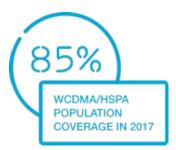
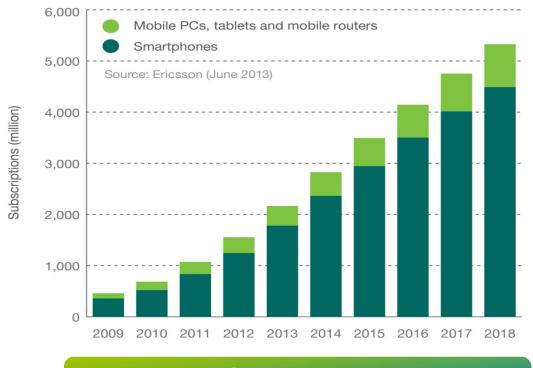
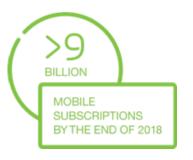


TRENDS - MOBILE BROADBAND









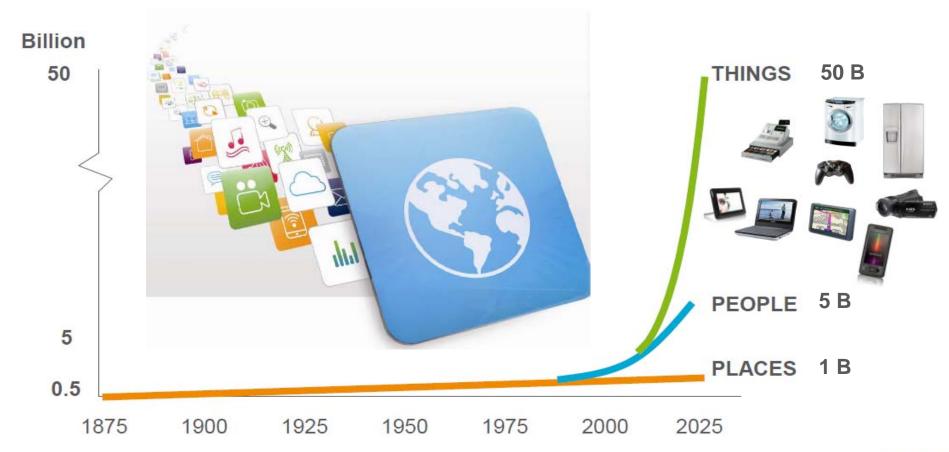


4.5 Billion Smartphones by 2018



TRENDS - INCREASING THE PACE





Source: Ericsson

TRENDS - COMM. EVOLUTION

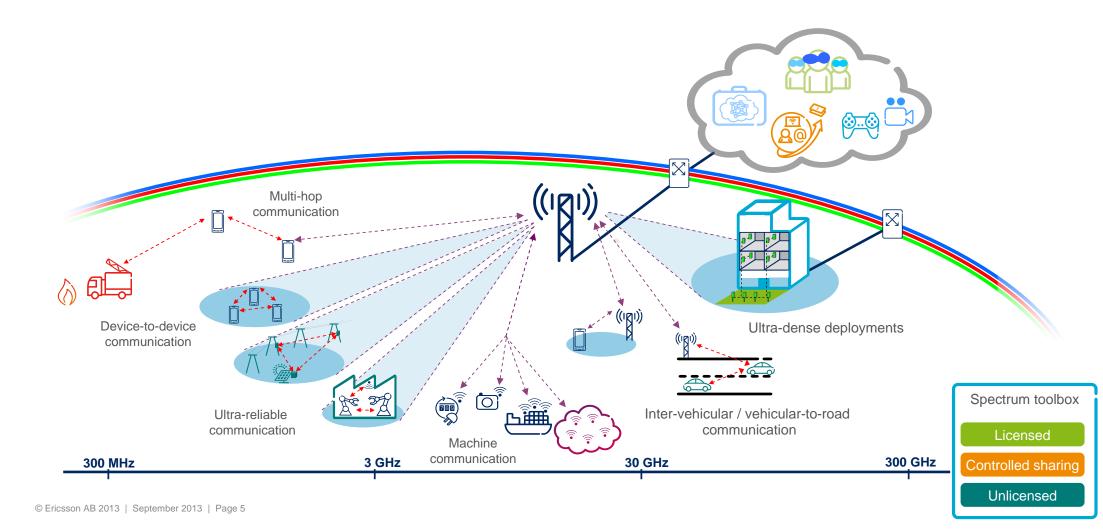




Communication – from a service to an embedded feature

5G - WIRELESS ACCESS





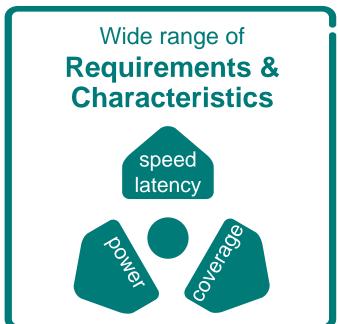
5G - KEY CHALLENGES



Massive growth in Traffic Volume

>1000x





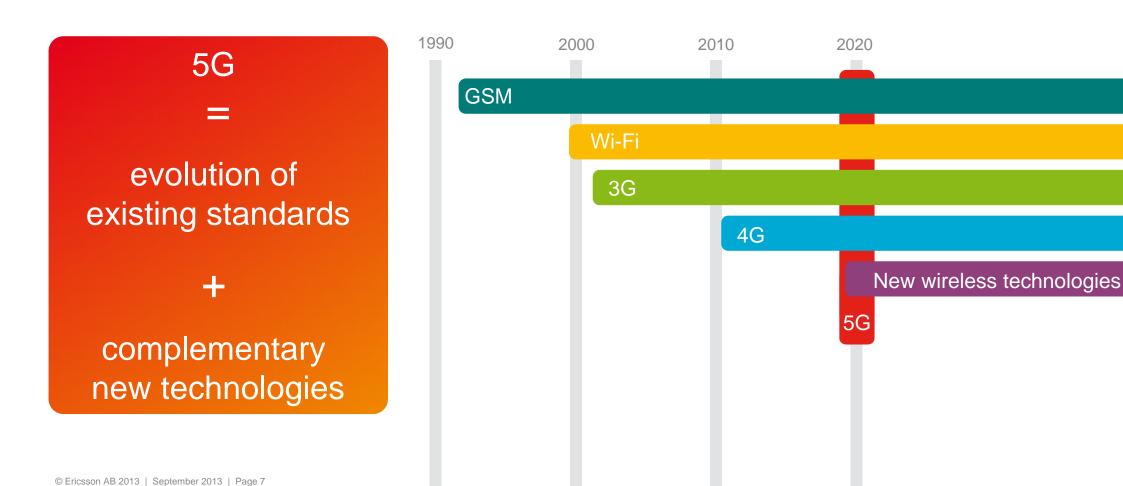


Affordable and sustainable



5G - WIRELESS ACCESS





THE CELLULAR GENERATIONS

Deployment

1995

Standardization

1990





2000

2005

2010

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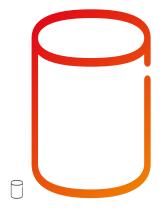
1985

Research

GSM

5G - METIS PROJECT OBJECTIVES





1000x

higher mobile

data volumes

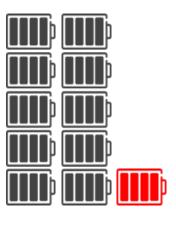
10-100x higher number of connected devices



10-100x typical end-user data rates



5x lower latency



10x
longer battery life
for low-power devices

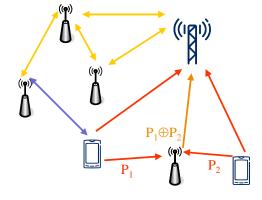
Develop a concept for future mobile and wireless communications system that supports the connected information society

5G - COMPONENTS AND ASPECTS





Small cell technologies & Ultra Dense Networks



Multi-hop and Network Coding



Massive MIMO

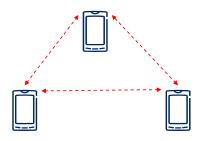




Resilience, security and privacy



Network, Mobility & Interference Management



Device –to- device communications

5G - COMPONENTS AND ASPECTS





Small cell technologies & Ultra Dense Networks





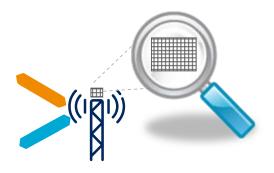
Resilience, security and privacy



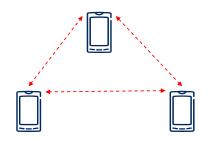
Power consumption & sustainability



Spectrum



Massive MIMO



Device –to- device communications

5G - TIME PLAN





NETWORKS CONTINUE TO EVOLVE













Scalable

Simple

Trusted



