Towards 5G enabled Gigabit Society

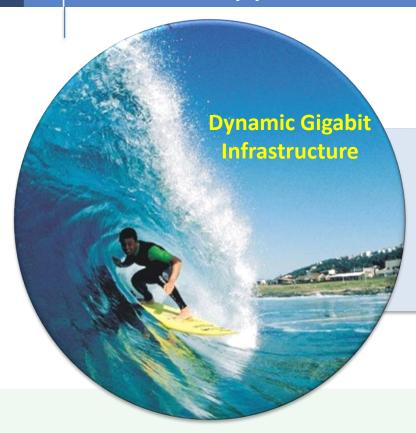
Chaesub LEE Director, ITU/TSB



Contents

- 1. Near Future
- 2. IMT-2020/5G
- 3. Set the Context

Near Future (1): Vision of Gigabit Society

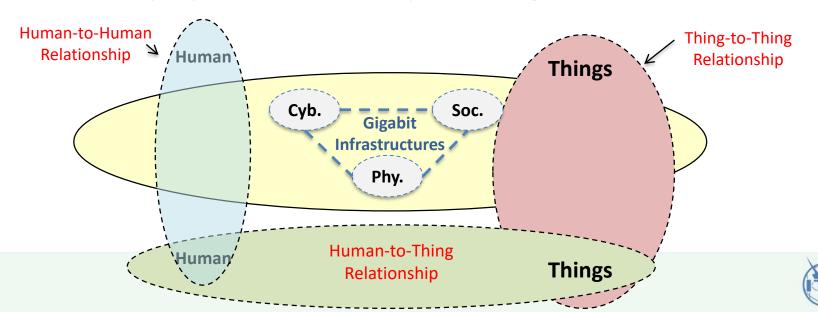


Being **Smart**Building **Trust**

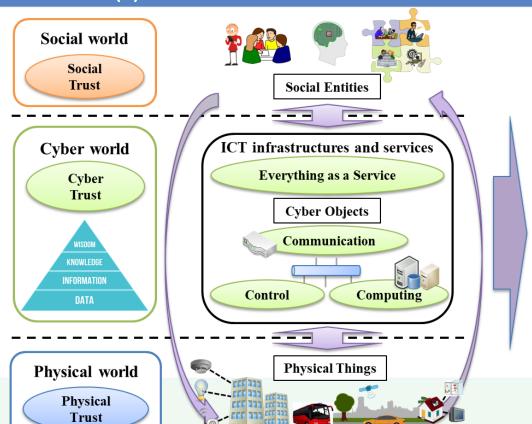


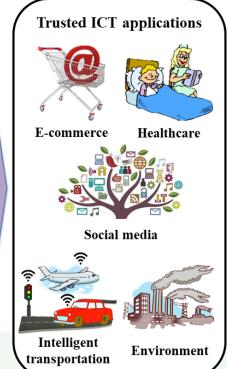
Near Future (2): Diverse Living Environments

- Diverse of communications: Human and Things (inc. Objects)
- Less human intervention: Autonomous
- New living spaces over Gigabit Infras: Cyber and Social spaces
- E-Society (Cyber & Social society) becoming basic form of life



Near Future (3): Trusted SCPs







Near Future (4): ICTs for being Smart

Collaborative Knowledge (Op)

Compatibility (Ser/App)

Quality of Smartness

Being Smart

Integrity (Platform)

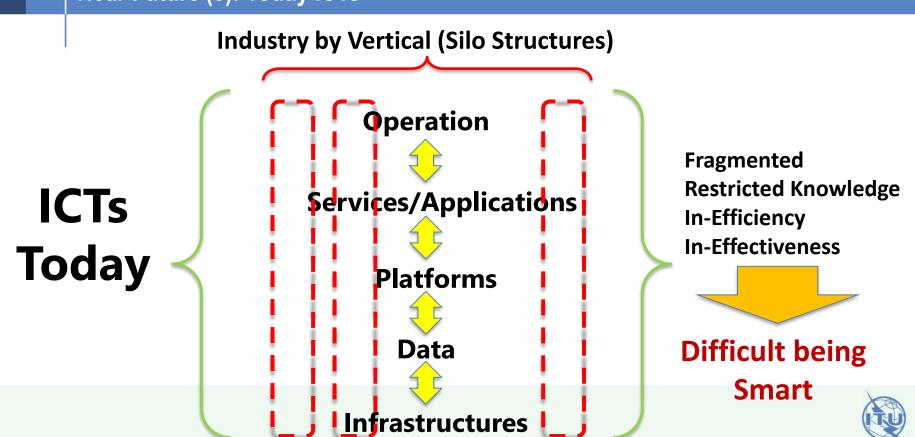
Interoperability (Data)

Interconnectivity (Infra)

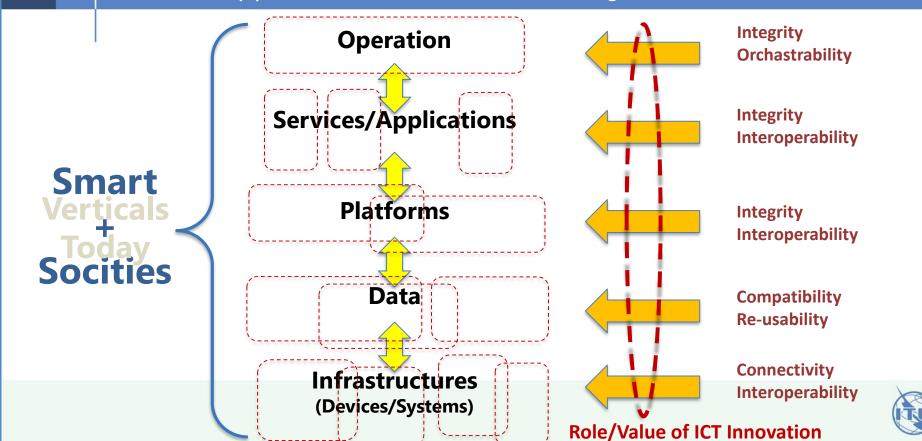
Quality of Convenience



Near Future (5): Today ICTs

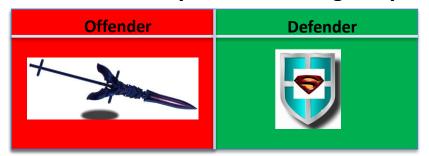


Near Future (6): Role of ICT innovations for being Smart

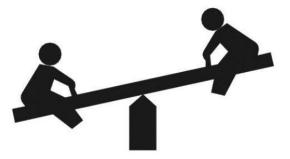


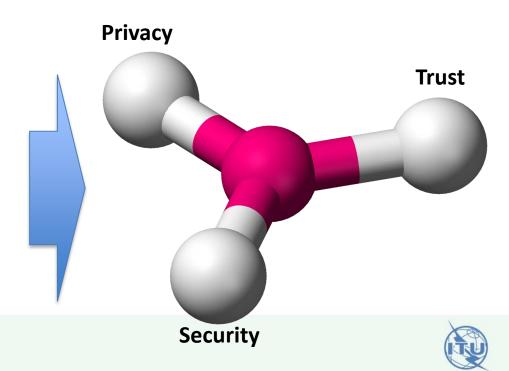
Near Future (7): Trust with Security and Privacy

Ensure security is never ending story



Security and Privacy is a seesaw game





IMT-2020/5G: Value and Usage of 5G (1)

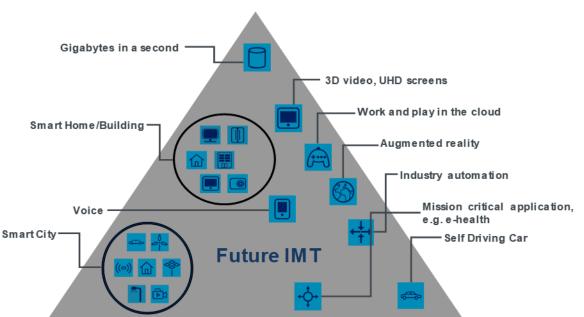
- Connected Cars, Intelligent Traffic Systems, Automatic Driving/Drone
- Smart Sustainable City / Village / Community / Islands with IoT
- e/m-health, e/m-education and efarming with Virtual Reality and Augmented Reality
- Waste/water management, early warning and disaster relief
- Integrated platform for Mobile and Fixed Telephony, Broadband and Internet





IMT-2020/5G: Value and Usage of 5G (2)

Enhanced Mobile Broadband



Values of 5G for:

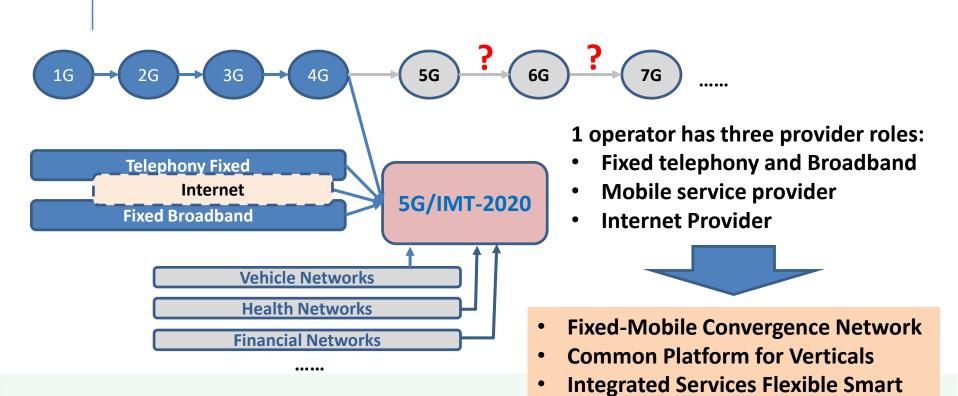
- Administrations & Users
- Operators
- System manufacturers
- Service/Application developers & providers

Massive Machine Type Communications

Ultra-reliable and Low Latency
Communications

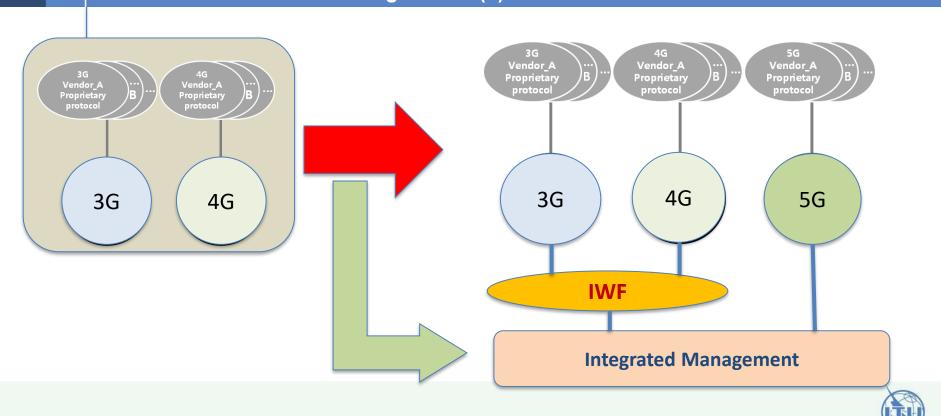


IMT-2020/5G: Value and Usage of 5G (3)



Managed Network

IMT-2020/5G: Value and Usage of 5G (4)



Set the Context (1): Expected role of 5G



- Smart Grid & Mobility
- Mobile Money/DFS
- Smart Sustainable City
- 4th Industrial Revolution

Collect new requirements

Bring new capabilities

Innovation of ICTs

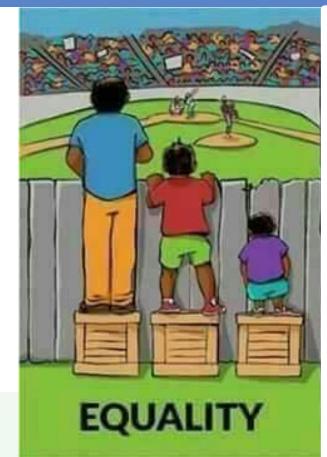
- Cloudrization
- Softwarization
- IoT/Data PM
- AI & ML

5G

Emerging Networks



Set the Context (2): Equality vs Equity over 5G





Set the Context (3): Key issues for the days

Session 1: National <u>Policies and Strategies</u> for 5G

Session 2: Evolving <u>Regulatory Frameworks</u> Fostering 5G Implementation

Session 3: <u>Future</u> Networks and 5G

Session 4: Implementation of 5G <u>Pilot Projects</u>

Session 5: Spectrum Issues Related to 5G
Session 6: Challenges and Opportunities in the Telecom Sector Implementing 5G
Session 7: 5G for Smart Cities
Session 8: 5G for Connected and Automated Vehicles
Session 9: Fostering 5G Innovation Ecosystem



