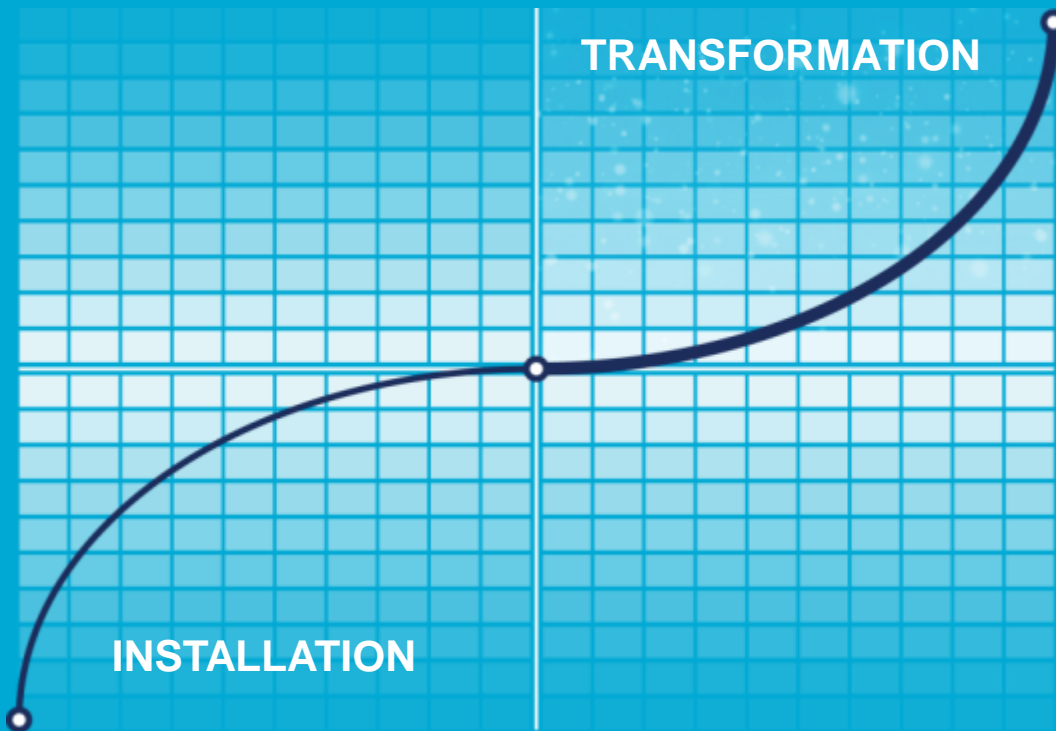


A car is driving on a dirt road that curves through a field of bright yellow flowers. In the background, there is a dense forest of trees under a clear sky. The overall scene is bright and natural.

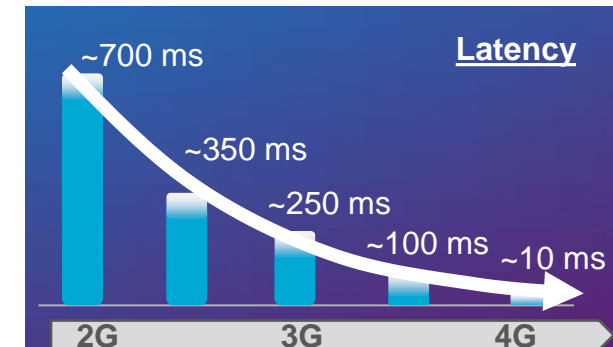
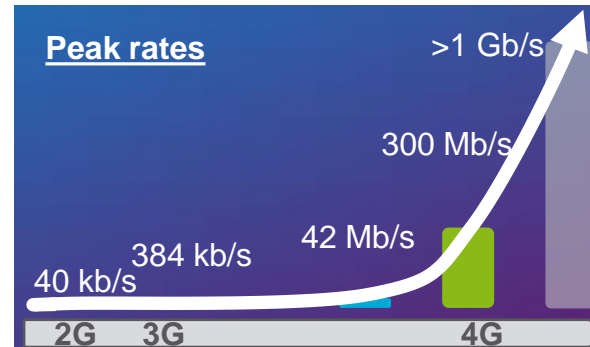
# INDUSTRIAL INTERNET AND 5G

Janne Peisa  
Principal Researcher, Ericsson Research

# ICT BEYOND THE INFLECTION POINT



- › Mobile communication has revolutionized personal communication
- › Installed communication infrastructure
  - › Ubiquitous availability at marginal costs
  - › Broad capabilities and evolving



- › Enabler for industry transformation with digitized processes

# MOBILITY GENERATIONS



1G

Voice Service  
Started in the US

2G

GSM Global Standard  
Lead in Europe

3G

3G Mobile Broadband  
Lead in Europe/Asia

4G

Future of Mobile Broadband  
Driven from the Asia/US

5G

Networked Society  
Extreme Performance



# 5G – BEYOND MOBILE BROADBAND



Broadband experience everywhere anytime



Mass market personalized media and gaming



Meters, sensors, "Massive MTC"



Remote controlled machines



Smart Transport Infrastructure and vehicles



Human / machines interaction



And much more!

## New opportunities and flexibility for the unforeseen



# CONNECTED CAR



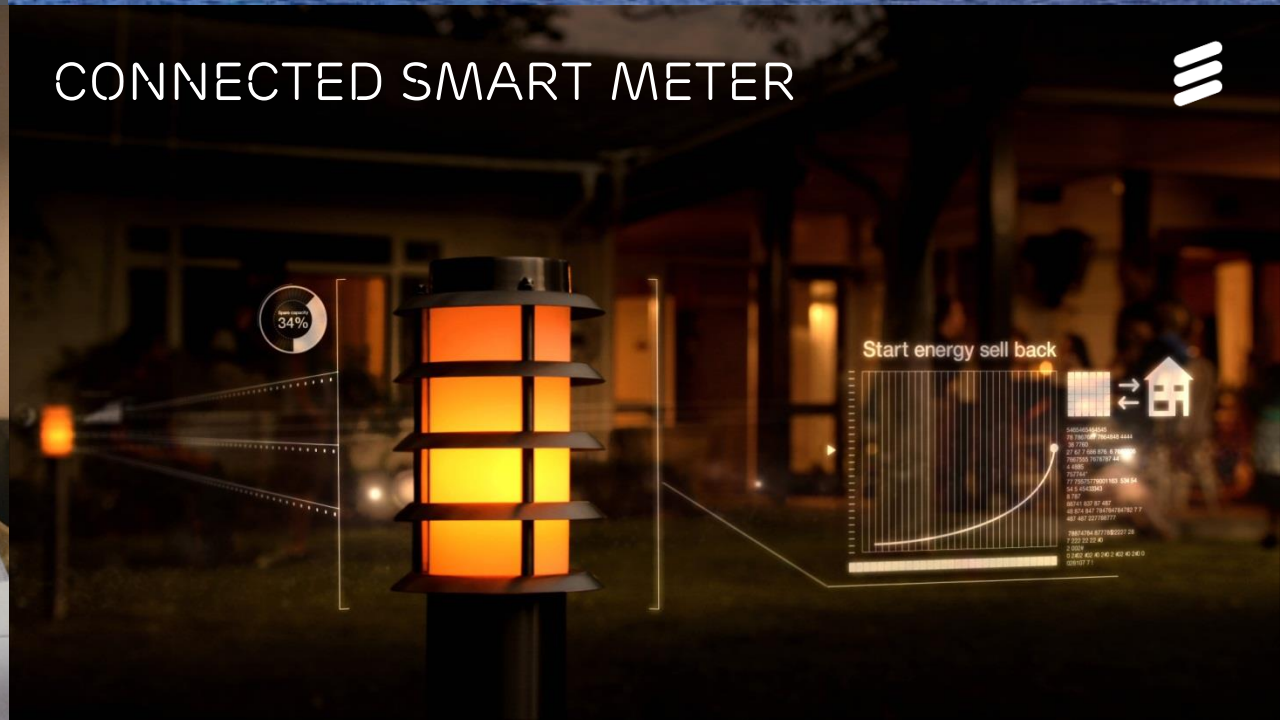
# CONNECTED VESSEL



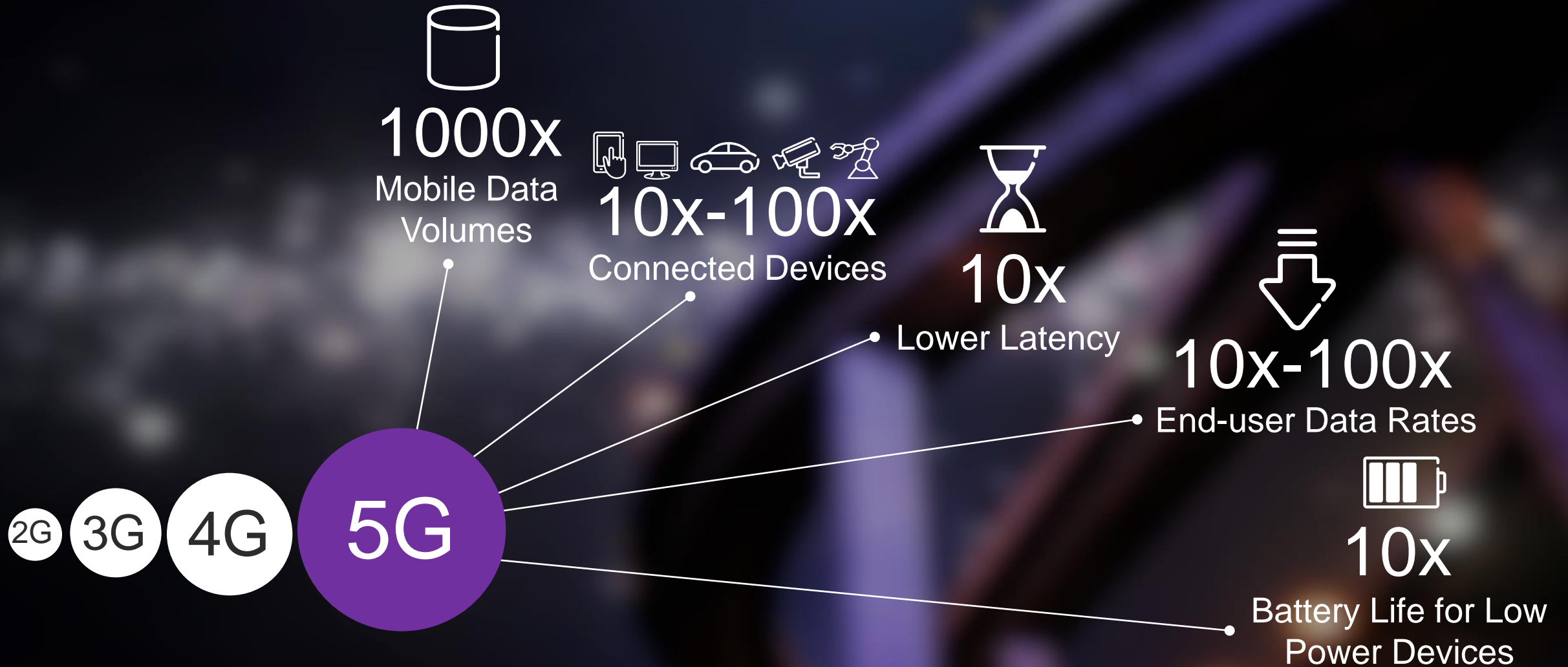
# CONNECTED MEDIA



# CONNECTED SMART METER



# EVOLUTION TOWARDS 2020





# DATA RATES



More than 10 Gbps in specific scenarios

Several 100 Mbps available in urban/suburban scenarios

Multi-Mbps connectivity essentially everywhere

# COVERAGE



Multi-Mbps connectivity essentially everywhere

# LATENCY



Possibility for less than 1 ms end-to-end delay

# FLEXIBILITY AND ROBUSTNESS



## Flexibility



Open



Mobile



Programmable



Agile



Sustainable

## Robustness



Scalable



Secure



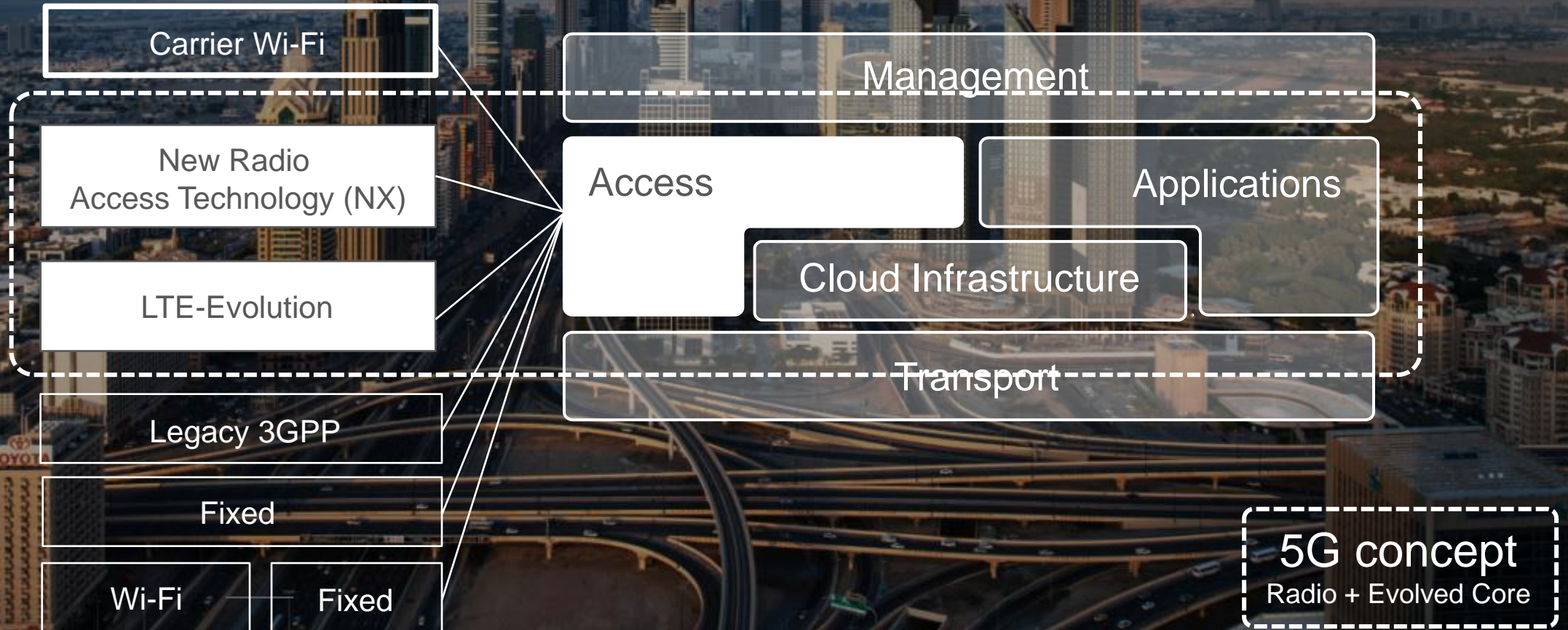
Reliable



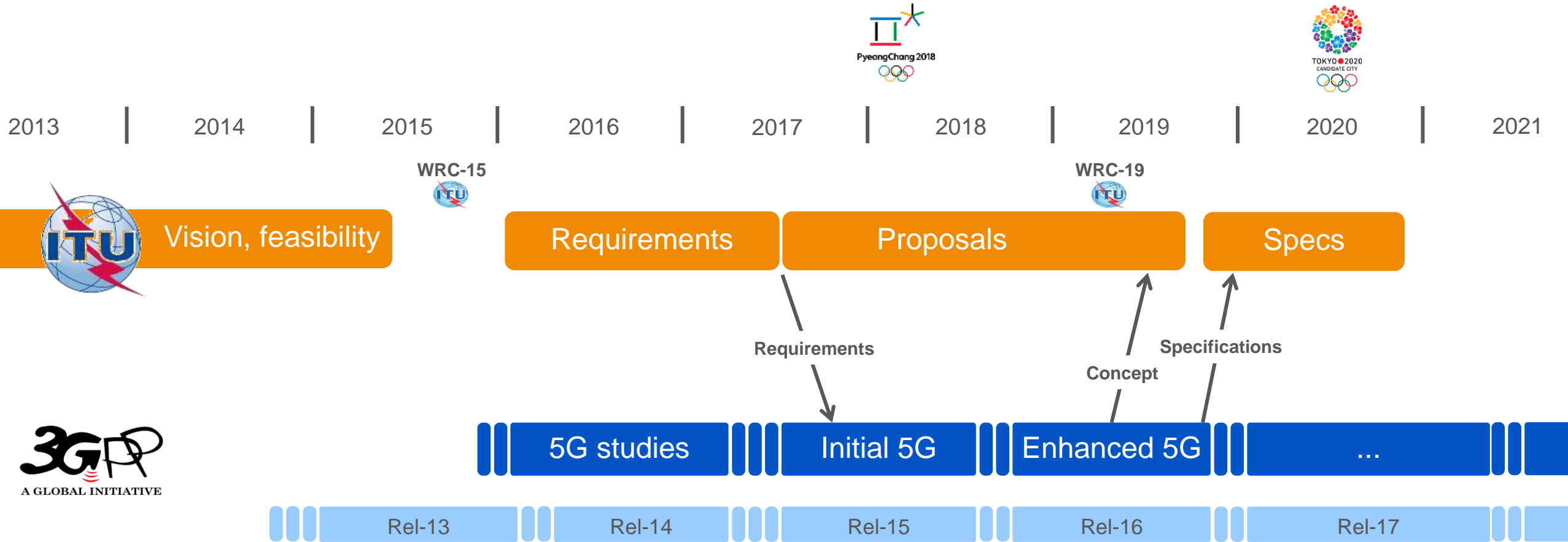
Standardized



# NETWORK BEYOND 2020



# 5G TIMEPLAN



# SUMMARY



- › 5G systems enable both mobile broadband evolution and new use cases
- › 5G systems based on both evolution of existing technologies and new technology
- › First commercial systems expected ~2020







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