

**2017**

# **KISTEP-ISTIC**

**S&T Innovation Training Program  
for High Level Policy Makers**

*“Strengthening STI Capacity for Inclusive Development:  
Korea’s Systematic Approach to National R&D Management”*



**13 – 17  
NOVEMBER  
2017  
SEOUL,  
KOREA**

Organized by:

Korea Institute of S&T Evaluation and Planning  
(KISTEP)

&

International Science, Technology and Innovation Centre  
for South-South Cooperation under the auspices of UNESCO  
(ISTIC)

**2017 KISTEP-ISTIC S&T Innovation Training Program for High Level Policy Makers**  
**“Strengthening STI Capacity for Inclusive Development:  
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**13-17 November 2017, Seoul, Korea**

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## **INTRODUCTION**

As Republic of Korea joined OECD DAC (Development Assistance Committee) in 2009, Korea became the only country that went through the transition from an aid recipient to a donor. Without resources and capital, this transformation and extraordinary economic rise in just a few decades was possible because of the advancement in science and technology. The Korean government has been making efforts to effectively support the national R&D system, and Korea Institute of Science and Technology Evaluation and Planning (hereinafter referred to as “KISTEP”) is one of the key players of this system. As a government-affiliated institute specializing in science and technology planning, coordination and R&D evaluation, KISTEP has been receiving many requests from developing countries for joint research projects, consulting and training programs to share knowledge and experience of development of Korea.

On 20<sup>th</sup> April 2009, the president of KISTEP Dr. June Seung Lee, and the chairman of the International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (hereinafter referred to as “ISTIC”) Governing Board, academican Dato’ Ir Lee Yee Cheong F.A.Sc, signed the agreement and confirmed the mutual intention of KISTEP and ISTIC to conduct the KISTEP-ISTIC S&T Innovation Training Program for High Level Policy Makers (hereinafter referred to as “KISTEP-ISTIC Program”). The contracting parties scheduled the execution of the KISTEP-ISTIC Program annually from 2009 to 2013. The 1<sup>st</sup> Phase of KISTEP-ISTIC Program successfully established the foundation for knowledge sharing and collaboration. Following the success of the 1<sup>st</sup> Phase, KISTEP and ISTIC agreed to enter into the 2<sup>nd</sup> Phase of KISTEP-ISTIC Program on 20<sup>th</sup> April 2013 for the next five years. The 2014, 2015 and 2016 KISTEP-ISTIC Programs were held in continuous efforts to enhance the capabilities of policy makers in developing countries and promote cooperation and joint growth.

*Phase I (2009 ~ 2013)*

	2009	2010	2011	2012	2013
Date	Nov 16-20	Nov 7-12	Nov 27-Dec 3	Nov 5-9	Nov 11-15
Venue	Seoul, Korea	Cairo, Egypt	Daejeon, Korea	KL, Malaysia	Seoul, Korea
Participants	19 participants 14 countries	31 participants 14 countries	22 participants 16 countries	23 participants 16 countries	25 participants 17 countries
Theme	S&T policy and management in general with Korean case examples	Strategic S&T management framework in terms of P.I.E.	P.I.E. framework and its applications to emerging technology areas of 5T	S&T P.I.E. framework focusing on foresight, policymaking and evaluating	P.I.E. framework and its application to green technologies

*Phase II (2014~ )*

	2014	2015	2016
Date	Dec 8-12	Nov 23-27	Sep 26-30
Venue	Melaka, Malaysia	Seoul, Korea	KL, Malaysia
Participants	25 participants 18 countries	22 participants 17 countries	20 participants, 16 countries
Theme	P.I.E. framework and government policy in S&T	Sharing the progress of Korea and systematic management with P.I.E. framework	Building national STI capacity for joint growth: Sharing the experience of Korea and systematic S&T management

## **PURPOSE**

The purpose of this program is to enhance the capabilities of high level policy makers from developing countries by presenting the experience of Korea. This program covers topics from Korea's nationwide science and technology (S&T) policies to techniques for P.I.E. (Planning, Investment, Evaluation) which are beneficial for S&T policy makers and give a guide to improve the developing countries' S&T capacity. To offer a practical and comprehensive instruction, interactive workshop including the analysis of each country's innovation capacity and discussion will be conducted during the program.

## **COMPONENTS AND MODES OF DELIVERY**

The training programme will be delivered by using the combinations of the following methods:

- Series of lectures.
- Interactive Workshop: Challenge Report of S&T.
- Case Studies.
- Study visit to selected company.

## **MEDIUM OF INSTRUCTION**

The training workshop will be conducted in English.

## **CRITERIA OF PARTICIPANTS**

A total of 20 participants from developing countries (S&T policy makers from governments of developing countries and government funded research institutions) will be selected to attend the training programme. The combination of participants from developing countries will allow for the exchange of knowledge, ideas and experiences as well as opportunities for discussions, networking and possible collaboration.

Participants should be holding senior position such as **Vice Minister, Director General or Secretary General / Assistant Minister** of Ministry of Science and Technology or Organization responsible for Science, Technology and Innovation from developing countries.

## **TIME AND VENUE**

The training program will be held for 5 days at Seoul, Korea on November 13-17, 2017.

## **ORGANIZERS**

### **Korea Institute of S&T Evaluation and Planning (KISTEP)**

As a government affiliated research institute under the MSIP (Ministry of Science, and ICT and Future Planning), KISTEP has been one of the leading institutes in providing future vision and strategies, as well as promoting technology innovation. KISTEP supports the full cycle of Korea's national R&D system, including S&T planning, budget allocation and coordination, and R&D evaluation. The major functions of KISTEP include:

- Foresight and Future Strategies in S&T
- S&T Policy Planning and Coordination
- Feasibility Study on Government R&D Programs
- Budget Allocation and Coordination of Government R&D Programs
- Evaluation of Government R&D Program Performance
- Global Cooperation and Collaboration

### **International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC)**

The International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC) was established on 21 January 2008 and is based in Kuala Lumpur. The creation of the ISTIC is a follow up of the Doha Plan of Action which has been adopted by the Heads of States and Government of the Group of 77 and China, during the meeting in Doha, Qatar, from 12 to 16 June 2005 on the occasion of the Second South-South Summit of the Group of 77 (G77).

ISTIC is fully funded by the Government of Malaysia. One of the main function of ISTIC is to develop and implement science, technology and innovation development program for members of G77 and China targeted at facilitating the integration of national science, technology and innovation policies, capacity building, exchange of experiences and best practices, and creating a problem-solving network of centres of excellence in developing countries.

## TENTATIVE PROGRAM

	11.13 (Mon)	11.14 (Tue)	11.15 (Wed)	11.16 (Thu)	11.17 (Fri)
9:00~9:30	Opening Ceremony	S&T Human Resource	Measuring S&T Innovation Capacity	Special Lecture	Country Report (1)
9:30~10:30	Introduction to ISTIC Introduction to KISTEP				
10:30~11:00	Break	Break	Break	Break	Break
11:00~12:30	Experience of S&T Development and R&D Governance System in Korea	Feasibility Study	National S&T Information Service	Special Lecture	Country Report (2)
12:30~14:00	Lunch	Lunch	Lunch	Lunch	Lunch
14:00~15:30	Technology Foresight	R&D Budget Allocation & Coordination	Study Visit	Cultural Experience	Group Discussion
15:30~16:00	Break	Break			Break
16:00~17:30	S&T Master Plan	R&D Program Evaluation			Wrap-up Discussion and Closing Ceremony
17:30~18:00	Wrap-Up	Wrap-Up			

\* Note: This schedule may be subject to change



## **DESCRIPTION OF KEY SESSIONS**

The 2017 KISTEP-ISTIC Program comprises five modules, which are designed to provide a comprehensive and in-depth overview of Korea's S&T management model, and help maximize the capacity of participants in S&T policy decision-making. The diversity created by the combination of modules enhances the delivery of the lecture content and encourage active participation.

### **Module 1: Experience of S&T Development and R&D Governance System in Korea**

Korea has experienced remarkable economic growth over the past five decades, which transformed a poverty-ridden agricultural country into one of the strongest economies in Asia. The national S&T strategy has served as one of the engines enabling the dramatic transformation. Korea began developing its S&T infrastructure in 1960s, when the Ministry of S&T was established to coordinate and support the S&T activities. Korea further promoted S&T as a source of national competitiveness in 1970s and 1980s. In recent years, Korea has been focusing on increasing efficiency of S&T efforts and expanding investments in basic sciences and fundamental research.

An introductory lecture will offer the participants a chance to see the milestones of Korea's development, and the role national S&T played as its driving force. Also, this module will provide an overview on the R&D governance system of Korea and major functions of KISTEP and ISTIC.

### **Module 2: Systematic S&T Management (P.I.E.)**

The concept of Planning, Investment, and Evaluation (P.I.E.) provides a systematic approach for S&T management. The P.I.E. works as a cycle, whose goal is to set the national S&T priorities, devise strategies and implement them in an efficient way.

- Planning: performs technology foresight study to devise the future S&T strategy and contributes to the decision-making process in S&T policy planning and coordination.
- Investment: conducts preliminary technological assessment and feasibility studies on new large scale government R&D programs and provides the outlays of government budget allocation and coordination for strategic investment in government R&D programs.
- Evaluation: evaluates the performance of national R&D programs and government-funded research institutes and analyzes R&D investments in public and private sectors.

This module will provide insight into the key aspects of P.I.E. framework by introducing related activities and examining case studies.

### **Module 3: Special Lectures**

This module includes special lectures delivered by invited speakers. The module will provide thought-provoking lectures covering a wide range of topics related to STI such as economic growth, rural development and innovation clusters.

### **Module 4: Study Visit**

In addition to the lectures, the program includes an opportunity to visit S&T research institutes or innovative companies. Study visit will include short tours, Q&A sessions and discussion. The study visit sites will be selected after discussion among representatives of KISTEP and ISTIC. This module will provide the context for the innovation ecosystems and help participants better understand various development approach and strategies taken by different entities of innovation system.

### **Module 5: Interactive Workshop**

This module will engage the participants actively by presentation and group discussion. Each participant will submit a Country Report (Box 1) and will share the current issues and challenges of national S&T system in their respective countries. The participants will then discuss common challenges based on their presentations and identify policy solutions to the challenges. The module will facilitate networking and in-depth discussion among participants.

#### **Box 1: Country Report**

##### **1. Overview of S&T Policy**

- Administrative framework of S&T policymaking
- National long-term plans for S&T development

##### **2. Analysis of National Capabilities**

- National S&T and R&D indicators
- Strengths and weaknesses of S&T capacity

##### **3. Main Issues in S&T**

- Challenges faced in S&T development
- Measures taken to address major issues

##### **4. Future Plans for Discussion**

- Future plans and goals for advancement in S&T
- S&T policy directions to address main issues



## **TRAVEL & HOSPITALITY**

The organizer will provide the local hospitality (accommodation and meals) to qualified international participants who are selected to attend this training program. Participants are however required to seek travel grant from their organizations to pay their travel expenses to Seoul, Korea. Limited travel grant from organizer is available for participants based on merit and need on case by case consideration.

For those participants who are willing to pay their own airfare, the organizer is agreeable to pay for their hotel accommodation and local cost.

## **APPLICATION AND ENQUIRIES**

Applicants are urged to use online application. The link of online application form can be accessed from the link <https://goo.gl/RCm4YP>. All applicants are required to submit the recommendation letter and C.V. to [info@istic-unesco.org](mailto:info@istic-unesco.org).

## **CLOSING DATE OF APPLICATIONS**

All applications should be submitted **before 4 September 2017**. The organizer will inform successful applicants to the training program **not later than 21 October 2017**. Applicants who do not receive word within this date are consider unsuccessful.

## **GENERAL INFORMATION**

### **Visa Application**

Participants from countries that require visa to Korea should get it before leaving home. To apply for visas, participants will be requested by the Korean Embassy or High Commission to submit a letter of invitation. The organizer will send an invitation letter as soon as possible to each accepted overseas applicant.

### **Contact information**

For further information, please contact ISTIC Secretariat:

#### **Secretariat**

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