Infrastructure for the Intelligence Big Bang

kt Institute of Convergence Technology 2017. 10.31

ICT Wave

1st Wave

Fixed Broadband

Driver = Network

2nd Wave

Mobile
Big Bang

Driver = Device

3rd Wave

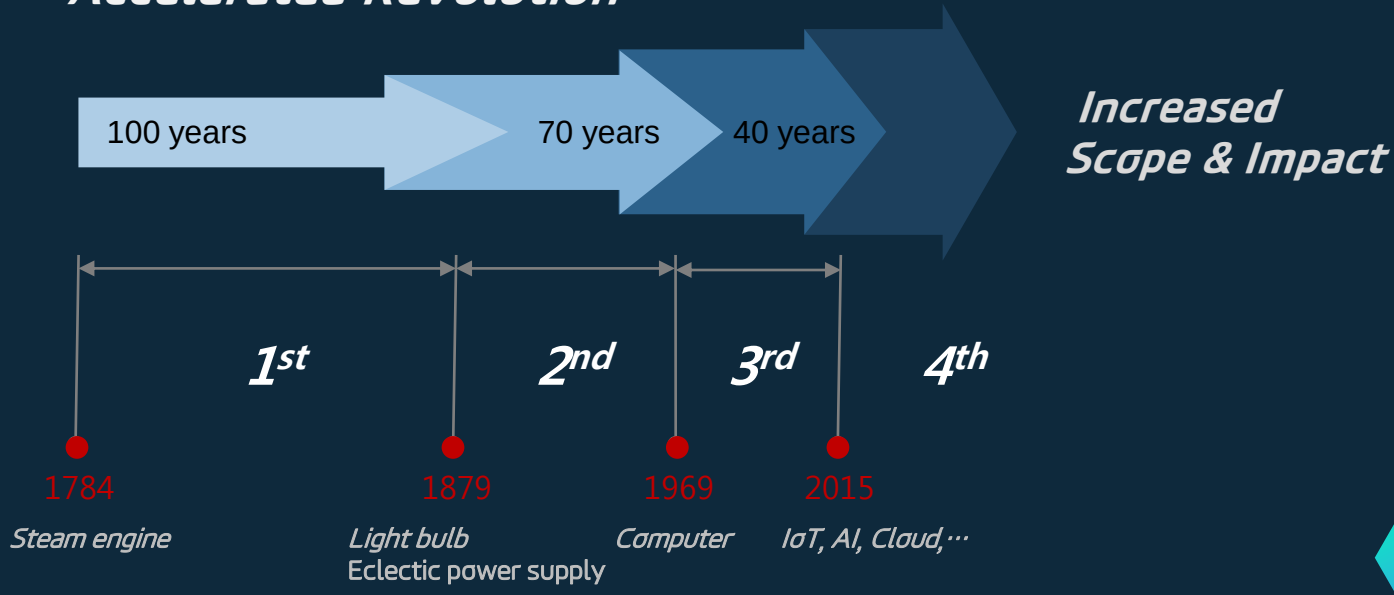
Convergence
Big Bang

Driver = A.I., IoT, ⋯

ICT
(IoT, Mobile, A.I.) + Major Business Areas = Next Big Thing

The 4th Industrial Revolution

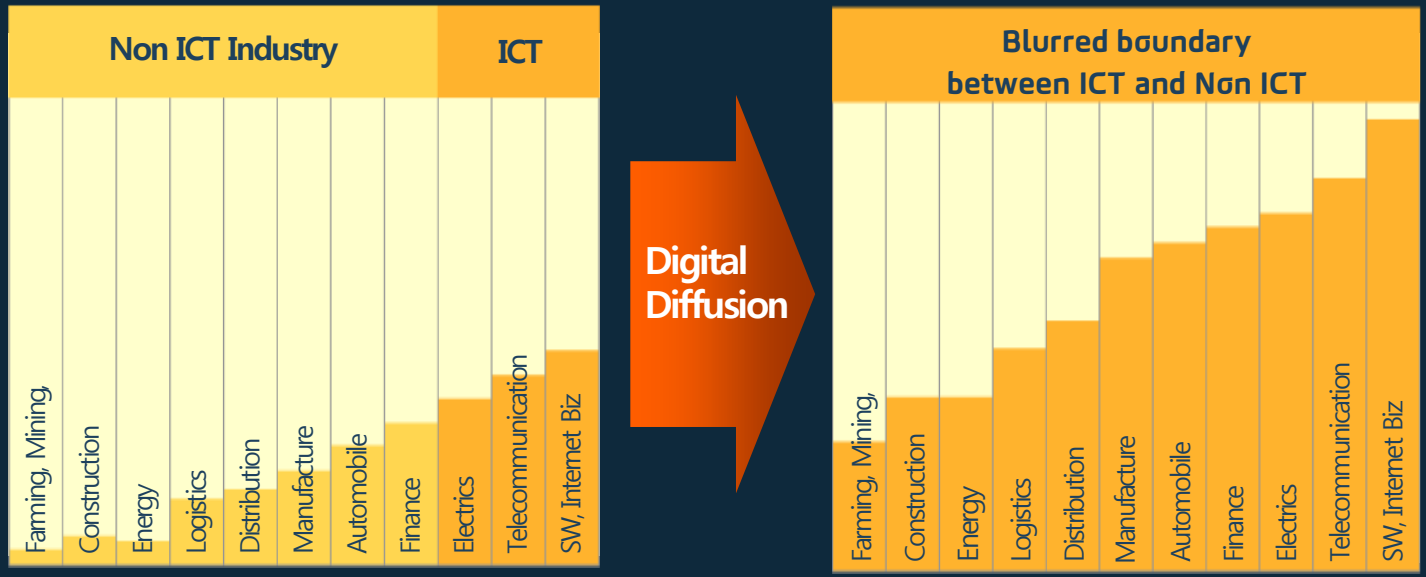
Accelerated Revolution

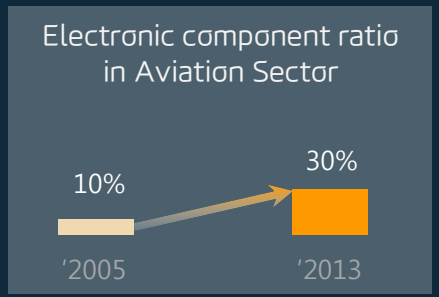


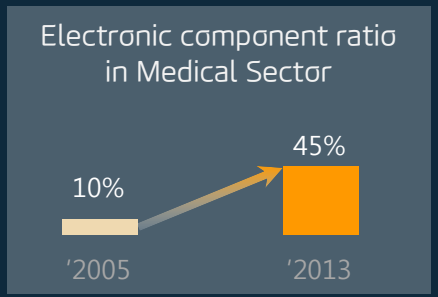
(Source: KT Institute of Economics, 2016)

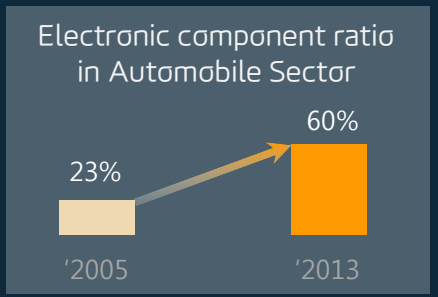
The Online World (2012 view)

ICT
In the Game







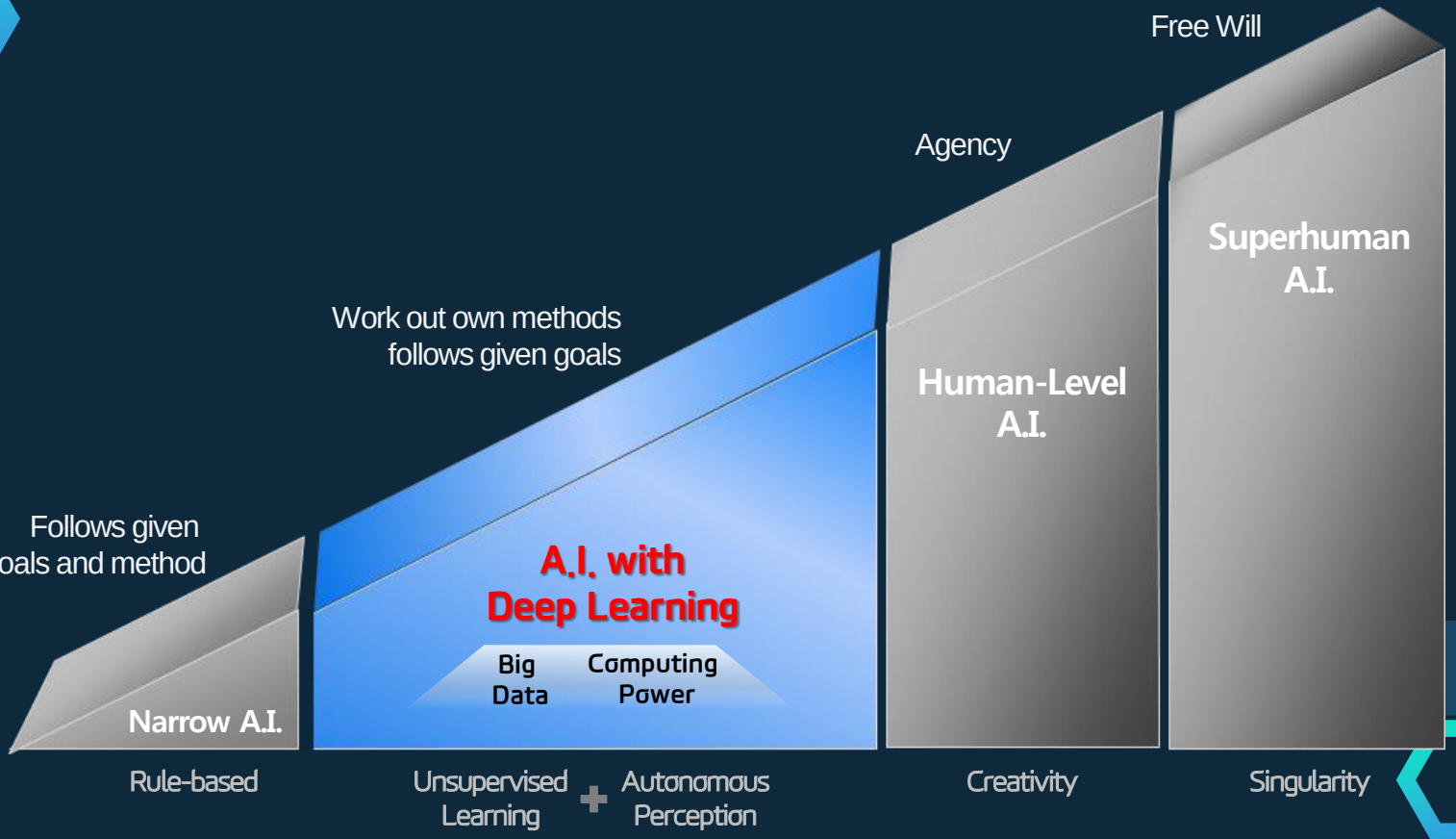


(Source: Bain & Company, 2016)

The (Near) Future

Intelligence, Driver of Revolution

New Era of AI



(Source: B.T. Zhang, Status & Perspective of Intelligent Information Technology, 2016)

Intelligence Everywhere

Interface Intelligence

Business Intelligence

Operation Intelligence

Operators in the Game

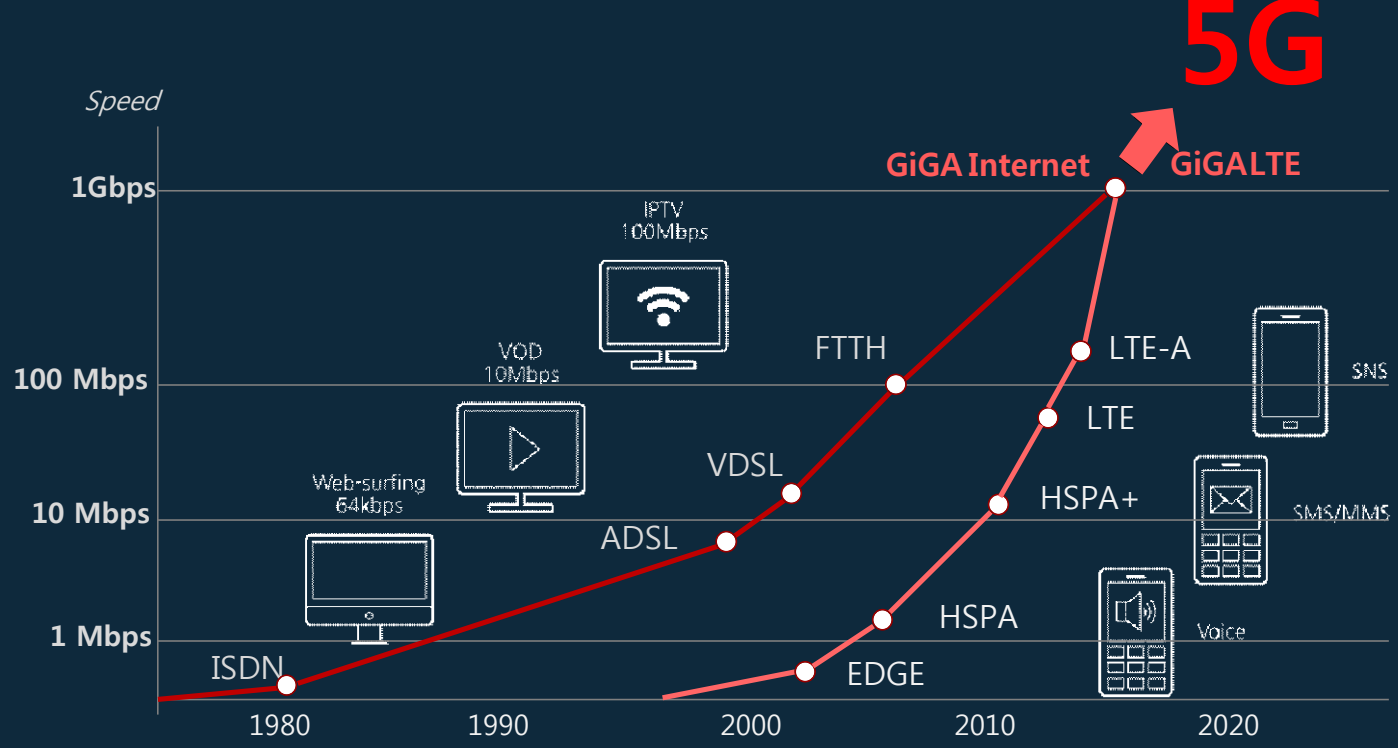
Connected Intelligence Infra

GiGA Network
(Fixed/Wireless)

Connected Intelligence
(Real-time Cloud)

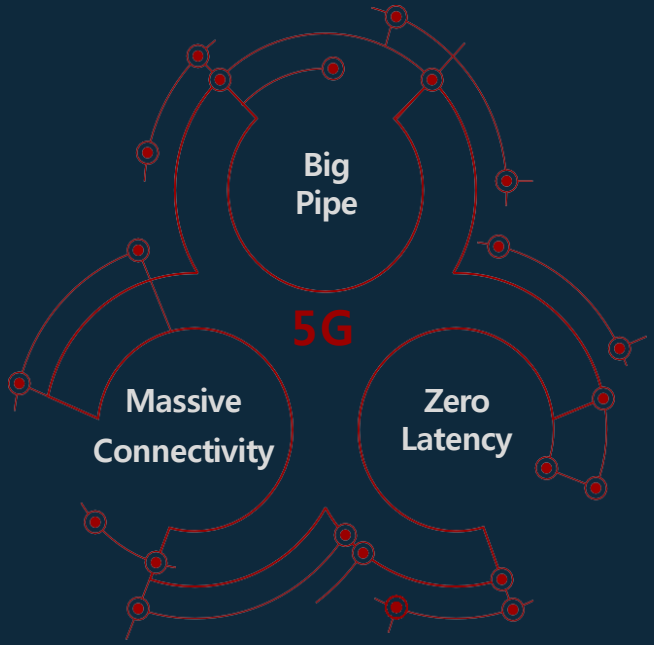
Data Intelligence
(Data Exchange)

The GiGA Network



GiGA Internet, GiGA Wire, GiGA LTE ...

5G Network



	LTE	5G	
Data Speed	300 Mbps	20 Gbps	X 60
Latency	20 ms	1 ms	X 1/20
Connectivity	200	2,000	X 10

5G Service
(Pyeongchang Test Event)

Connected Intelligence

AI in Home

Network

AI Cloud

Speaker Identification

Complex Query

Context-based Dialogue

Challenge

Multi-speech Recognition

Multi-Lingual Auto-translation

History-based Dialogue

GiGA Car

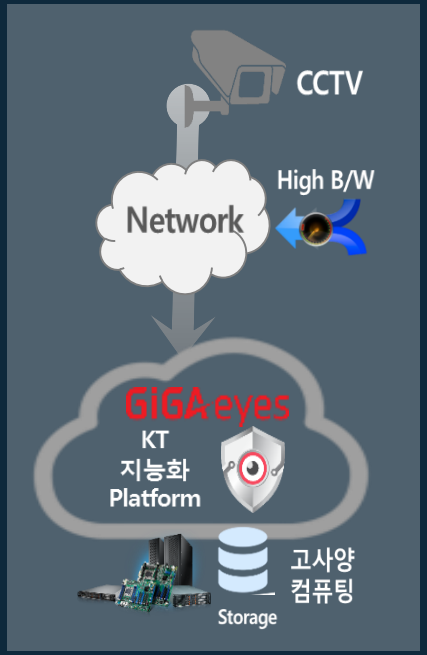
Inno-Car

Lane-level Navigation

ITS(V2X)

GiGAeyes

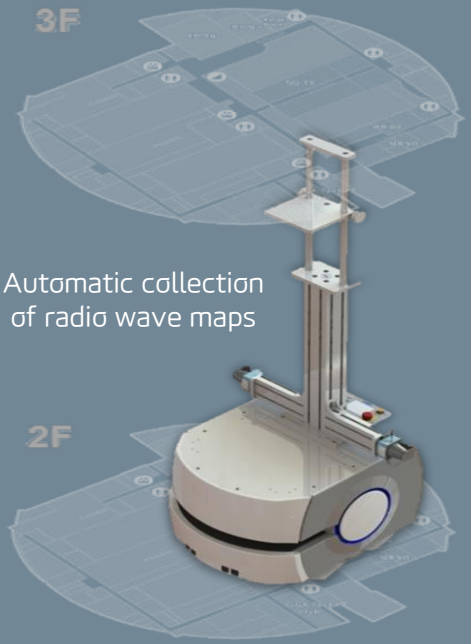
Intelligent Security



Location Intelligence

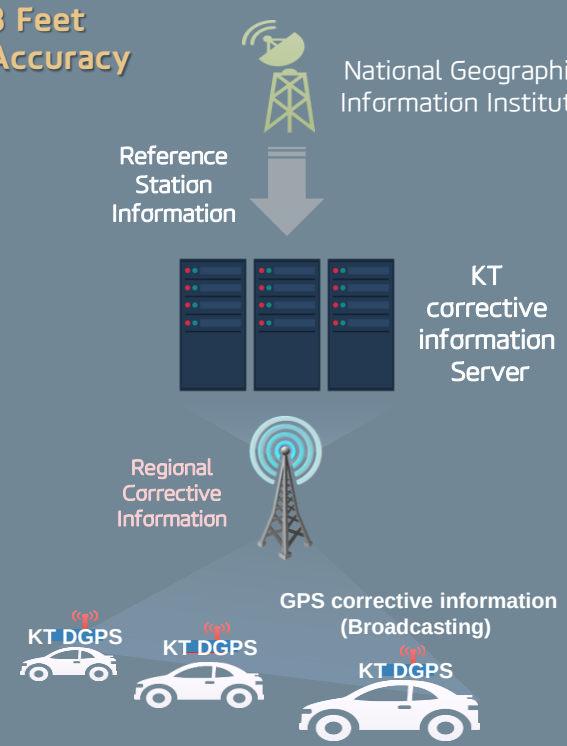
Indoor Positioning Solution

3D



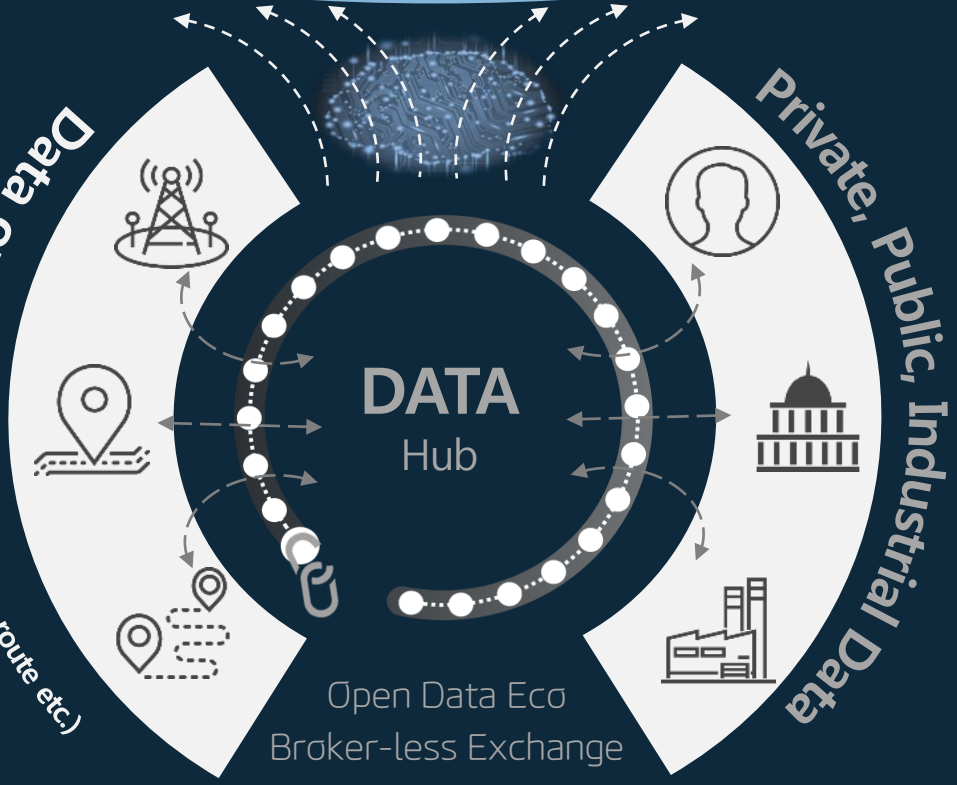
Outdoor Positioning Solution

3 Feet Accuracy

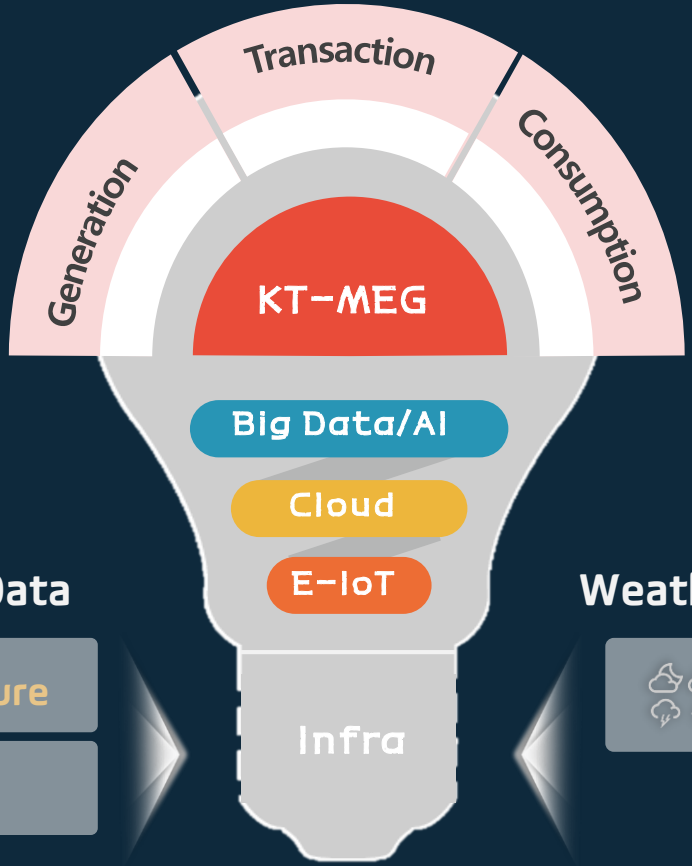


New Convergence Biz

Data
Intelligence



Energy
Intelligence



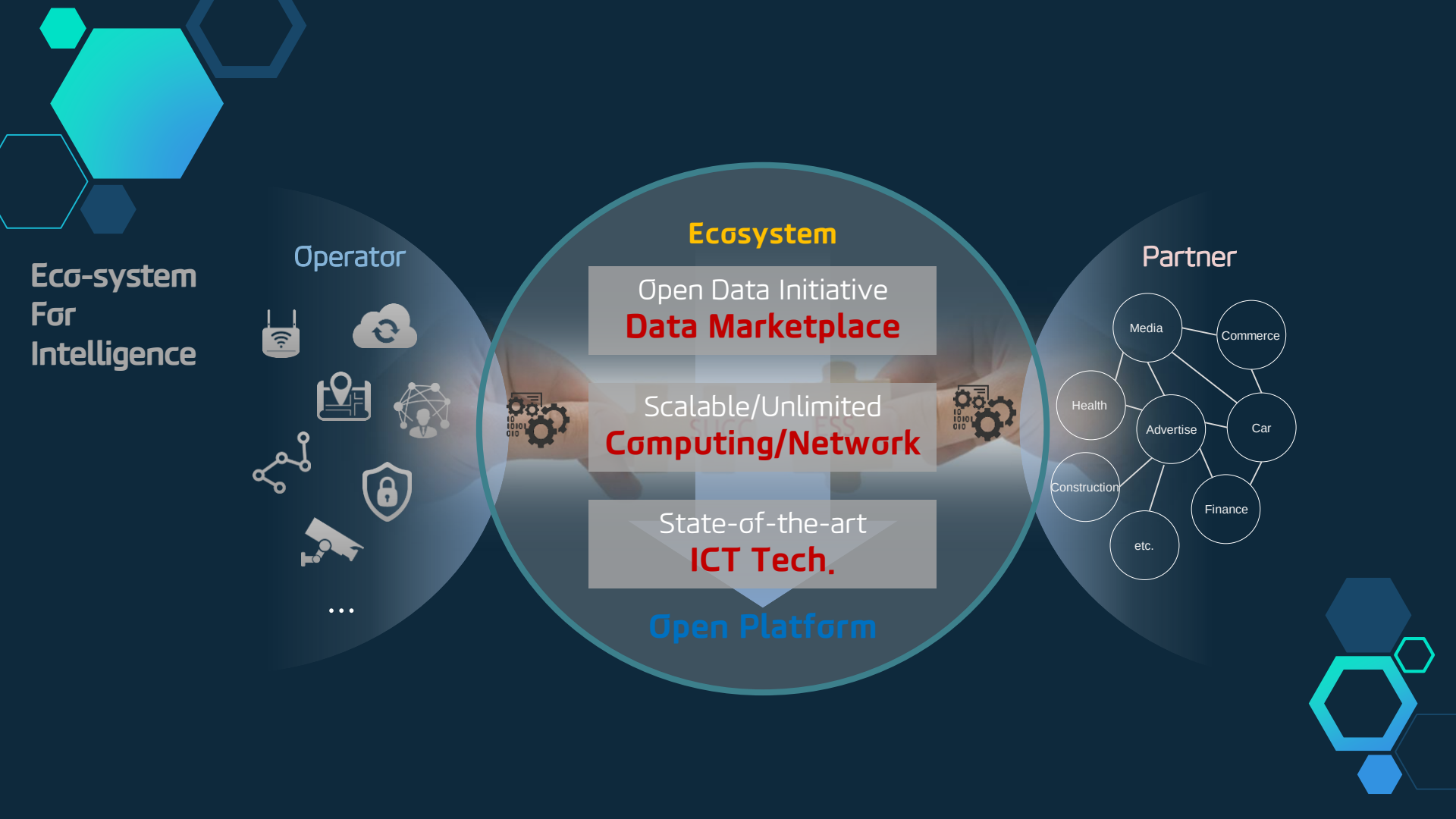
Ministry of Land Data

- Building Structure
- Gas Statistics
- ⋮

Weather Agency data

- Weather
- ⋮

Eco-system For Intelligence



KT AI Craft Shop

3rd Party

SDK

Open SDK

On/Off Testbed

Service Launching

GPU Cluster(NVIDIA)

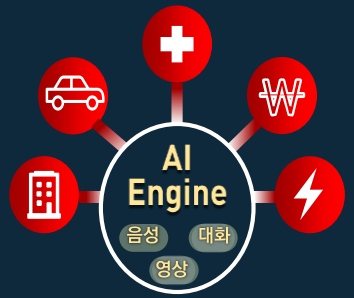
[Phase 1]

GiGA Genie Open

Service SDK: '17.6~

[Phase 2]

AI Engine Open



Voice/Dialog SDK: '17.9~

GiGAtopia

Domain Expansion

Differentiated Intelligence

Stronger Infra 5G Network

Thanks!