

## SOCIETY

**SUSTAINABLE / ENERGY CONSCIOUS OPERATION**  
(Sustainable Development Goals, EU green Deal)



## POLICY



**BASED ON EU VALUES**



**SECURE INFRASTRUCTURE & DATA**



**TECHNOLOGICAL SOVEREIGNTY**  
(Strong position in Global market with international collaborations)

## BUSINESS



**BOOSTING EU ECONOMY**  
(6G to improve the economy of member States)



**NEW BUSINESS**  
(Emergence of novel business models)



**CHALLENGES/CRISIS PROTECTION**  
(Cope with pandemics & other crisis)



**CONNECTED INTELLIGENCE**  
(convergence of physical, human and digital)



**PROGRAMMABLE**  
(Flexibility & customization)



**INTEGRATED SENSING**  
(Native accurate localisation & sensing)



**TRUSTWORTHY**  
(Secure, trusted and private infrastructure)



**DETERMINISTIC**  
(Delivery of steady performance)



**SUSTAINABLE**  
(Sustainable 6G & 6G for sustainability)



**SCALABLE & AFFORDABLE**  
(Ubiquitous & inclusive)

# Stretching 5G KPIs

**INCREASED NUMBER OF CONNECTED DEVICES**

(Sensors, vehicles, home devices, robotics)

**INCREASED TOTAL CAPACITY**

(New services/business, ubiquitous coverage)

**EXTREME PERFORMANCE**

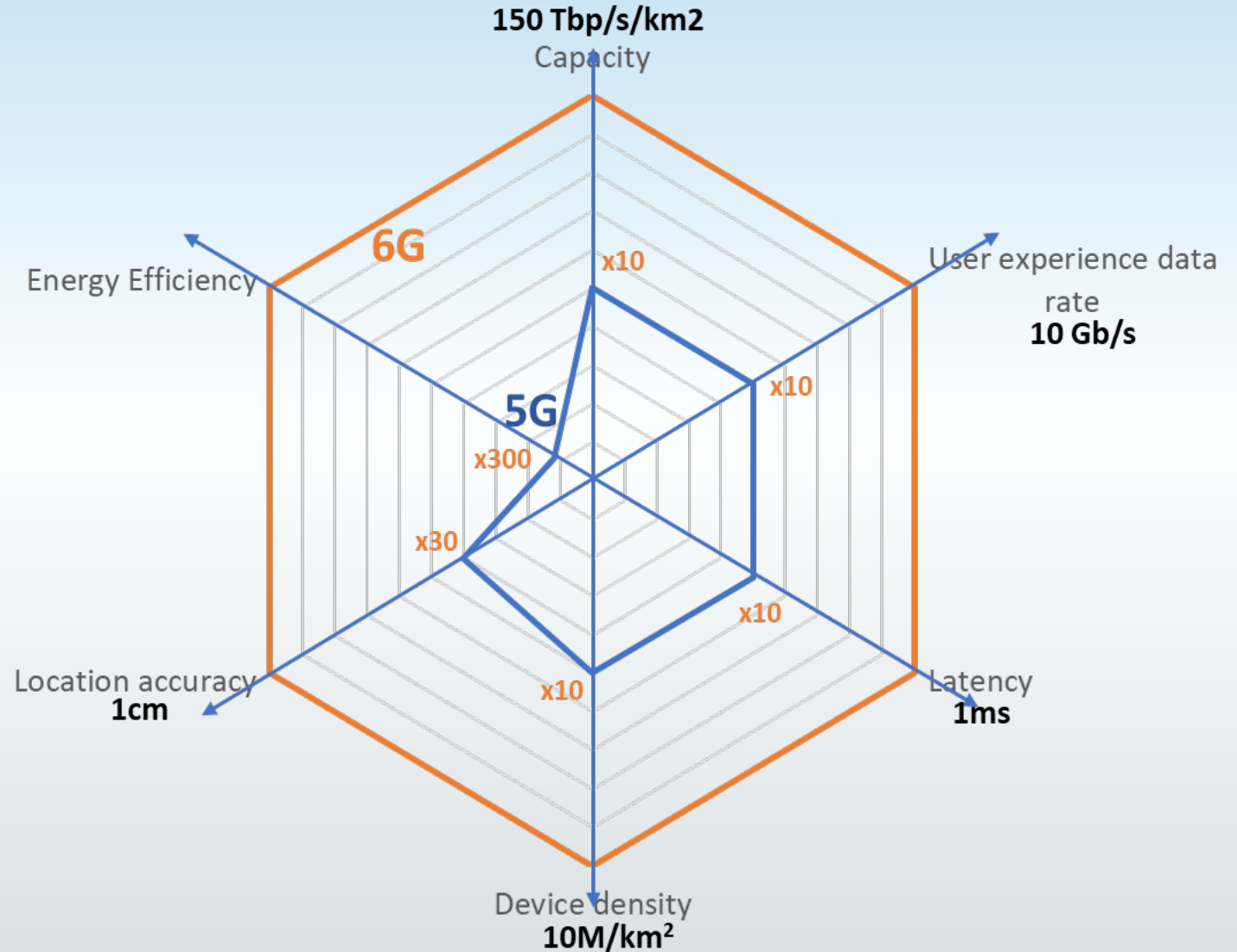
(Immersive & tactile communications)

**IMPROVED ENERGY EFFICIENCY**

(Reduced consumption for increased traffic)

**HIGH-ACCURACY LOCALIZATION**

(cm level localization & accurate sensing)





## SYSTEM ARCHITECTURE & CONTROL

(Communication/computation co-design, AI governance, etc.)



## NETWORK & SERVICE SECURITY

(Larger attack surface, micro-segmentation, Security as a Service, etc.)



## EDGE & UBIQUITOUS COMPUTING

(Responsiveness, reduced data flows, distributed microservices)



## NON-TERRESTRIAL NETWORKS

(Single access network, edge flying nodes (computing & storage), resource sharing)



## RADIO & SIGNAL PROCESSING

(THz & visible spectrum, reformatting, modulation, beamforming, IRS, etc.)



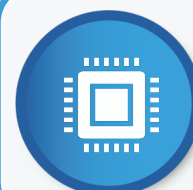
## SPECIAL PURPOSE (SUB)-NETWORKS

(Vertical sub-networks such as in-body, in-robot, in-car networks, etc.)



## OPTICAL NETWORKS

(Intrinsically secure, green and flexible transport networks)



## DEVICES & COMPONENTS

(Efficient Tx/Rx modules, optical & hybrid transceivers, Neural processing units, etc.)



- Mobilise the European stakeholders
- Enable cross-sector collaboration
- Make Europe the center of gravity for international collaboration and global consensus

