



### Future Use Cases in 2030+



#### Massive Merged Reality

-Immersive XR for Mass Market -



#### Global Broadband

- 100% coverage -



#### Massive Digital Twinning

-Data Collection & Modelling-



#### Autonomous Mobility

-Smart Transport-



#### Resilient Connectivity

- Priority Emergency Communication -



#### Spatial Data Engine

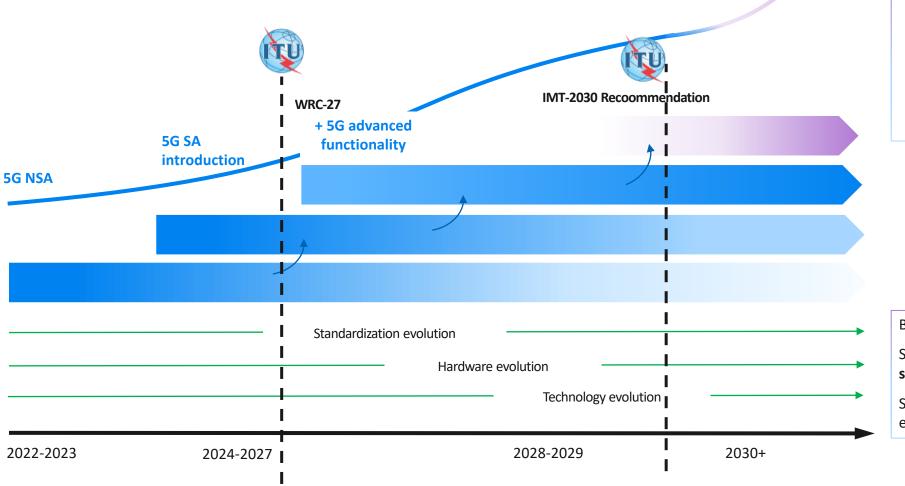
-Coordinate-based Data Exposure-







Towards 2030 and beyond



**6G Introduction** 

Step-wise technology adoption driven by network demand and monetization opportunities

Build on 5G

Smooth migration with **5G-6G** spectrum sharing

Strong foundation for continued evolution

## 6G RAT: Exploring Technology Potential



Energy
Performance

Evolved/New
Capabilities

Spectrum
Utilization

Uplink
Performance

Quantifying the benefits





## - Minimize complexity, Maximize performance

- 6G RAN shall have a **standalone** architecture only
- 6G RAN shall interface a 6G core based on an **Evolved 5G Core**
- 6G architecture shall be intent-based and programmable
- 6G architecture shall include selected **open interfaces**
- 6G shall **operate in all existing 3GPP bands** and in **new cmWave** bands
- Spectrum Sharing shall be supported between 5G and 6G
- Sharing by design shall be supported in cmWave
- 6G shall support **new and evolved use cases**, efficiently & sustainably



## Key takeaways







Standardization starts 24.Q3, commercial solutions in 2030



6G will *evolve* from 5G and *expand* into new areas



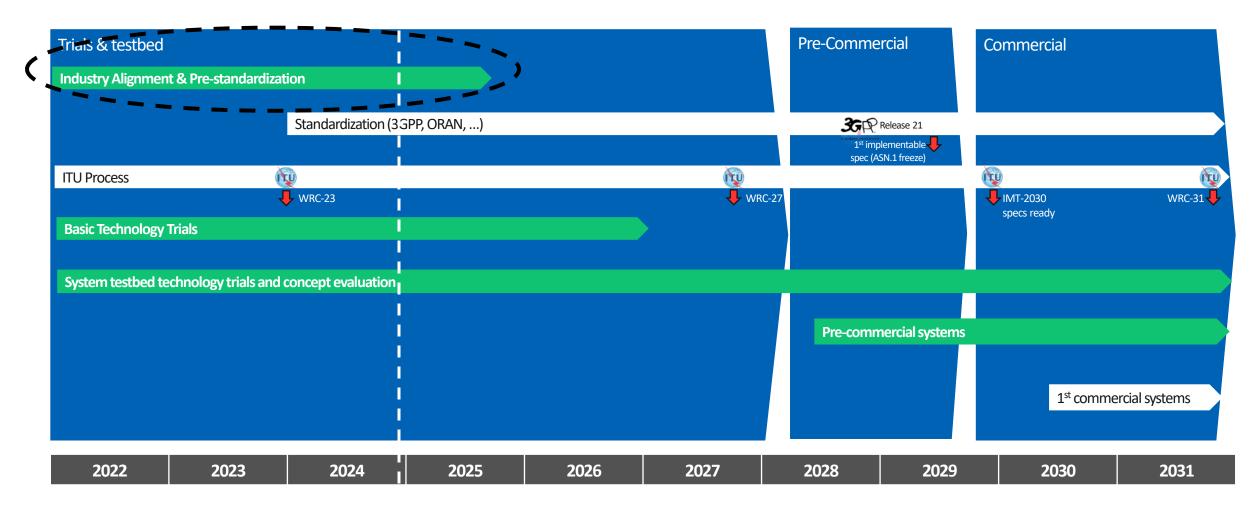
Global efforts needed to secure additional 3GPP spectrum



12 month focus: Alignment on *key principles, 1<sup>st</sup> 6G* release scope, clarifying *quantifiable benefits* of 6G

## 6G Timeline and preparing





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# Initial Activities - Spectrum



## Ericsson 6G demos @ MWC 2024 – Feb 2024







