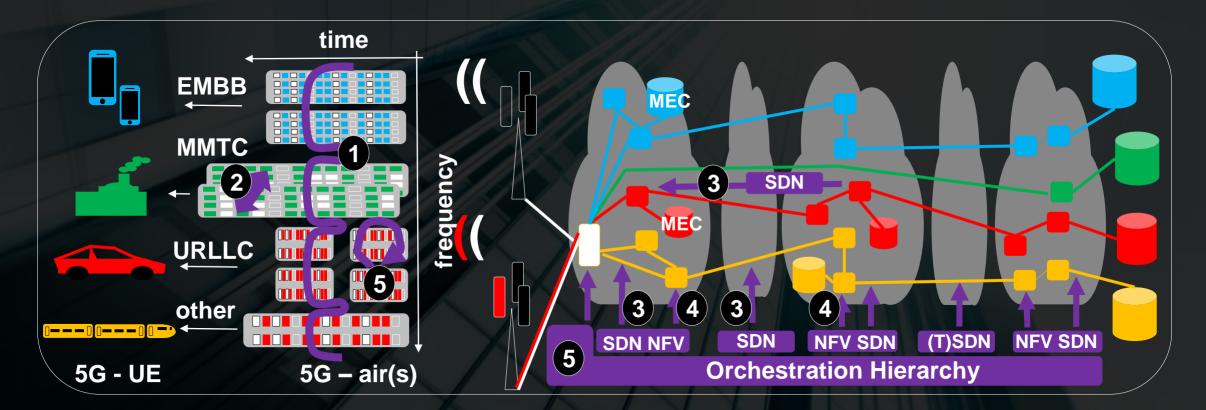
### **5G E2E Slicing**

# **Technology Update**

**Jianjun Wu** Director, Future Arch. Lab, Huawei June 28<sup>th</sup>, 2018



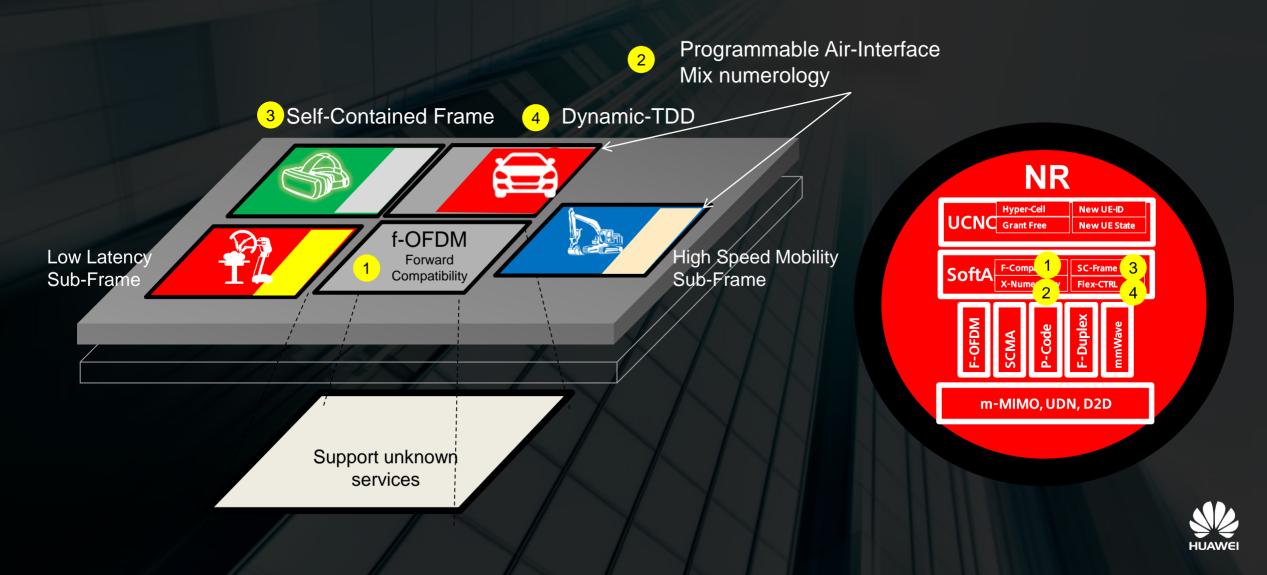
#### **Major Components of 5G Slicing**



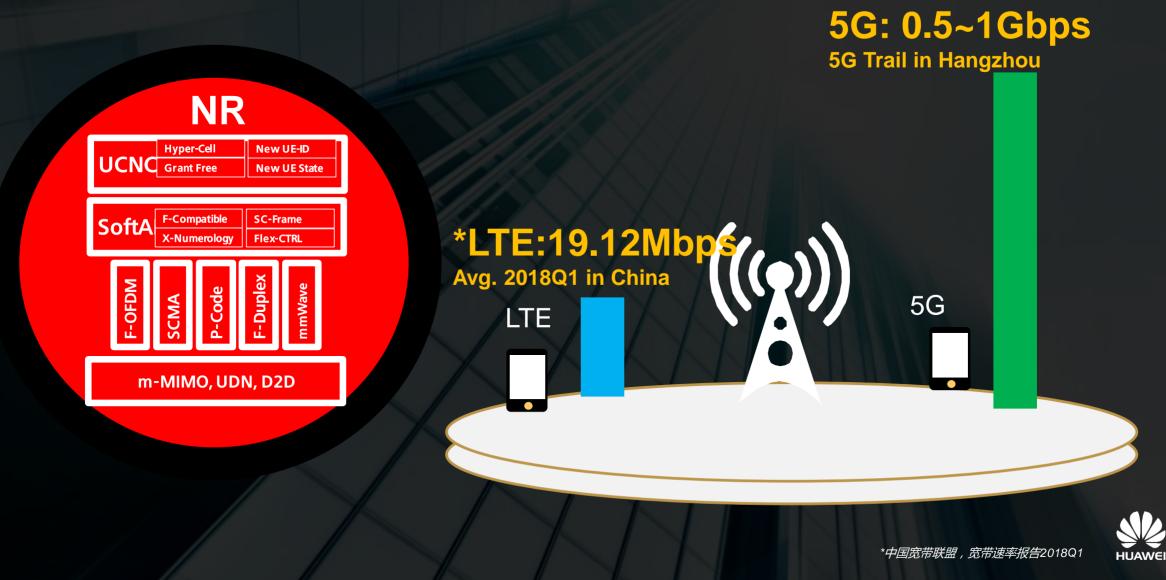
- a) F-OFDM Filtered OFDM flexibly isolates the bands allowing different behaviors
- b) Mixed Numerology enable the different slicing features within RAN Slicing part
- c) Slicing Breathe Must be possible for slices to change size and to exchange physical resources



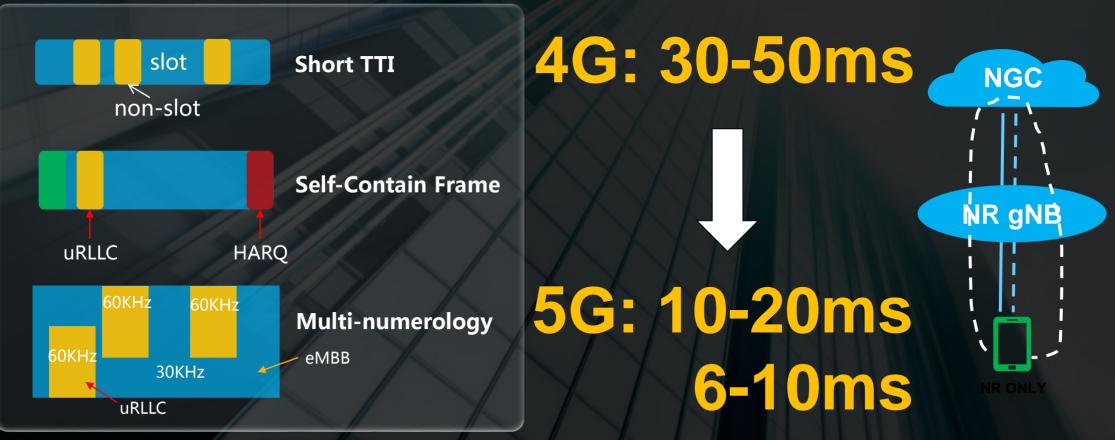
#### **Technology Components in RAN Slicing**



#### **Throughput with RAN Slicing**

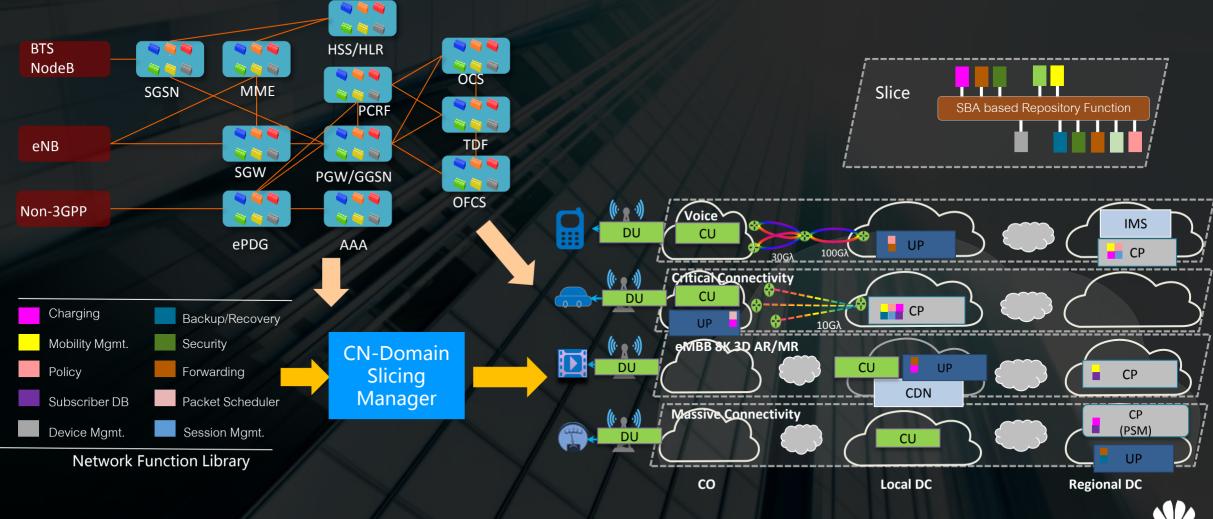


### Flexible RTT with RAN Slicing





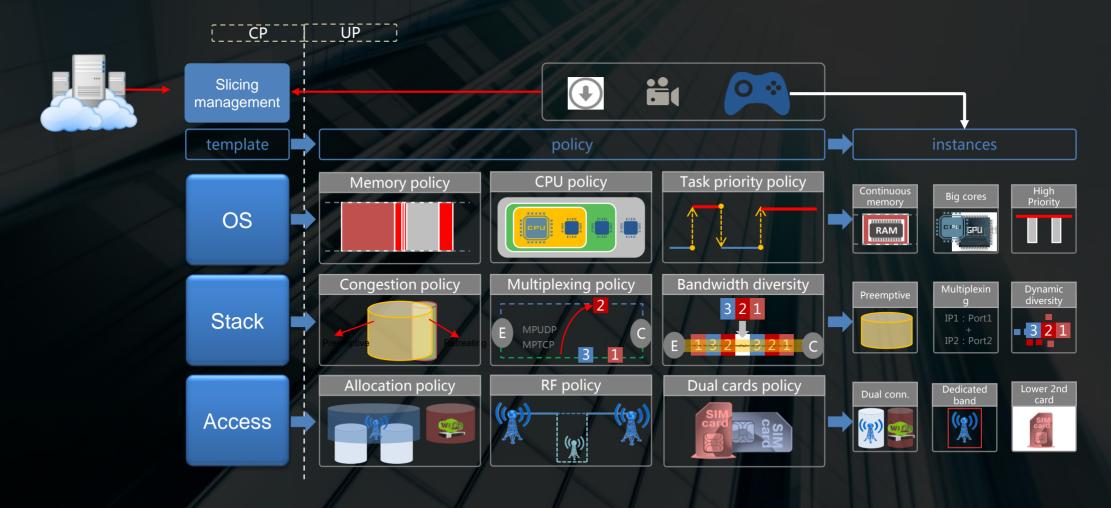
#### **Flexible Service Delivery with CN Slicing**



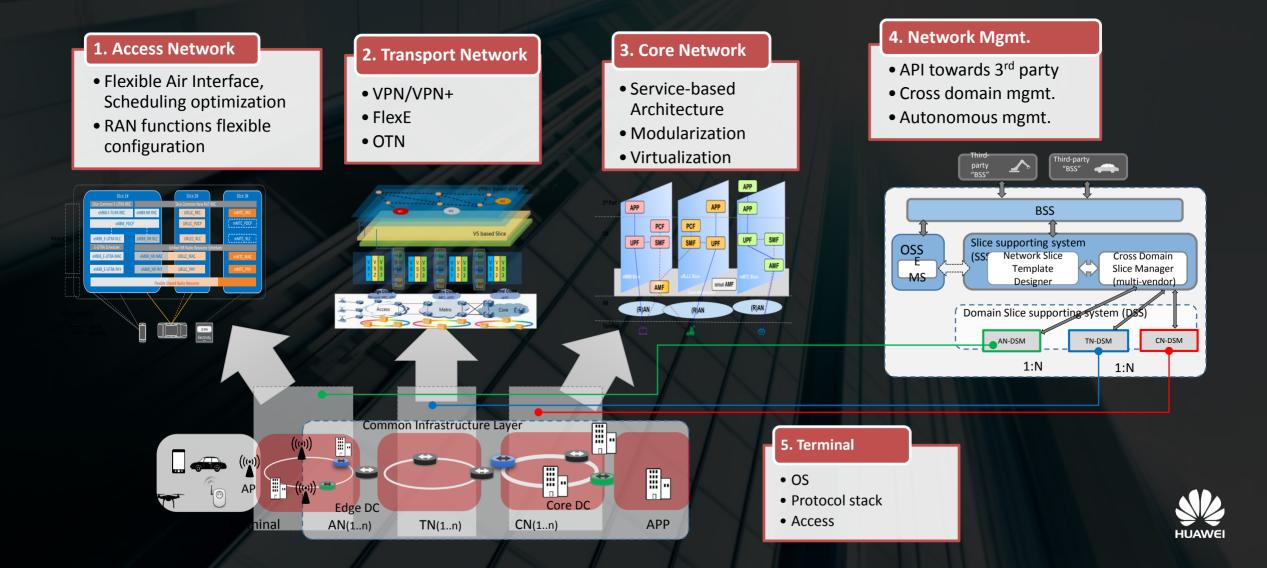


#### **Terminal: Network Slicing Awareness**

Smart phone may support differentiated performance in different layers

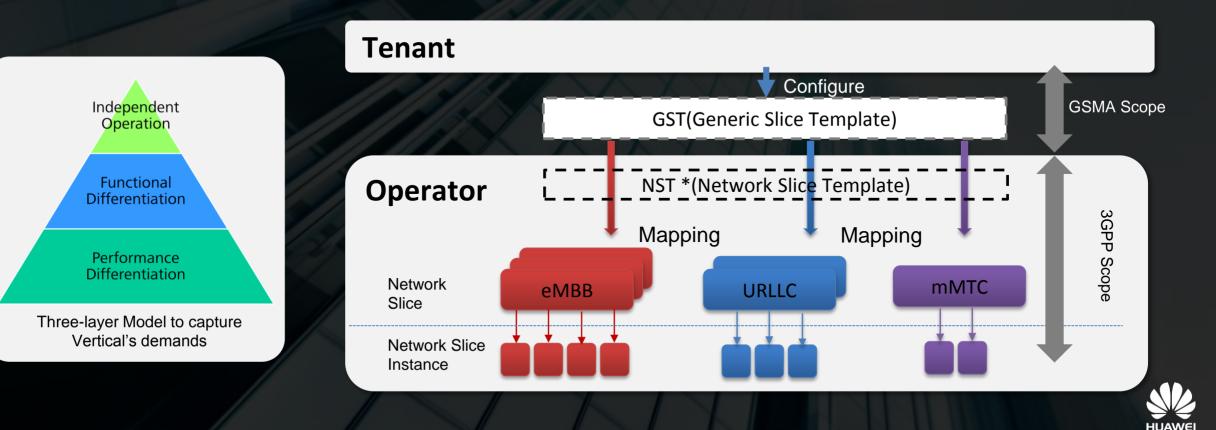


#### **Technology is not Bottleneck Anymore**



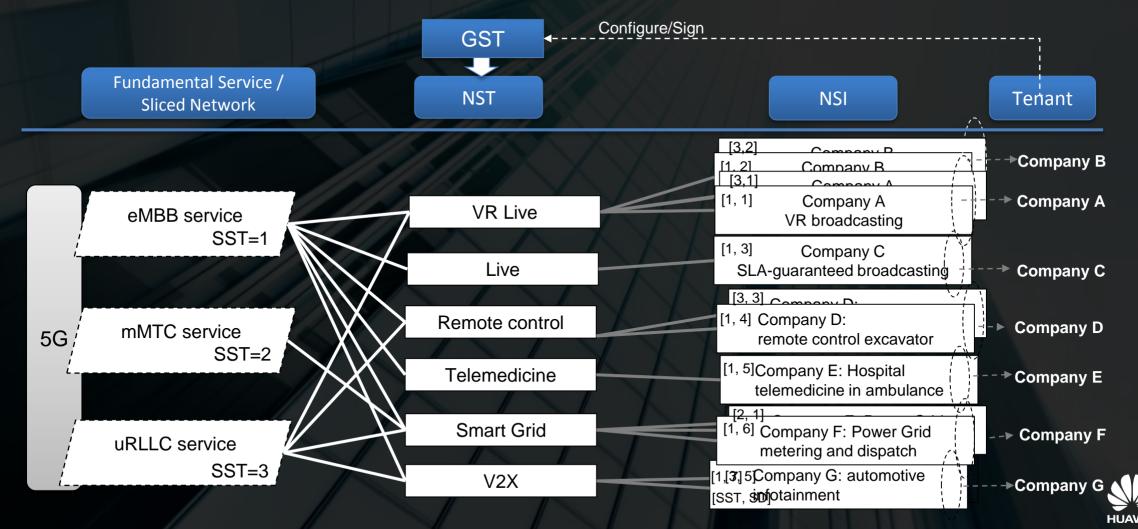
#### **Network Slicing Deployment**

- Generic Slice Template: From tenant requirements to network slice deployment
- Network slice instances are constructed based on tenants, and its execution is to enforce the SLA within specific network slice. Network slice is pre-constructed Network.



#### **Network Slicing Deployment**

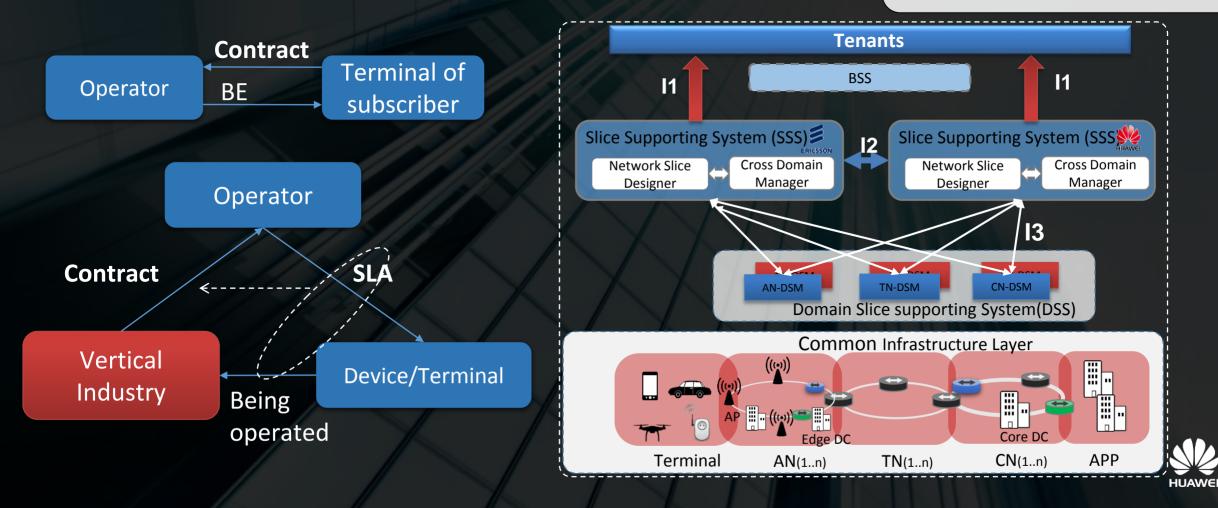
The essence of NSI is to support business application based on network capabilities



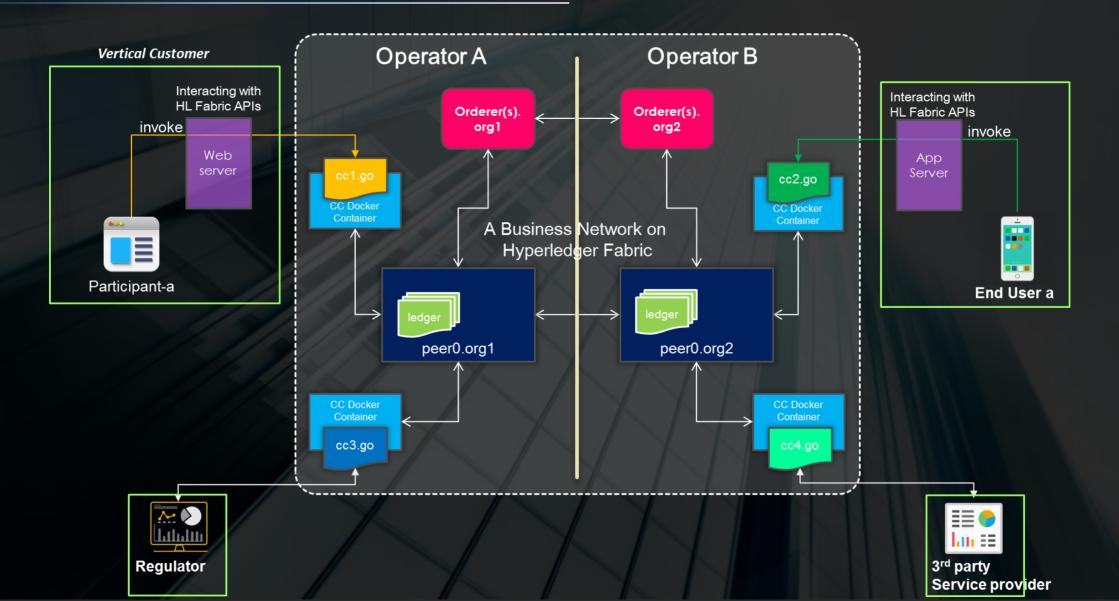
#### **New Network Operation and Services**

Bring business innovation, enable differentiated customer experience

How to establish transparent, collaborative, effective Slicing ecosystem is the key for 5G success.



#### **Blockchain enabled Slicing Ecosystem**

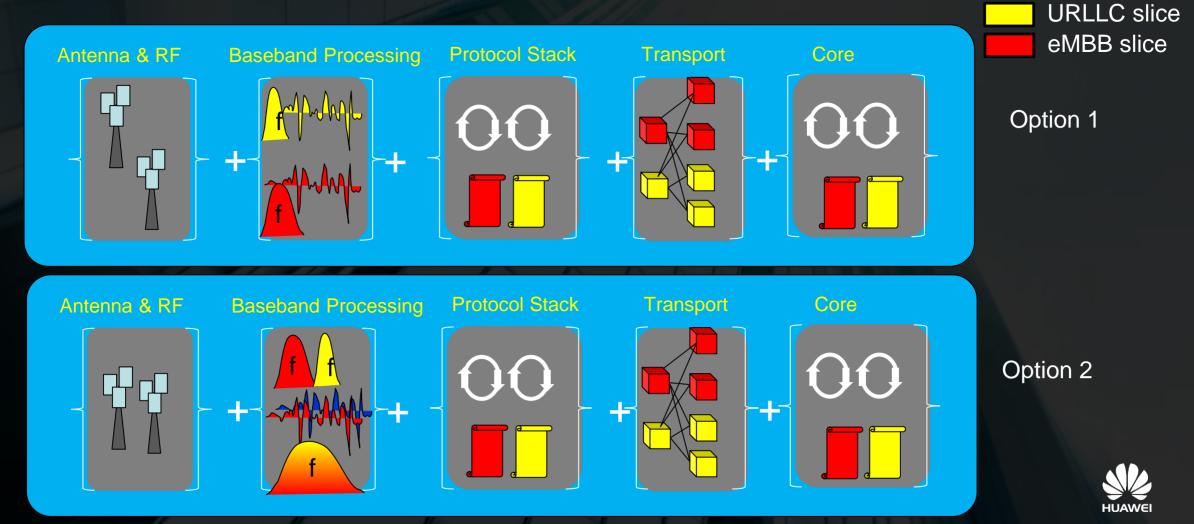




#### **Network Slicing Deployment -** Operators

How to build sliced networks from operators point of view?

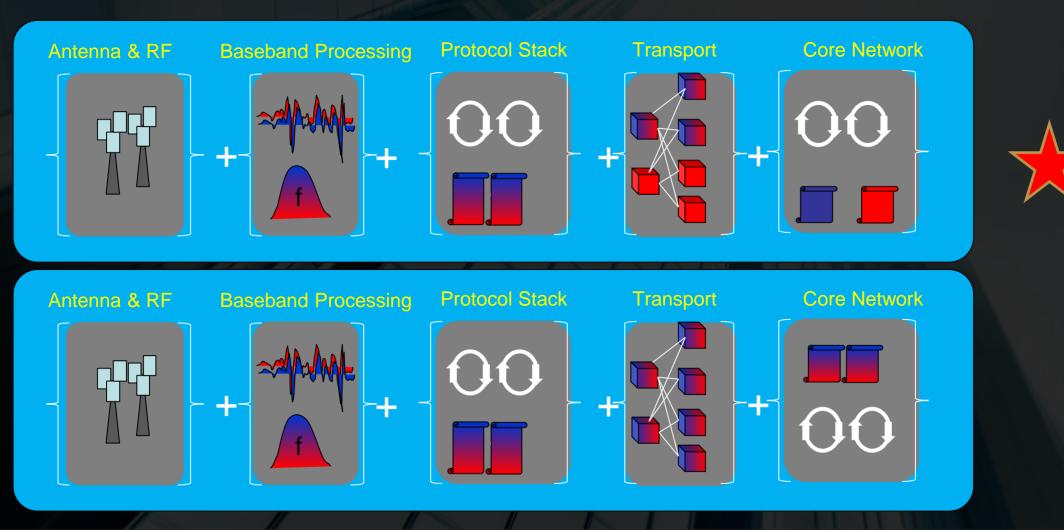
- Sharing the same bandwidth or dedicated spectrum?



#### **Network Slicing Deployment -** Tenants

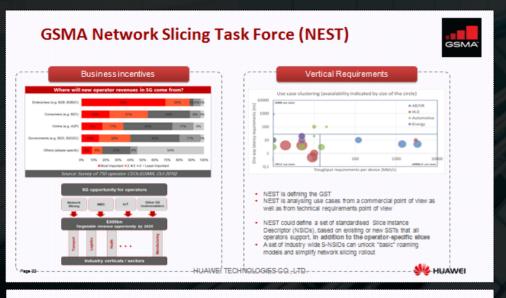
#### How to GET the slice from Tenants point of view?

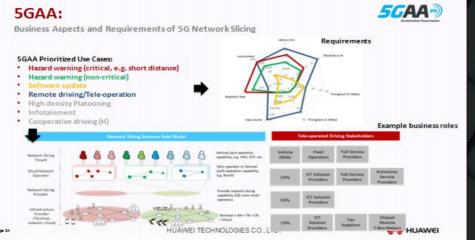
- How to get a real piece of sliced network, especially in RAN side ?
- The technical components can offer many possibilities, but does tenant really need this, also want to pay for it ?

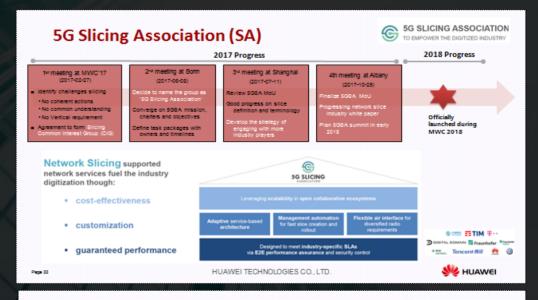


Tenant 1 slice Tenant 2 slice

#### **Network Slicing related Industry Activities**

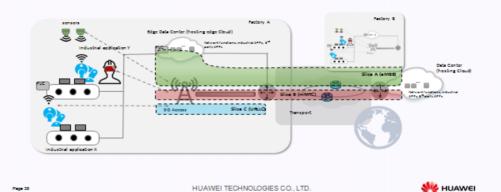






Network Slicing Enabled Manufacturing Industry







# 5G Slicing Technologies are Ready,

# More collaboration for business innovation are needed!

# Thank you!