The Road that KAIST Global Commercialization Center sees

OCT 23. 2015.

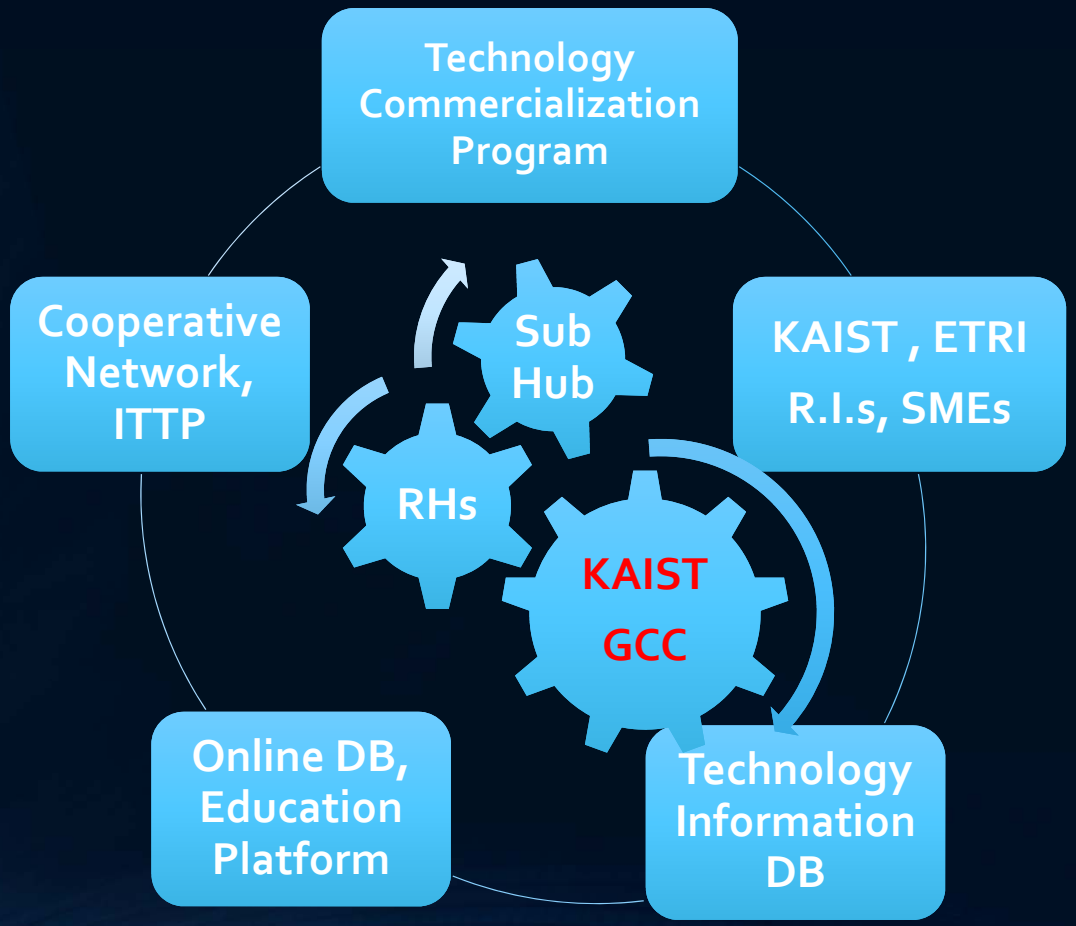
Vision, Mission, and Core Value with Strategy

1 VISION	• Creating innovative economic value through the technology transfer and global technology commercialization
2 MISSION	• Transferring technology for commercialization into value creation • Bridging the R&D Institutes, SMEs to the demands of emerging countries
3 GOAL	• Satisfying partner countries' demand and potential needs, not givers • Revitalizing ICT R&D performances of Korea into value creation of demands
4 STRATEGY	• Pursuing strategic development and cooperation among R&D Institutes, SMEs, Ventures, KAIST ITTP program , and developing countries

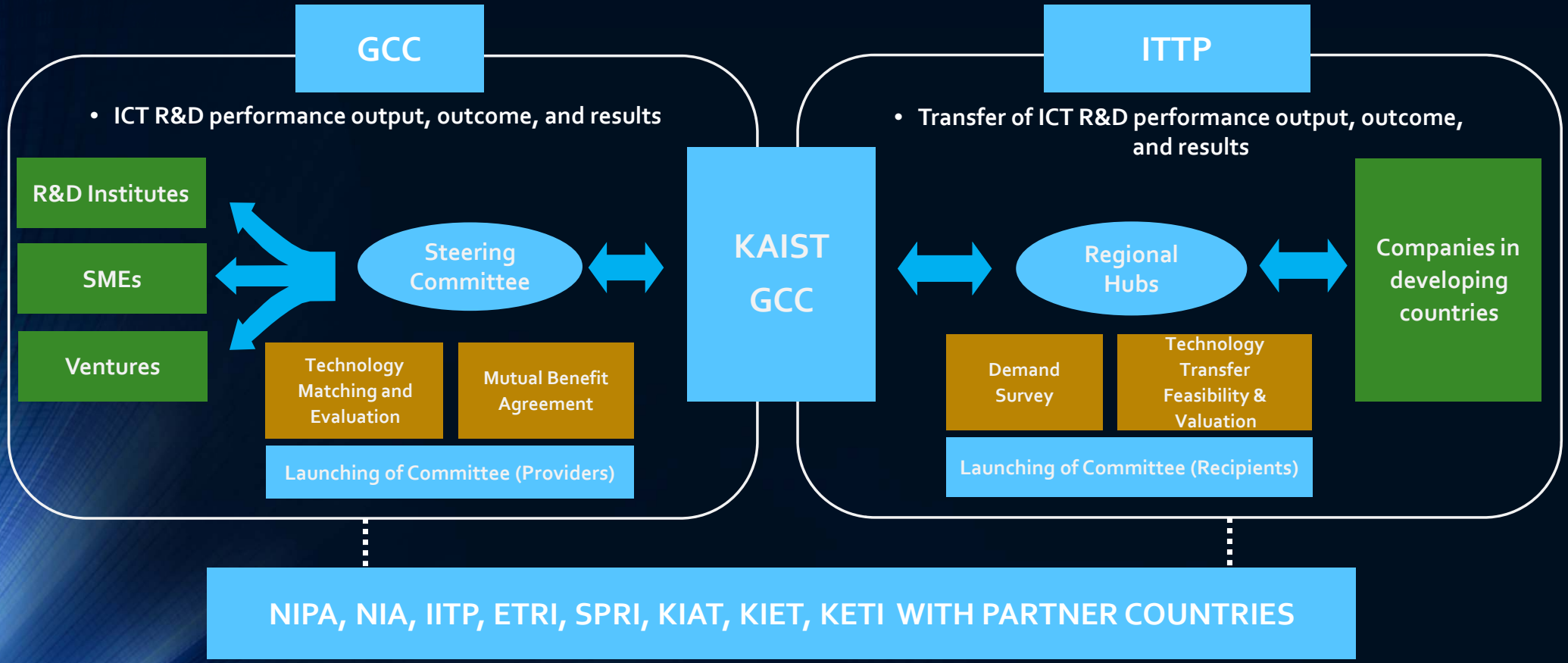
Why KAIST GCC begins and what thinks.

- **It is required to develop integrated technology commercialization support system for developing countries**
  - Finding demands of technology transfer in developing countries to benchmark successful cases of technology commercialization
  - Lack of integrated support system of technology transfer, commercialization , education and consulting for global technology commercialization
- **It is necessary to establish the cooperative network**
  - Needs construction of global cooperative network between Korea and developing countries to provide systematic support system for global technology transfer and commercialization
- **It needs to be focused on ICT, Science $ Technology fields**

How KAIST GCC operates : Operation Process



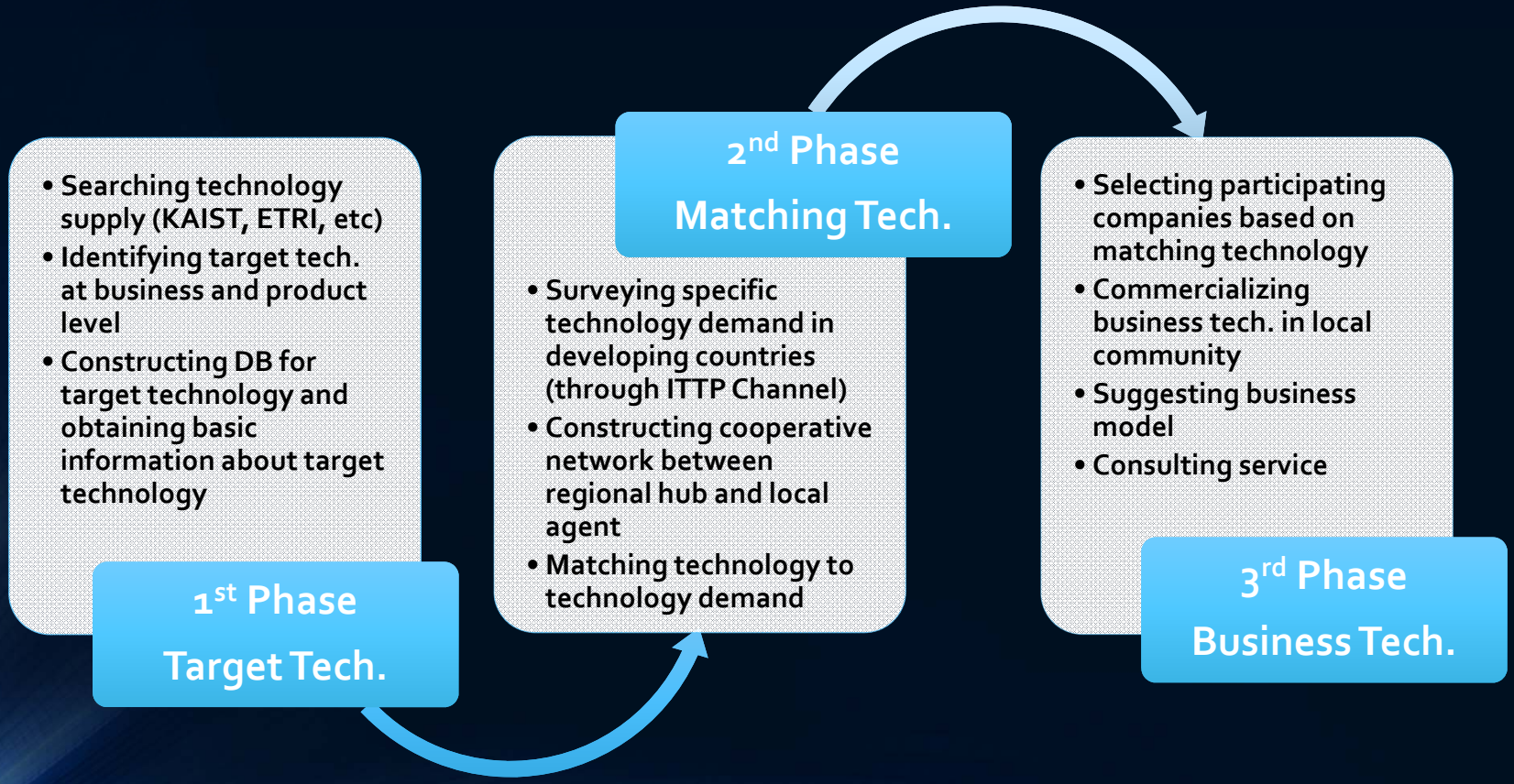
KAIST GCC Operating System.



What KAIST GCC activates.

- **Construction of global technology commercialization system**
  - Establishment of Global Commercialization Center, April 2015.
  - Set-up of technology information DB from R&D institutes and companies
  - Development of technology evaluation system for global technology commercialization, transfer and diffusion
  - Searching technology demands of developing countries and matching domestic technologies for promotion global technology commercialization
  - Construction of technology cooperative network between Korea and developing countries
  - Development of training and education system for technology commercialization
  - HRD and HRM, expert training for global technology transfer of ICT R&D performance

How to do Commercialization of Technology



Sustainable Cooperation using Demand Analysis, R&D, Education for Technology Transfer

Domestic R&D Institutions	
ETRI	NIPA
KETI	NIA
KIAT	IITP
KEIT	SPRI

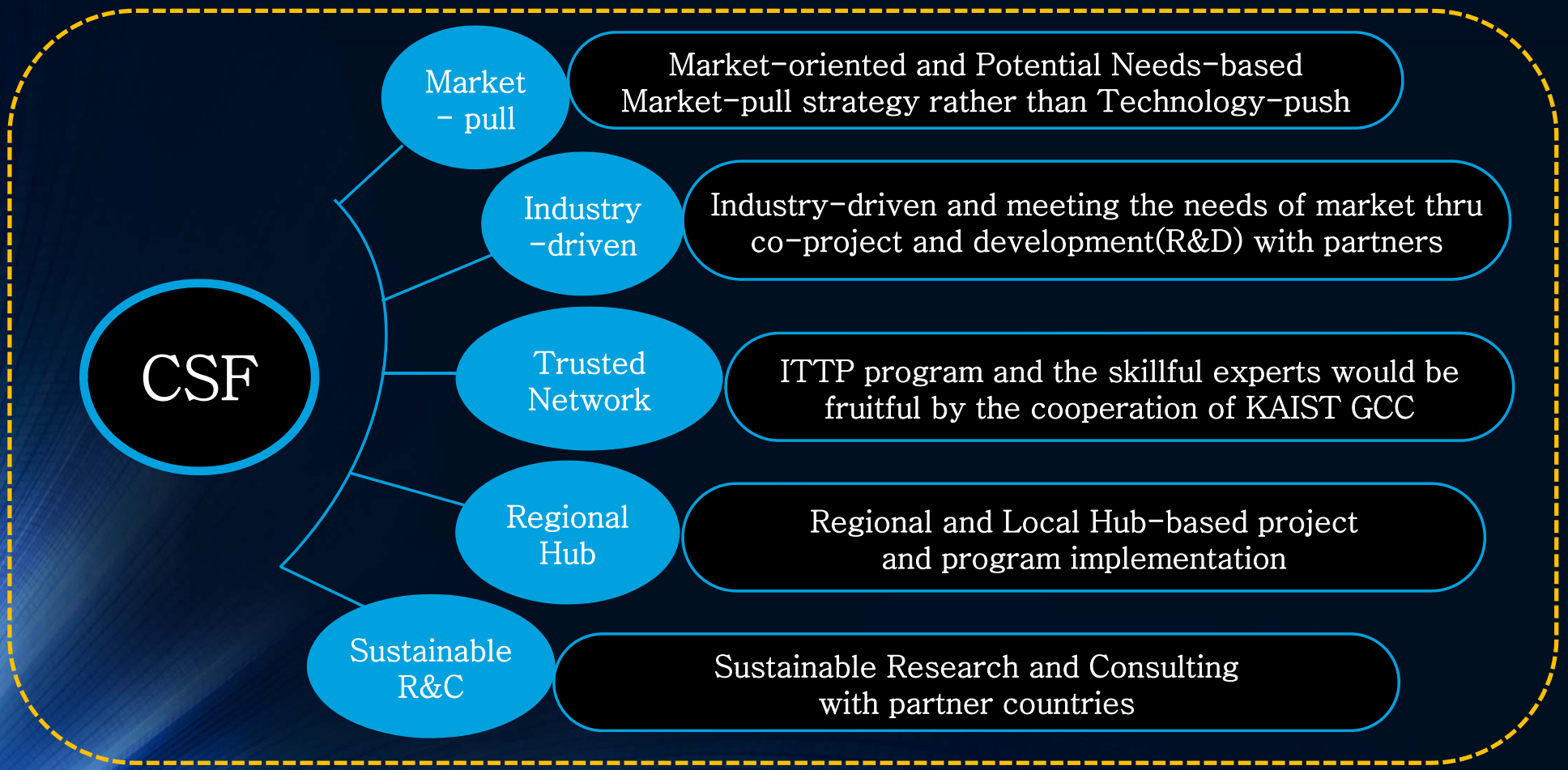
KAIST	
	Dept. B&TM
	Dept. EE
	ITTP, TLO

ICT **R&D Contents Development** for Technology Commercialization

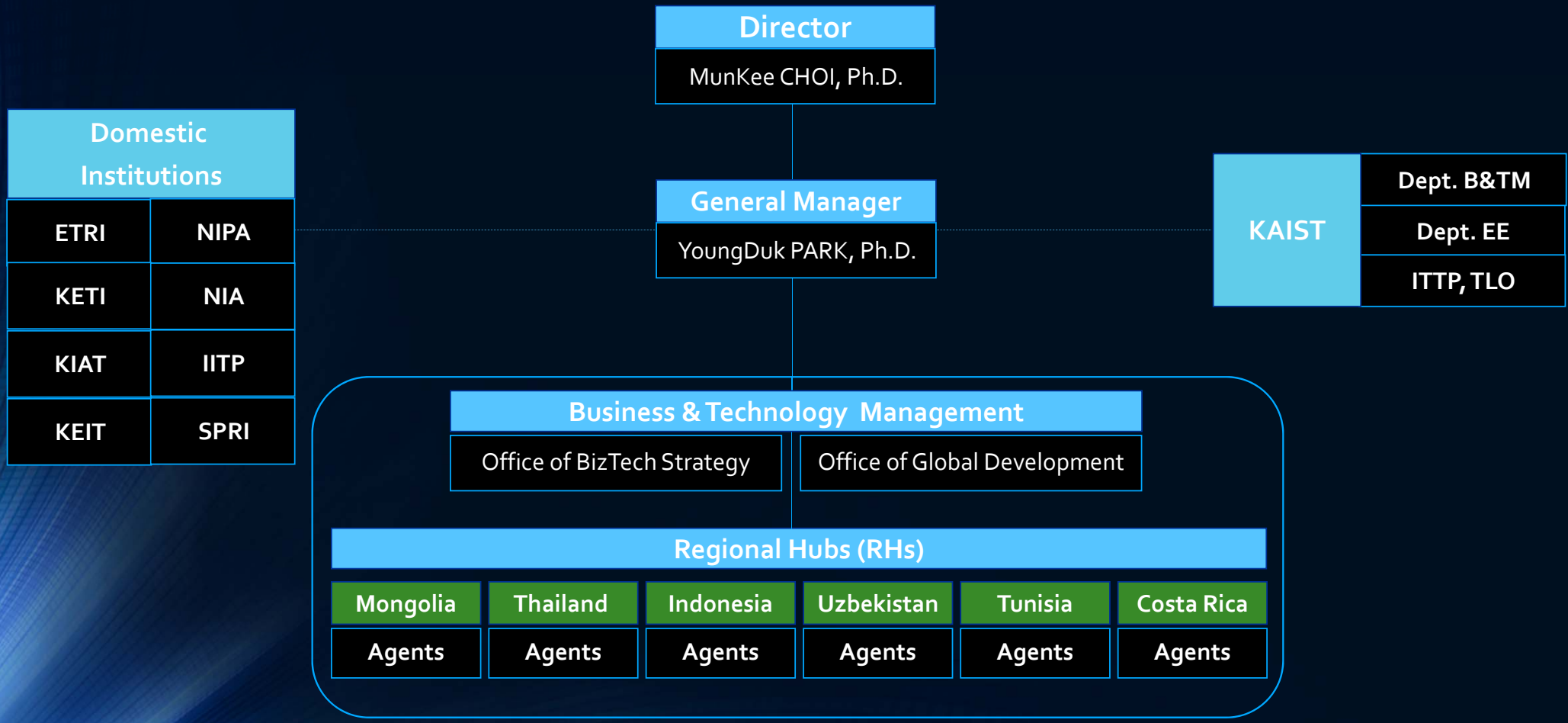
Demand Analysis with Information Availability And Accessibility

Technology Commercialization **HRD and HRM** with Emerging Countries

Critical Success Factors of KAIST GCC



KAIST GCC Organization and Current Status 2015



KAIST GCC's Cooperative Partners : R&D Networks in Korea

ETRI 한국전자통신연구원 Electronics and Telecommunications Research Institute

KETI 전자부품연구원 Korea Electronics Technology Institute

nipa 정보통신산업진흥원 National IT Industry Promotion Agency

IITP 정보통신기술진흥센터

beyond leading technology KIAT

Keit 한국산업기술평가관리원 Korea Evaluation Institute of Industrial Technology

NIA 한국정보화진흥원

SPRi 소프트웨어정책연구소

KAIST

Global Information and Telecommunication Technology Program
Korea Advance Institute of Science and Technology
KAIST

Who are Partners in developing countries

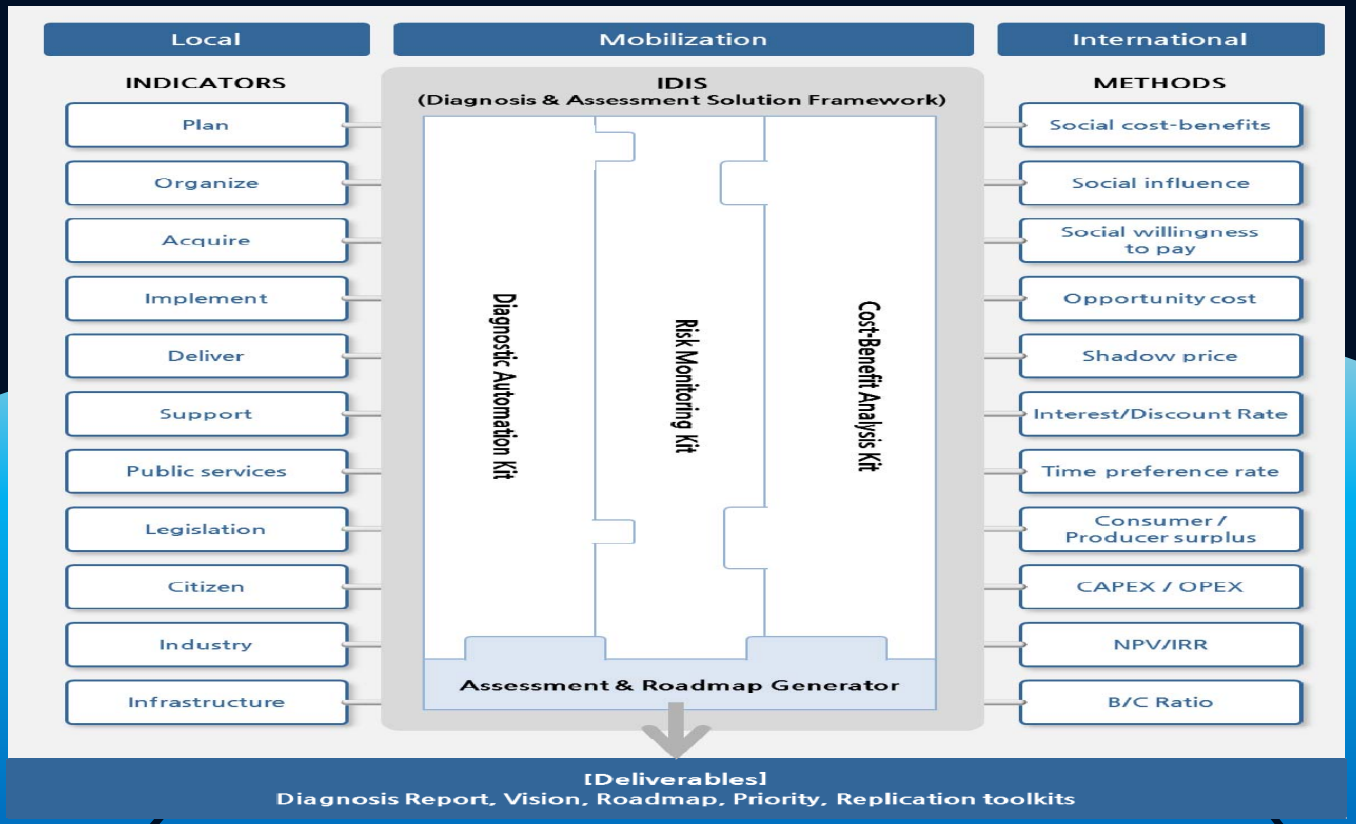
	Asia-Pacific	Middle East	Eastern Europe & CIS	Africa	Latin America & Caribbean
No. of Countries	13	5	7	22	7
No. of Persons	45	7	16	58	16

Who are ITTP Partners in developing countries

Region	No. of Countries	No. of Persons	Country (No. of Persons)
Asia	13	45	Nepal(5), Laos(3), Mongolia(7), Myanmar(1), Bangladesh(3), Vietnam(5), Bhutan(3), Sri Lanka(3), Afghanistan(2), Indonesia(6), Cambodia(2), Thailand(2), Pakistan(2)
Central & South America	7	16	Dominica(2), Brazil(3), Ecuador(1), Chile(2), Costa Rica(3), Colombia (1), Peru(4)
Eastern Europe And CIS	7	16	Moldova(1), Bulgaria(1), Azerbaijan(2), Uzbekistan(6), Czech(1), Kaz akhstan(3), Kyrgyzstan(2)
Africa	22	58	Ghana(4), Nigeria(9), South Africa(2), Rwanda(3), Morocco(1), Algeria(2), Ethiopia(5), Egypt(2), Kenya(3), Tunisia(3), Burundi(2), Sudan(3), Uganda(4), Swaziland(1), Lesotho(2), Zambia(2), Tanzania(1), Zimbabwe(1), Malawi(1), South Sudan(1), Guinea Bissau(1), Liberia(1)
Middle East	5	7	Jordan(2), Syria(1), Oman(1), Qatar(1), Yemen(2)

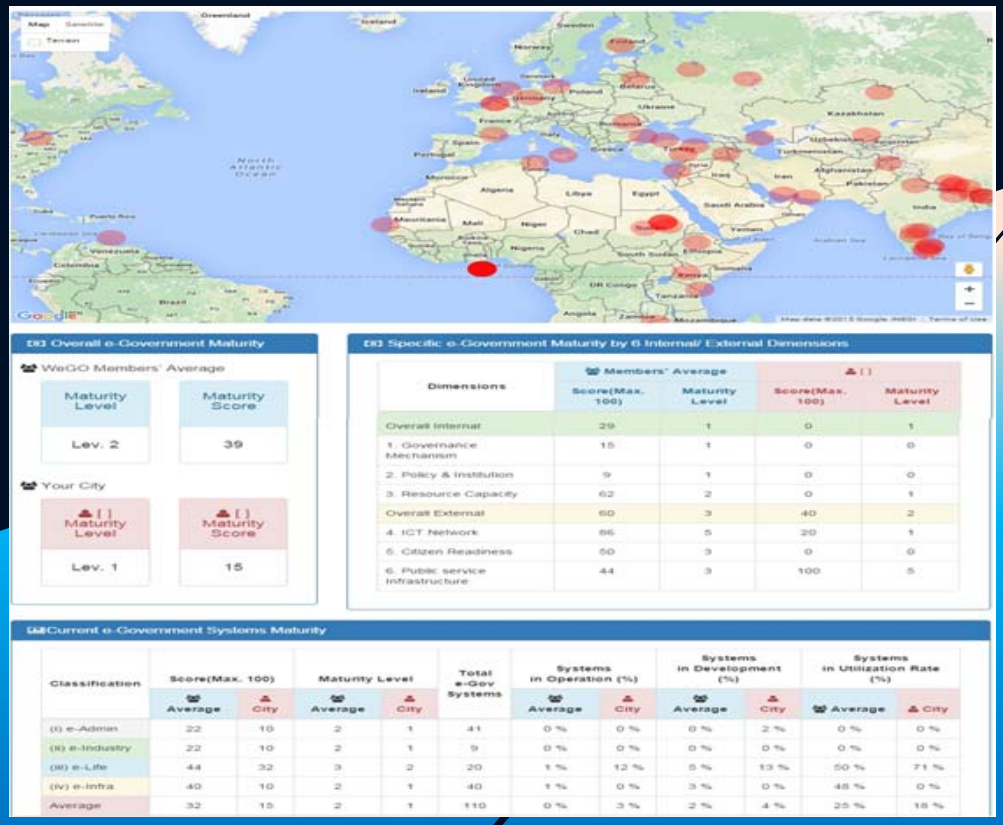
Current Status : ICT Demand &Diagnosis Solution Framework

Development of
ICT Demand & Diagnosis Solution Framework

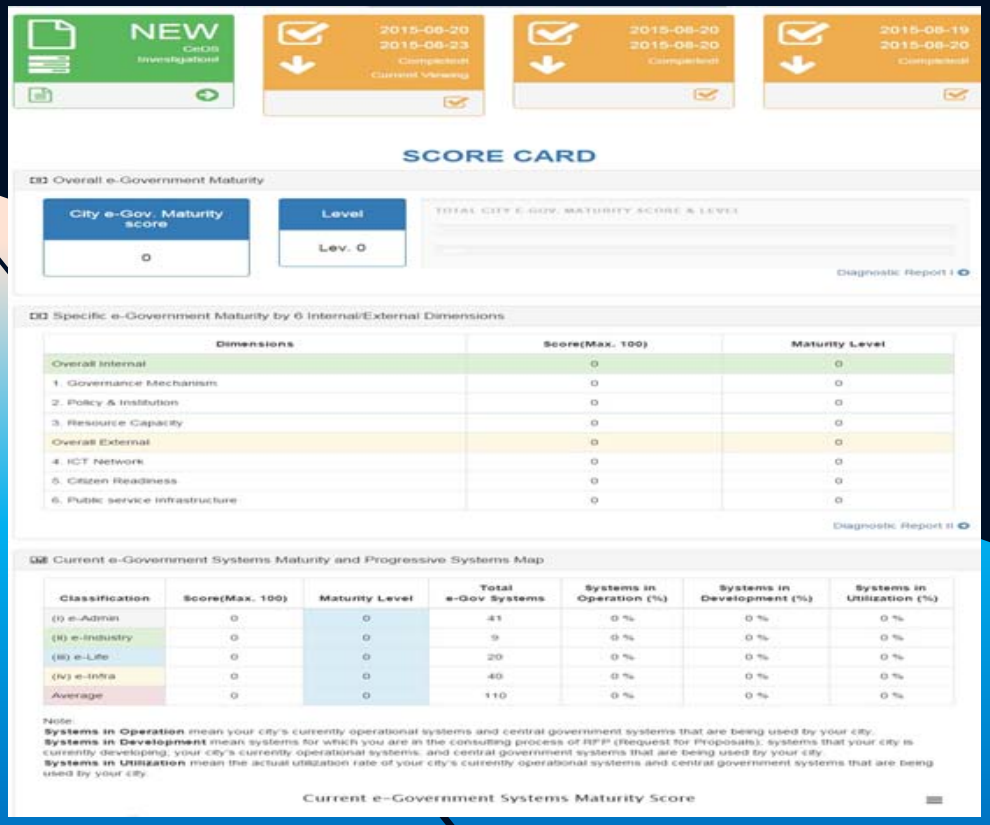


Current Status : Developing Demand Analysis Tool Kit[1]

Fundamental Overviews of Partner Countries In terms of Demand Analysis of Tool Kit Web Site



Score Card of Partner Countries In terms of Demand Analysis of Tool Kit Web Site

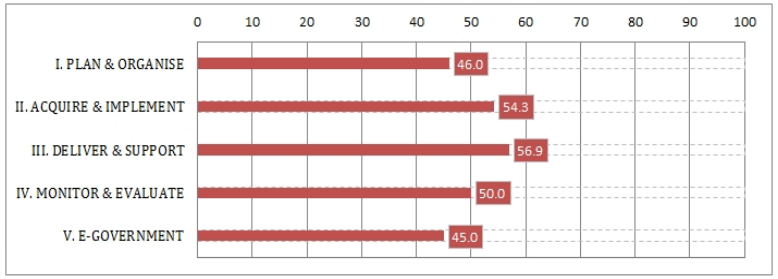


Current Status : Developing Demand Analysis Tool Kit[2]

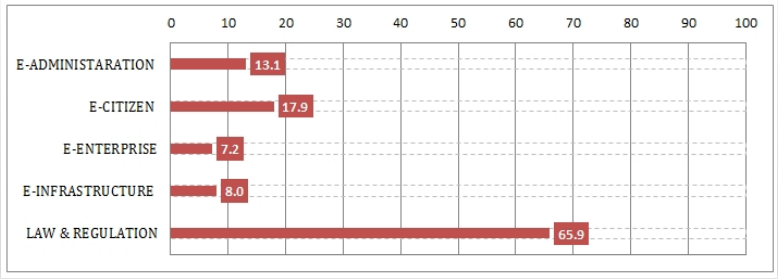
Fundamental analyses results of Partner Countries Using Tool Kit for demand analysis

ANALYSIS

LEVERAGE DOMAIN



SECTORIAL MATURITY



Sectorial Maturity Level

✓ e-Administration

LEVEL	CLASSIFICATION	DEFINITION AND SIGNIFICANCE
LEVEL 1	Definition	Laying foundation for administrative ICT and Maintenance
	Contents	Building foundations for implementing e-Government. Building organizations, personnel, systems, infrastructure environment, and maintain them. Distributing personal PCs for officials and building the infra such as communication network or security equipment for seamless information sharing. Developing and conducting basic IT training programs for all employees, and maintaining the existing systems and practices such as internal communication and services procedures relating to civil services for introducing ICT

✓ e-Citizen

LEVEL	CLASSIFICATION	DEFINITION AND SIGNIFICANCE
LEVEL 1	Definition	Building and maintaining foundation for e-life
	Contents	Building and maintaining foundations for life information services. Maintaining the existing environment, systems and practices such as the service procedures relating to civil services, for introducing e -Government.

✓ e-Enterprise

LEVEL	CLASSIFICATION	DEFINITION AND SIGNIFICANCE
LEVEL 1	Definition	Building foundation for industrial ICT
	Contents	Building and maintaining foundations for the implementation of industrial ICT services, and establishing the directions for necessary policies.

✓ e-Infrastructure

LEVEL	CLASSIFICATION	DEFINITION AND SIGNIFICANCE
LEVEL 1	Definition	Establishing directions for National(central government) based services and investigating policies
	Contents	Establishing directions and investigating policies for National(central government) based information services

What KAIST GCC plans until 2020.

1st Phase: 2015~2016

- Establishment of Global Commercialization Center (GCC)
- Construction of global commercialization infrastructure in ICT and scientific technology fields
- Construction of technology cooperative network for global regional hub
- Selecting domestic company to participate global technology commercialization

2nd Phase: 2017~2020

- Expansion global commercialization to various developing countries
- Expansion the number of technologies transferred or commercialized
- Expansion cooperative network to regional hub and regional sub-hub

Road Map

Infrastructure of Technology Commercialization

Performance Bring-up of Technology Commercialization

	2015-2016	2017-2018	2019-2020
Demand Analysis Tool Kit Development and Application	Highly level of demand analysis for Technology Commercialization using Tool Kit	Upgrading of Tool Kit for Demand Analysis of Technology Commercialization	Cooperation and Development with International Organization and Specialized Purpose Organization
Portal Web Construction for Education Contents of Technology Commercialization	Application of Educational Portal Site with partners of Emerging countries	Expansion of Portal Site Application of Technology Commercialization	Technology Transfer-based global HRD cooperation with emerging countries
Sustainable Research and Education Program with ITTP and R&D institutes	Sustainable Research and Consulting among R&D institutes and partners of emerging countries	Grand Seminar and conference for research and consulting for Technology Commercialization	Satisfying and mobilizing Stakeholders of Technology Commercialization for Sustainable Develpment

Concluding Remarks

To create a global commercialization of ICT and Science & Technology for developing countries, Global Commercialization Center (GCC) was established at KAIST.

KAIST GCC plans to construct global cooperative network between Korea and developing countries to provide systematic support infrastructure for global technology transfer and technology commercialization. To construct global cooperative network, KAIST GCC would like to collaborate with KAIST Global IT technology Program of KAIST (ITTP) which is an IT-customized international scholarship education program for foreign countries as well as R&D institutes and SME in Korea.

KAIST GCC would like to help many domestic institutes or companies to connect local partner companies in developing countries and open a new era of hope and happiness for our global development and cooperation of international society through global and innovative technology commercialization.

Thank you so much.

mk1515@kaist.ac.kr, Director of KAIST, GCC MunKee CHOI, Ph.D.