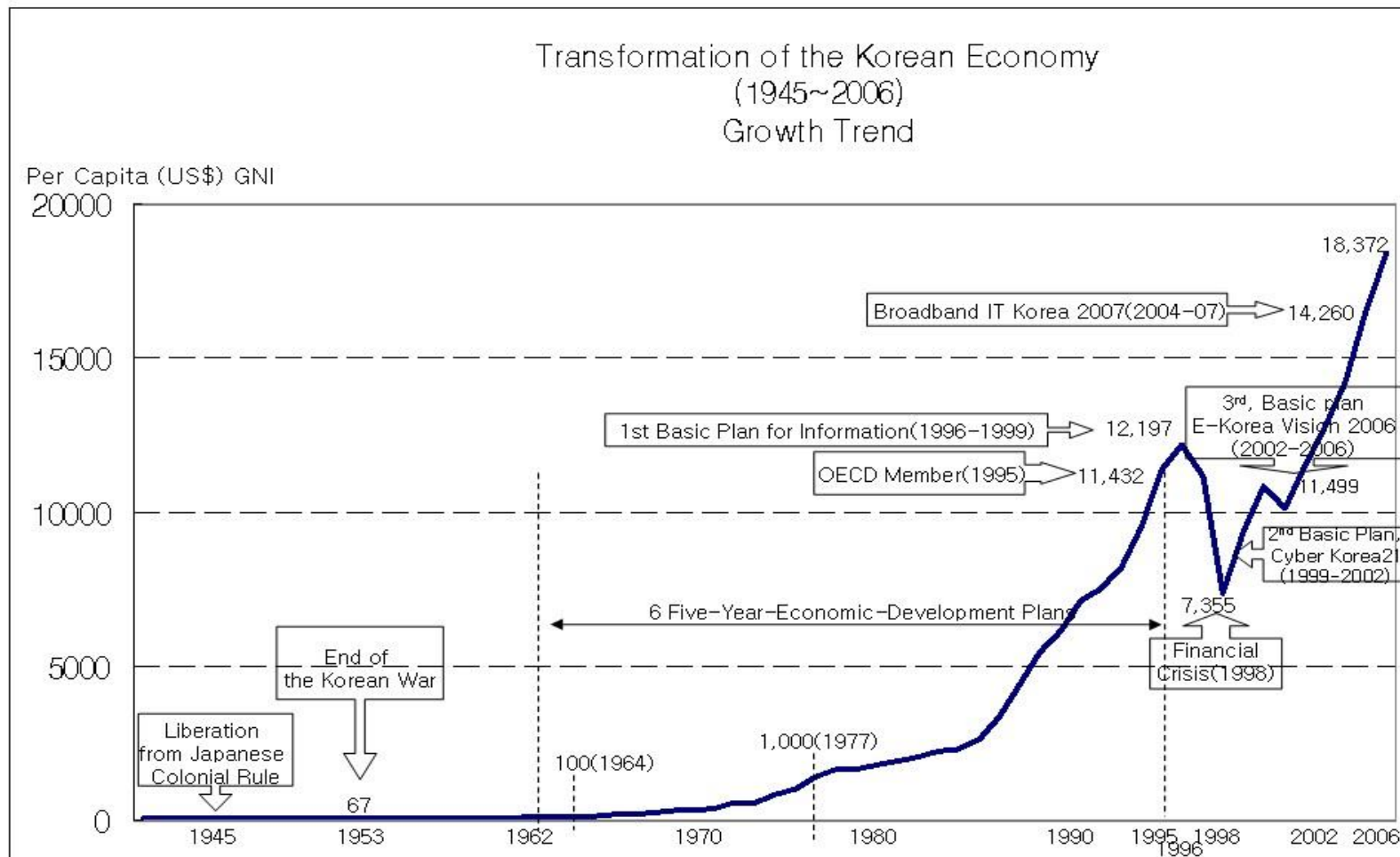


# Welcome to the World of Global IT Technology Program (ITTP)

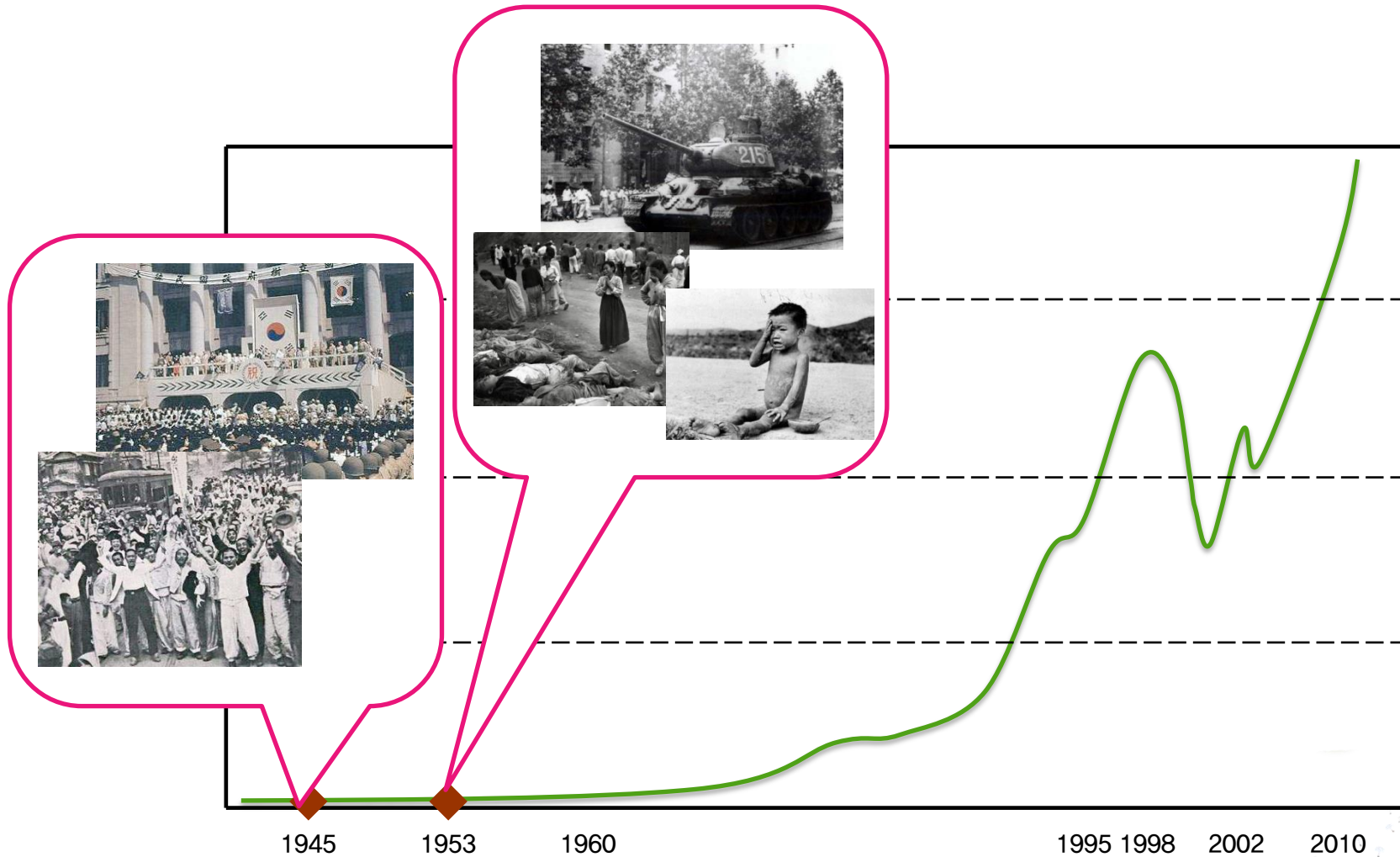


**Jae Jeung Rho**  
Director of ITTP  
(jjrho@kaist.ac.kr)

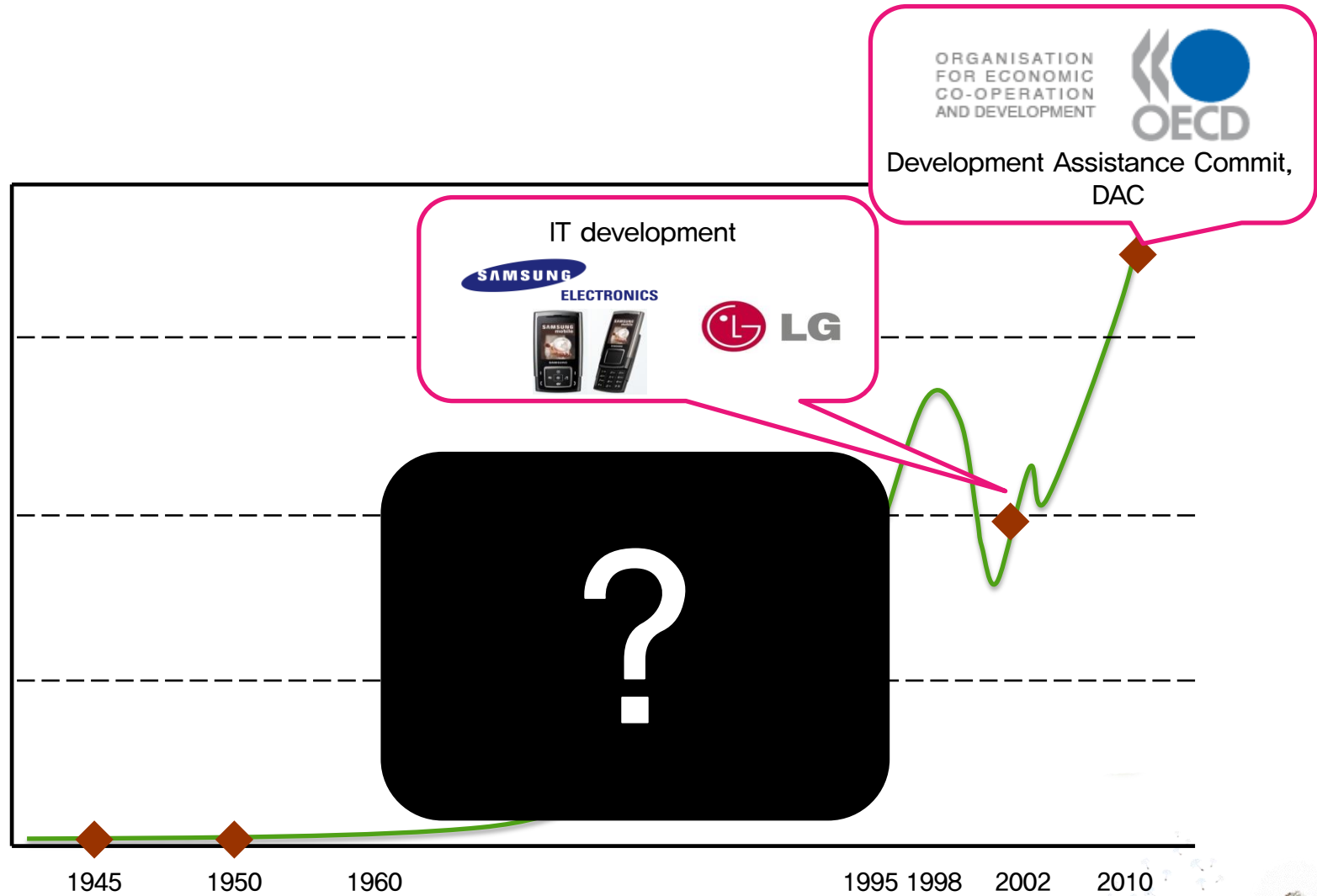
## From Nothing To A Small Giant in Global Economy



## From Nothing To A Small Giant in Global Economy

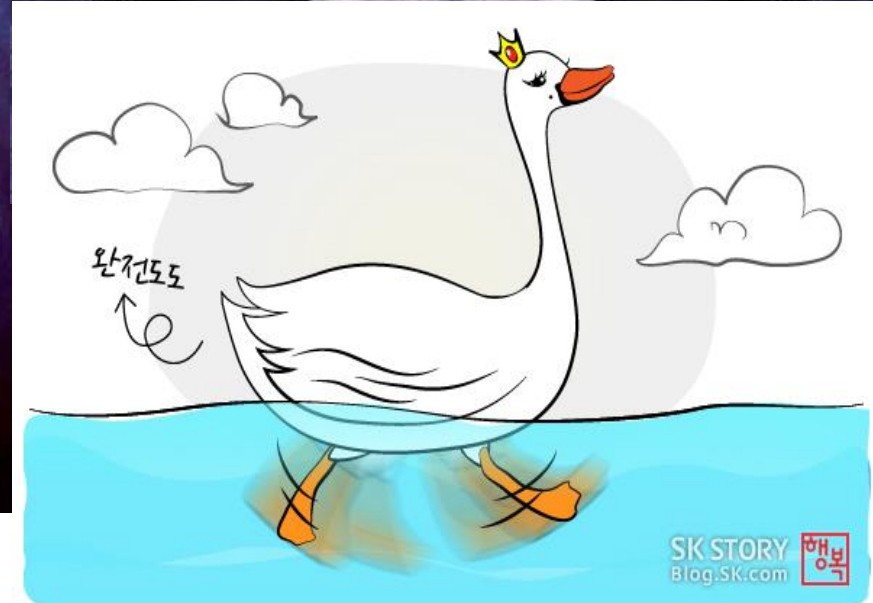


## From Nothing To A Small Giant in Global Economy





## Iceberg Syndrome



IT's Process, Stupid!

## Toward 4<sup>th</sup> Industrial Revolution Society

4<sup>th</sup> Industrial Revolution Society?

‘The Third’ Information Revolution

4C + Calm Technology

Toward Ubiquitous Society

‘The Second’ Information Revolution

Connectivity & Contents

The Development of Internet & Smart Phone

‘The First’ Information Revolution

Computer & Communication

- Information
- Computer/PC
- Network



Industrial  
Society

Information Society



## What is ITTP?

- Global IT Technology Program (ITTP) of KAIST and Global IT Policy Program (ITPP) of Seoul National University(SNU) are international scholarship and education programs sponsored by Ministry of Science, ICT and Future Planning, Republic of Korea.



미래창조과학부  
Ministry of Science, ICT and  
Future Planning

DYNAMIC IT  
KOREA

**Global IT Technology Program I**  
**Information and Communications**  
**University**



**Global IT Policy Program I**  
**Seoul National University**



**ITPP**  
International IT Policy Program

## Program Overview



- Title: Global **IT** Technology **P**rogram (ITTP)
- Started from 2006 at ICU
- Post-graduate program (Master's/Doctoral Degree)
- 188 fellows from 63 countries (as of June, 2018)
- Mainly educating IT professionals holding engineering background



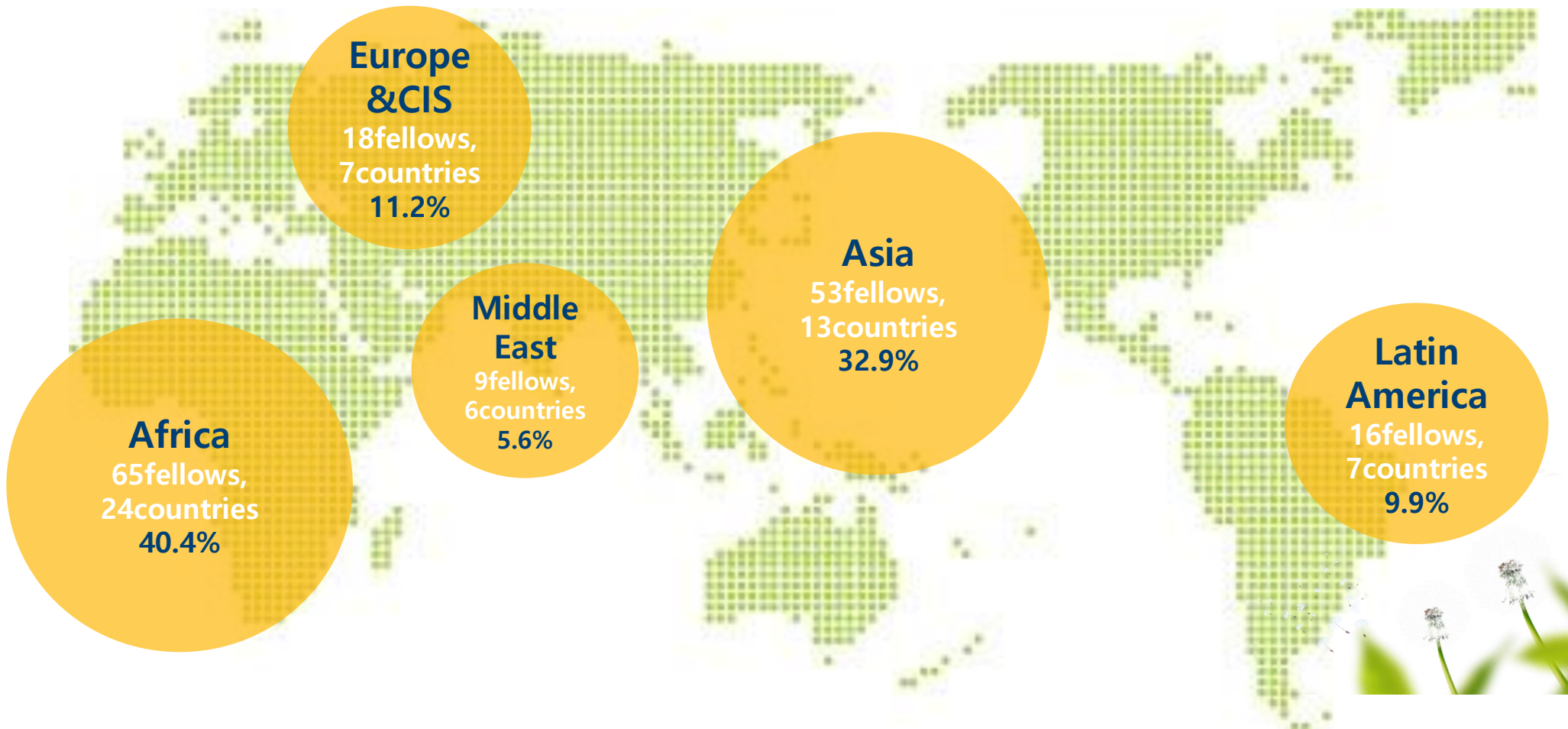
- Title: Global **IT** Policy **P**rogram (ITPP)
- Started from 2003 at Seoul National University
- Post-graduate program (Master's/Doctoral Degree)
- 111 fellows from 45 countries (as of January, 2016)
- Mainly educating IT professionals based on public governance and management of ICT



## Classification by Region

# ITTP Fellows Until Now

- 188 fellows, 63 countries



**Last 10 Years**

**ITTP 4.0**  
(2017-)

**Industry Building**  
(MSIT)

**ITTP 3.0**  
(2013-2016)

**Collaboration Expanding**  
(MSIP)

**ITTP 2.0**  
(2008-2012)

**Collaboration Building**  
(MKE)

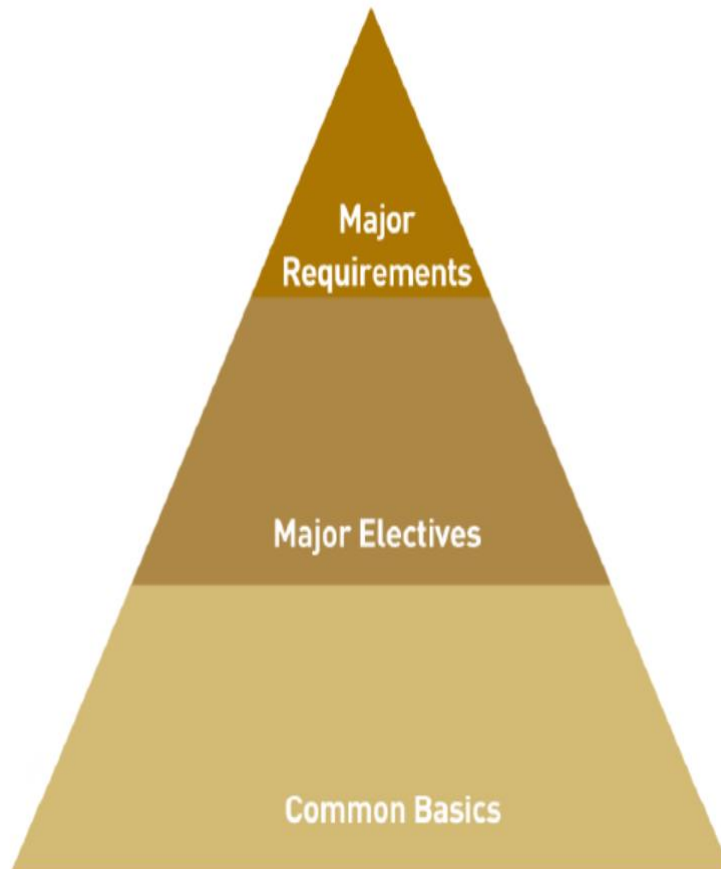
**ITTP 1.0**  
(2006-2007)

**Program Building**  
(MIC)

**Next 10 Years**

## Features of Program\_Education & Research

### Coursework



Major  
Require  
ments

- Introduction to the Latest IT Technology R&D in Korea
- Introduction to IT Technology Management / Policy in Korea

#### Engineering Track

- Wireless Communications in Korea
- Ubiquitous Computing in Korea
- Software Engineering in Korea
- BcN Technology in Korea
- Research Design and Methods for Engineers

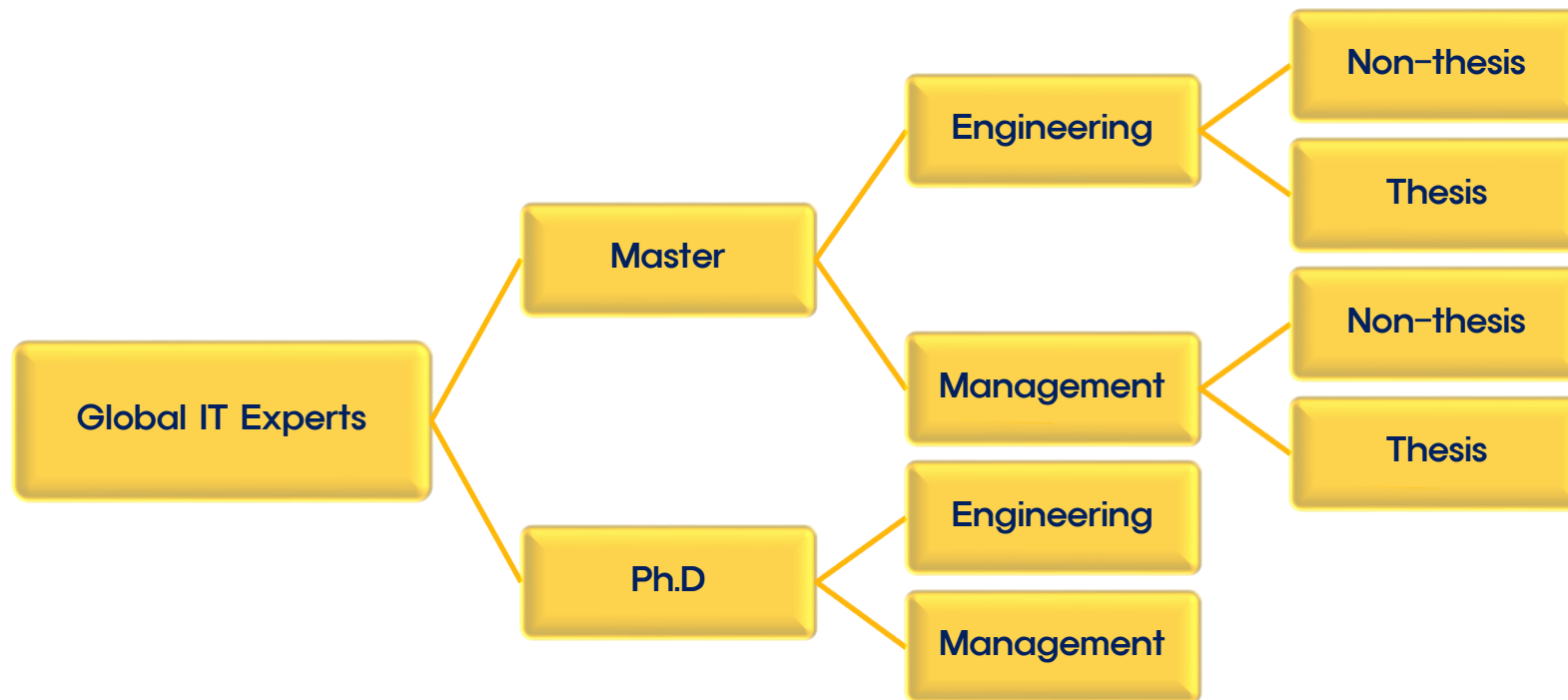
Major  
Electives

#### Management Track

- ICT Economics and Management
- Internet Business and Management
- Financial and Accounting Management in IT Industry
- IT Technology Management and Policy
- Digital Convergence Strategy
- IT Industry Research Design and Methods
- Method to Implement (e-Government) Project

## Features of Program\_Education & Research

### Degrees



- Master of Science in Information and Telecommunication Technology
- Master of Art in Information and Telecommunication Technology
- Doctor of Philosophy in Information and Telecommunication Technology(Engineering)
- Doctor of Philosophy in Information and Telecommunication Technology(Management)

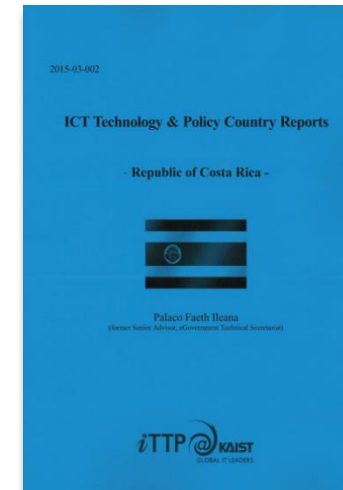
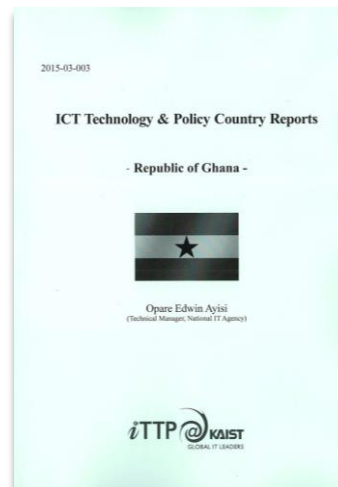
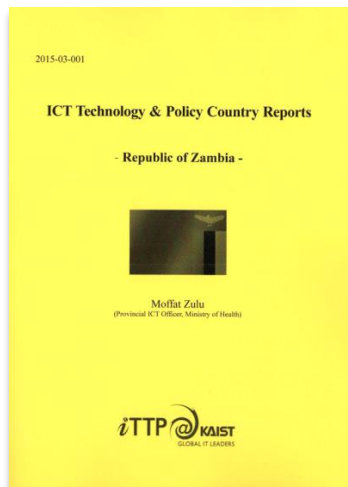


# IT Experts Invited Seminar

- Held 8 times per spring/fall semester
- Invite Korean IT professionals
- Provide network opportunities w/ Korean industries
- Cover a variety of practice topics



# Country Report



- Basic but should be comprehensive
- One advisor and two committee members
- Include as much data, Information, knowledge, references as possible
- Don't copy too much from textbooks
- Summary of research paper/report

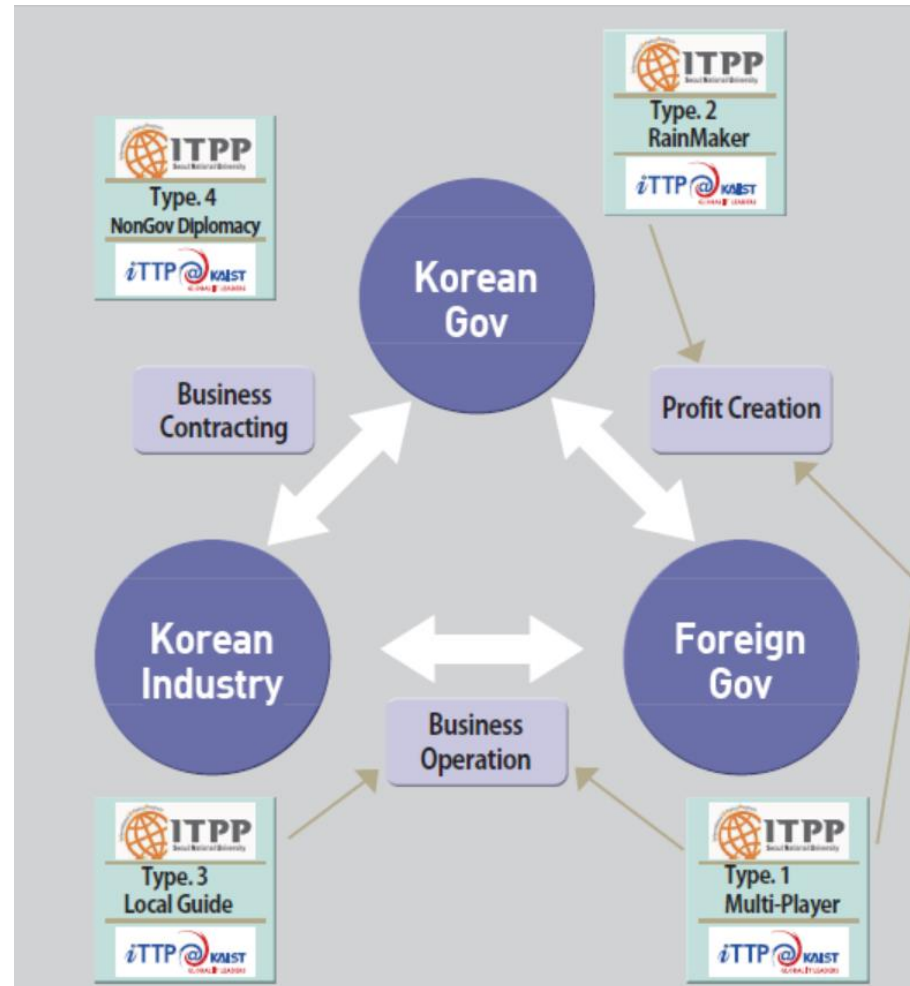
# Country Report

- **Case studies**
  - One world case
  - One Korean case
  - More than one ITTP country case
- One part for Korean IT field
  - Lessons learned, Best Practices

**CR will be your knowledge source for next ten years!**



## ITPP/ITTP 2.0 (2008~2012) : Collaboration Building Period



## 4 Types of the Players





## Features of Program Collaboration Activities

### BOCP

# Business Opportunity Creation Project (BOCP)

- Provide opportunities for ICT business creation with enterprises and institutes
- 2-3 weeks program during vacation(summer&winter)



기업밀착형 인턴십 결과 보고서	
<div style="display: flex; justify-content: space-between;">   </div> <p style="text-align: center;">Concept Note</p>	
<p><b>1. Title of Proposed Project</b> Government Citizens Interaction Center</p>	
<p><b>2. Organization</b> The National Information Technology Authority - Uganda (NITA-U) is an autonomous body that was established under an Act of Parliament in 2009, with the overall mandate of coordinating, promoting and monitoring information Technology development within the context of national social and economic development. NITA-U further provides technical guidance in the establishment of e-government in the different Ministries, departments and agencies (MDAs).</p>	
<p><b>3. Project Background</b> The government of Uganda's (GOU) intervention in ICT has led to the rapid growth of e-Government in the form of Government to Government (G2G), Government to Business (G2B) and Government to citizens (G2C) with the aim of making the above interactions more friendly, convenient, transparent and inexpensive. Furthermore, NITA-U is rolling out several IT services across government like delivery of Internet bandwidth to MDAs and the Secured Messaging and Collaboration System. However, different MDAs are pressed for time and challenged with providing information and receiving and managing the entire process of requesting and receiving feedback from citizens. Timely and cost-effective communications between Government and Citizens is a critical aspect in service delivery. Idea generation and citizens participating in their governance. As indicated in figure 1 below, a majority of e-government service users are not aware of the available services while the degree of those satisfied with the current services is still very low.</p>	
<p style="text-align: center;">Figure 1: Degree of satisfaction of e-Government Service Users</p>	

## Features of Program Collaboration Activities

### IT/SW Workshop

# Industry Collaboration W/S with IT-SW Industry(ITSA)

- Provide networking opportunities with Korean ICT enterprises and institutes
- Two times per year(April&October)



posco  
ICT

ncia  
정부통합전산센터  
National Computing & Information Agency

ETRI  
한국 전자통신연구원  
Electronics and Telecommunications Research Institute

LG CNS

Siriussoft

## Features of Program Collaboration Activities

### ARCS

# Alumni Requested Collaboration Study(ARCS)

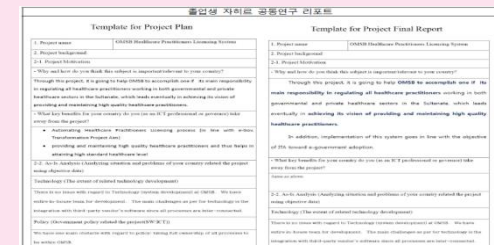
- Provide opportunities for collaboration research to ITTP alumni with Korean ICT Enterprises and Institutes
- Aim to solve problems in the ICT related fields in the emerging countries

## Building Smart City to Leverage Open Innovation in Tunisia



**Hend Ben Hadji**  
(Head of Innovation and Digital Services Unit,  
CERT)

## OMSB Healthcare Practitioners Licensing System

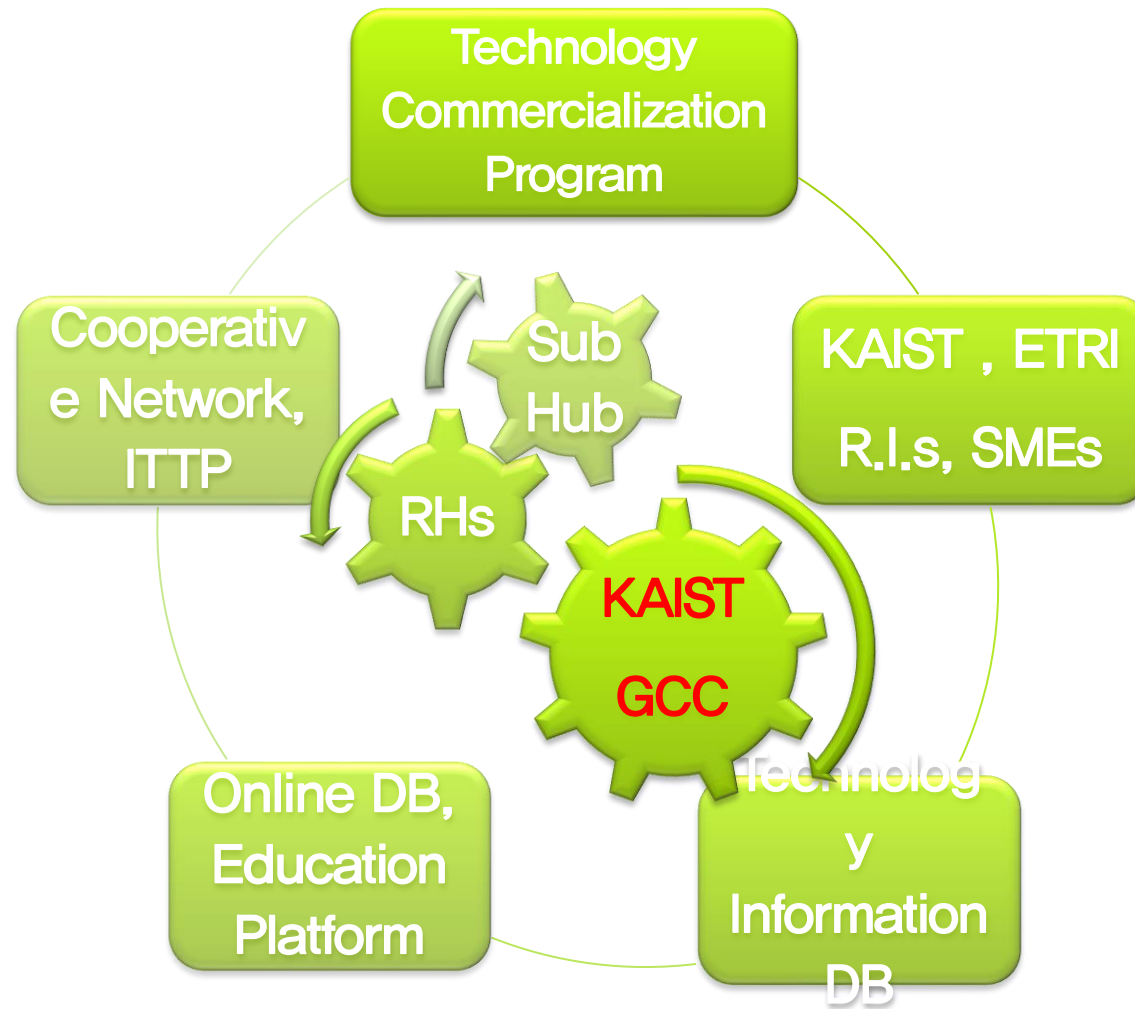


**Zahir Suleiman Marhoon Al-Abri**  
(IT Director, Oman Medical Specialty Board)

## Features of Program Collaboration Activities

# GCC(Global Commercialization)

GCC





## ITPP/ITTP 3.0 (2013~ ) : Collaboration Expansion Period

### Global Technology Commercialization

# Global Technology Commercialization

- Aim to accomplish global commercialization of Korean ICT, Science and Technology for developing countries
- Construct a global cooperative network between Korea and developing countries to provide a systematic support system



## Features of Program Collaboration Activities

GCC

# Global Commercialization W/S • Conference

■ Activate education·business exchange for establishing global ICT collaboration network and capacity building for technology commercialization



## Features of Program Collaboration Activities

### Global ICT Seoul Forum

# Global ICT Seoul Forum

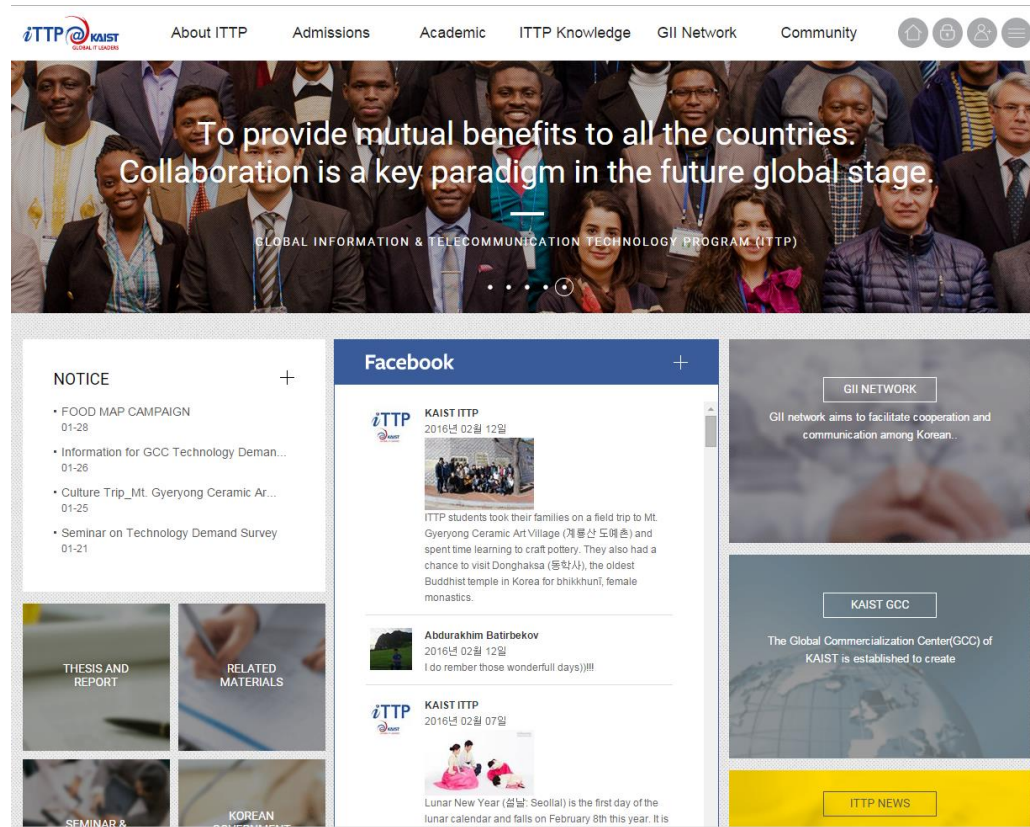
■ Making a platform for sharing vision, knowledge, experiences for further heightening the global collaboration among the stakeholders of ICT and creating synergies in Global ICT industry with emerging ICT driven countries





## Features of Program Network

### ITTP homepage



# ITTP Homepage (ittp.kaist.ac.kr)



## Features of Program Network

### GII Network



# Global ICT Innovation(GII) Network

## Features of Program Network

### GII Network

ITTP-ITPP fellows

Government

ICT Enterprises

EXPERT

ICT Experts

Join



Search for my interest

Easy to find your global partner through GII search engine.



“Search for my interest!!”

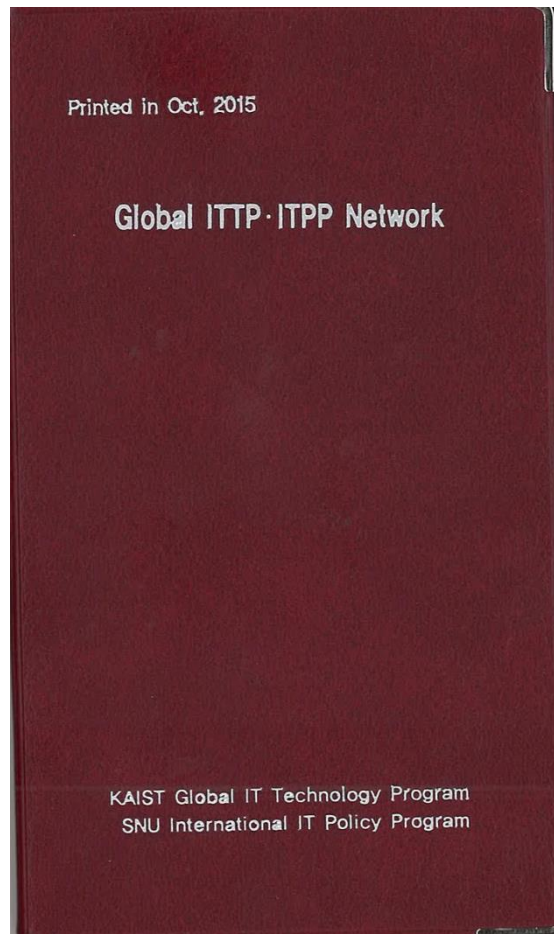
Ex) Costa Rica, PKI...

- ① Partner (fellows, related organization and company)
- ② Interesting fields
- ③ ICT Policy&market Information in emerging countries

## Features of Program Network

## Alumni Address Book

# Global ITTP-ITPP Network



	Country	Afghanistan
	Course	2007 ITTP Master Program
	Affiliation	Kabul University
	Position	Assistant Professor
	Phone	1749160321
	Mobile	
	e-mail	malvaqini@yahoo.com
Akmal Yaghini		Last update 2015, 10.

	Country	Afghanistan
	Course	2008 ITTP Ph.D Program
	Affiliation	KAIST
	Position	Adjutant Faculty
	Phone	82-10-5510-8071
	Mobile	
	e-mail	feroz@kaist.ac.kr
Gohar Feroz		Last update 2015, 10.

	Country	Afghanistan
	Course	2009 ITTP Ph.D Program
	Affiliation	College of Engineering, SNU
	Position	Researcher
	Phone	
	Mobile	
	e-mail	eng.hassan@moc.gov.af
Hassan Mohammad		Last update 2014, 11.





## Features of Program Cultural Activities

### Korean&Taekwondo



- Korean Language
  - ✓ From beginner level to advanced level
  - ✓ Speaking, Reading, Grammar
  - ✓ Take 4 courses in the 1<sup>st</sup> year, 2 courses in the 2<sup>nd</sup> year
- Taekwondo Class

## Features of Program Education & Research

### Culture Tours&Industry Visits



- **Korean Culture and History**
  - ✓ From old dynasty to Modern Korea
  - ✓ Intensive discussion about development of Korea
- **Korean Culture Tour/Industry Visits**



## How to become a Global IT Leader

# Global IT Network

Networked with  
"Korean IT  
Experts"



Networked  
with "IT  
Officials from  
All of the  
World"

Become a "Global  
IT Leader" with  
Strong IT Human  
Network

Unprecedented &  
Unique Group !!

## How to become a Global IT Leader

# Global Collaboration



# What's in Common?



**Samuel Kamau WANJIRU**  
(Kenya, Japan)



**El Greco**  
(Greece, Italia, Spain)



**SON Masayoshi**  
(Japan, USA, Korea)





**“Some Journeys Change  
Mankind Forever”**

# World! Future! Together!

감사합니다!

Thank You!

Б а я р л

а л а а  
谢谢

Asante Sana!

شكرا

Gracias

Merci

Cam On

Terima Kasih

Prof. Jae Jeung RHO  
Director of ITTP, KAIST  
[jjrho@kaist.ac.kr](mailto:jjrho@kaist.ac.kr)

