

2019 Course Information

ACHIEVING EFFECTIVE TRANSPORTATION USING ITS



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People, Peace, Prosperity

KOICA

Korea International
Cooperation Agency

Korea International Cooperation Agency (KOICA) was established as a government-funded agency dedicated to grant aid programs in April 1991. KOICA strives to combat poverty and support sustainable socio-economic growth of developing countries. By doing so, we aim to promote friendly and cooperative relationship with them.



DEVELOPMENT COOPERATION AGENCY OF THE KOREAN GOVERNMENT

KOICA is an organization responsible for 26% of the entire ODA (Official Development Assistance) in Korea based on the 2018 business plan, and is Korea's leading agency responsible for approximately 60% of grant aid. The scale of aid from KOICA, which was about 17.4 billion KRW in 1991, increased significantly to 800 billion KRW in 2018. This followed the admission to the Development Assistance Committee (DAC), along with the ODA contribution diplomacy policies of the Korean government which aims to make contributions to the international community.

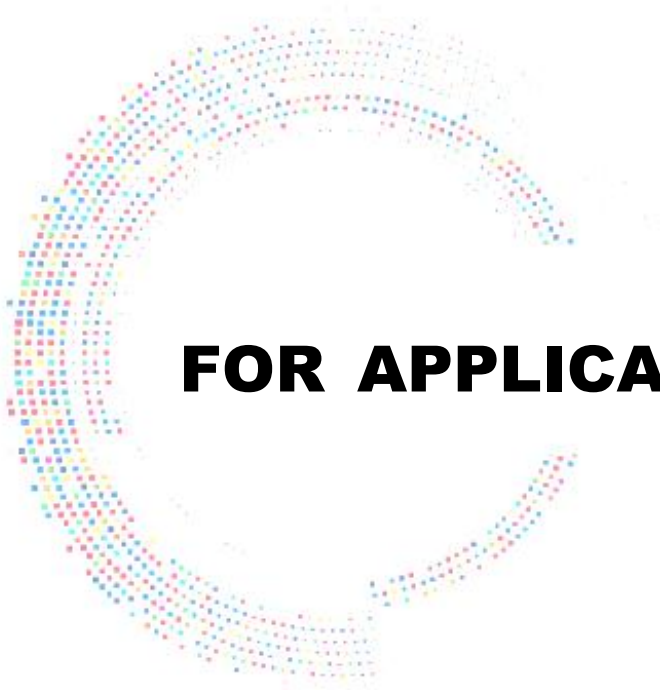


KOICA Fellowship Program, CIAT

Like its acronym that sounds like "seed" in Korean, CIAT hopes to spread seeds of hope across developing countries. CIAT is a cooperation program where policy-makers, public servants and experts from developing countries are invited to Korea for technical training and knowledge sharing. CIAT has established partnerships with a multitude of



public organizations, research institutes, universities and others in Korea to offer quality training programs. Such efforts have resulted in a high level of satisfaction among participants. After returning to their home countries, CIAT participants play a role in spreading Korea's commitment and goodwill towards their society.



FOR APPLICANTS

PROGRAM OVERVIEW

TITLE: Achieving Effective Transportation Using ITS

DURATION: 2019-2020

GOAL

- To strengthen individual capacity in the ITS field
- To improve citizens' lives by solving traffic congestion through the introduction of ITS and constructing convenient public transportation system
- To provide a basis for introducing ITS through global training program and providing systematic support for the countries to build sustainable transportation infrastructure

	FIRST-YEAR COURSE (2019)	SECOND-YEAR COURSE (2020)
TARGET GROUP	<ul style="list-style-type: none"> · Middle level managers in charge of ITS/ transportation in each country - Decision makers related to development of ITS and traffic policy of each country's Ministry of Transport - Head of the main traffic center (decision maker) - Financial officer in each country 	<ul style="list-style-type: none"> · Middle level managers in charge of ITS/ transportation in each country - ITS project manager - ITS and traffic operator - ITS software developer
OBJECTIVES	To understand the necessity of ITS and learn how to set the institutional foundation for introducing ITS such as law, budget and master plan based on Korea's experience	To contribute to solving traffic problems facing each country through the monitoring of the Action Plan implemented in the first year, invitational workshops for strengthening the capacity of ITS professionals, and the revision of the Action Plan
ACTIVITIES	Invitational Training (3 wks)	<ul style="list-style-type: none"> · Action Plan monitoring · Invitational Training (3 wks) · Extension and Modification of Action Plan
OUTPUT	Action Plan	Revised action plan to implement ITS policies to improve traffic flow in major cities

(Selecting a good Action Plan and implementing on-site program)

Accomplishing the program's goals through capacity building and contributing to sustainable socio-economic development of developing countries

COURSE OVERVIEW

1. OBJECTIVES

- 1) To understand the concept, background and necessity of ITS introduction in Korea
- 2) To learn Korea's strategies including laws and policies to effectively deploy ITS in Korea nationwide
- 3) To learn individual ITS services in aspect of technology - Advanced Traffic Management Systems, Bus Information System, and Electronic Toll Collection System, etc.
- 4) To learn the recent technological developments in ITS
- 5) To exchange the statistical facts and ideas on urgent issues facing each country and explore customized solutions to deal with those problems

2. COURSE DURATION

- (Invitational Training) August 4.(Sun) - August 24.(Sat), 2019 (including participants' arrival and departure dates) * Training Duration: August 5. (Mon) - August 23 (Fri)

3. LANGUAGE: English

4. LOCATION

- 1) Training: KOICA (Seongnam) & ITS Korea (Anyang), South Korea
- 2) Accommodation: KOICA International Cooperation Center (Seongnam)

5. PARTICIPANTS: 20 persons

- Egypt(2), Tajikistan(2), Azerbaijan(2), Peru(2), Tanzania(2), Uganda(2), Indonesia(2), Nigeria(3), Laos(3)

ELIGIBILITY REQUIREMENTS	
M A N D A T O R Y	<ol style="list-style-type: none"> 1. Be nominated by his / her government 2. Have sufficient proficiency in English to be able to understand the lectures 3. Be a government employee in a managerial position with at least 3 years of working experience in transport / ITS / administrative budget allocation 4. Be in good health both physically and mentally, enough to take the course 5. Show a high level of participation and commitment throughout the course to promote capacity building in intelligent transportation
P R E F E R A B L E	<ol style="list-style-type: none"> 6. Be able to contribute to the strengthening of transportation capacity of each country after returning home
R E C O M M E N D E D	<ol style="list-style-type: none"> 7. Have not participated in the same or similar KOICA Fellowship Program for the past three years, unless otherwise specified; (provided, however, that a key person for the course of the intensive performance management program, for example, may participate in the same or similar KOICA Fellowship Program, subject to pre-discussion with KOICA.)

※ This course is targeted at participants meeting the above qualifications, and thus ineligible participants, if any, may have difficulty understanding the course.

6. CURRICULUM

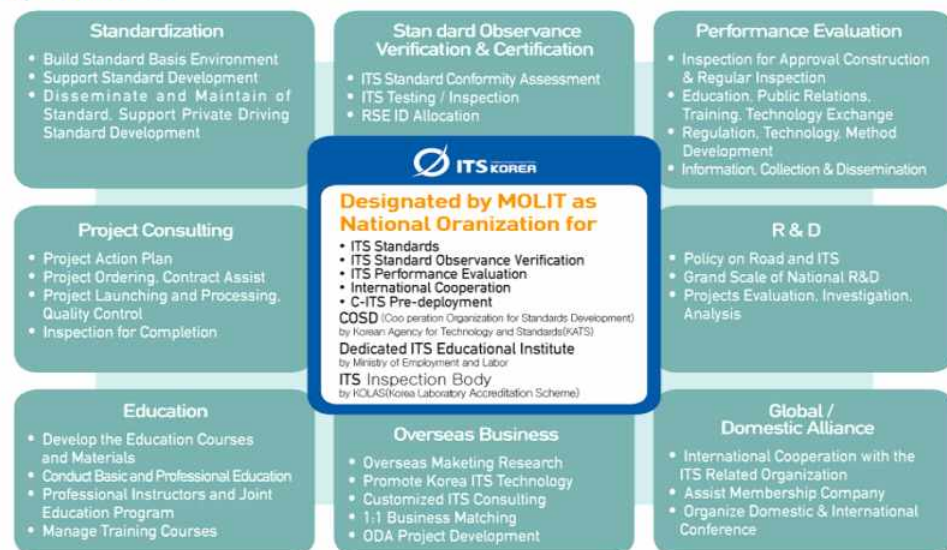
MAIN LECTURES & DISCUSSIONS	STUDY VISIT
Module 1. Overview of ITS in Korea	
<ul style="list-style-type: none"> · ITS status in Korea · ITS national policies and plans · ITS standards and architecture · ITS performance evaluation · Understanding of ITS business process 	
Module 2. ITS Technologies in Cities	
<ul style="list-style-type: none"> · Major ITS Services in Korea <ul style="list-style-type: none"> - BIS (Bus Information Systems) - ETCS (Electronic Toll Collection Systems) - Medejun ITS Master Plan · Traffic Management Policy in Seoul 	<ul style="list-style-type: none"> · LG CNS · Seoul TOPIS · Anyang u-Traffic Center · Busan Traffic Center · Samwon FA
Module 3. Major ITS Service	
<ul style="list-style-type: none"> · Expressway ITS system · Traffic signal and signal control systems · WIM (Weigh in Motion) system · Parking Information System · ITS business process 	<ul style="list-style-type: none"> · Korea Expressway Corporation Traffic Center · National Transport Information Center
Module 4. Future ITS Technology	
<ul style="list-style-type: none"> · C-ITS · Cooperative Autonomous Driving in Korea 	<ul style="list-style-type: none"> · C-ITS Demonstration · K-City autonomous driving test bed
Module 5. Reporting by Country and Action Plan Establishment	
<ul style="list-style-type: none"> · Reporting by Country <ul style="list-style-type: none"> - Traffic situation and problems in each country - Suggested measures to solve problems - Difficulty in implementing measures · Establishing action plan <ul style="list-style-type: none"> - Goal: Detailed planning of country or city for ITS construction <ol style="list-style-type: none"> ① Investigation of traffic and existing ITS system ② ITS implementation goal and direction setting ③ Korea ITS benchmarking and selection of ITS service priority ④ Establishment of step-by-step system construction and management plan through roadmap 	
EXTRACURRICULAR ACTIVITIES	
<ul style="list-style-type: none"> · Seoul and Busan City Tour (www.visitseoul.net) · Gyeongju Cultural Experience 	

7. TRAINING INSTITUTE : ITS Korea (<https://itskorea.kr/english/main.do>)

Introduction

ITS KOREA (Intelligent Transport Society of Korea) was established in year 1999 to leverage Korea's advanced ITS technologies to drive new global trend of ITS products and services. As the bridge for private and public sectors and academia, ITS KOREA is open to digest the industrial opinion, to propose the policy and to promote ITS business, propose R&D and many other activities to boost up the industry.

Main Tasks



Organization Chart

- 80% are the engineers majoring in transport
- Non-profit organization at the national level
- To coordinate the development and deployment of ITS in Korea
- Number of members : Public 66EA, Private 118EA (May, 2018)

Number of Employee : 72



HOW TO APPLY

APPLICATION DEADLINE: July 10, 2019

Step 1. CHECK OUT COURSE INFORMATION

- Applicants must check Program Overview and Course Overview details to see if the course they apply for is relevant to their work and they meet the qualifications for selecting participants.

Step 2. FILL OUT AND SUBMIT AN APPLICATION.

- After filling out an application, applicants must submit it no later than the deadline.

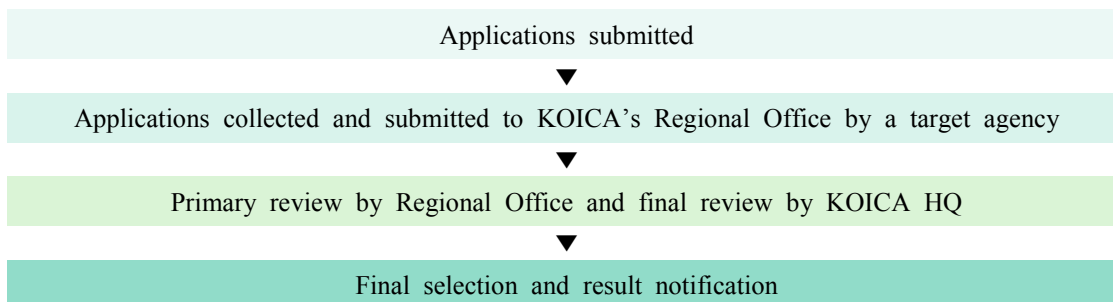
※ Instructions for filling out an application ※

- 1) Fill in all entries in the application form, including email address and medical records, **accurately and without omission.**
(The selection process of qualified applicants will start based on the information provided)
- 2) Applicants are required to fill out an application clearly and legibly.
(The course application result or follow-up activities after completion of the course will be notified to the email address an applicant gives in the application)
- 3) Make sure to submit all the documents required for application.
(ex, Passport, Medical Reports etc.)

Step 3. SELECTION RESULT NOTIFICATION

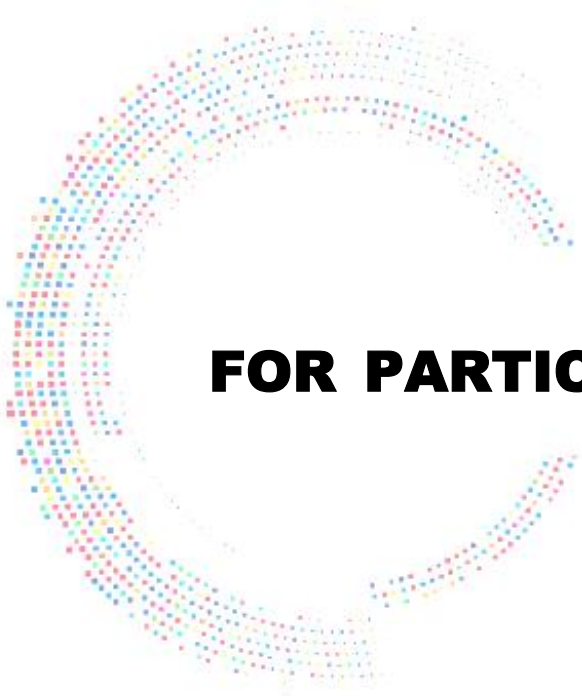
- KOICA headquarters will notify finally selected candidates to their email address.

※ Overview of the Selection Process ※



< Information for Successful Candidates >

- Successful candidates are required to submit Country Report no later than the deadline (For details, see the next page).



FOR PARTICIPANTS

PARTICIPANTS' MAJOR ACTIVITIES

All participants are requested to establish and present an Action Plan towards the end of the program. The Action Plan is one of the crucial program activities to which KOICA gives top priority. It is intended, firstly, to help program participants to come up with alternatives and solutions to the current issues and major challenges which participants' country/government/organizations are facing and, secondly, to plan what action participants should take in order to solve those challenges.

For a successful Action Plan, **the first step is to prepare a Country Report.** In preparing a Country Report before joining the KOICA training course, participants will have an opportunity to analyze their own countries' current issues and challenges as well as circumstances surrounding them. Preparation and presentation of a Country Report is part of the Action Plan building process in which participants will be involved throughout the program.

The second step is to build an Action Plan. With the Country Report in mind, participants are encouraged to develop an Action Plan by incorporating the observations, experiences, and findings from the program, specifically from lectures, discussions, study visits, or local field trip. During the Program Orientation Session, the Action Plan guidelines, including a PPT template for presentation, will be provided to participants with instructions on how to formulate concepts and ideas for composing a practical and feasible Action Plan.

The third step is to implement the Action Plan. After going back to their home country, participants should implement the Action Plan according to its specifics and timeline. Participants are advised to do follow-up activities such as knowledge-sharing workshops or presentations with colleagues.

	STEP 1	STEP 2	STEP 3
WHO	Participants individually or as a group		
WHEN	Before program	During program	After program
WHAT	Country Report	Action Plan	Follow-up activities
HOW	Preparation and presentation	Establishment and presentation	Implementation
WHY	To analyze each country/organization's current status and problems focusing on the program theme	To provide solutions to the identified problems and issues in the Country Report	To apply participants' Action Plan to work & share knowledge with colleagues

[STEP 1] COUNTRY REPORT

1. WHAT IS COUNTRY REPORT?

A Country Report is a pre-assignment prepared and submitted by participants before the course starts. Participants analyze their own countries' current issues and challenges as well as circumstances surrounding them, and share the findings with other participants and Korean experts in an effort to provide solutions to the identified problems and issues for their own countries.

2. HOW AND WHAT TO PREPARE

Participants are requested to prepare the Country Report individually or as a group and must submit it by the deadline specified below, so that it can be shared by lecturers in advance, before the program starts and also by fellow participants, moderators, discussants and Korean experts during the program in an effort to provide solutions to the identified problems and issues.

By when	July 19, 2019
In what format	Microsoft PowerPoint (in English)
To whom	Program Manager Sue Park / hspark@itskorea.kr
Which contents?	<p>Chapter 1. General Features of the Country</p> <p>(1) Territory (Km²) /total population, number of registered vehicles, total road length (Km), road pavement ratio (%)</p> <p>Chapter 2. Current Status of Transportation / ITS in the Country</p> <p>(1) Total budget of the transportation sector</p> <p>(2) ITS business development and promotion procedure, role of transportation station</p> <p>(3) Transportation / ITS related law & regulation & organizations (If any)</p> <p>(4) ITS infrastructure status by sector</p> <p>Chapter 3. Problems and Challenges Facing the Country</p> <p>(1) Based on reviewing the current status, identify the problems and challenges that the city is experiencing and actions taken to resolve them</p> <p>Chapter 4. Transportation & ITS Projects List</p> <p>(1) Completed ITS projects - Project Name, Period(year), Amount (USD)</p> <p>(2) Ongoing ITS projects - Project Name, Period(year), Amount (USD)</p> <p>(3) Planned ITS projects - Project Name, Period(year), Amount (USD)</p> <p>* The topics of Chapters 3 and 4 will be covered in the Action Plan.</p>

3. COUNTRY REPORT PRESENTATION

Each presentation should take no longer than 15 minutes or so, and use an adequate number of slides, or maximum 20 pages, with consideration of time constraints. Each Country Report presentation will be followed by a question and answer session which includes feedback from Korean experts. For more effective presentations, a projector, slide projector, overhead projector or multimedia TV will be available for use.

[STEP 2] ACTION PLAN

1. WHAT IS ACTION PLAN?

An Action Plan is a plan intended to help program participants provide alternatives and solutions to the issues and problems that are identified in the Country Report. A good Action Plan entails who will do what, when, and how in detail. Since the Action Plan's feasibility is very crucial, participants should thoroughly discuss with their supervisor(s) whether or not the main topic and direction are viable in advance.

Based on the observations and findings from the lectures, discussions, study visits, and a local field trip in Korea, participants will be asked to create an Action Plan in accordance with the Action Plan Guidelines to be provided. A session for developing and building the Action Plan will be held and the Action Plan guidelines will be provided to participants with instructions on how to formulate concepts and ideas for composing a practical and feasible Action Plan.

※ Note ※

- 1) Participants joining a second or third year course without attending the previous course or courses are required to review and understand the Action Plans by other participants in such course or courses in advance.
- 2) Participants may improve or develop the previous year's Action Plan, or build another Action Plan with a new topic.

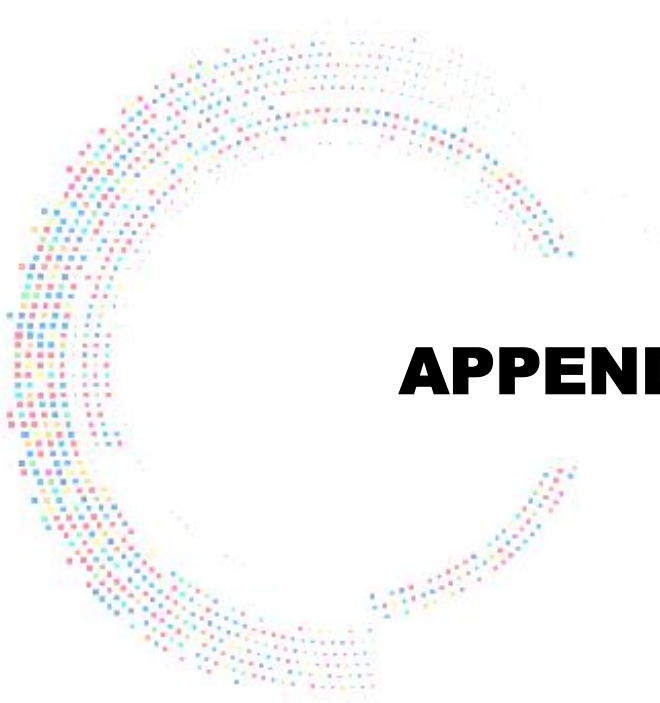
2. ACTION PLAN BUILDING PROCESS



- Applying knowledge acquired through lectures, study visits and discussions and working on measures to solve the issues or problems identified in the Country Report from various angles
- Building specific solutions as well as implementation plan together with a moderator during an Action Plan workshop

[STEP 3] FOLLOW-UP ACTIVITY

ACTION PLAN & PILOT PROJECT	Sharing the implementation status of the Action Plan with the training institute and KOICA (See Appendix: Contact) (An exemplary Action Plan is selected and financed by the training institute as a pilot project for implementation of the Action Plan)
KNOWLEDGE SHARING ACTIVITIES	Promoting knowledge sharing activities such as workshop and presentation to share knowledge acquired during the program and the Action Plan
ESSAY COMPETITION	Joining an essay competition held late in the year
KOICA CLUB ACTIVITIES	Taking part in an array of activities including joining KOICA Clubs in each country and community service after completion of the program
ONLINE NETWORKING	<p>Visiting KOICA Fellowship Community and continuing networking</p>  <p><i>facebook.com/koica.icc</i></p>



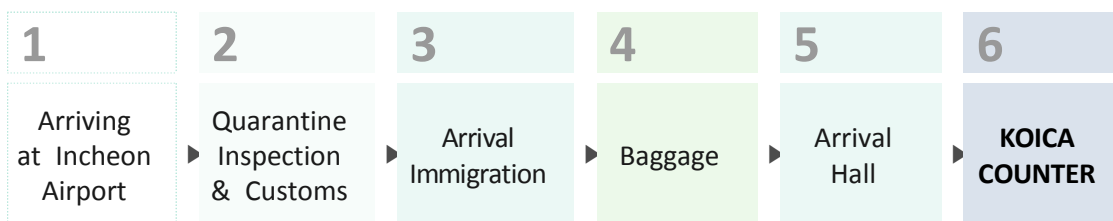
APPENDIX

CONTACT

<div> <div>KOICA</div> <div>Training Institute</div> </div>	+82-1899-4519 (CIAT Program HOT Line) http://www.koica.go.kr http://www.facebook.com/koica.icc	
	Program Manager Mr. Bansuk KIM +82-31-740-0535 kbs@koica.go.kr	CIAT Fellowship Program pilot project follow-up activities
	Program Coordinator Mr. Youngkwang PYO +82-31-777-2848 pyk7684@koworks.org	Arrival/departure-related issues
	Program Manager Ms. Sue Park +82-31-478-0411 hspark@korea.kr http://www.itskorea.kr	Course contents - Curriculum, lecture, lecturer, Country Report & Action Plan

FROM AIRPORT TO ICC

✈ AT AIRPORT [Arrival Procedures]



※ KOICA will provide the Immigration Office at the Incheon International Airport with a list of participants' names, nationality, flight schedules, and other information regarding the Fellowship Program before arrival. Participants are advised to carry the **invitation letter** in which their status is written, and show the letter to the Immigration Officer in case the Officer asks for further identification.

KOICA COUNTER

To ensure that you receive appropriate help to safely get to the KOICA International Cooperation Center(ICC), two KOICA Counters are in service at each Terminal. At the KOICA Counter, KOICA staff will arrange your ride to the KOICA ICC.

AT INCHEON INTERNATIONAL AIRPORT TERMINAL 1 (IIAT 1)



Location

Next to Gate 1
(Counter No. 9-10)

Contact Info

Ms. Jin-Young YOON
Tel. : 82-32-743-5904

AT INCHEON INTERNATIONAL AIRPORT TERMINAL 2 (IIAT 2)



Location

In front of Gate 4
(Close to Arrival Gate B)

Contact Info

Ms. Seung-Young YAU
Tel. : 82-32-743-5905

Capacity Enhancement Program Department
Korea International Cooperation Agency

ICC Center, 825 Daewangpangyo-ro, Sujeong-gu, Seongnam-si,
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