

# “6G Strategic vision” RSPG hearing

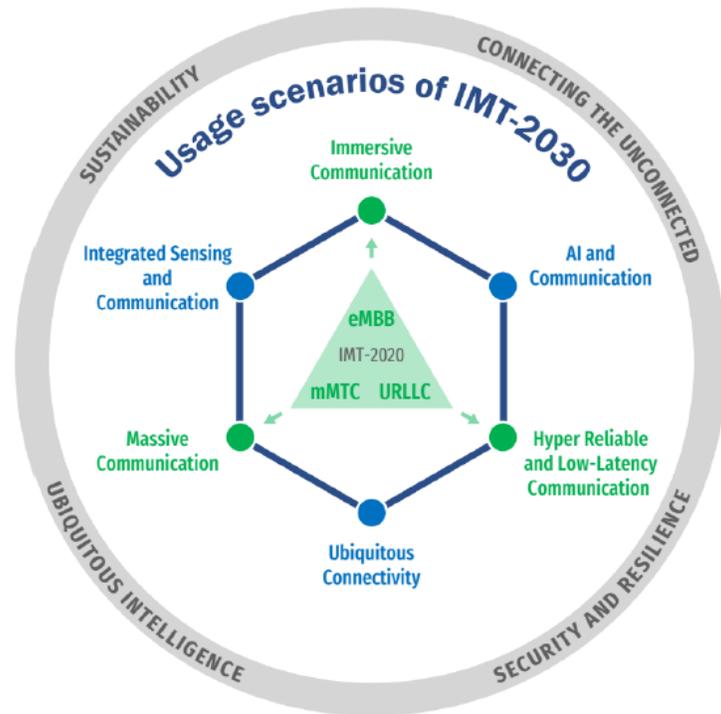
27 September 2024

Thomas Konschak, Deutsche Telekom AG

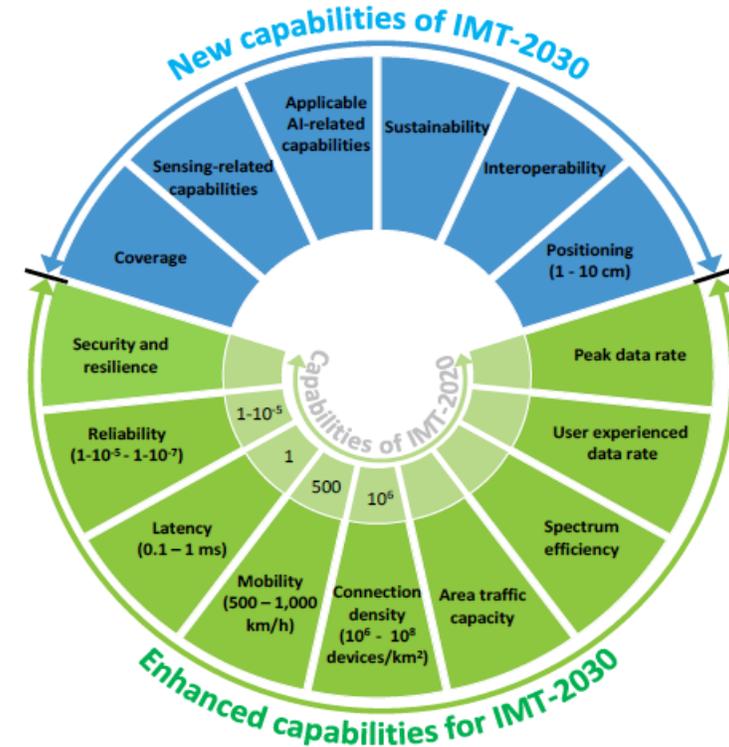


# ITU-R has defined a high ambition level for 6G

## Usage scenarios and overarching aspects of IMT-2030

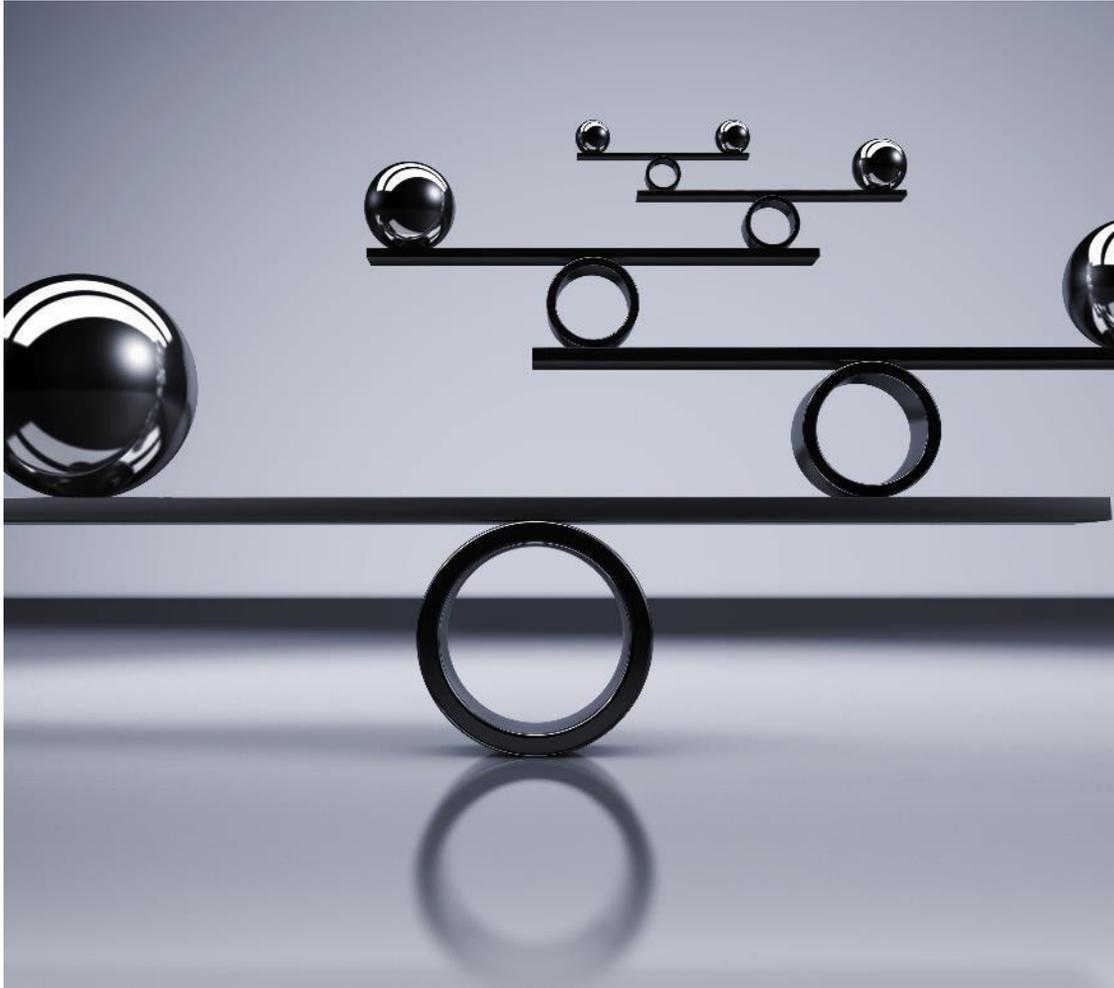


## Capabilities of IMT-2030



This 6G vision can only be achieved with the right preconditions to stimulate infrastructure investments.

# On the Way to 6G



- A global 6G standard
- No intrinsic need for hardware upgrade
- Software upgrades from 5G-Advanced to 6G
- No performance degradation for 5G customers
- User-centricity via mobile, fixed-line and NTN networks
- Robust resilience
- Backward compatibility with 5G

[www.NGMN.org](http://www.NGMN.org)



# DT's Strategy on 6G Way forward

## Best experiences through agile partnering

We put people first and use the right partner ecosystems for the best user experience.

## Highly efficient energy consumption

Contribute effectively to the global community's emissions and efficiency targets.

## Trustworthiness & Security

Design and integrate trustworthiness and security into all service experiences offered from the start.



## Ubiquitous access for our customers

Expanding coverage for our customer base and their evolving needs.  
3D Network Deployments

## Significantly improved resource utilization

Innovating to make the most of valuable resources, e.g. spectrum, etc..

## Leveraging new innovations in the field of radio

Improvements in wireless technologies can bring new experiences and added value to our customers (e.g. JCAS technologies).

# DT's Vision for 6G

## Europe is frontrunner and plays a leading role in 6G deployment

- Mobile **networks will get additional resources to serve the mobile broadband needs of European citizen and to not run out of capacity** before the end of this decade.
- Mid band spectrum providing wider channels of at least 200 MHz per operator, e.g. in 6 GHz, is **key to provide full blown 5G SA as a basis to implement 6G**, and to achieve national and international digitization goals. Europe supports additional IMT spectrum at WRC-27.
- Timely availability at reasonable conditions supports Europe's competitiveness.
- **The right conditions enable European Telcos to invest in European infrastructure.**

**There is the need for timely political and regulatory decisions to allow this vision to become reality.**

# Mobile broadband demand is recognized in policy but so far no clear commitment for making spectrum available

Europe is aiming for best-in-class mobile networks, appropriate mid band spectrum is key to achieve this goal

*Europe cannot afford yet another spectrum authorization process for the next generation mobile technology spreading over almost a decade*

How to master Europe's digital infrastructure needs?

EC, February 2024

*Allocating this band [6 GHz] for IMT use is crucial for facilitating the high-performance and quality development of 5G services, which, in turn, will lay the groundwork for 6G technologies.*

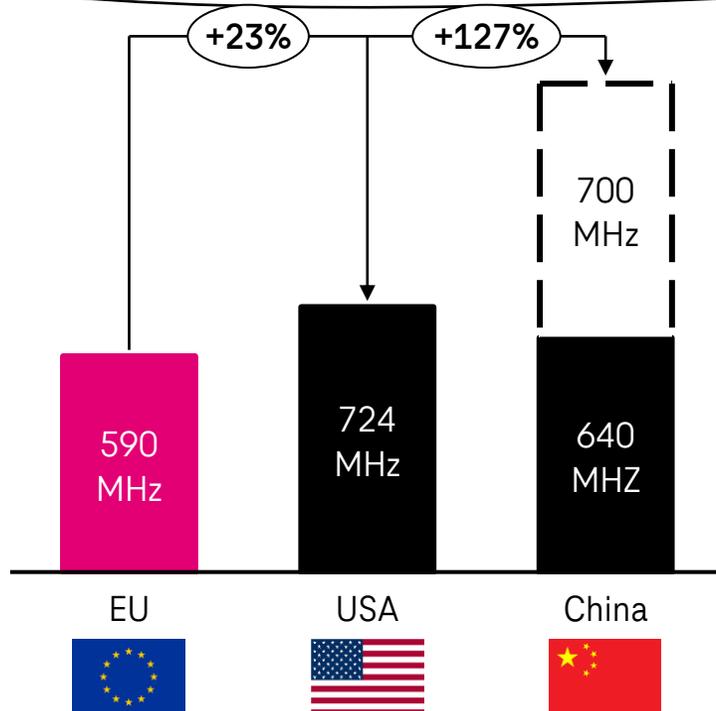
Much more than a market

E. Letta, April 2024

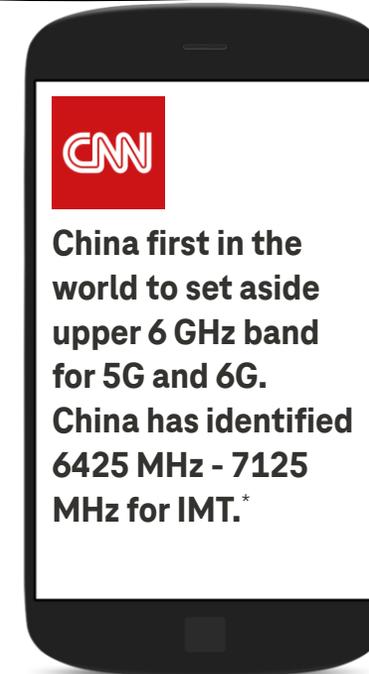
- Europe has not clearly positioned to use the upper 6 GHz for IMT.
- Europe has positioned against further IMT spectrum decisions at WRC-27.
- This risks a timely availability of appropriate resources for 5G and risks 6G introduction.

# Other regions provide significantly more spectrum for mobile broadband

Significantly less high-capacity spectrum for IMT in Europe



China has already dedicated the upper 6 GHz band for IMT



Europe's vision for 6G can not become reality without sufficient resources for mobile broadband

\*-<https://www.policytracker.com/china-first-in-the-world-to-set-aside-upper-6-ghz-band-for-5g-and-6g/>

A glowing lightbulb sits on a wooden base against a dark background. The lightbulb is illuminated from within, casting a warm glow. The background is dark with some faint, thin lines. A large, solid pink shape covers the right side of the image, creating a diagonal split. The text "Thank you!" is written in white on the pink background.

**Thank you!**