



Road to a Super-Connected World



Why

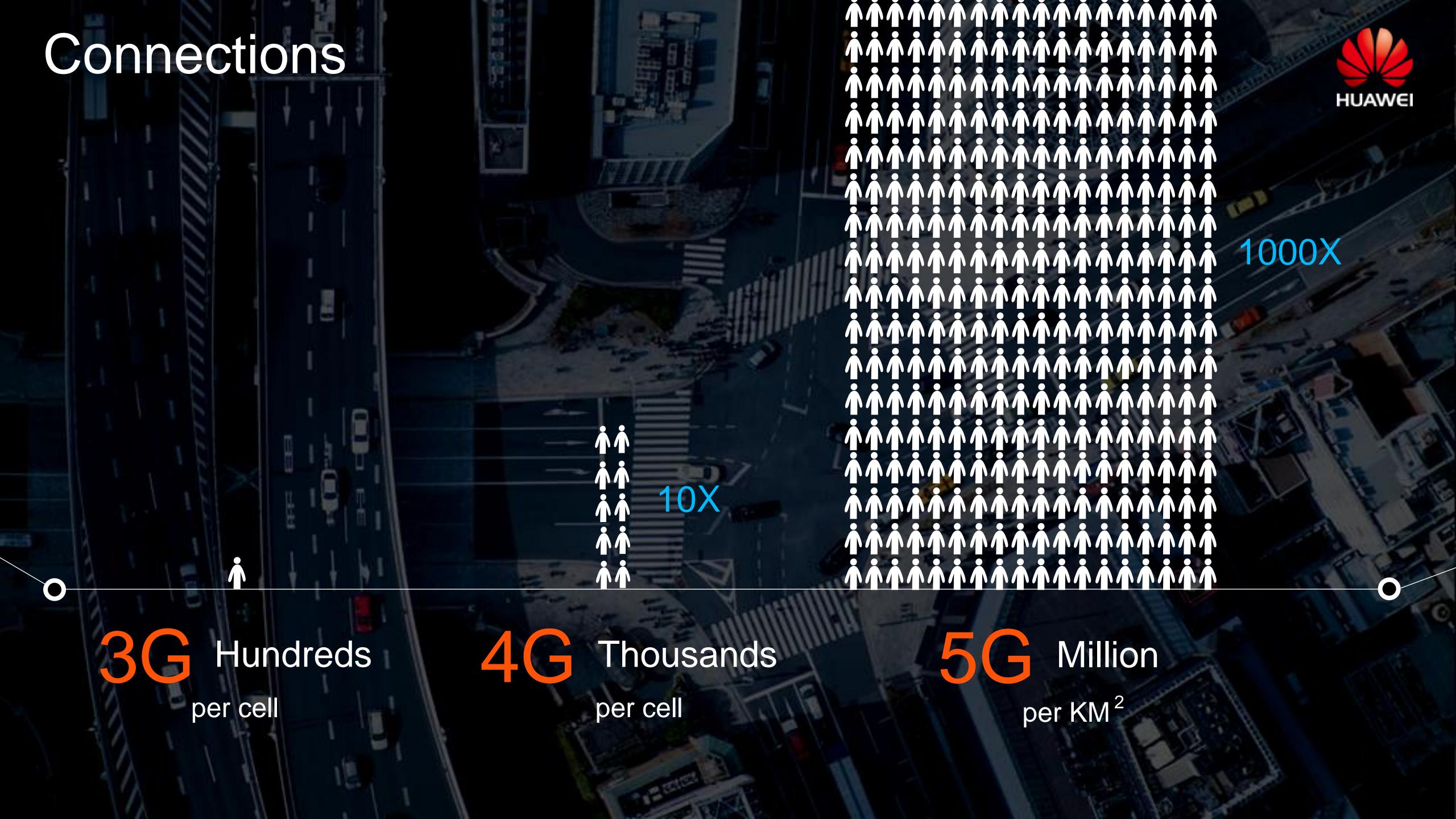
What





HOW









Latency

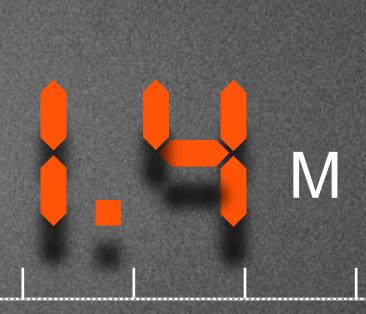


3 5 100ms

4 5 50ms



4G

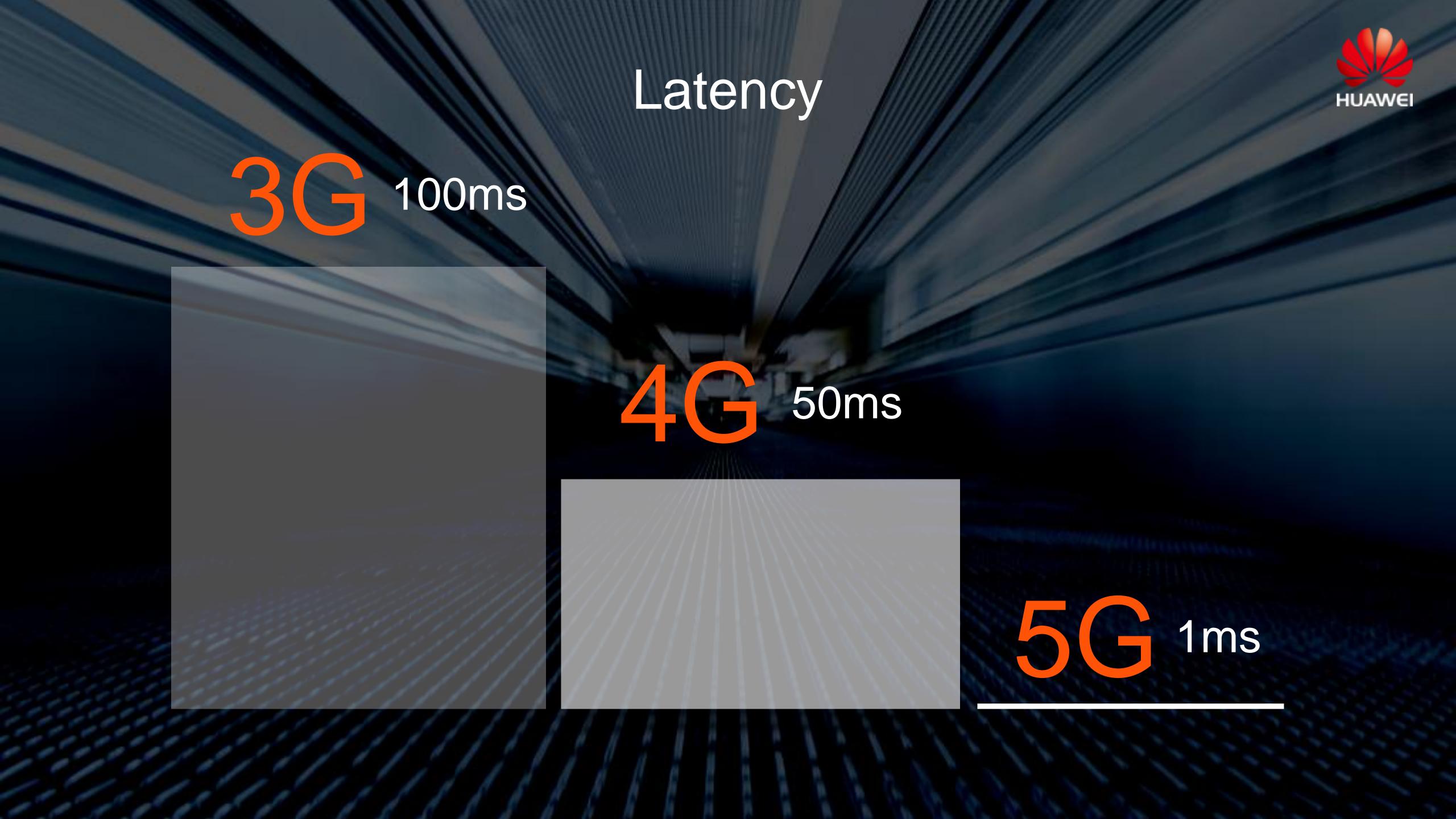




5G



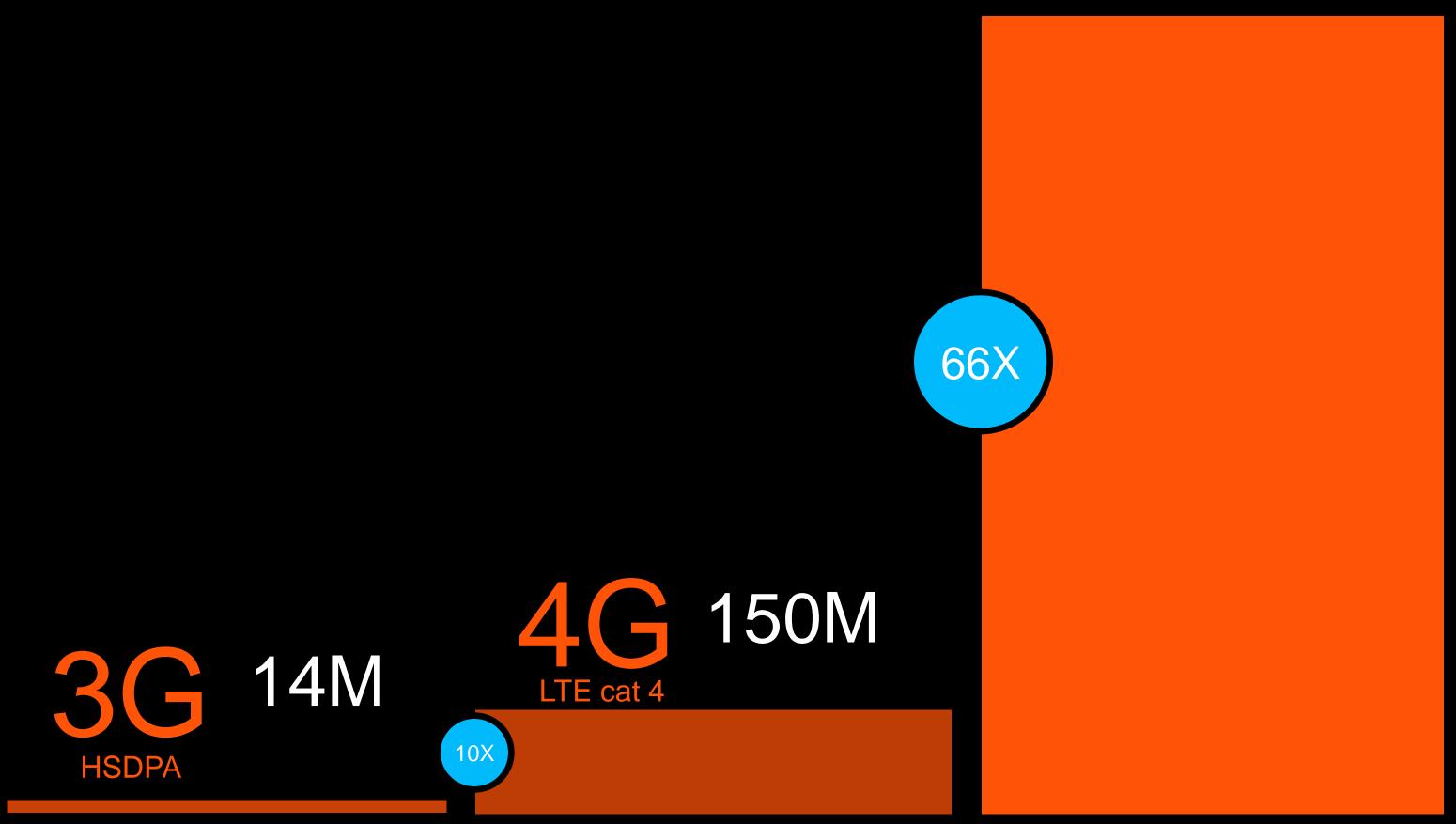




Speed









3G

4G

5G



8G HD movie download

70 min

7 min

6 sec

E-health

Online health records

HD-video emergency consultation

Interactive 3D brain imaging

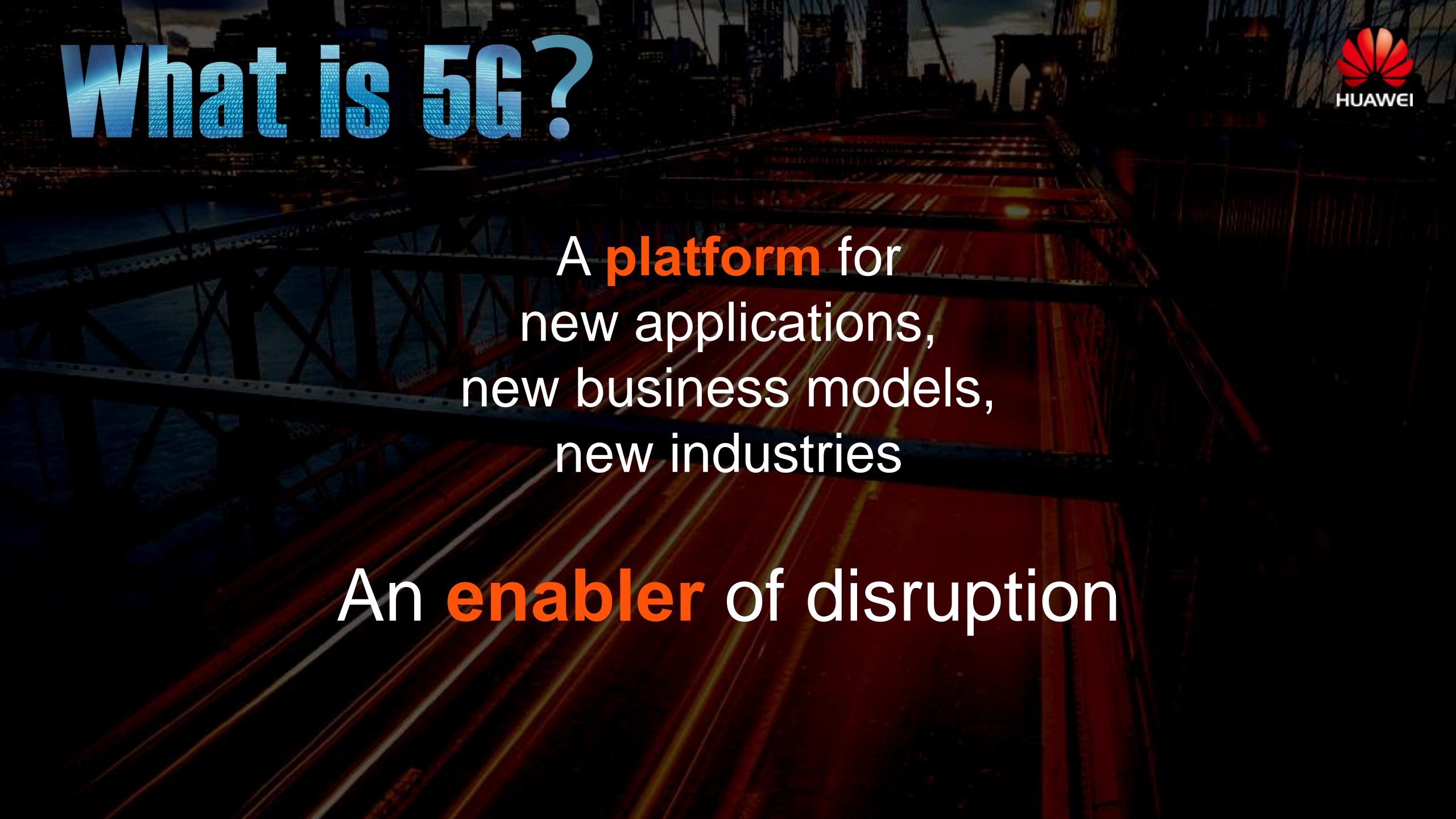




100 billion connections

1 millisecond ultra-low latency

10 Gbit/s peak speed





how can we get to 56?

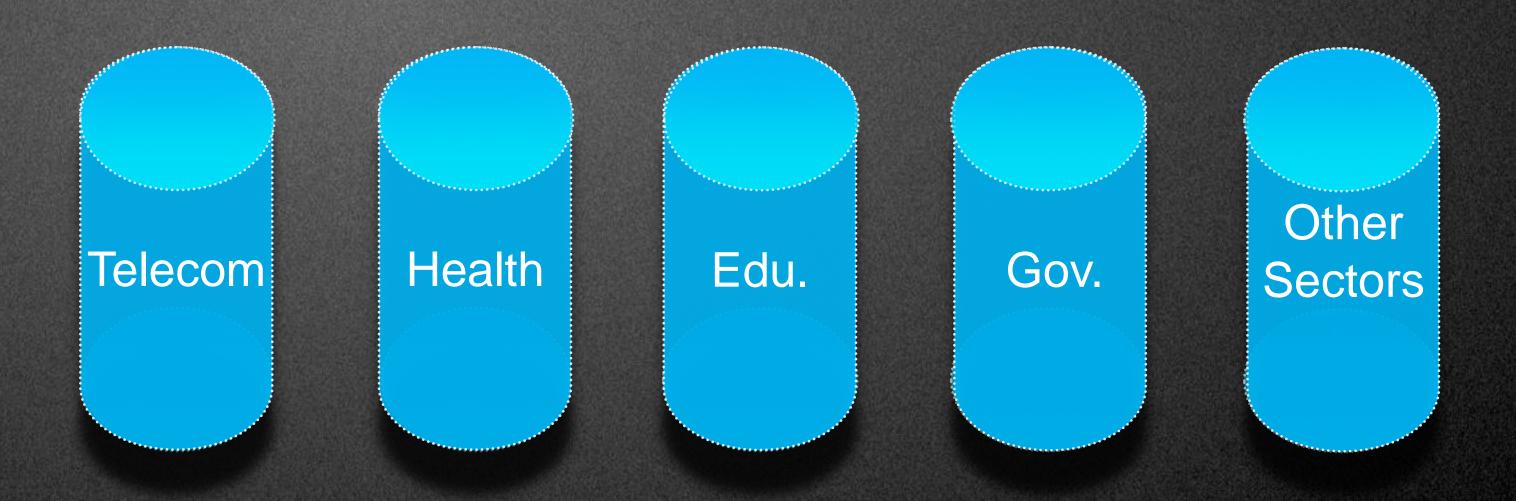
Open collaboration across industries

Heavy investment in technological innovations

Evolutionary commercialization strategy



Open collaboration across industries



Silos in the past



Internet of Vehicles



WAVE



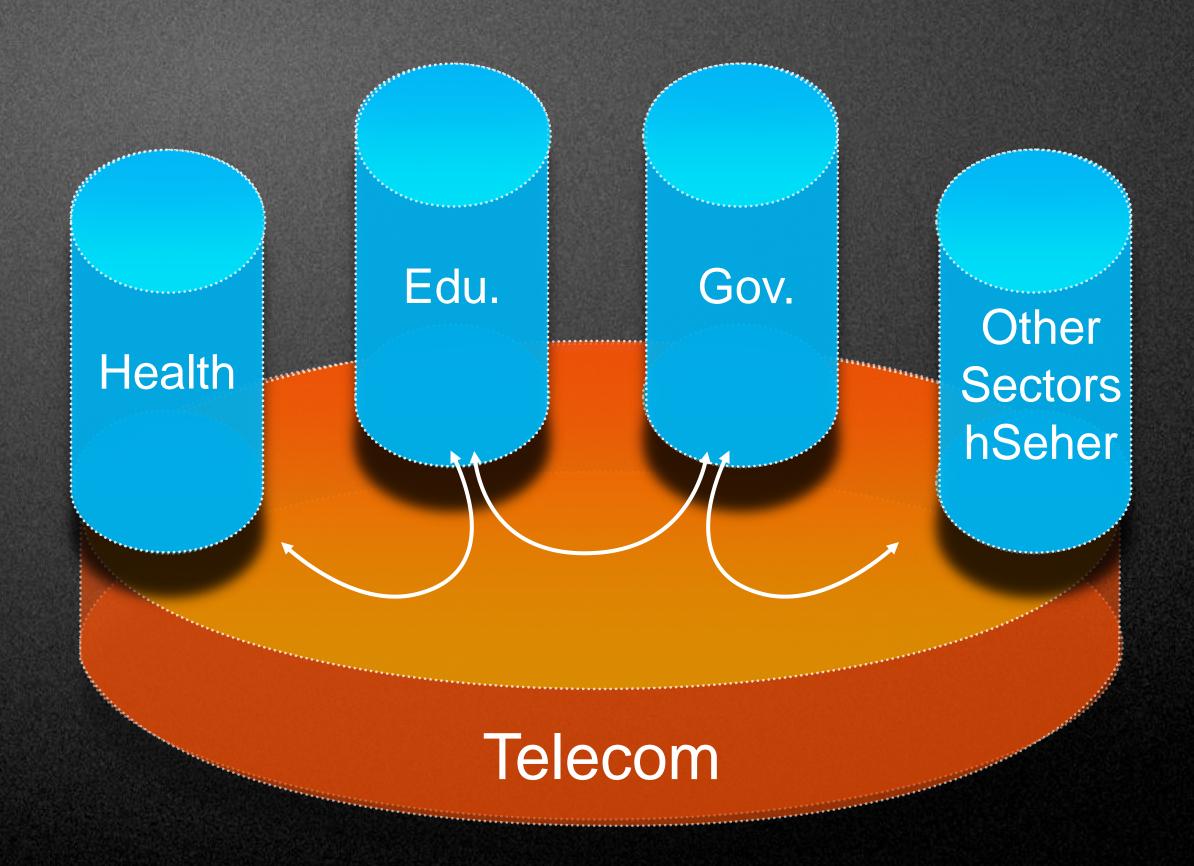
C-ITS



LTE - V



Open collaboration across industries



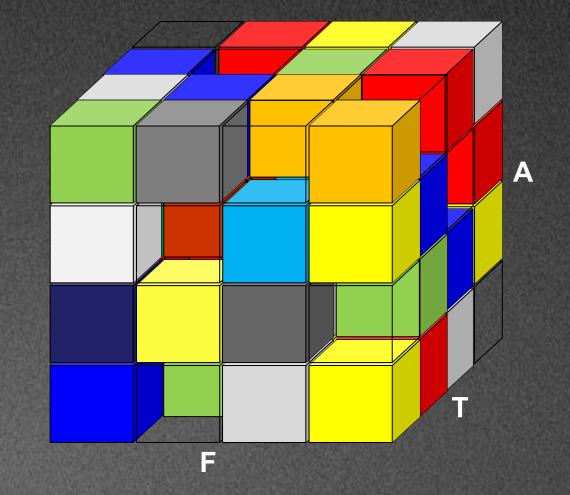


Intensive technological innovations

New air interface

SCMA, F-OFDM, polar coding

3X efficiency



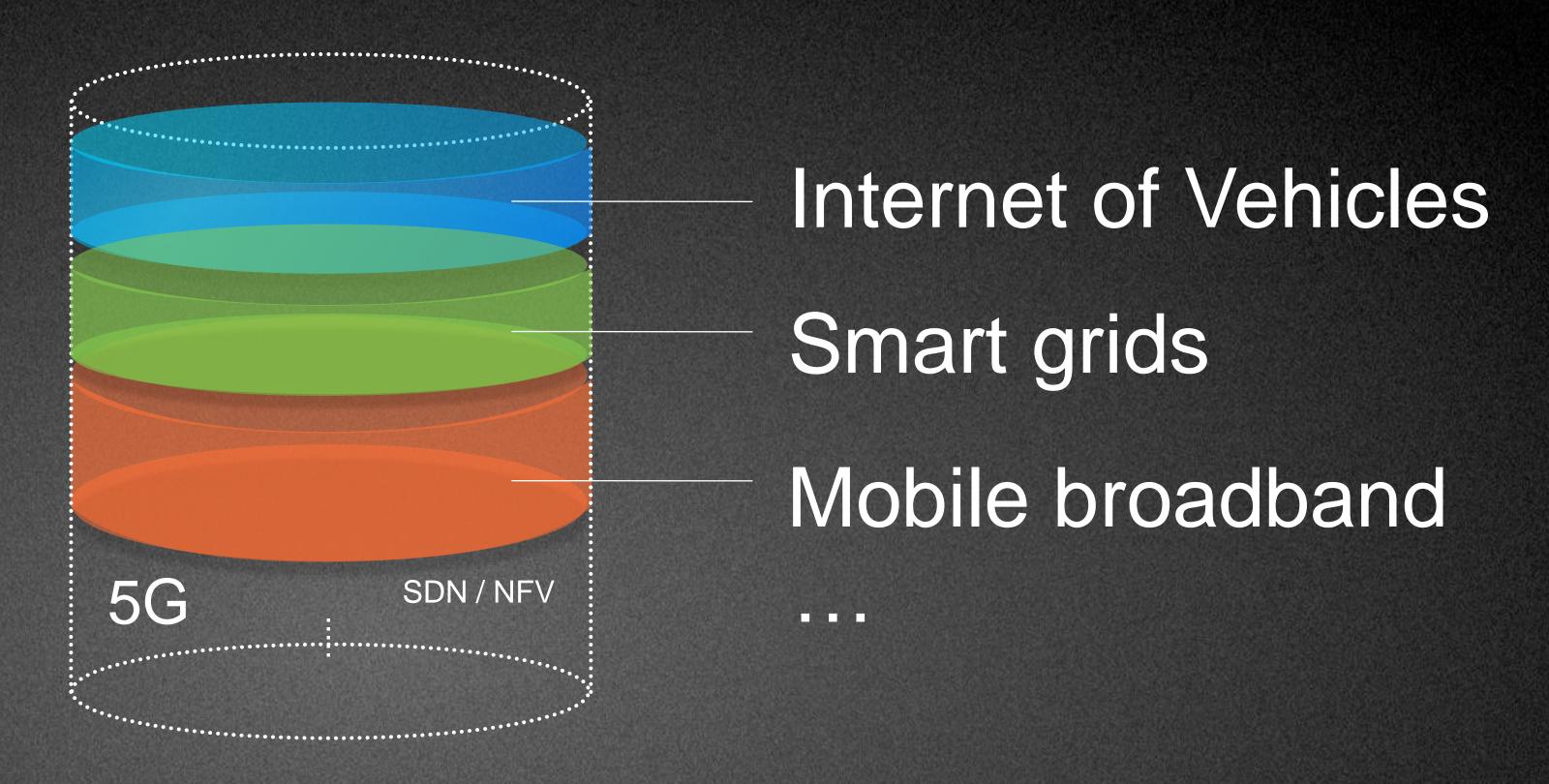
ultra-low latency

more connections

Intensive technological innovations



Virtualized architecture

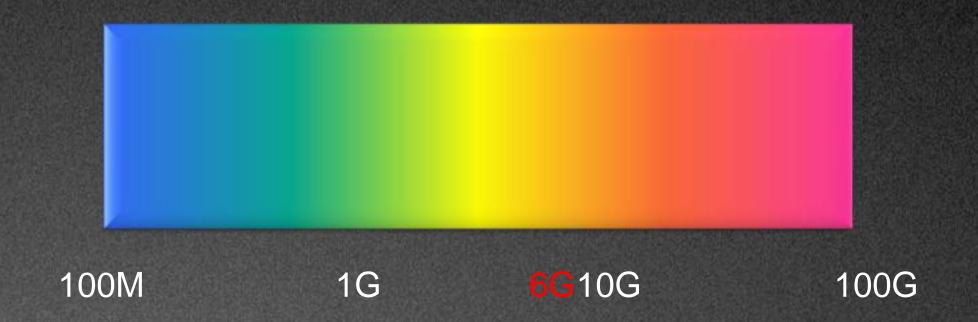


Single physical network for different applications

Intensive technological innovations



All spectrum access



Single wireless access network with

Unified access technologies



Evolutionary commercialization strategies

- 4.5G Leverage 5G innovations
 LTE-M 100X connections
- Maximize ROI of 4G
- Stimulate demand for 5G
- Extend market leadership from 4G to 5G







"The world only needs five computers"



"We are just at the beginning of the beginning"

Kevin Kelly

