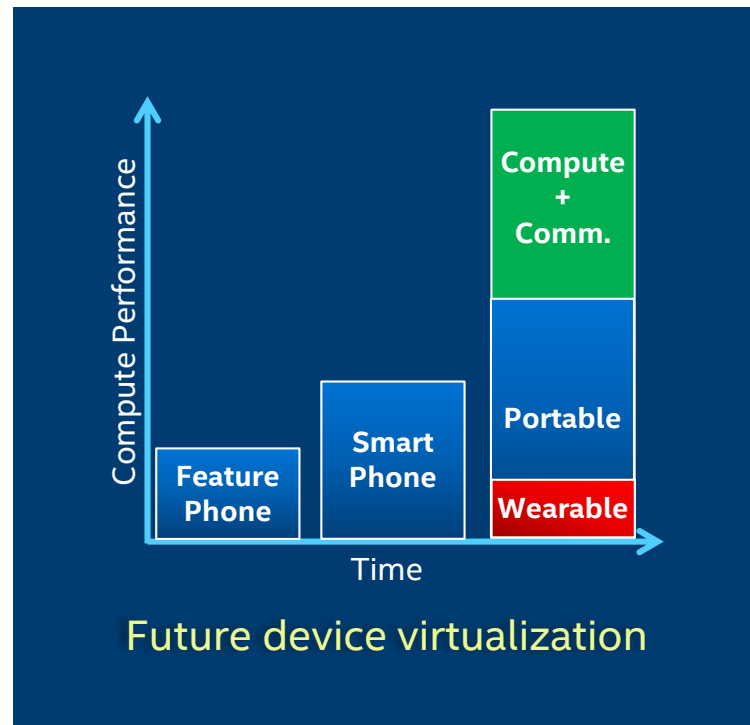
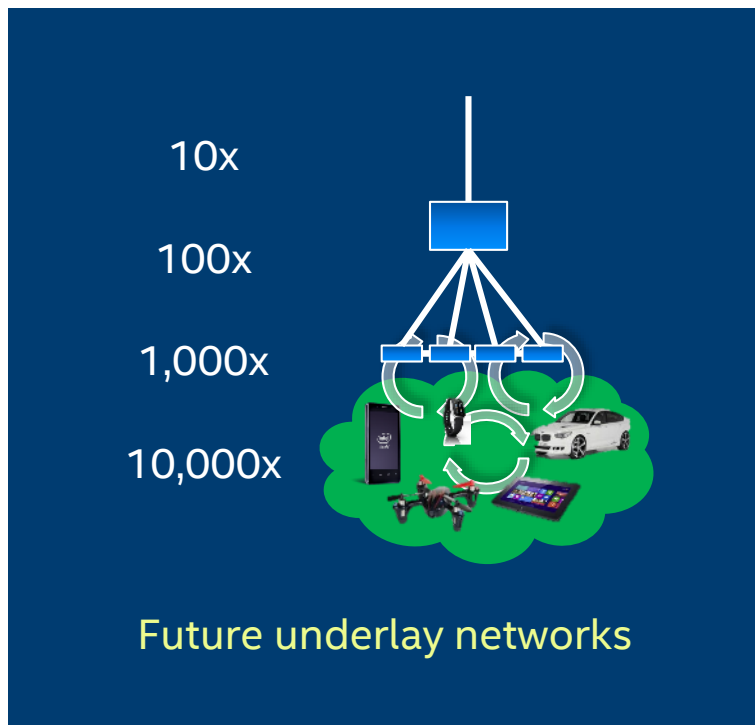




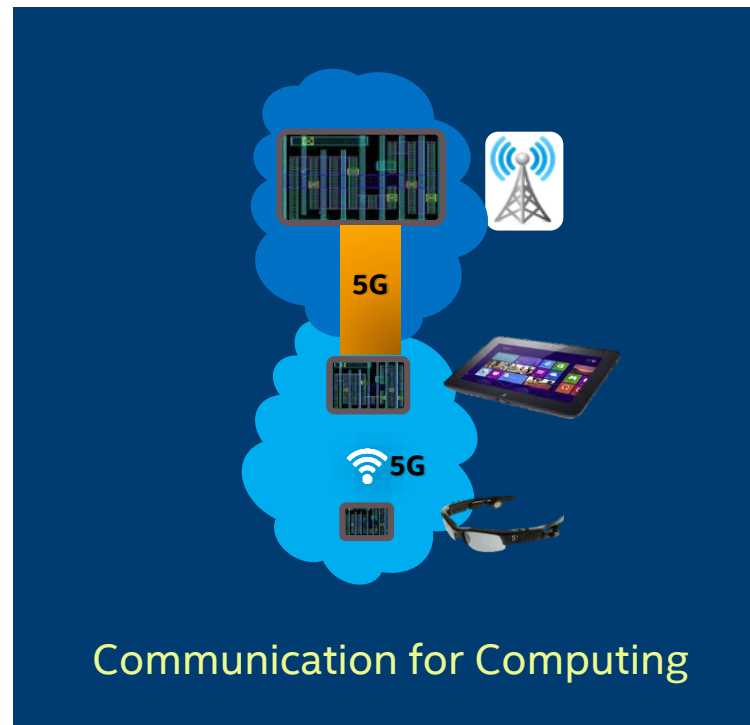
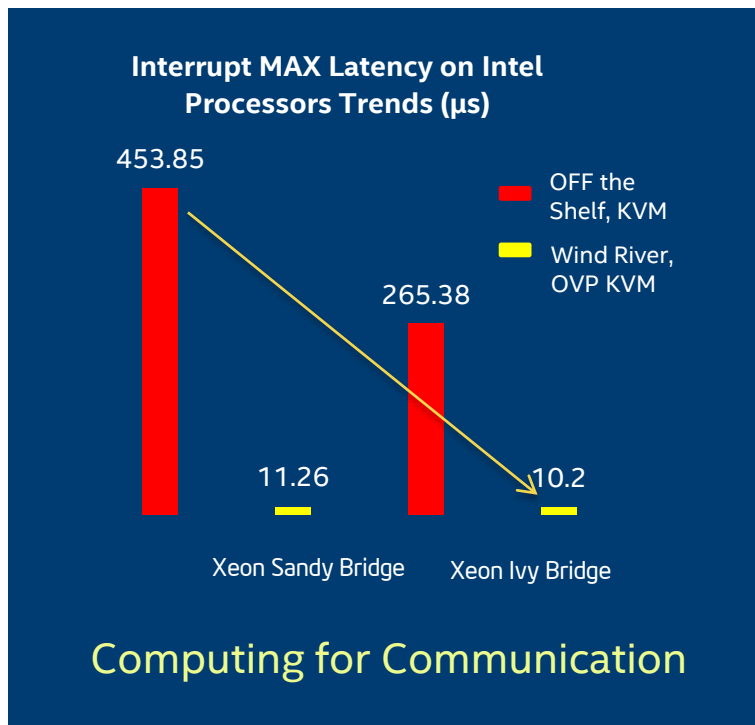
# **NETWORK SLICING FOR FUTURE 5G WEARABLE DEVICES AND INTERNET OF THINGS**

**Dr. Geng Wu, Intel Fellow and Dr. Qian (Clara) Li, Sr. Research Scientist**

# Networks and devices will take a quantum leap



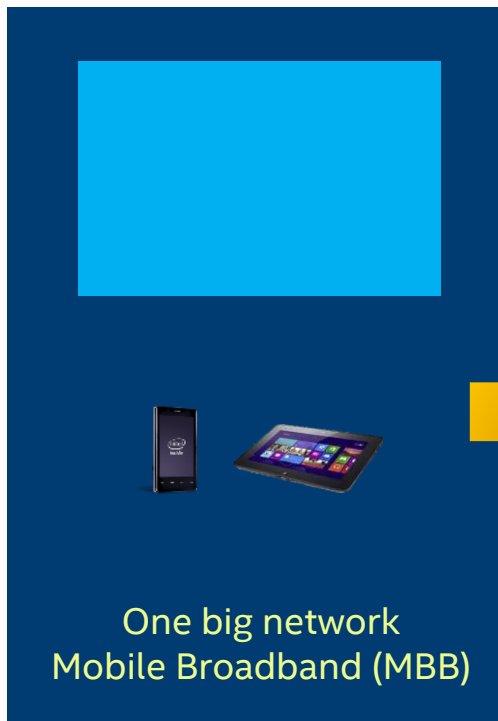
# Computing and communication come together



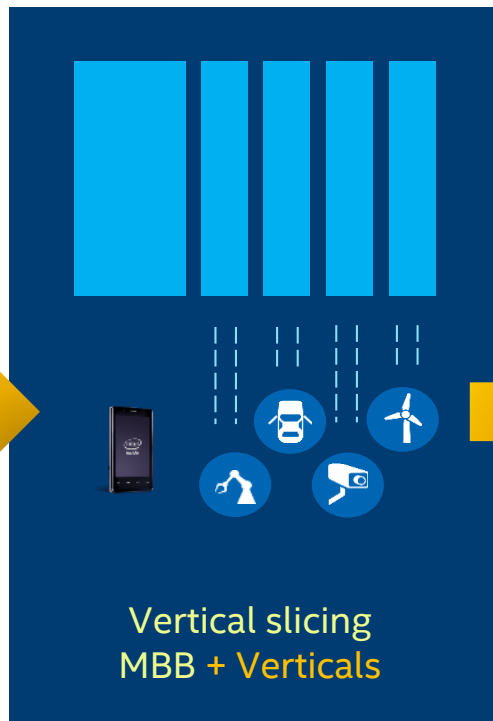
General Performance disclaimer: For more complete information about performance and benchmark results, visit [Performance Test Disclosure](#)

# How do we evolve networks and devices?

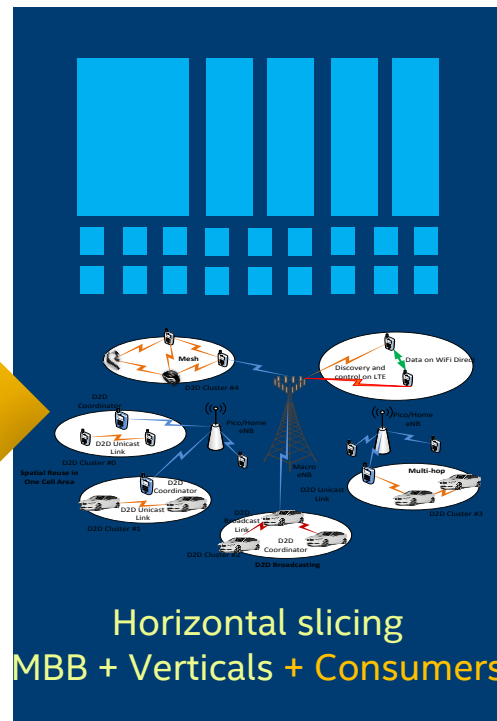
## One efficient network



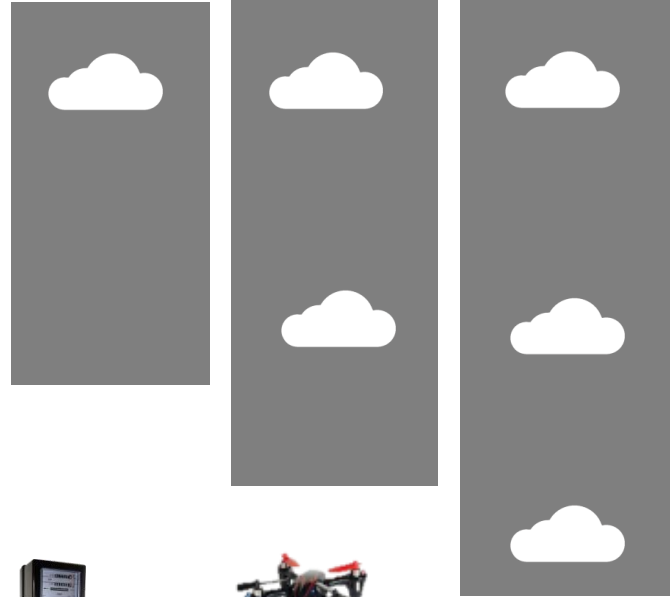
## Many industries



## All market segments



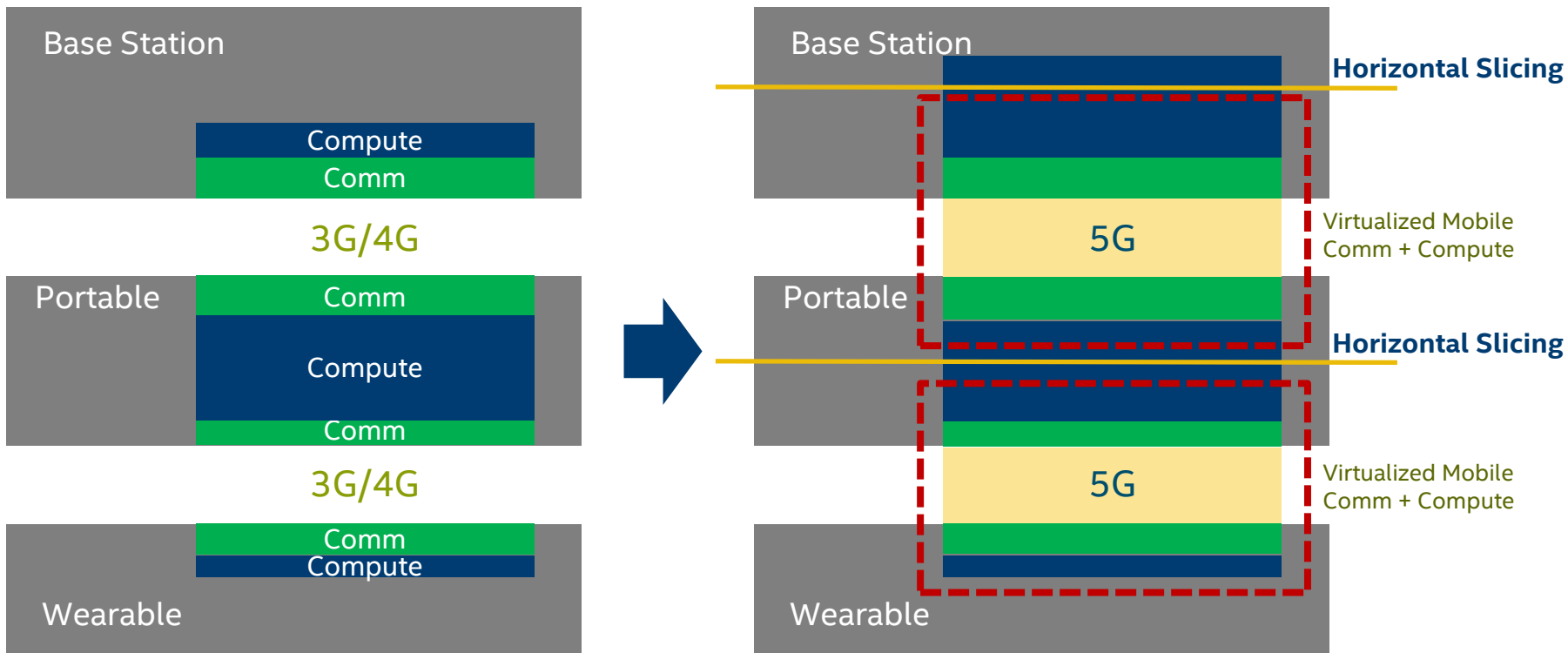
# Vertical slicing for many industries/use cases



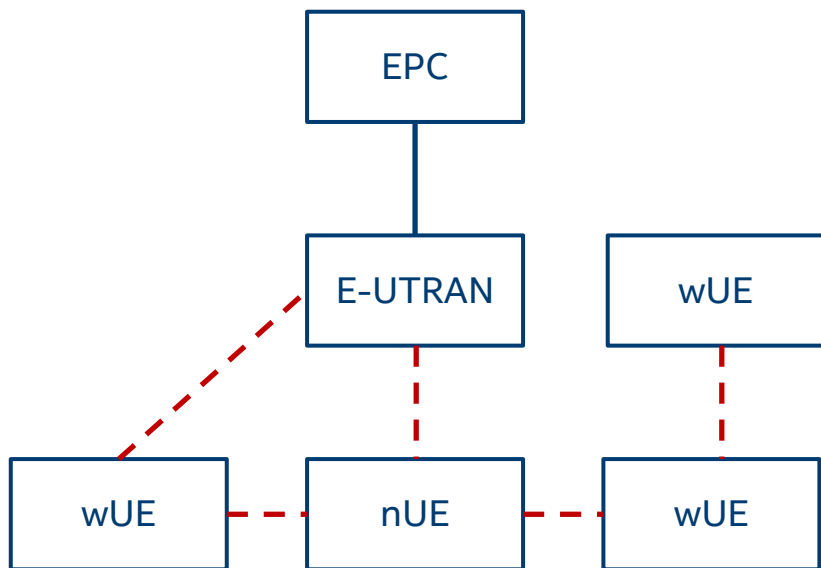
QoS



# Horizontal slicing for future user experience

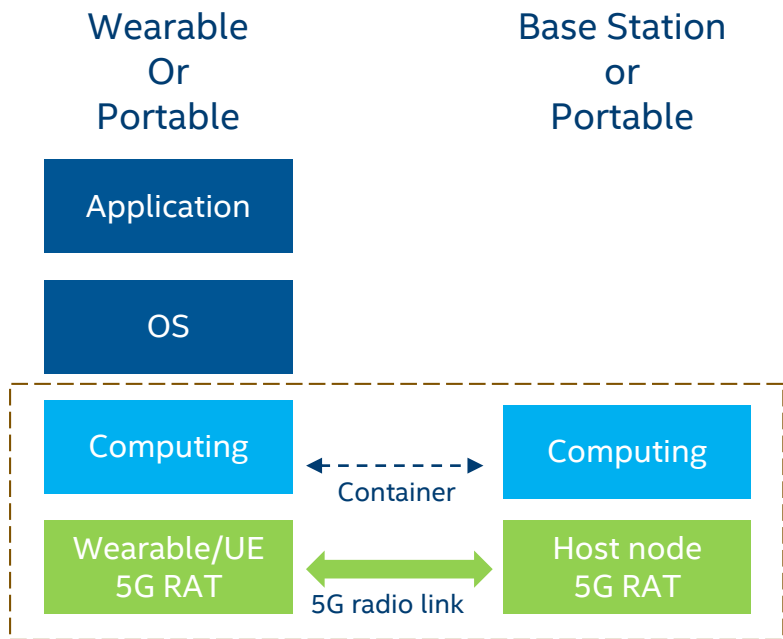


# Horizontal slicing needs air interface innovations



Extreme low power	Low power when inactive	Low power sustained comm
Low data rate	High bursty data rate Low active data rate	Scalable peak data rate Energy-efficient sustained data rate
Optional D2D with other devices	Optional NW direct connect	Opportunistic NW direct connect

# Tight coupling of communication and computing



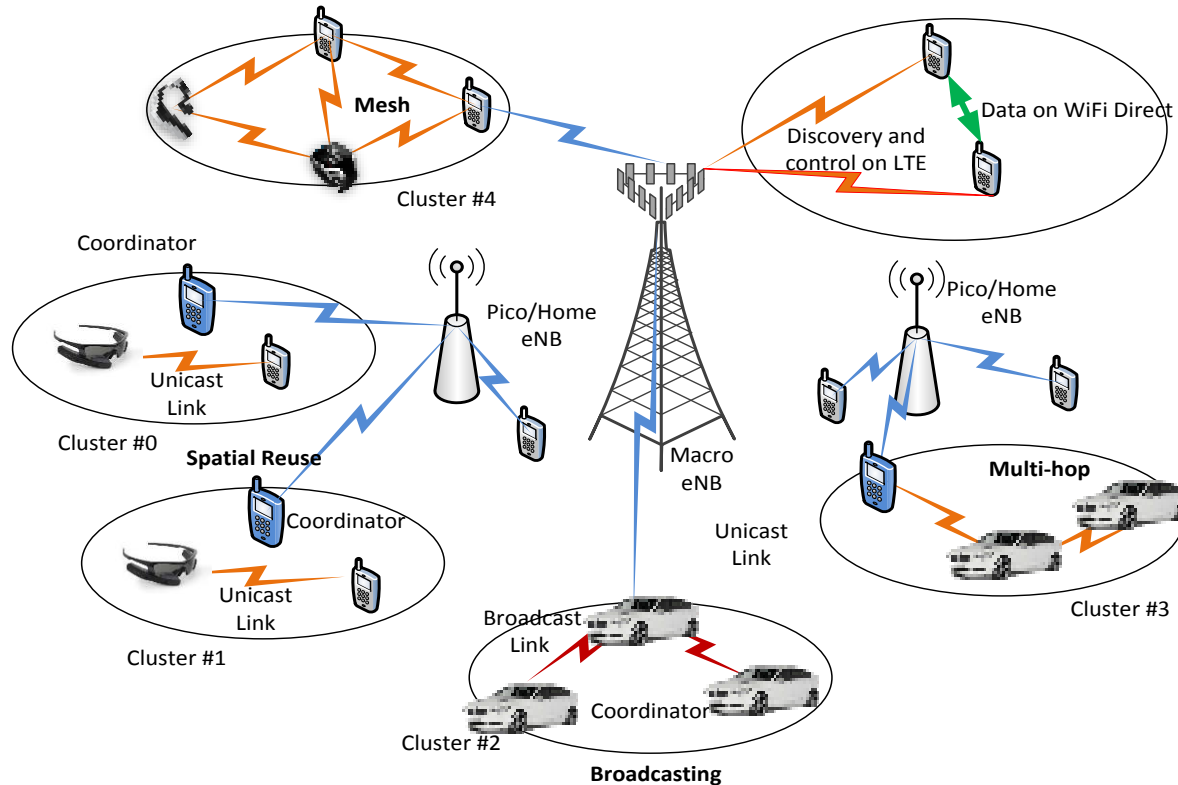
Virtualized Device + Access Mobile Computing

## Technology objectives

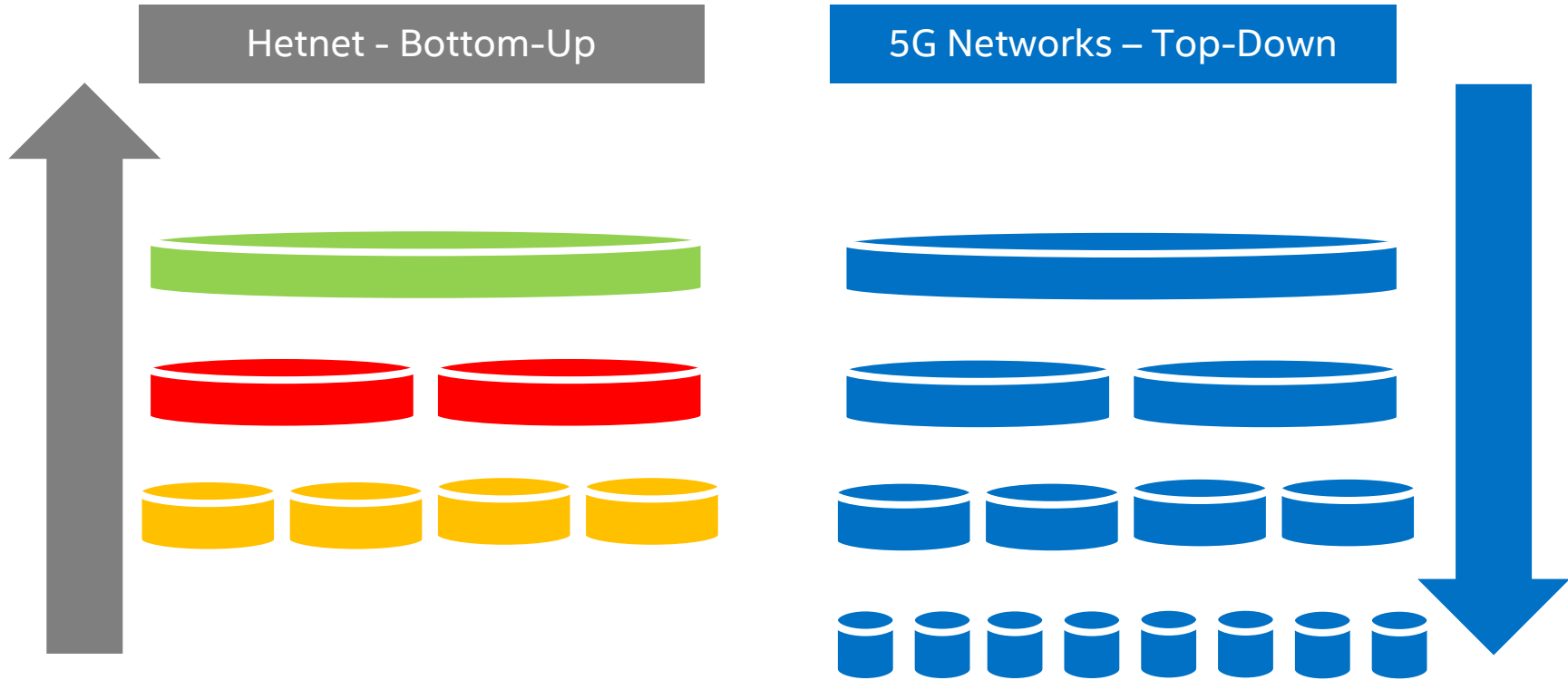
- Expand mobile computing beyond native platform capabilities
- Achieve optimum compute and communication tradeoff
- Infrastructure participates in application computing
- Simplify application development and performance optimization



# Densification of moving network clusters



# Transform today's hetnet into 5G networks





Thank You!

