Global Unified Standard & Closer Cooperation

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Agenda



1 Industry Trend

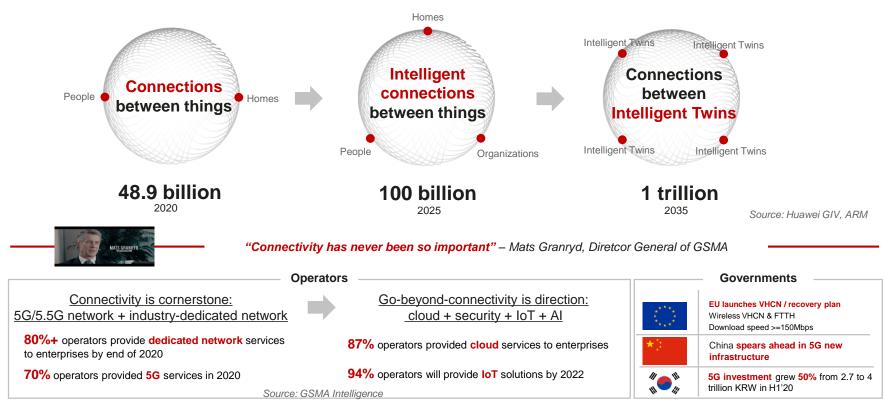


2 Global Unified Standard





Ubiquitous Connectivity





An intelligent & sustainable world is on the horizon: 12 megatrends for 2030

Trend 1

Living with Bots

The adoption rate of intelligent domestic robots will reach 14%.

Trend 2 Super Sight

The percentage of companies using AR/VR will increase to 10%.

Trend 3

Zero Search

The adoption rate of intelligent personal digital assistants will reach 90%.

Trend 4

Tailored Streets

C-V2X (Cellular Vehicle-to-Everything) technology will be installed in 15% of the world's vehicles.



Trend 11

Renewable Energy

Will take 50% of the energy used in the world in 2030.

Trend 12 Electrification

Electric Vehicle will take 50% of the vehicle market share in 2030.

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Trend 5 **Augmented Creativity** Working with Bots

Industrial robots will work side by side with people in manufacturing, with 103 robots for every 10,000 employees.

97% of large enterprises will be using Al in their services and operations.

Trend 6

Trend 7

Frictionless Communication Enterprises will be making efficient use of 86% of the data that they produce.

Trend 8

Symbiotic Economy

85% of business applications will be cloud-based.

Trend 9

5G's Rapid Rollout Global Digital Governance

5G networks will cover 58% of the world's population.

The amount of global data produced annually will reach 180 ZB.

Trend 10



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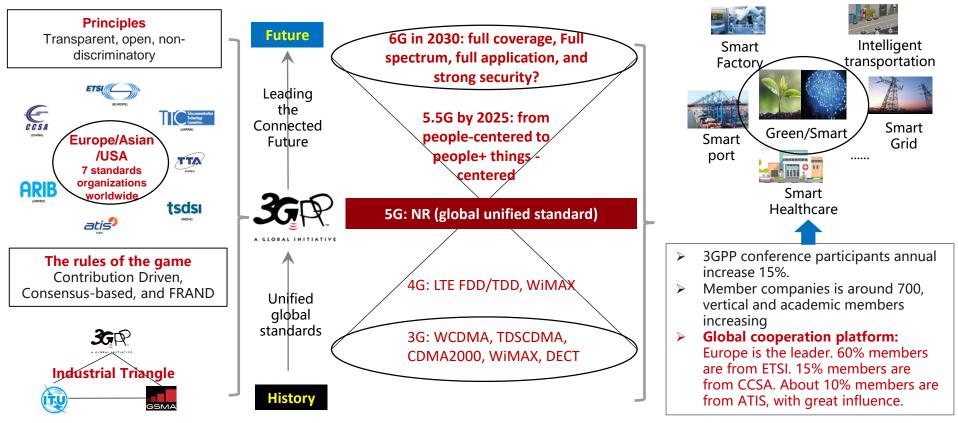


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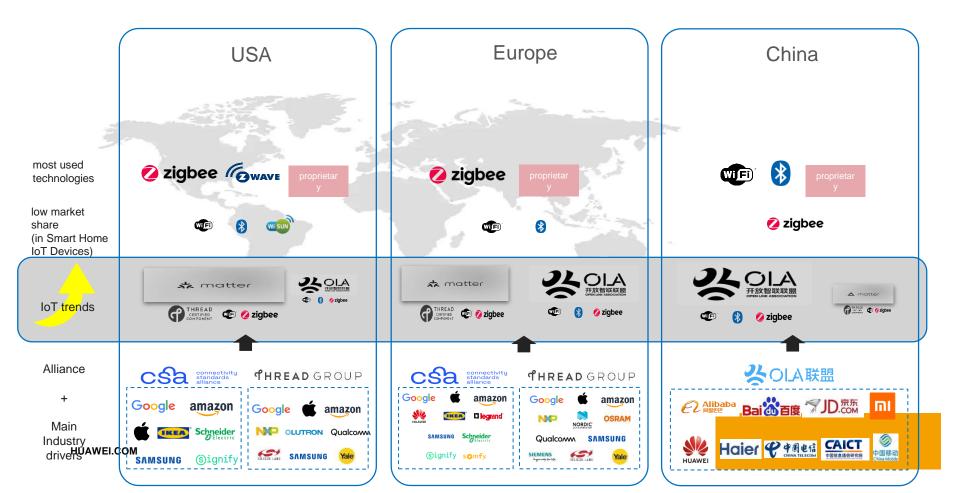


3GPP unified global standard is the cornerstone of the mobile communication industry - Leading IOT & Green (example)





Global Unified Ecosystem - Smart Home IoT



Agenda



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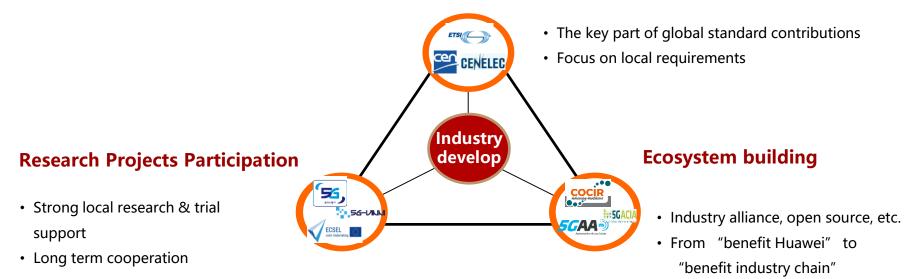
2 Global Unified Standard





Three Elements of European Industry Cooperation Standards + Research + Industry

Standards Involvements





6G Technical trend

I ITU report of 6G Technical Trend will be ready in June 2022

• Main contents: emerging services and applications, technology trends and enablers, enhance radio interface, enhance radio network, and enablers for terminal technologies

Technology trends and enablers

- Al in communications
- Integrated sensing and communication
- Convergence of communication and computing architecture
- Ubiquitous computing and data services
- Efficient spectrum utilization
- Enhance energy efficiency and low power consumption
- Enhanced services and applications
- Enhance trustworthiness

Enhance radio interface

- Modulation, coding and multiple access
- Antenna technologies & extreme MIMO
- In-band full-duplex
- Multiple physical dimension transmission (e.g. RIS, OAM)
- THz communications
- Visible light communications
- Ultra-high accuracy positioning
- Interference cancellation techniques
- NTN

Enhance radio network

- Slicing for Massive-Broadband URLLC RAN
- Enhanced resiliency and QoS guarantees
- Stand-alone support of voice services
- Radio architecture to support new operation and business models
- Support Digital Twin Network
- Interconnection with non-terrestrial networks
- Support for ultra-dense radio deployments
- Enhance RAN infrastructure sharing









Thank you.

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Bring digital to every person, home, and organization for a fully connected, intelligent world.

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