

# Mobile infrastructure sharing 5G specifics and challenges

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# 5G specifics I

## New financial challenges

- ▶ **materially higher costs** related to 5G deployment and operation
  - MW backhauling solutions insufficient
  - necessary existing RAN upgrade; IT and service platform upgrade
  - new frequency bands; higher spectrum bands characteristics
  - substantial site densification
  - upgrade of current technology networks insufficient to support increased traffic and technical requirements etc.
  
- ▶ **limited/challengeable revenue upside**
  
- ▶ higher costs and lower revenues due to COVID-19 crisis

# 5G specifics II

## Other challenges

- ▶ ever-growing customer demand, enhanced mobile broadband, rapidly increasing demand for capacities for data transfer
- ▶ newly emerging use cases, application and services
- ▶ 5G densification, increased importance of small cells, inevitable growth of investments into capacity
- ▶ new network design and cooperation strategies
- ▶ related negative environmental effects (urban disruption, visual pollution, physical space limitation) etc.

# Essentials for widespread 5G roll-out

## Legal and regulatory framework

- ▶ without strong regulatory support early and high quality 5G deployment to be hardly achieved
- ▶ transparent, open and up-to-date EU/national legal and regulatory framework supporting operators' incentives to make risky, expensive 5G investments
- ▶ environmental easement, construction permits, release of new spectrum bands etc. itself insufficient without change in the current regulatory approach towards network sharing

# 2019 Common Position I

## 2019 Common Position shall reflect urgent need for

- ▶ **more supportive approach to widespread roll-out of 5G networks**
- ▶ **more open and neutral approach towards various new forms of cooperation strategies**
  - concentration on service-based competition that definitely takes over infrastructure based competition
  - more network virtualization
  - one network accessible on the basis of the wholesale offer
  - new financial and business models of deployment and operation of 5G networks (industry collaboration - partnerships between network operators and broadcasters or third party players, central and local government support etc.) etc.
- ▶ **clear-cut diversion from current regulatory framework suitable for traditional technology but incompatible with future technologies**

# 2019 Common Position II

## 2019 Common Position shall reflect

- ▶ rural-urban topology no more conforming 5G needs
- ▶ passive only sharing insufficient due to 5G characteristic
- ▶ **5G extensive (active) sharing becomes necessity**
  - inevitable 5G densification
  - lack of physical space to accommodate all individual operators' equipment
  - significant expenditure beyond rural areas

# Thank You

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