

RP-182516

3GPP TSG RAN Meeting #82

Sorrento, Italy, December 10 - 13, 2018

# KT's View on 5G Icon



GiGA LTE

GiGA internet

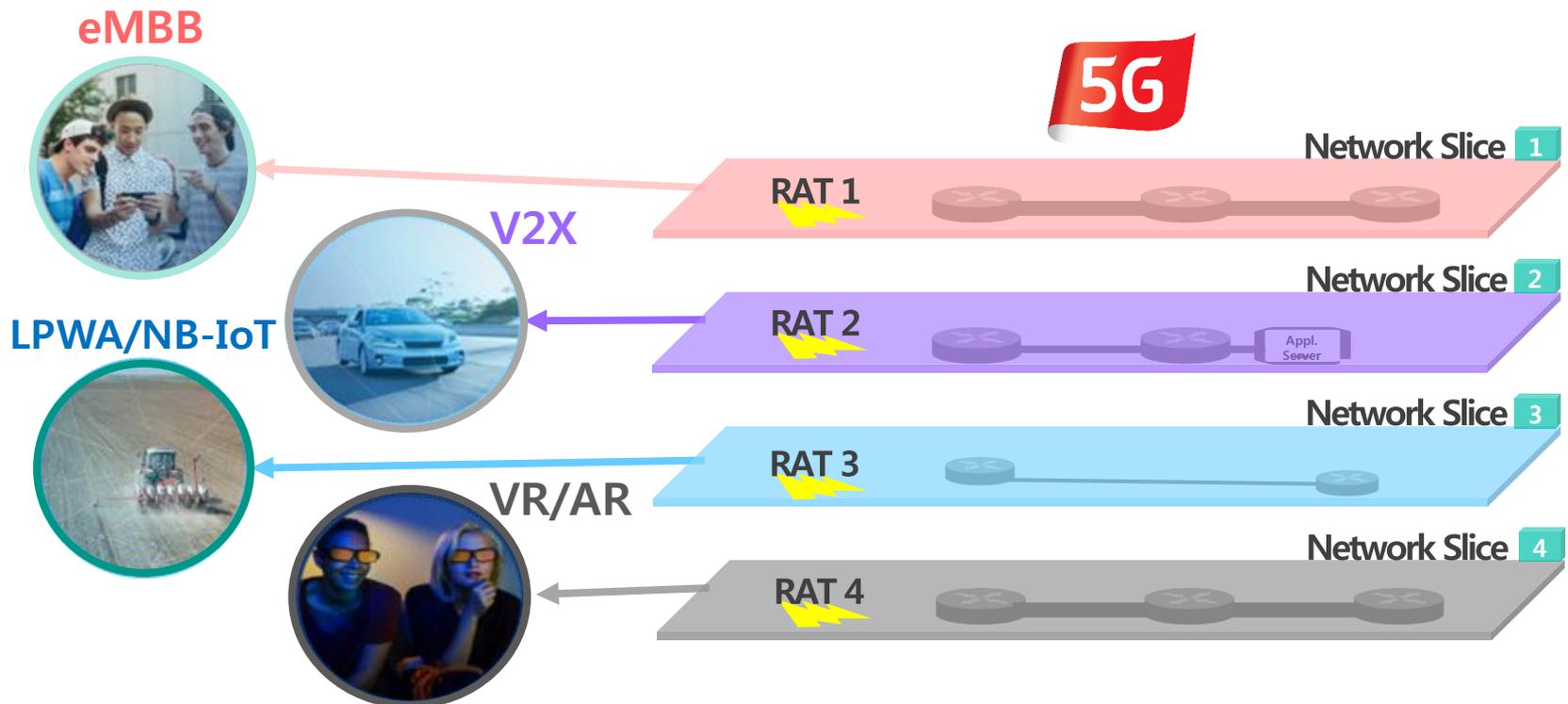
GiGA WiFi

GiGA IoT

GiGA UHD tv

# Background 1

- 5G users need to know what kind of 5G network is available to them !!!
  - No single RAT will satisfy all the 5G requirements.
  - It is inevitable to have different 5G RATs with different characteristics and different coverage.



## Background 2

- **RP-182013 Considerations on 5G icons**

- **Source** : Verizon, AT&T, KT, CHTTL, China Telecom, CMCC, KDDI, SK Telecom, TELUS, Asia Pacific Telecom, LG Uplus
- **Summary** : Expand the 1 bit 'UpperLayerIndication IE' to 3 bits so that operators can indicate different 5G network icons to users.

- **RP-181597 Operator Views on 5G Indicator**

- **Source** : T-Mobile USA, Deutsche Telekom, Telecom Italia, Orange, Sprint, BT, Vodafone
- **Summary** : “Any expansion of the UpperLayerIndication IE occurring at this time would risk interim action with the undefined extra bits, subsequently risking adverse effects on roaming and UE behavior in visited networks”

# Observations

- **Observation 1**

- Opponents of ‘UpperLayerIndication IE’ bit expansion are **concerned about “adverse effects on roaming”**.

- **Observation 2**

- It is true that different operators have different 5G deployment plans; therefore, it’s **more difficult to agree on a universal interpretation of ‘UpperLayerIndication IE’** if the number of bits increases.

- **Observation 3**

- Instead of expanding the 1 bit ‘UpperLayerIndication IE’ to 3 bits, we can **define a separate IE which is operator specific** so that **operators can indicate different 5G icons without the “adverse effects on roaming”**.

# Proposal

- Instead of expanding the 1 bit 'UpperLayerIndication IE' to 3 bits, let's agree on a separate upper layer indication IE which is operator specific.

Thank you