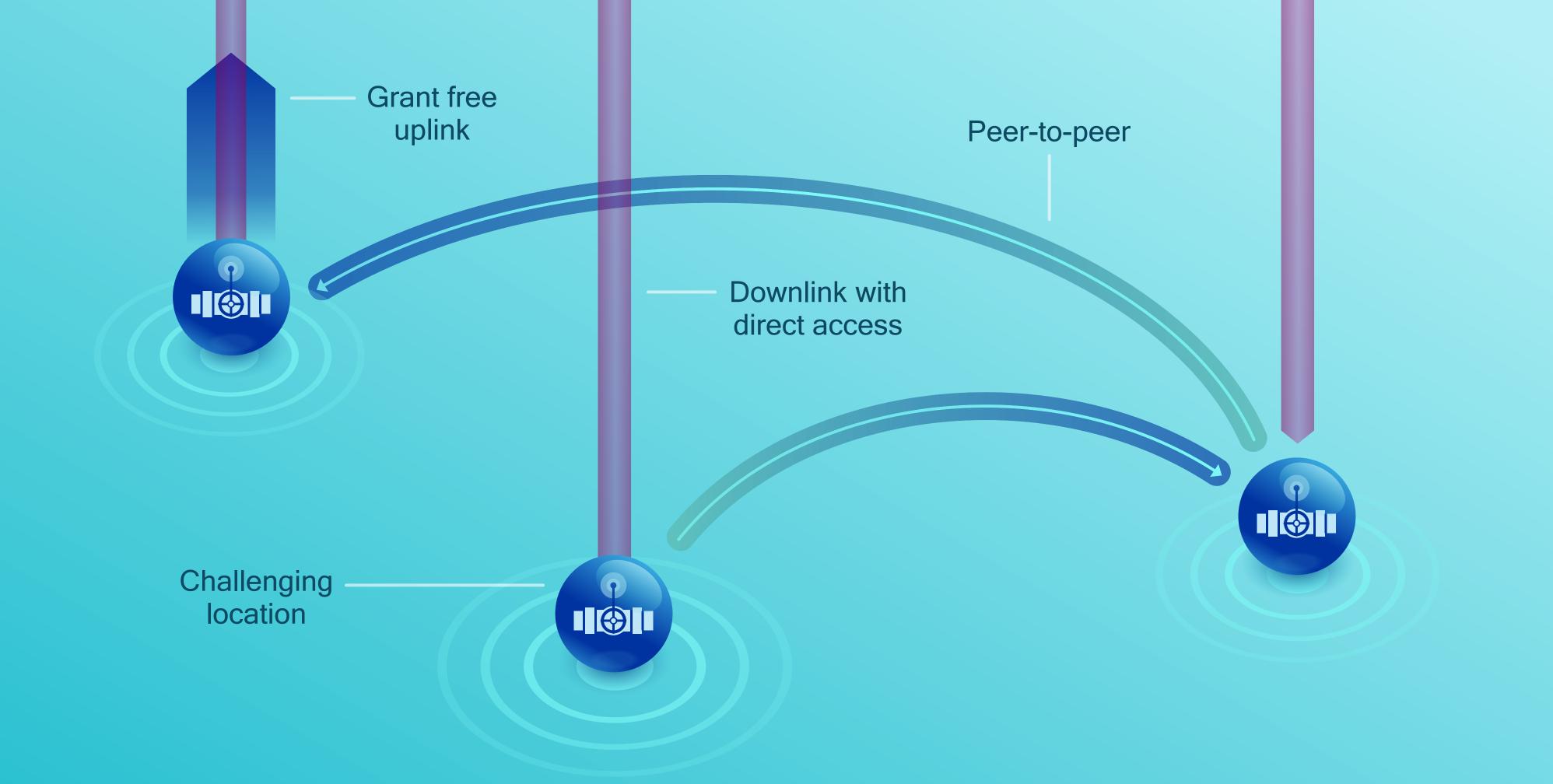
Low bandwidth
Deep coverage
High efficiency





Enabling massive numbers of

Low-complexity devices



One integrated system

Flexible framework for efficiently multiplexing diverse services



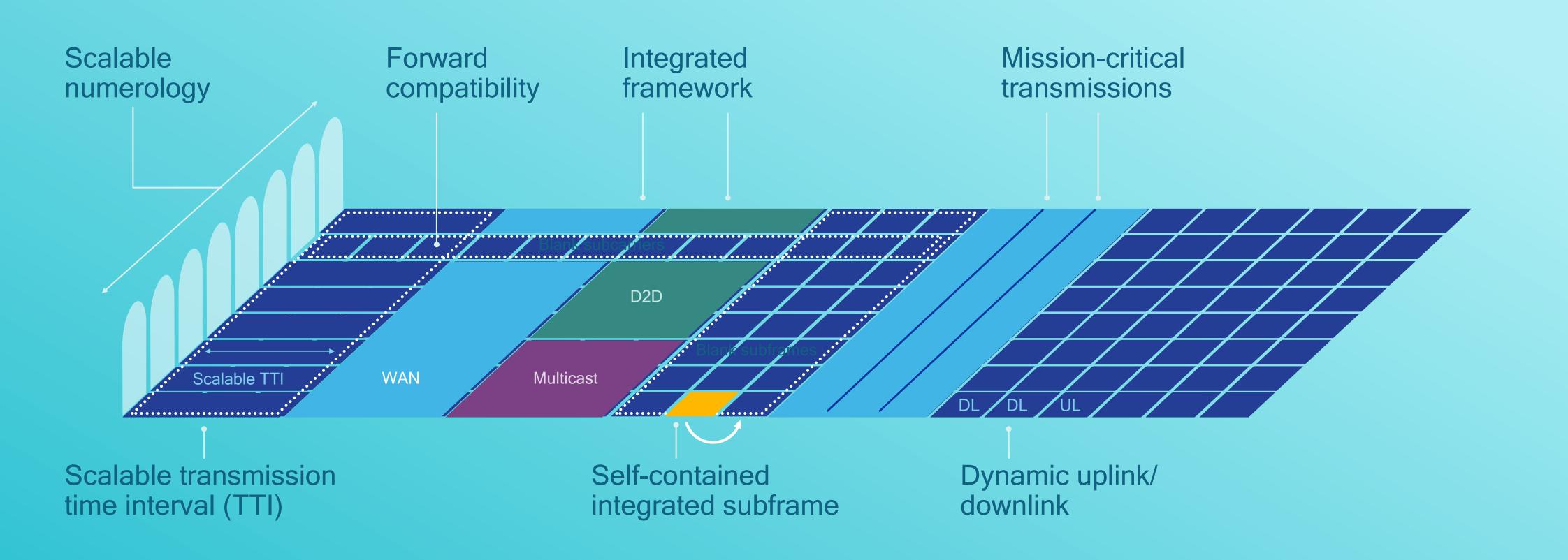
High bands above 24GHz (mmWave)

Mid bands 1GHz to 6GHz

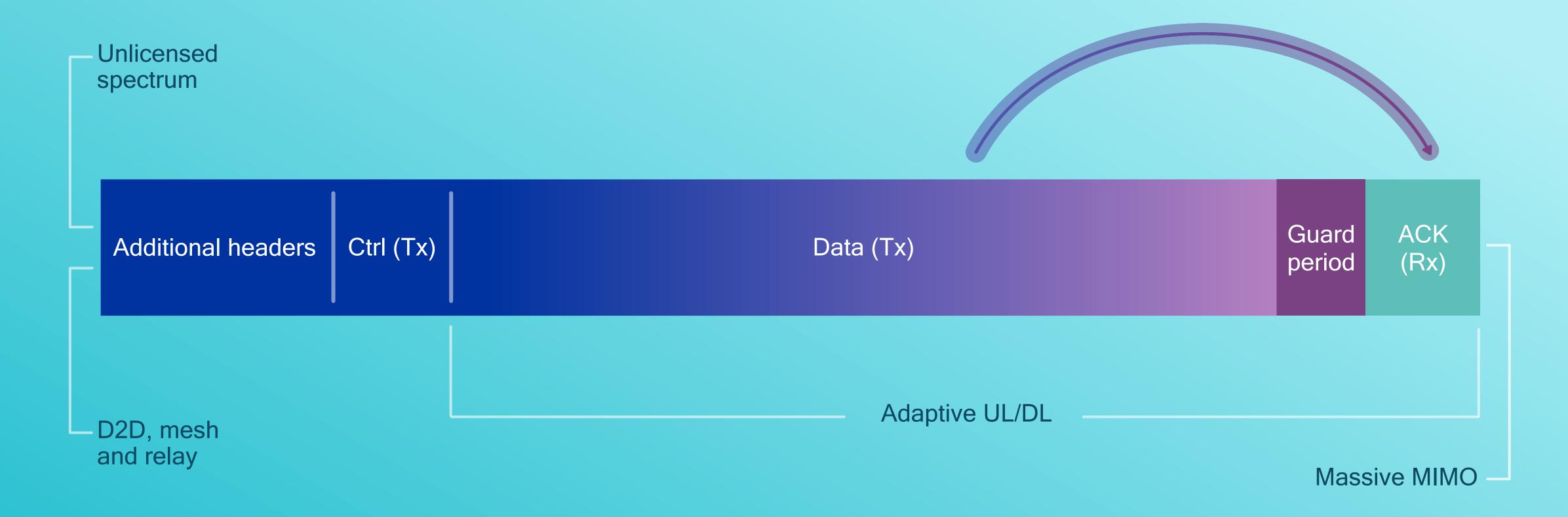
Low bands below 1GHz

A scalable OFDM-based 5G New Radio (NR)

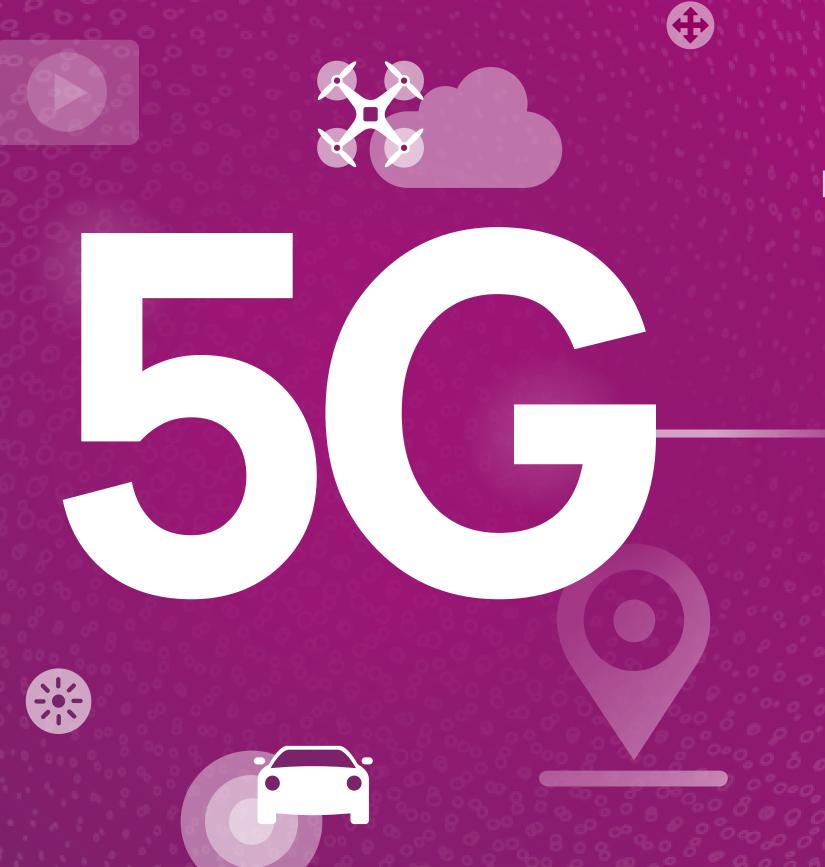
Flexible framework for efficiently multiplexing diverse services



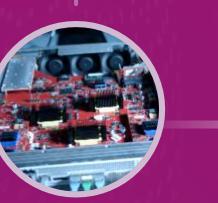
Self-contained, integrated TDD subframe design



Accelerating the path to



Best-in-class 5G prototype systems and testbeds





A GLOBAL INITIATIVE

5G standards, technology and research leadership

Impactful trials and early deployments with network operators

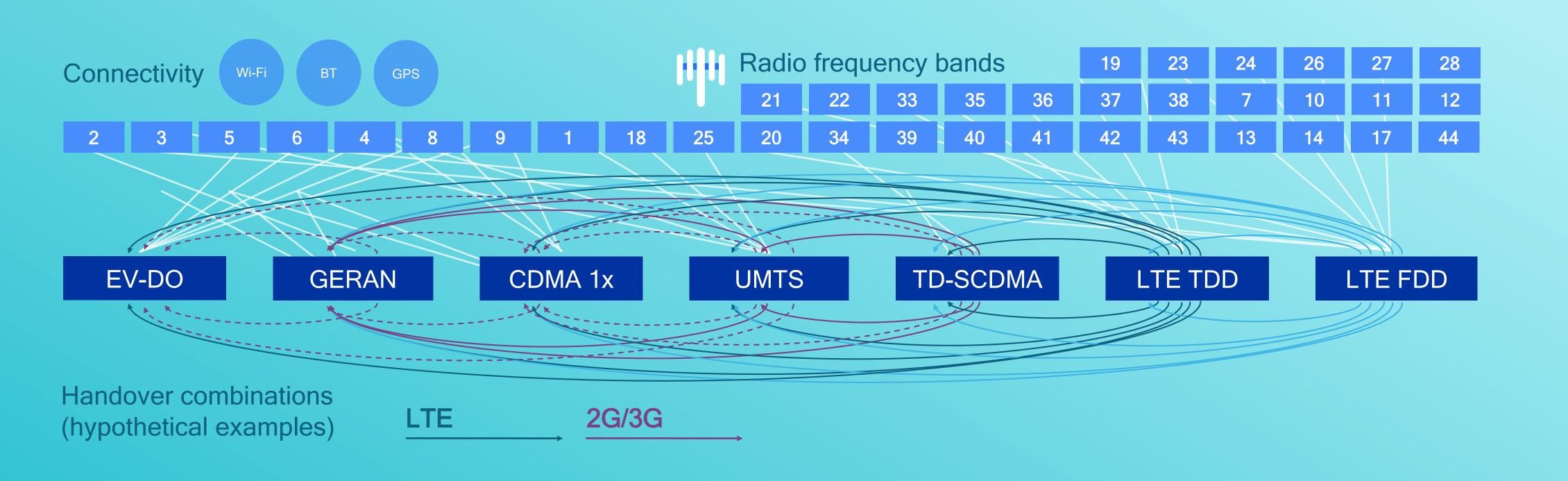


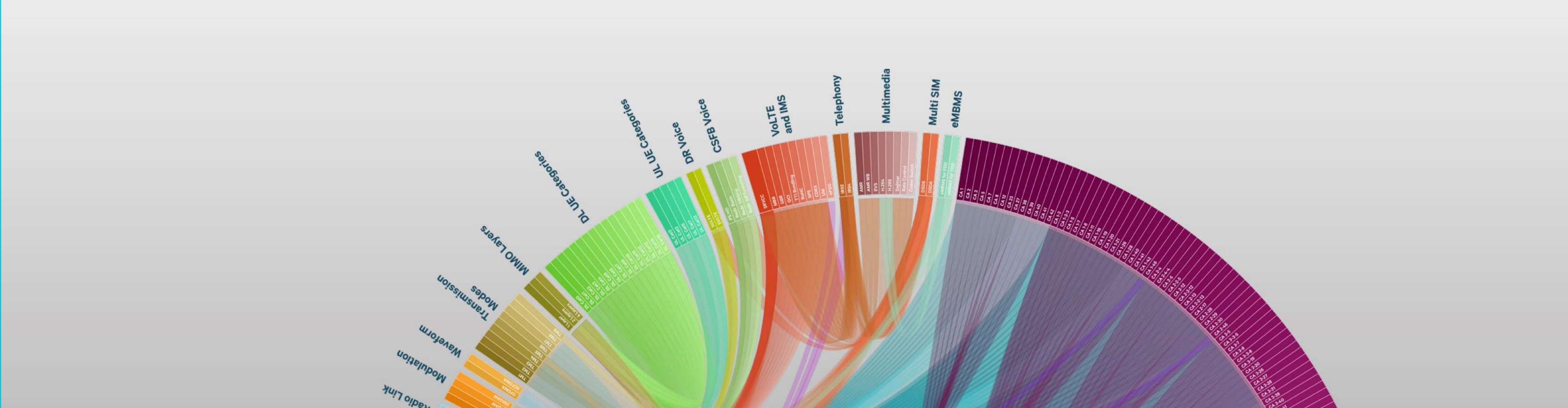


Modem and RFFE leadership to solve 5G complexity

Modem and RFFE leadership critical

Flexible framework for efficiently multiplexing diverse services



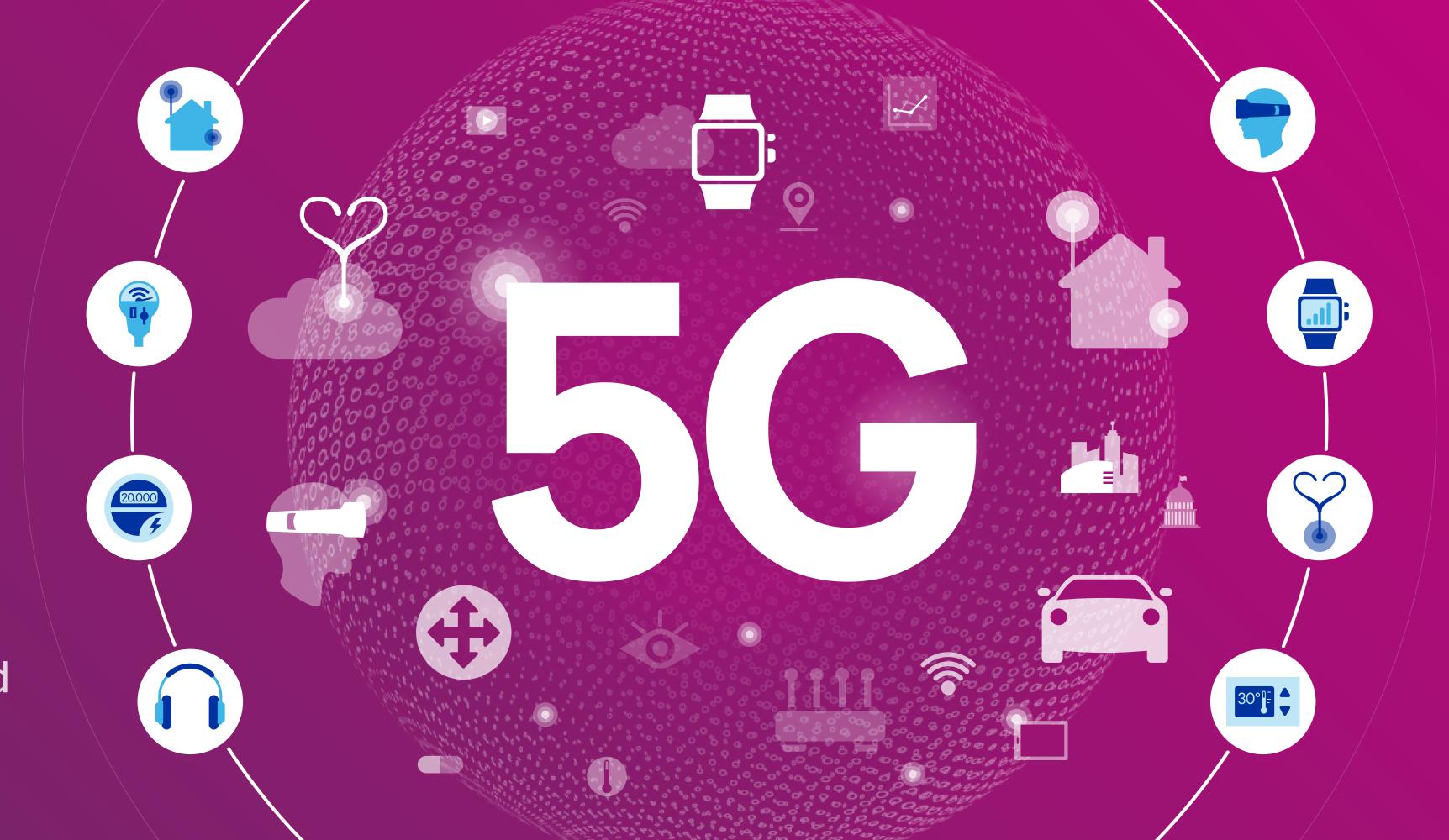


5G drives significant modem and RFFE complexity

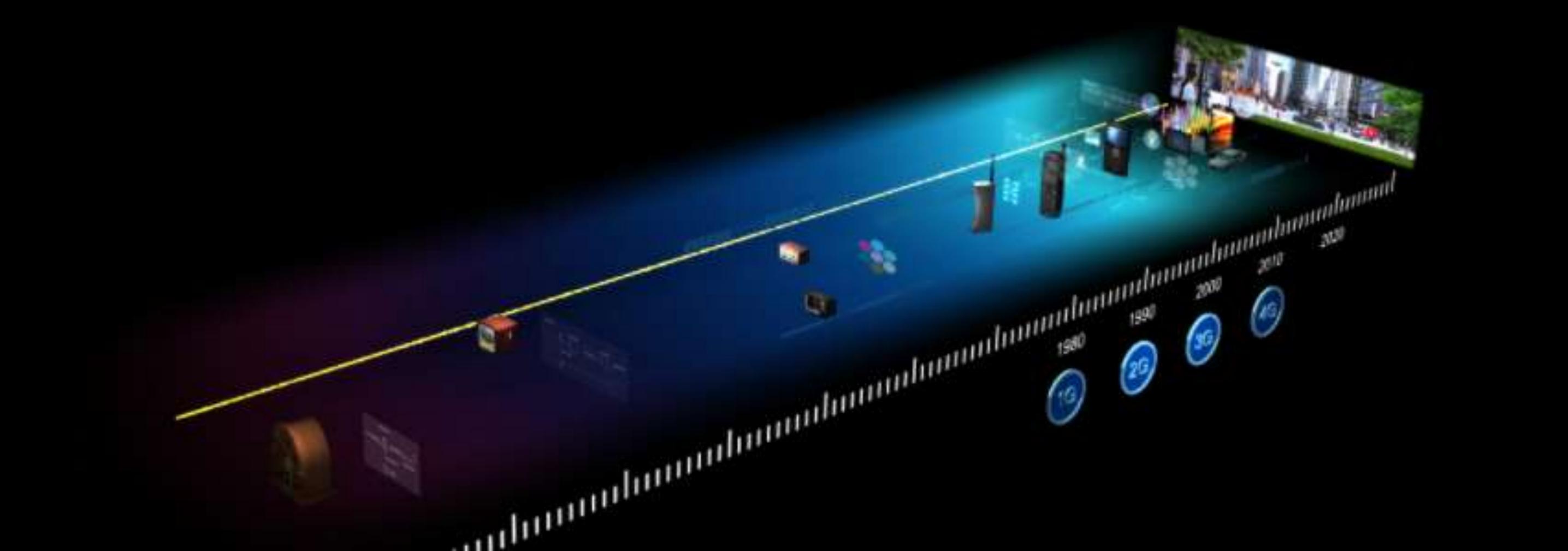
Support for existing LTE networks and services

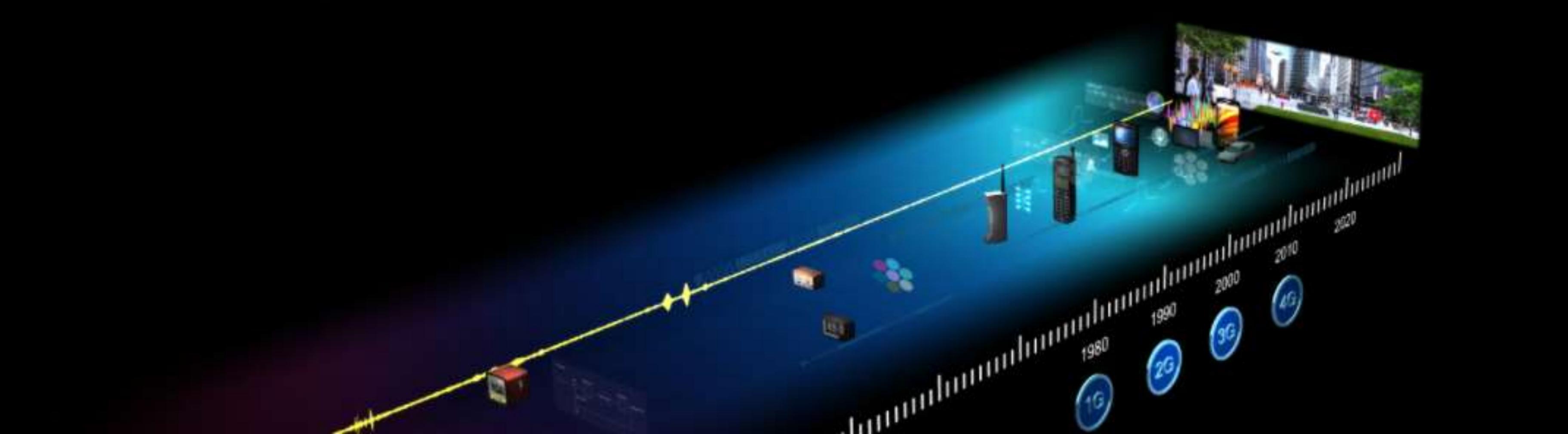
Efficient integration of new 5G spectrum, technologies/services

Power efficient and highly integrated chipset









Leading the world to 5G

Thank you

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