

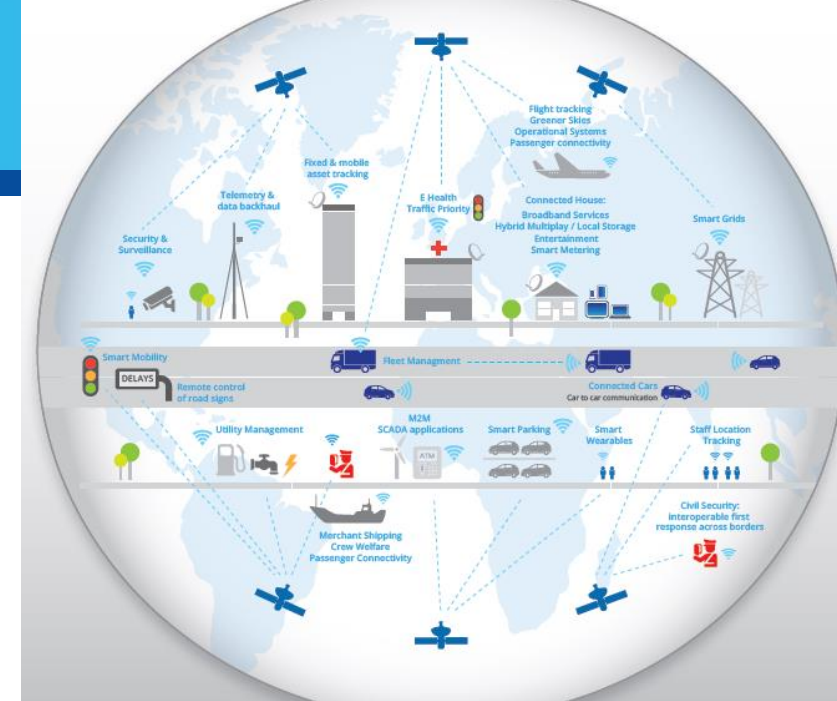


# **CAN EUROPE LEAD IN 5G? PERSPECTIVE ON SPECTRUM POLICY**

26 October 2016

# WHAT SHOULD BE 5G?

**Satellite system as a key element to allow seamless extension of 5G services anywhere, anytime**



Source: ESOA

Universal  
Connectivity

5G  
Goals

Massive  
Connection

Enhanced  
Broadband

Industrial  
Revolution

Critical  
Communications

- /// Not a simple evolution of mobile broadband networks
- /// Convergence of fixed, mobile, and broadcast services
- /// Real integration of different communication systems

# ROLE OF SATELLITE IN 5G

**Complementary approach amongst Satellite, Mobile & Fixed infrastructures is absolutely needed to adequately respond the demands**

## **Significant risk to increase digital divide accross regions with 5G**

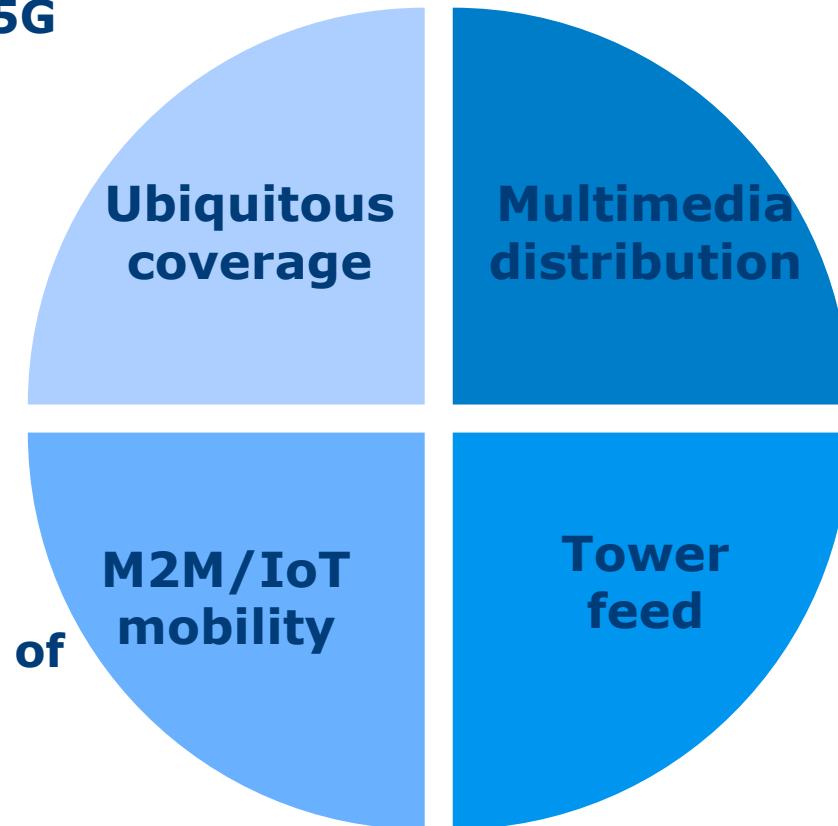
- Connectivity of non-urban environments
- Challenge with some proposed frequency ranges

## **Satellite system offers**

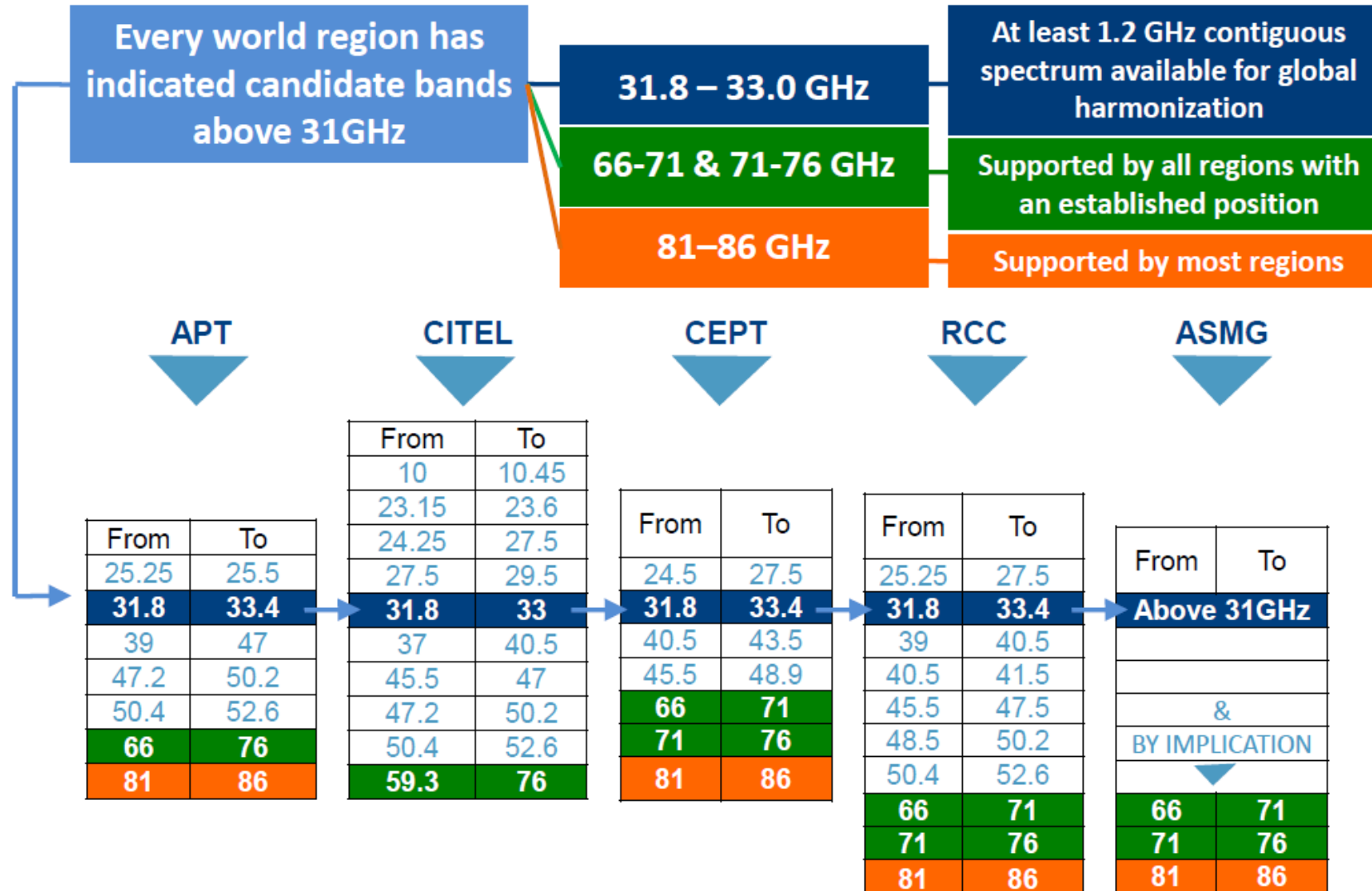
- Truly ubiquitous coverage
- Sustainable Capex Spending
- Appropriate integration through hybrid platforms

## **Need to to ensure that satellite systems are integrated as part of the 5G ecosystem**

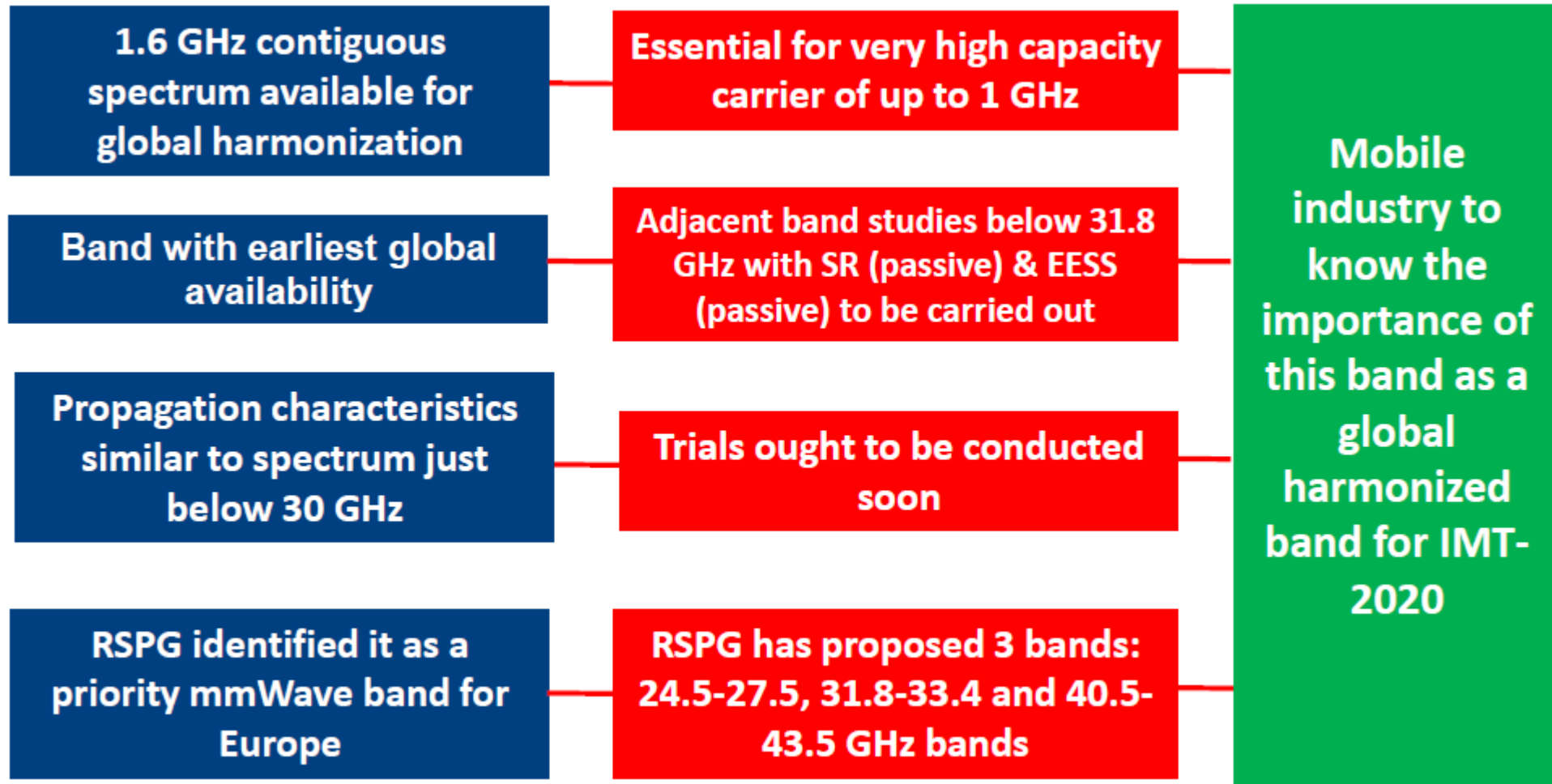
- Respond to the market demands in term of connectivity
- integrate air-interfaces with acceptable latency when satellite connection is involved



# 5G SPECTRUM (AI 1.13)



# WHY THE 32 GHZ BAND IS A GOOD SOLUTION?



**Offer an appropriate policy framework to support investments in the different connectivity platforms (Fixed, Mobile & Satellite)**

## **/ Be correctly reflected in the way to manage spectrum**

- Efficiently use of existing allocation
- Respond to the market demands in term of connectivity
- Offer certainties and incentives for current and future investments

## **/ Leverage on satellite uniqueness and capabilities**

- To deliver broadband Everywhere
  - Offer ubiquitous coverage and Pan-European connectivity
  - Expand the benefit of broadband connectivity to hyper-connected urban environments
  - Reduce the digital divide accross Europe
- To develop solution on planes, faster trains and cars
- To enable an ultrareliable network for mission critical applications
- To deliver a meaningful and efficient Broadcast service

ANY  
QUESTIONS  
?