

Introduction to 5G Forum and 5G related Activities in Korea

WWRF #31 meeting

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Global Alliance Sub Committee Chair
5G Forum

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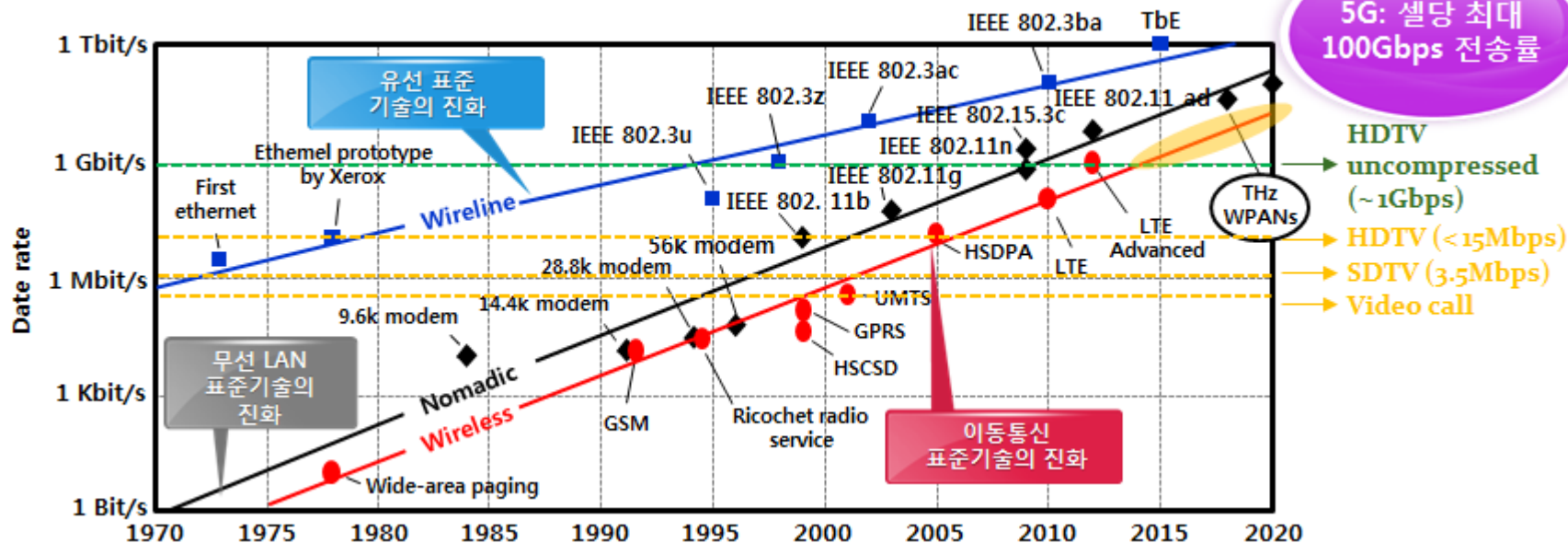
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Expectation for 5G

Technology Trend

- 4G Evolution & 5G Innovation onward



Network Requirement

- Max. 100Gbps/cell for 1Gbps/Person
- Few 1~ 10 ms latency in network

Vision and Mission

[Vision]

Globally lead and promote 5G toward 2020

[Mission & Objectives]

- Develop Vision and Services
- Study Spectrum Aspects
- identify Potential Technologies
- Collaborate for Global Harmonization
- Bridge between Industries and Government

Role players and Benefits

Operators

- To extend business areas through converged service (e.g. Communication & Broadcasting convergence, C-P-N-D vertical integration)
- To secure more spectrum for diverse services

Vendors

- To find open innovation partners for efficient R&D
- To avoid the risk of diverse technology, deployment time and standard

Academia

- To induce investment for technology and human resource by bridging between short/mid term Development and long term Research

Government and Public Sectors

- To get advices on R&D roadmap and policy to raise industry competitiveness

Deliverables

5G Strategies

- Standard Aspect
- Spectrum Aspect
- R&D Aspect
- Eco system deployment aspect
 - Converged Business Model etc.

White Papers

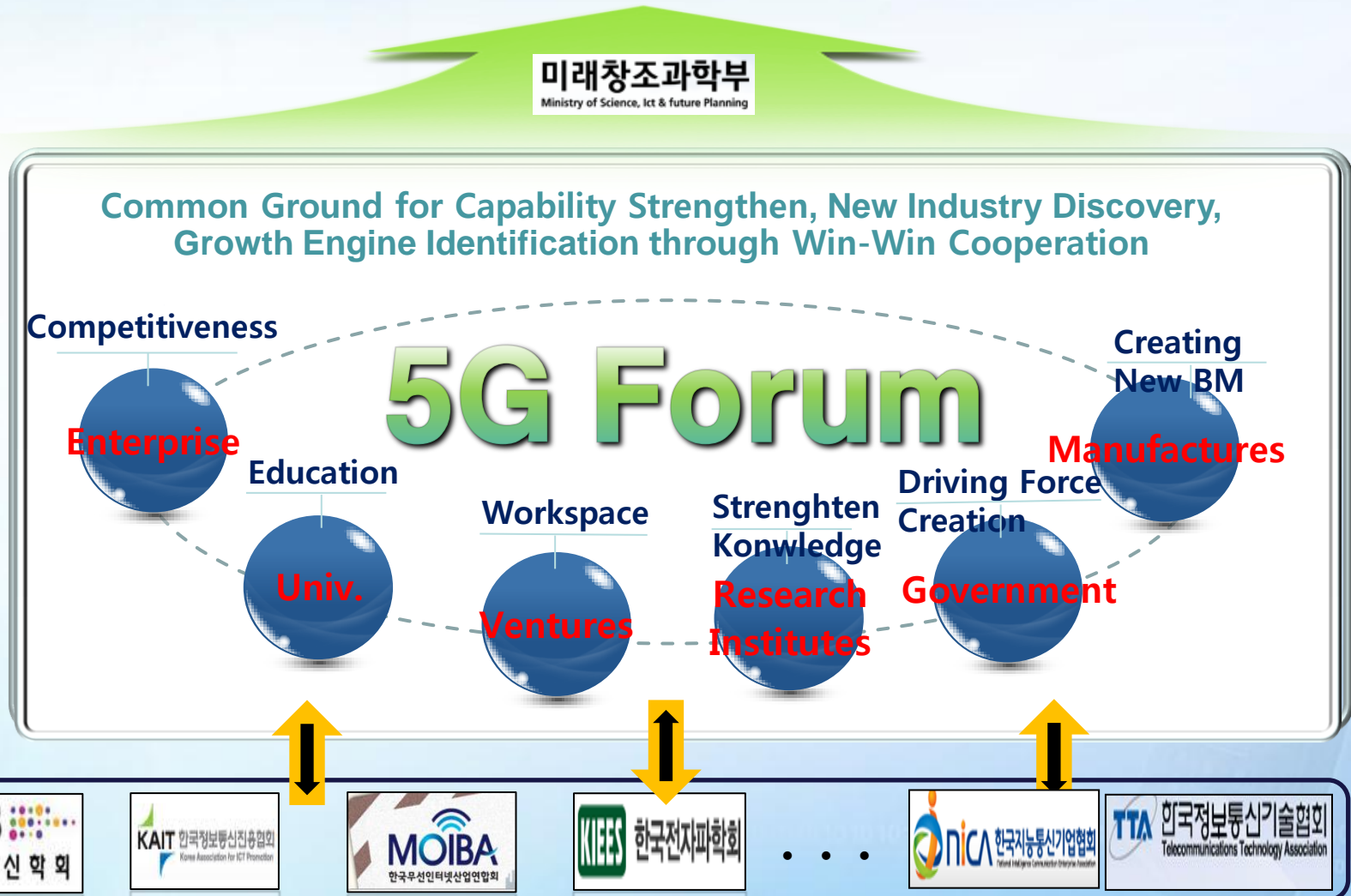
- Vision, roadmap, service and technology requirements
- Potential component technologies
- Identification of candidate technology groups

Global collaboration

- MoU for general level
- Agreements for specific topic
- Multi lateral Workshop, meetings etc.

5G Forum supports Korea in

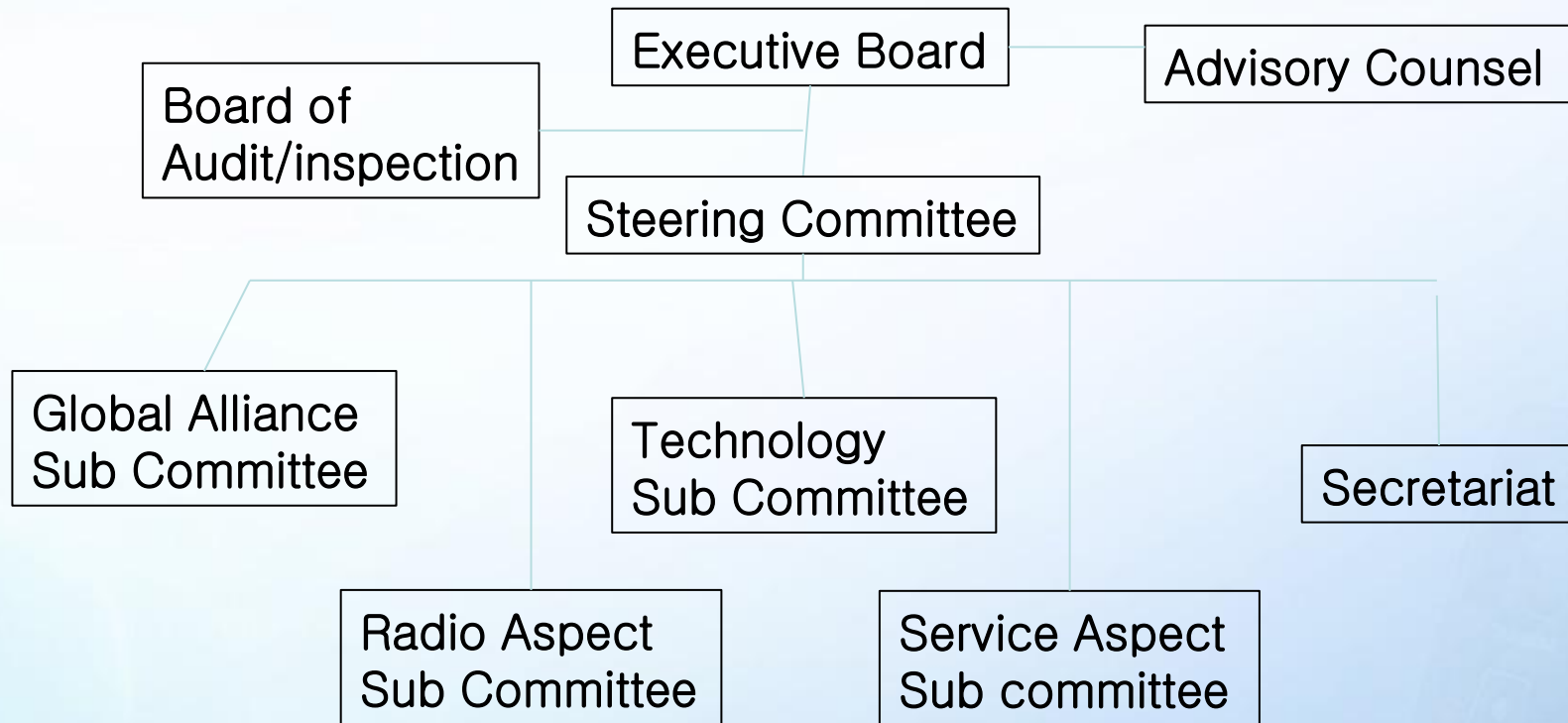
Happy Society through 5G Initiated Creative Economics



5G Forum History

- Preparation for 5G Forum from 2012 ~ 2013. May
 - Develop 5G vision and design 5G Forum structure
 - Succeed NGMC Forum (2003 ~ 2013) of 4G
- Kick off 5G Forum and Opening workshop
 - 2013. May 30, Seoul, Korea
- Annual budget : ~250 k\$.
 - 50k\$ from government via TTA and 200k\$ from industries
 - For Industry members, 3 categories for membership fee
 - Large company
 - Medium company
 - Small company

5G Forum Organization



5G Forum Leadership

Organization	Chair	Affiliation
Executive. Board	President PARK, InSeek	SKT
Audit board	Prof. HONG, DaeHyung	SoGang Univ.
Advisory council	Prof. IM, JooHwan	Korea Univ.
Steering Committee	Prof. Youngam HAN	KAIST
Service Sub committee	Prof. PARK, YongWan	YeungNam Univ.
Spectrum Sub committee	Prof. HONG, InKee	KyungHee Univ.
Technology Sub Committee	Dr. BANG, SeungChan	ETRI
Global Alliance Sub committee	Prof. LEE, HyeonWoo	DanKook Univ.

** Note: Vice chairs are usually from industries*

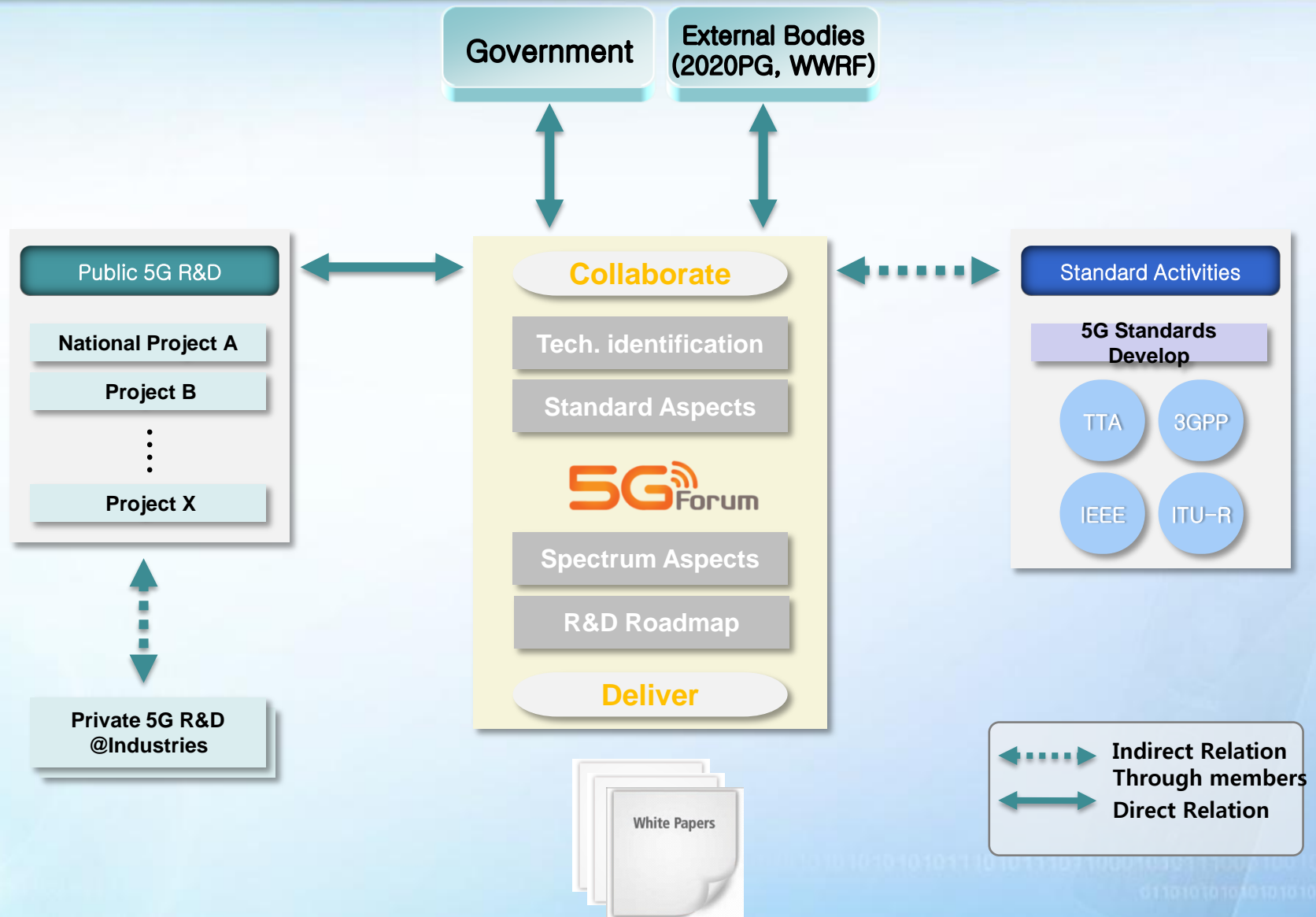
Members Category

- General members
 - Domestic/International Profit Organization,
 - Non-profit private foundation
 - Non-profit public entity
- Special members
 - Professors
 - Certified Experts in related field
 - Government officers

Board Members & Leaders

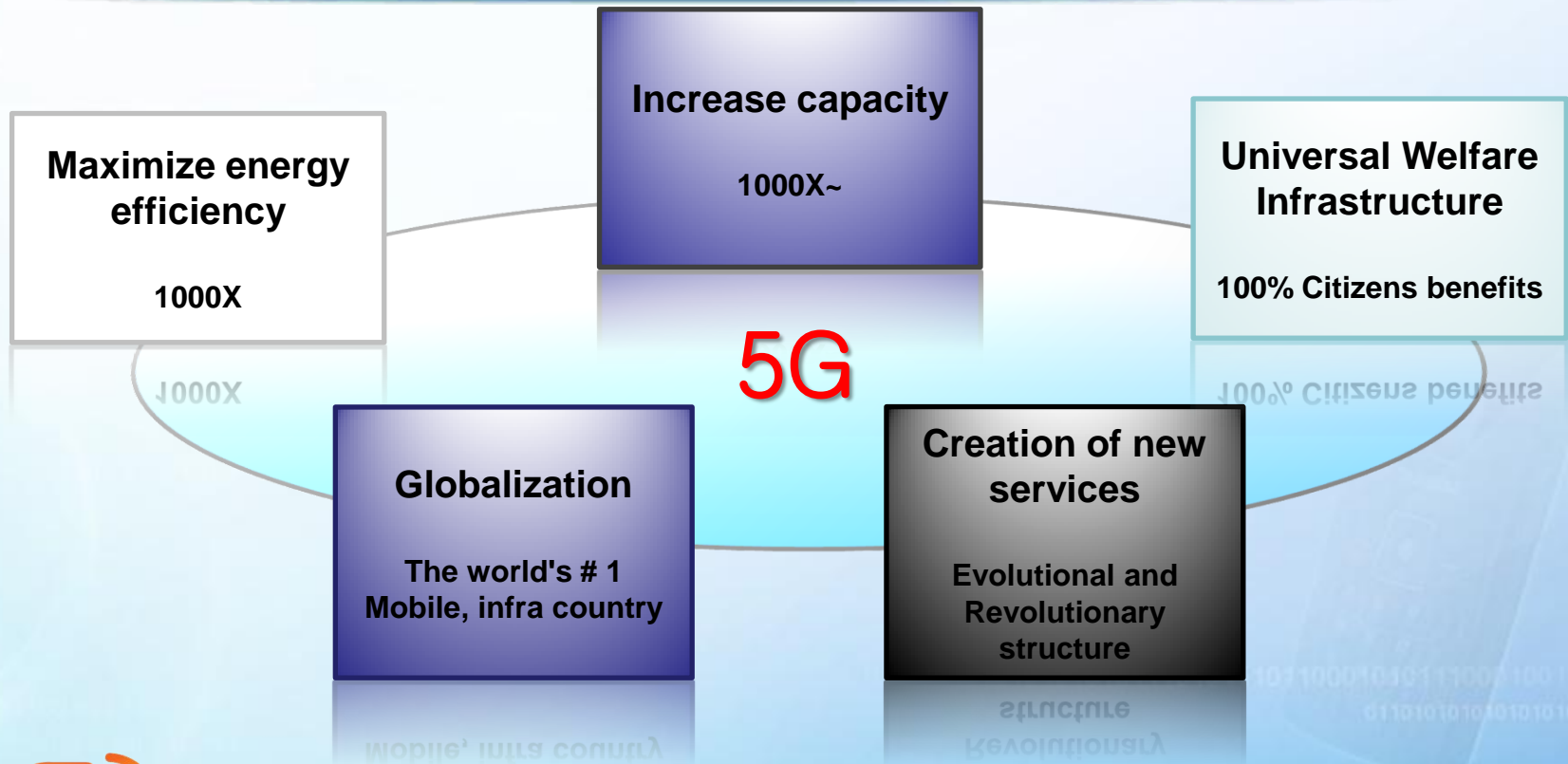


5G Forum Positioning



5G Goal Is

Future mobile communication technology, providing Giga bps per person and ensuring hyper-connectivity in M to M



5G Services Application



Virtual reality
glasses

Smart
Education
System



3D Participation Education



Connected Car

Smart Public
System



Public Big Data

5G Service



Mobile Ultrasound
Scanner

Smart Medical
System



U-health

Smart Security
System



Disaster
communication /
alarm

Smart CCTV



GIGA Korea Projects

Project	Leader	Period
Milimeter wave based 5G mobile communication system	ETRI	2013~ 2017
Digital holographic table top terminal technology	ETRI	2013 ~ 2020
Multiple 3D view point terminal with real time interaction capability	KIST	2013 ~ 2017
Giga Media based Tele experience service SW platform	ETRI	2013 ~ 2017
Giga class high capacity interactive immersive media contents	ETRI	2013 ~ 2017
Total budget of 1 st year		17 Mn\$

Global Collaboration

- Korea 5G forum and China IMT 2020 PG had MoU
 - 2013. June. 28, Beijing, China
- 5G forum and Japanese 5G experts had meeting
 - Aug. 19 , Tokyo, Japan
- TTA and 5G Forum hosted (CJK) International W/S
 - Sept. 4, Seoul, Korea
- Discussions with WWRF, FuTURE Forum, METIS etc. are ongoing

Thank You.

