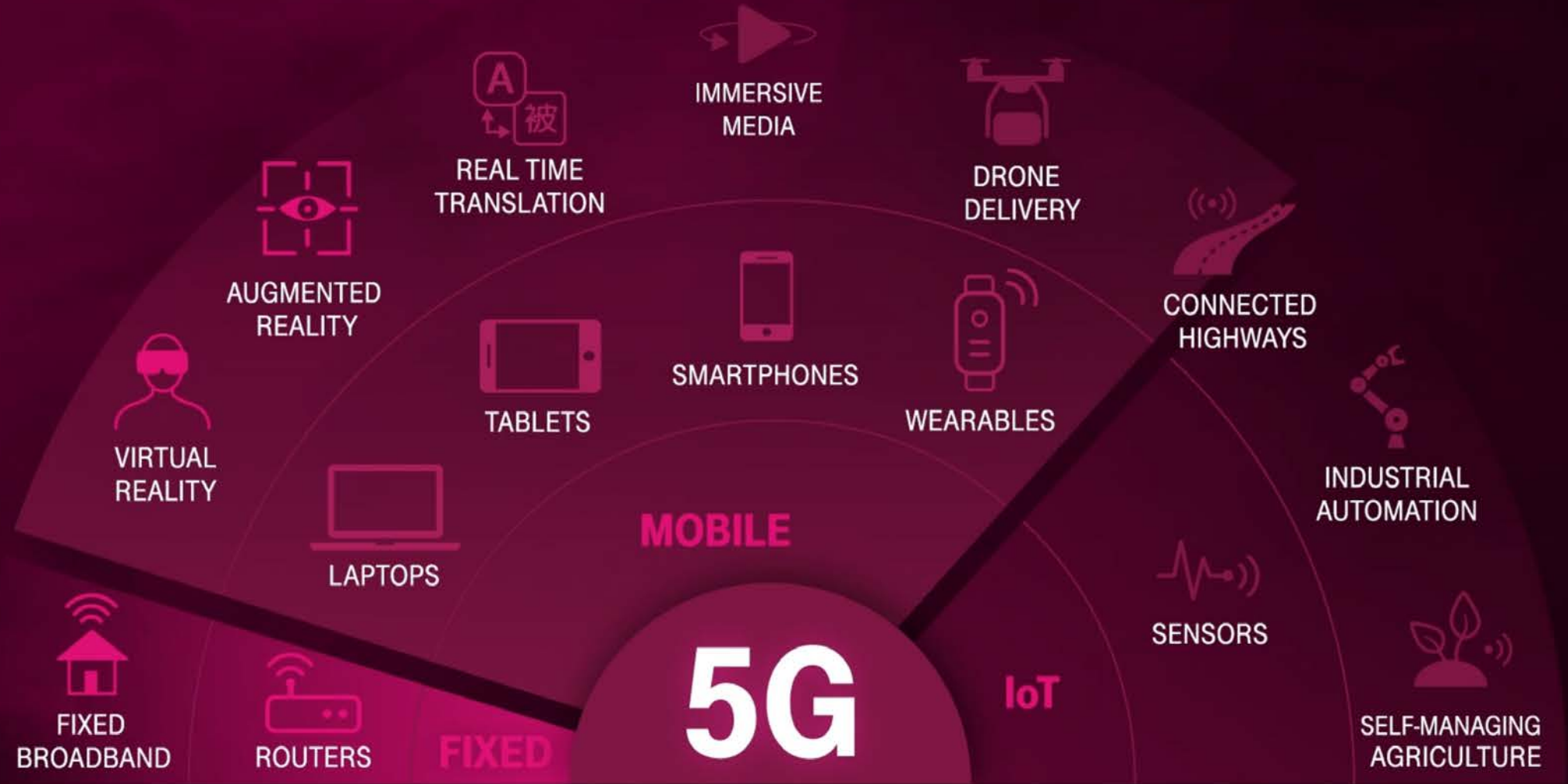


# Spectrum strategies for 5G success

**Karri Kuoppamaki**

**VP, Network Technology Development**





# 5G VISION – RICH IN MOBILE OPPORTUNITIES

# 5G Foundation is built on coverage and LTE



**322 Million  
POPs!**

**5G**

**FD-MIMO**

**LICENSE ASSISTED ACCESS**

**256 QAM**

**4x4 MIMO**

**CARRIER AGGREGATION**

**VoLTE**



# 5G NEEDS ALL SPECTRUM BANDS



**BUILDING**

**5G**

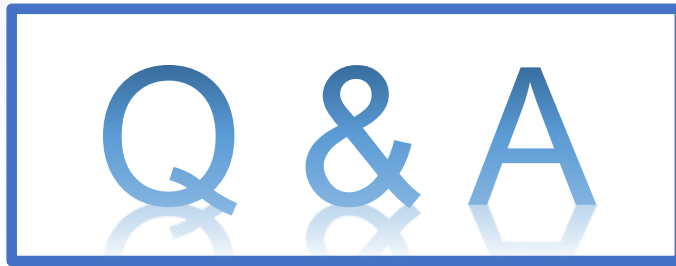
**ON AMERICA'S  
MOST ADVANCED  
LTE NETWORK**



**WITH 600MHz SPECTRUM  
COVERING  
EVERY INCH  
OF THE U.S.**

# LET'S TALK

 @KKuoppamaki



Karri Kuoppamaki  
*Vice President Radio Network  
Technology Development & Strategy*  
T-Mobile USA

Hosted by

