



6G Standard



The Next Generation Mobile Networks

The 3rd Generation Partnership Project

China Communications Standards Association







6G Whitepaper



6G Specification



China 6G Specification

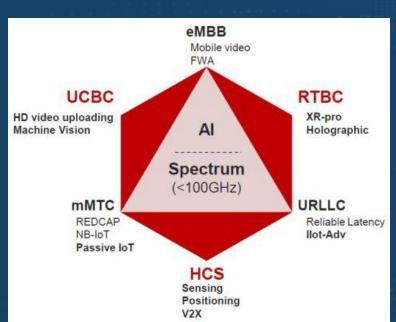
6G Planning

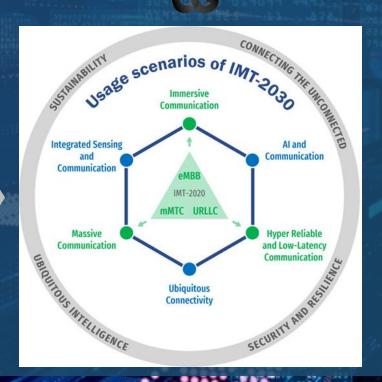








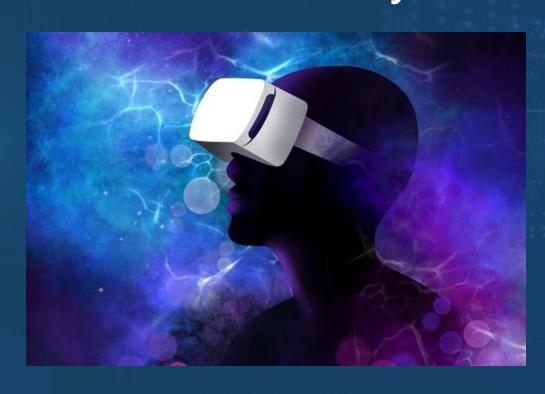






中國移動 China Mobile

1. Extended Reality



Meta, VR, XR, MR

2. Holographic Communication



The ultimate immersive experience





3. Multi-sensory connections



Touch, sight, taste, smell and hearing

4. Human-machine connection



Interaction



中國移動 China Mobile

5.ISAC



Integrate Sensing and Communication

6. Al Native



Intelligent Everywhere





7.DTN



Digital Twin Network

8. NTN



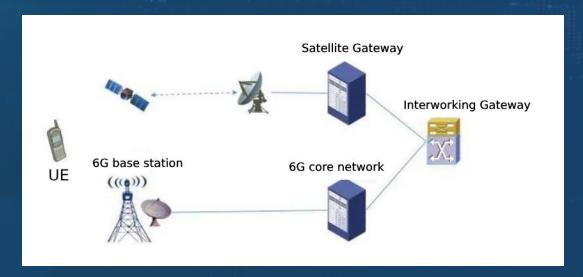
Non-Terrestrial Network Satellite Communications





1. Intelligent Architecture

- ① New Air Interface + Al
- ② Network Architecture + Al

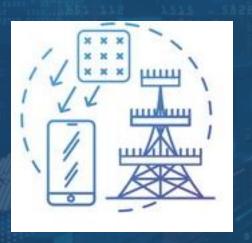


> Al Enforce Network



2. Enhance Radio New Tech

- D New Radio Tech and PHY/MAC
- ② Massive MIMO

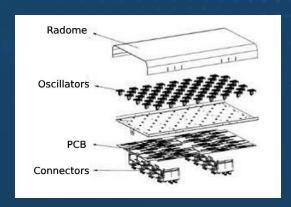


> New Tech in RAN



3. New Materials

- ① Reconfigurable Intelligence Surface (RIS)
- ② Orbital Angular Momentum (OAM)

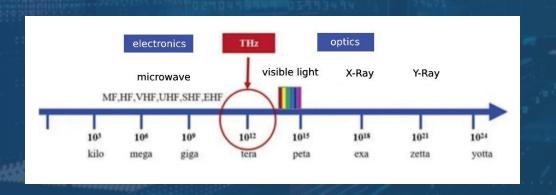


> Algorithm with New Materials



4. THz and LiFi New Tech

- ① THz TeraHertz (0.1-10THz)
- ② LiFi Light Fidelity (400-800THz)



> New Spectrum



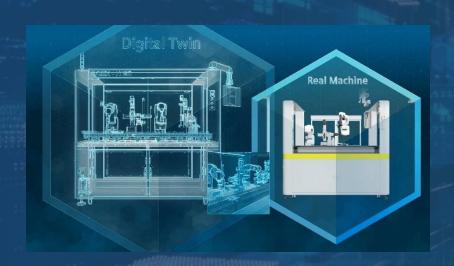


5.ISAC



> Scenarios Convergent

6. Distributed Autonomous Network



> New Architecture



7. TSN

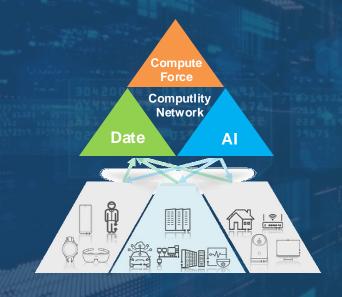
Time Sensitive Network



> Vertical Industries



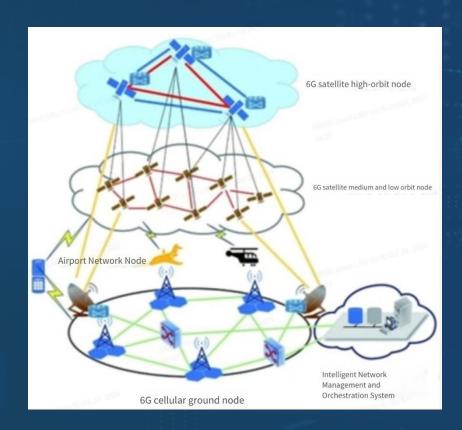
8. Computility Network



Compute Force and Network Converge







> Multi-domain integration



10. Muilt Mode Native Security



Enhance Security





WHAT IS 6G?

- ✓ 5G Evolution
 - ✓ All Things Connect and Intelligent
 - ✓ More Spectrum Utility
 - ✓ Multi-Domain and Scenarios Converge

