

Ecosystems Promotion in Korea

Prof. Yongwan Park

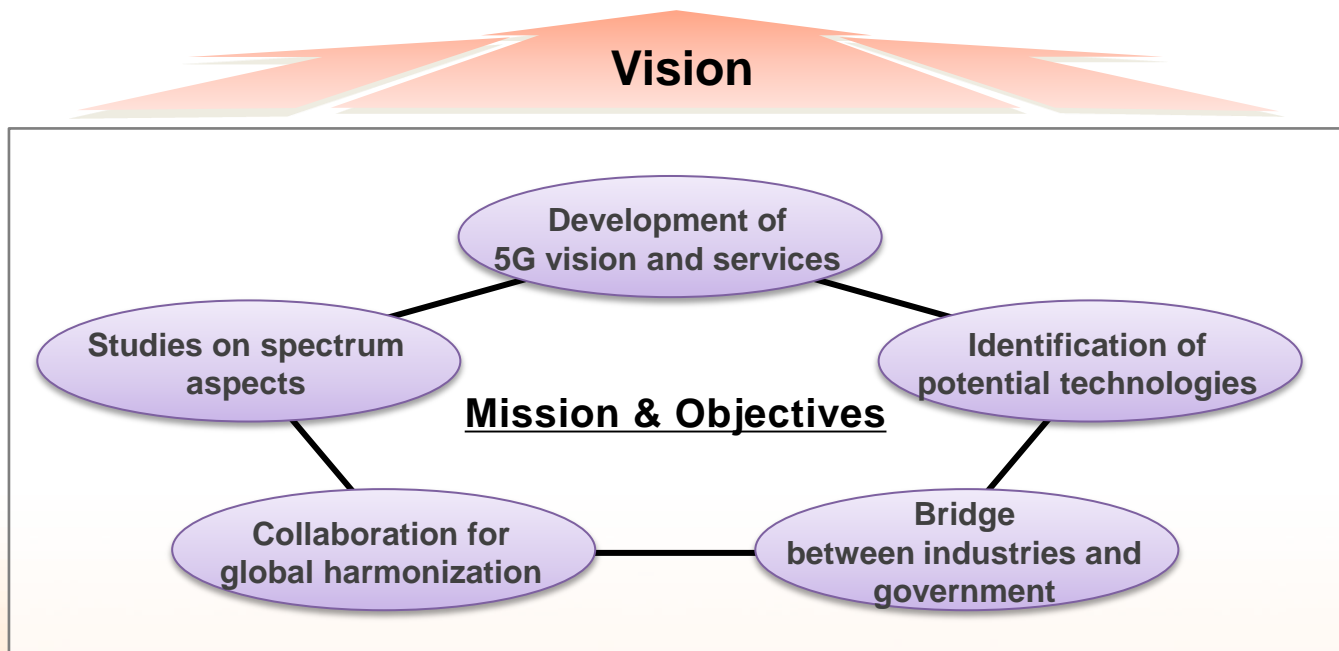
Yeungnam University

**Chairman of Ecosystems Promotion Committee
in 5G Forum**

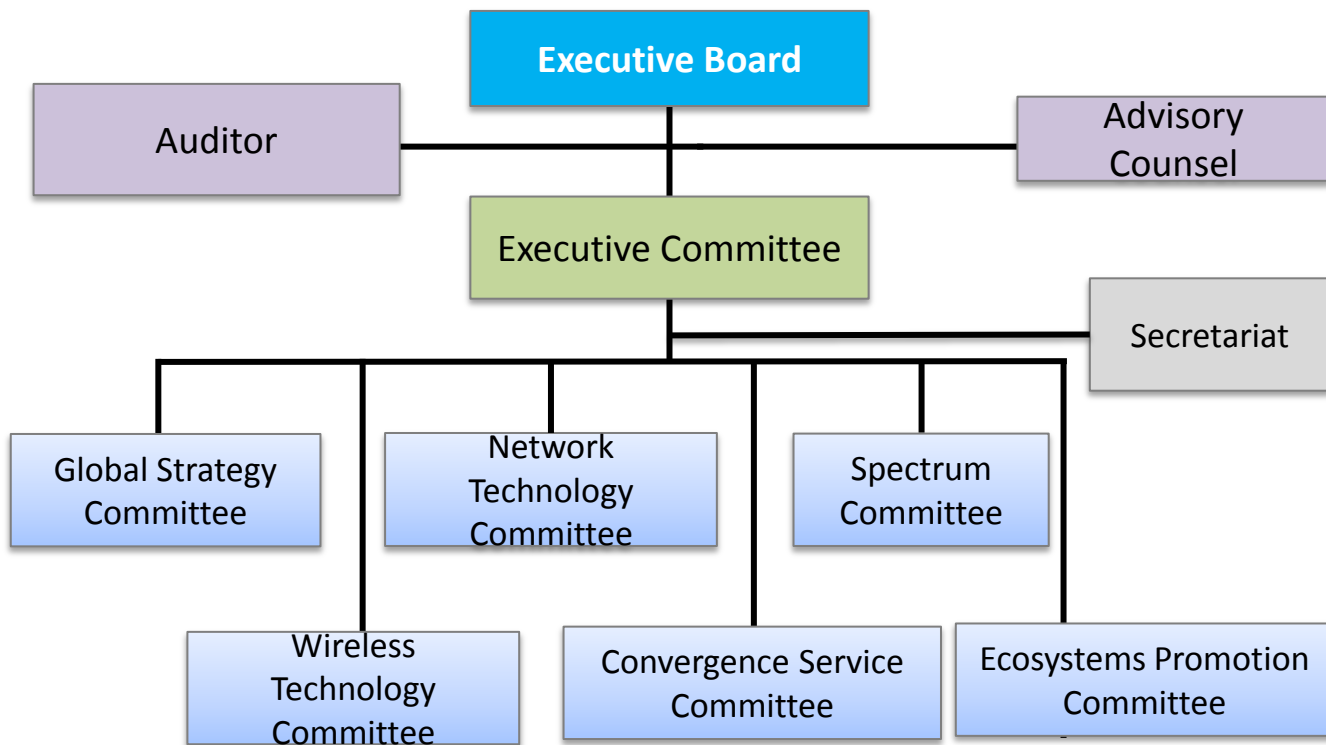
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Global Leadership and Promotion in 5G Mobile Communications towards the 2020s



5G Forum: Organization





1 **Explosion of
Mobile Data Traffic**

Advent of new bandwidth-consuming devices and services

2 **Rapid Increase
in Connected Devices**

Connecting People, things, data and even processes

3 **Everything on the Cloud**

Accelerating transformation of legacy biz to cloud-based convergence services

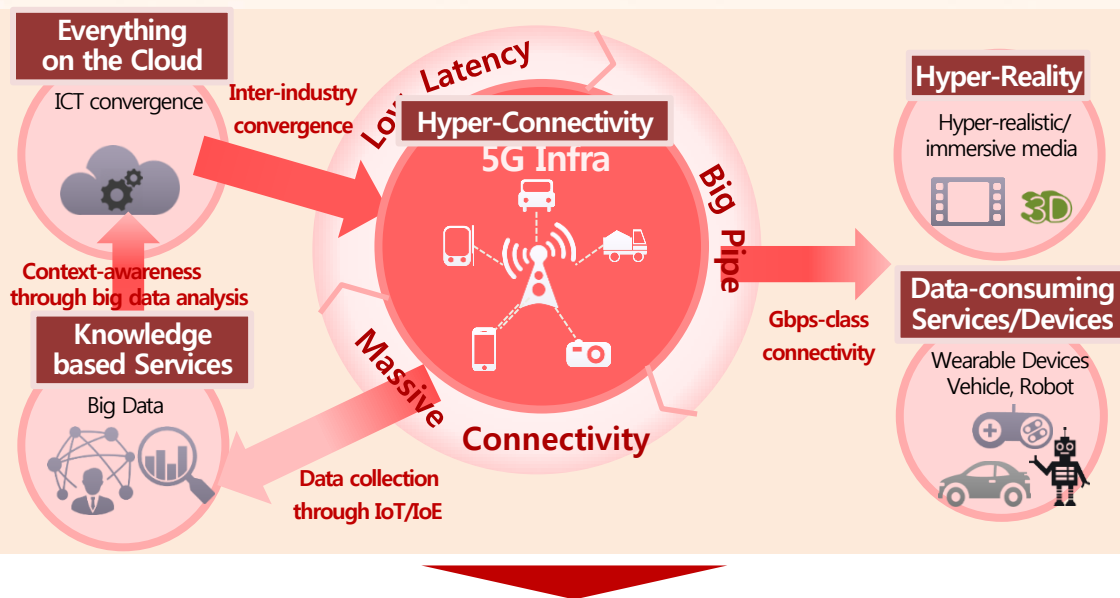
4 **Proliferation of Hyper-realistic
Media Services**

Hyper-realistic media such as UHD+ and 3D, Hologram

5 **Knowledge as a Services
through Big Data Analysis**

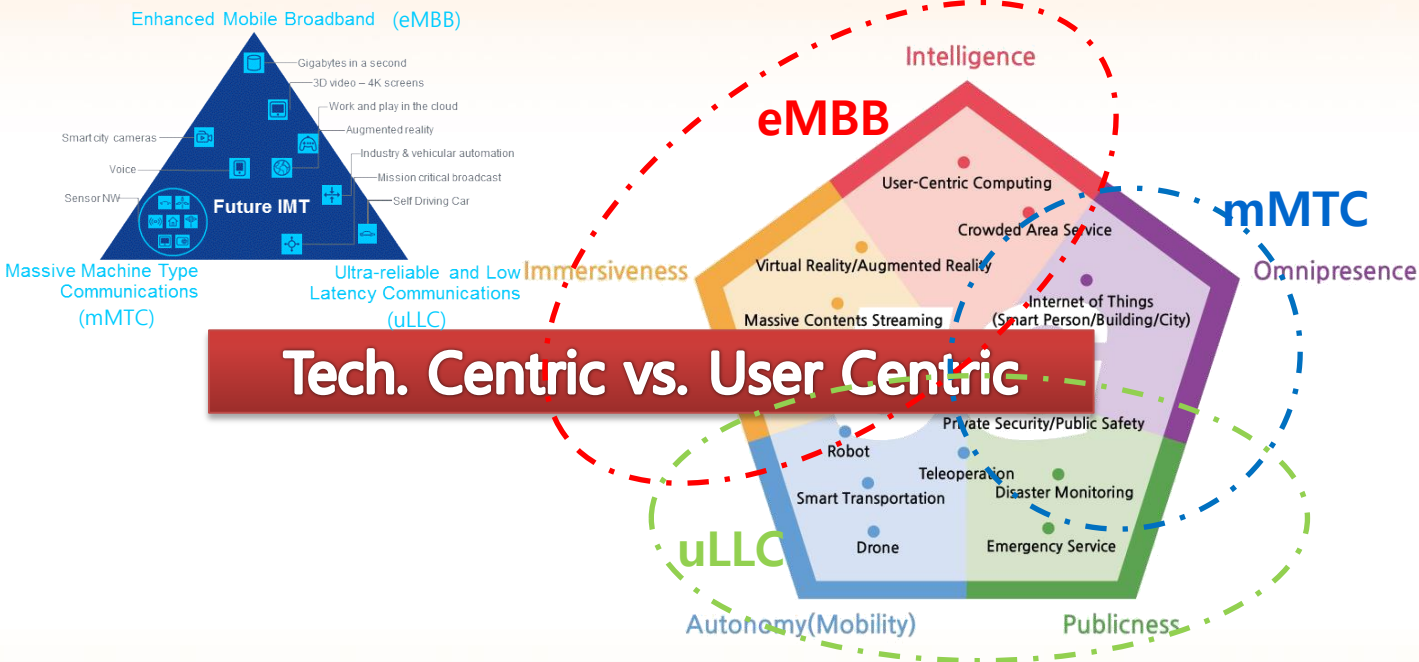
New value creation through context-aware capabilities

ICT Megatrend



Immersive, Intelligent, Omni-present, Autonomous, and Public Services

(ITU vs 5G Forum)



NW Requirements for 5G Services

	Immersive 5G		Intelligent 5G		Omni-present 5G	Autonomous 5G			Public 5G		
	AR/VR	MCS	UCC	CA	IoT	ST	Drone	Robot	DM	PS/PS	ES
Ultra High Data Rate	●	●		●			◎	◎			
Massive Connection				○	●				◎		
High Reliability					○	●	●	●	●	●	●
Ultra Low Latency	●	◎	●		◎	●	●	●		●	●
High Mobility						●	◎		◎		
High Energy Efficiency					●		◎		●	●	○
Cost Effectiveness			●	●	●				○		

●: 1st tier requirement, ◎: 2nd tier requirement, ○: 3rd tier requirement

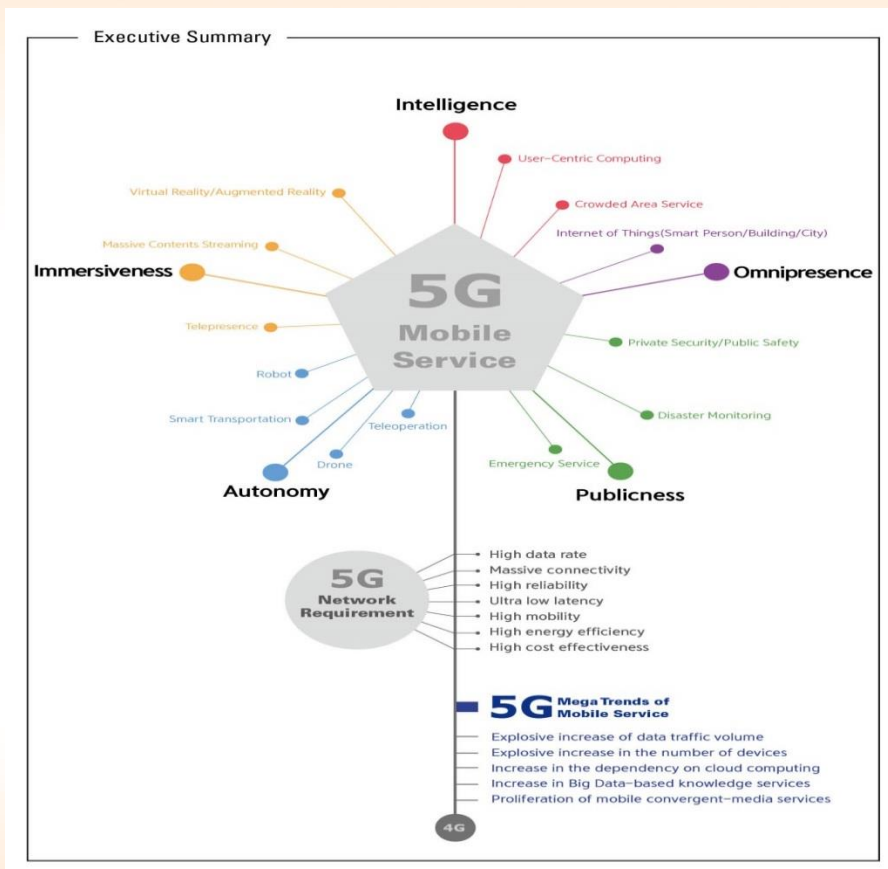
MCS: Massive Contents Streaming, UCC: User-Centric Computing,

CA: Crowded Area, ST: Smart Transportation

DM: Disaster Monitoring, PS/PS: Private Security/ Public Safety,

ES: Emergency Service

5G System: 5G Mobile Service



About Committee

Vision

Promote to the development of the 5G ICT industry ecosystems and 5G verticals market

Role

Support to the industries needs of 5G mobile communication market and verticals market

* Activities of technical advice, policy cooperation



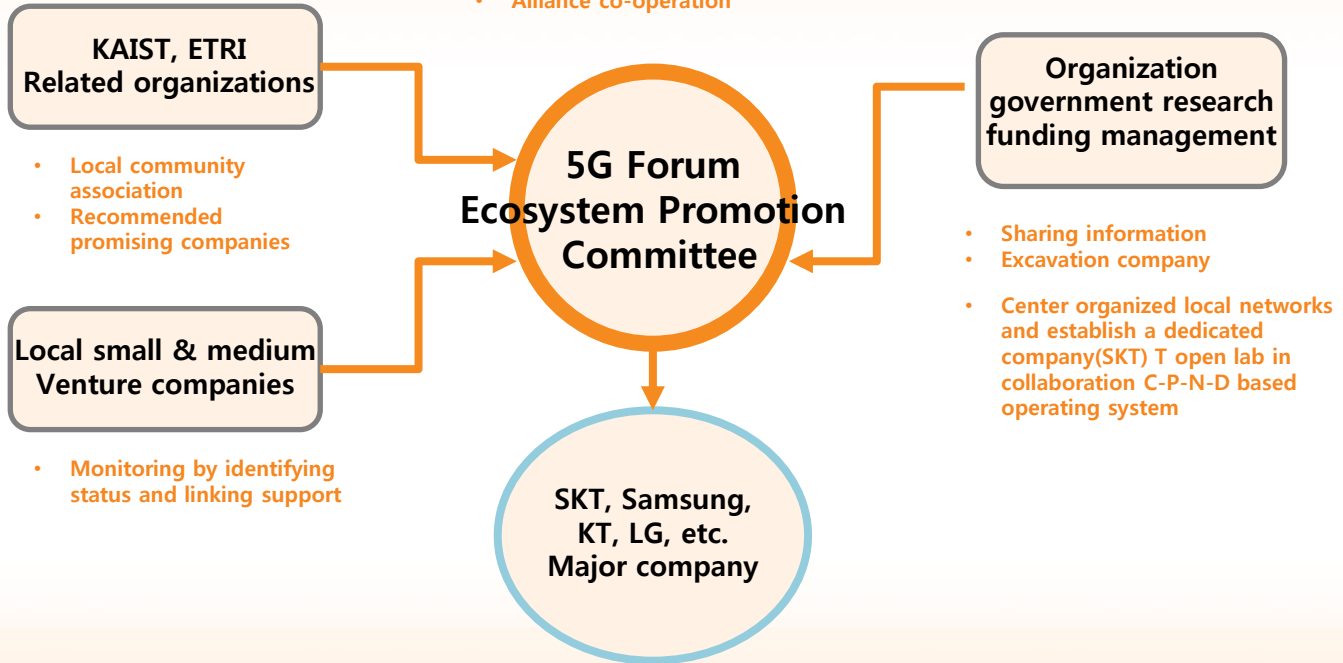
Phase1 : Present of ecosystem development direction of 5G C-P-N-D on the ICT categories



Phase2 : Present of 5G ecosystem development direction which will be converged in other industries

Cooperation structure

- Support policy & consultation with local business
- Provides domestic & world wide technology trends and information
- Alliance co-operation



Activity Directions(1)

Strategy1 Build & Support 5G C-P-N-D domestic ecosystem

Promoting and compatibility operability for ecosystems between C-P-N-D based on 5G standard

Sharing 5G standard status

- 5G standard progress & share information in a timely
- Enhance responsiveness to 5G C-P-N-D involved companies

* Standardization bodies: 3GPP, ETSI / other organizations : NGMN, OPNFV, etc)

Providing 5G environment verification

- 5G standards-based interoperability verification environment support

* Core network & open community base service on compatibility & interoperability

Establishing 5G ecosystem strategy

- Provided 5G mobile ecosystem strategy plan

* Identification and status information reflects to the 5G mobile communication relation to ecosystem

* 5G ecosystem development & policies for early deployment, regulatory review and suggestions

Activity Directions(2)

strategy2 Build & Support 5G vertical markets

Provide paly-ground for synergies through combination 5G mobile C-P-N-D & new technology of vertical market

Promote Vertical participation

- Participation and information sharing vertical industries in Forum
 - * Object : vehicle, factory, energy, health, entertainment
 - * Periodically seminars, workshops for information sharing

Vertical cooperation support

- Vertical industries, technical cooperation, ideas, proven foundation
 - * 5G CPND & Vertical industries support to build commercial service level test bed
 - * Spread of utilizing test bed results
 - * Reflects the result of the test bed utilized to the international standards and policy

International cooperation

- Build 5G Vertical ecosystem & cooperation with world wide
 - * Status of 5G global test bed identification & sharing, international cooperation and joint projects

5G Vertical Ecosystem strategy

- Provided 5G mobile ecosystem strategy plan
 - * Reflect to the 5G vertical ecosystems identification & information
 - * 5G ecosystem development & policies for early deployment, regulatory review and suggestions

ICT Convergence in Korea

Smart Traffic

Build Intelligent
Traffic Signal System
on the main road

Energy

Intelligent Power
Management of New
Building/Apartment

Tourism

Smart tour based on
IoT

Smart City

Build 10 Innovative
and Smart cities

Education

N-Screen learning
through Gigabit
Wired/Wireless
environment

U-Health

Customized Medical
demonstration
through Health Park

Thank you

