ITS KOREA
Right in the core of ITS industry in Korea, Reaching out to a World of Tomorrow
ITS Korea

- Established in 1999
- Non-profit organization at the national level
- To coordinate the development and deployment of ITS in Korea
- Number of members: Public 68EA, Private 119EA (March, 2019)
- Number of employees: 68
Main Tasks and Roles of ITS Korea

<table>
<thead>
<tr>
<th>Category</th>
<th>Tasks and Roles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Observance</td>
<td>ITS Standard Conformity Assessment, ITS Testing / Inspection, RSE ID Allocation</td>
</tr>
<tr>
<td>Verification &amp; Certification</td>
<td></td>
</tr>
<tr>
<td>Project Consulting</td>
<td>Project Action Plan, Project Ordering, Contract Assist, Project Launching and Processing, Quality Control, Inspection for Completion</td>
</tr>
<tr>
<td>R &amp; D</td>
<td>Policy on Road and ITS, Grand Scale of National R&amp;D, Projects Evaluation, Investigation, Analysis</td>
</tr>
<tr>
<td>Education</td>
<td>Develop the Education Courses and Materials, Conduct Basic and Professional Education, Professional Instructors and Joint Education Program, Manage Training Courses</td>
</tr>
<tr>
<td>Dedicated ITS Educational Institute</td>
<td>COSD (Cooperation Organization for Standards Development) by Korean Agency for Technology and Standards(KATS)</td>
</tr>
<tr>
<td>Dedicated ITS Inspection Body</td>
<td>ITS Inspection Body by Ministry of Employment and Labor</td>
</tr>
<tr>
<td>Designated by MOLIT as National Organization for</td>
<td></td>
</tr>
<tr>
<td>Overseas Business</td>
<td>Overseas Marketing Research, Promote Korea ITS Technology, Customized ITS Consulting, Business Matching, ODA Project Development</td>
</tr>
<tr>
<td>Global / Domestic Alliance</td>
<td>International Cooperation with the ITS Related Organization, Assist Membership Company, Organize Domestic &amp; International Conference</td>
</tr>
</tbody>
</table>
Footprints of ITS Korea

2002-2009 Foundation

- Designed as National Organization for ITS Standardization by MOLIT(’05)
- Designed as National Organization for ITS Standards Observance Verification by MOLIT(’05)
- Host International Workshops & Seminars
- Operate ITS Standards Assembly
- Host the 5th Seoul ITS AP Forum(’02)

2010-2013 Growth

- Designed as Exclusive National Organization for ITS Standard by MOLIT
- Designed as Cooperating Organization for Standards Development (COSD) by KATS
- Establish and Operate ITS Standards of Estimate
- Accredited as Statutory Body
- Host the 17th ITS World Congress in Busan, Korea(’10)
- Designed as National Organization for ITS Performance Evaluation by MOLIT(’10)

2011-Present Expansion

- Designed as National Organization for C-ITS Pilot Project for Local Governments by MOLIT(’14)
- Designed as National Organization for International Cooperation on ITS by MOLIT(’14)
- Accredited as KOLAS Inspection Agency for ITS Performance Evaluation
- Designated as Joint Training Center for Transportation / ITS by MOEL (Consortium for HRD Capacity Building Program)
- Designed as Exclusive National Organization for C-ITS Pilot Project by MOLIT

Stage 1 1998-2001 Introduction

- Establish the Long-term Development Plan for ITS Korea
- Establish ITS Korea as Registered Organization(’99)
- Host the 5th ITS World Congress, in Seoul, Korea(’98)

Stage 2 2002-2009 Foundation

- Designed as National Organization for ITS Standardization by MOLIT(’05)
- Designed as National Organization for ITS Standards Observance Verification by MOLIT(’05)
- Host International Workshops & Seminars
- Operate ITS Standards Assembly
- Host the 5th Seoul ITS AP Forum(’02)

Stage 3 2010-2013 Growth

- Designed as Exclusive National Organization for ITS Standard by MOLIT
- Designed as Cooperating Organization for Standards Development (COSD) by KATS
- Establish and Operate ITS Standards of Estimate
- Accredited as Statutory Body
- Host the 17th ITS World Congress in Busan, Korea(’10)
- Designed as National Organization for ITS Performance Evaluation by MOLIT(’10)

Stage 4 2011-Present Expansion

- Designed as National Organization for C-ITS Pilot Project for Local Governments by MOLIT(’14)
- Designed as National Organization for International Cooperation on ITS by MOLIT(’14)
- Accredited as KOLAS Inspection Agency for ITS Performance Evaluation
- Designated as Joint Training Center for Transportation / ITS by MOEL (Consortium for HRD Capacity Building Program)
- Designed as Exclusive National Organization for C-ITS Pilot Project by MOLIT
Project Management & Consulting

K-City Project (2018)
- Implementation of real road and traffic environment for safety evaluation of automated vehicles

C-ITS Pilot Project (2014~2020)
- Infrastructure deployment and effectiveness analysis
- Service and technology verification
- Legal system maintenance
- Standardization and Certification standard establishment

C-ITS Demonstration Project in Jeju (2018~2020)
- Development and Verification of service suitable for actual road traffic environment

Research & Development

Future ITS R&D including new technologies, equipment, services, etc.
- 2011~2016, Smart Highyway Project (Development of traffic operation technology based on smart road – IT)
- 2015~2020, Road system development based on LDM and V2X for cooperative automated driving
ITS Activities in Korea


- Period: 2013.08~2014.01 (6 months)
- Project: KDI School (Korea Development Institute)
- Project Client: Implementation: ITS Korea
- Objectives: Introduce development history of Korean Intelligent Transport Systems to developing countries
- Details:
  - Objectives and Achievements
  - Background and Necessity of the ITS in Korea
  - Strategies and Systems to Implement the ITS
  - Details of ITS Projects
  - Analysis of the Secrets of Successful ITS Projects
  - Implications for Developing Countries
https://intl.its.go.kr/promote/getBCboard
ITS Activities in Korea

2016 MOLIT Infra ODA Program:
The Master Plan for Intelligent Transport Systems for Medellin, Colombia

- Period: 2016.04~2016.12 (9 months)
- Budget: Approx. 677,000 USD
- Project Client: Ministry of Land, Infrastructure and Transport of Korea (MOLIT)
- Project Implementation: ITS Korea / Korea Expressway Corporation (KEC) / Tracom Co., Ltd.
- Objectives: Establishment of ITS Masterplan for Medellin, Colombia
- Details:
  - ITS Master Plan
    - Case study of ITS introduction in developed countries
    - As-is analysis on Medellin and Colombia
    - Strategies for ITS introduction in Medellin
  - ITS Basic Design
    - Suggestion of 9 projects for Medellin
  - ITS Invitational Workshop in Korea
ITS Activities in Korea

2018 MOLIT Infra ODA Program:
Urban Transport System Improvement Project in Medellin, Colombia

- Period: 2018~2020 (3 years)
- Budget: Approx. 1,250,000 USD
- Project Owner: Ministry of Land, Infrastructure and Transport of Korea (MOLIT)
- Project Implementation:
  - Designing Phase (1st year): ITS Korea / Korea Expressway Corporation (KEC) / Tracom Co., Ltd.
  - Implementation Phase (2nd~3rd year): TBD
- Objectives: Introduction of Integrated ITS Center & Advanced Traffic Management Systems in Medellin, Colombia
- Details:
  - Designing Phase: Preparation of strategies for deployment of planned services & detailed design of the services
  - Implementation Phase: Deployment of ITS services which are defined & designed in the ITS Master Plan and the designing phase
ITS Activities in Korea

Feasibility Study of
the National Standard-based Interoperable Automatic Fare Collection System in Philippines (2018)

- **Period**: 2018.11~2019.05 (6 months)
- **Budget**: Approx. 517,000 USD
- **Project Owner**: the Export-Import Bank of Korea (KEXIM Bank)
- **Objectives**: Building a fundamental for NIAFCS implementation for the Philippines
- **Details**:
  - Preliminary Design of NIAFCS Program
  - Preliminary Plan for Operation and Maintenance (O&M)
  - Cost Estimation, Financing, and Expenditure Plan
  - Feasibility Study
  - Capacity Building
KSP-EBRD Joint Consulting Project:
Implementing an Automated Fare Collection System for Public Transport in Cairo and Alexandria, the Arab Republic of Egypt

- Period: 2017.08.23~2018.04.23
- Financial Resources: The Export-Import Bank of Korea, European Bank for Reconstruction and Development (EBRD)
- Project Implementation: ITS Korea, STraffic
- Objectives: Strengthening the Competitiveness of Alexandria and Cairo through Introduction of Automated Fare Collection System (AFC)
- Details:
  - Analysis on Current Status of Fare Collection System in Cairo and Alexandria
  - Case Study on Korea’s Experience on Developing AFC System
  - Recommendations on Establishing AFC System through Comparative Study
  - Capacity Building Workshop in Korea
# ITS Activities in Korea

## KOICA Invitational Workshop 2015-2016

**Intelligent Transport System for Colombia**

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
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</thead>
<tbody>
<tr>
<td><strong>Period</strong></td>
<td>2015.05.10–24 (2 weeks)</td>
<td>2016.05.29–06.18 (3 weeks)</td>
</tr>
<tr>
<td><strong>Project Owner</strong></td>
<td>Korea International Cooperation Agency (KOICA)</td>
<td>Korea International Cooperation Agency (KOICA)</td>
</tr>
<tr>
<td><strong>Project Implementation</strong></td>
<td>ITS Korea</td>
<td>ITS Korea</td>
</tr>
</tbody>
</table>
| **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 Korean experience | • To foster highly trained system experts to design, operate, manage and maintain the each ITS service by providing the in-depth and tailored course  
• To apply the learned knowledge and technologies into real traffic situation in Colombia |
| **Participants**      | 15 participants from Colombia (High rank officers who can decide policies or financing for ITS in each city) | 15 participants from Colombia (Middle level managers and working level operators in ITS field) |
| **Program Details**  | • Lecture on ITS  
• Study Visit  
• Reporting by Country and Discussion  
• Action Plan Establishment  
• Extracurricular Activities for Understanding Korean Culture | • Lecture on ITS  
• Study Visit  
• Action Plan Monitoring  
• Action Plan Extension and Modification  
• Extracurricular Activities for Understanding Korean Culture |
KOICA Invitational Workshop 2019-2020
Achieving Effective Transportation Using ITS

- Period:
  - 1st -year Invitational Workshop: 2019.08.04~24 (3 weeks)
  - 2nd -year Invitational Workshop: During July or August (3 weeks)
- Budget: Approx. 60,000,000₩ per each workshop
- Project Owner: Korea International Cooperation Agency (KOICA)
- Project Implementation: ITS Korea
- Objectives: Strengthening Individual Capacity in ITS field to Improve Citizens' Lives of Participating Countries
- Participants: 20 persons (Egypt(2), Tajikistan(2), Azerbaijan(2), Peru(2), Tanzania(2), Uganda(2), Nigeria(3), Laos(3), Indonesia(2))
- Program Details:
  - Lecture on ITS
  - Study Visit (Seoul TOPIS, Anyang u-Traffic Center, KEC Traffic Center, C-ITS Demonstration, K-City Autonomous Driving Test-Bed, etc.)
  - Reporting by Country
  - Discussion
  - Action Plan Establishment
  - Extracurricular Activities for Understanding Korean Culture (Seoul and Busan City Tour, Gyeongju Cultural Experience)
ITS Activities in Korea

ITS Invitational Workshops

- Period: since 2014
- Project Client: Ministry of Land, Infrastructure and Transport of Korea (MOLIT)
- Objectives: Share Korean ITS experience and knowledge and seek for mutual cooperation methods
- Details:
  - Lectures on Korean ITS, Seoul Bus Reform, ITS Standards, AFC, ETCS based on the recipient countries request.
  - Technical visit to Traffic Centers
  - 1 on 1 Business Matching with Korean Companies

<table>
<thead>
<tr>
<th>No.</th>
<th>Year</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2018</td>
<td>Indonesia, Malaysia, Thailand, Cambodia</td>
</tr>
<tr>
<td>2</td>
<td>2017</td>
<td>Philippines, Turkey, Croatia</td>
</tr>
<tr>
<td>3</td>
<td>2016</td>
<td>Colombia, Philippines</td>
</tr>
<tr>
<td>4</td>
<td>2015</td>
<td>Vietnam, Poland</td>
</tr>
<tr>
<td>5</td>
<td>2014</td>
<td>Malaysia, Vietnam</td>
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<tr>
<td>No.</td>
<td>Name of Project</td>
<td>Year</td>
</tr>
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<td>-----</td>
<td>-------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>1</td>
<td>Feasibility Study of the National Standard-based Interoperable Automatic Fare Collection System in Philippines</td>
<td>2018</td>
</tr>
<tr>
<td>2</td>
<td>Improving Urban Traffic Management in Medellin, Colombia</td>
<td>2018</td>
</tr>
<tr>
<td>3</td>
<td>Support for the Establishment of Bus System Reform Strategy in Bandung, Indonesia</td>
<td>2017</td>
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<tr>
<td>4</td>
<td>Implementing an Automated Fare Collection System for Public Transport in Cairo and Alexandria, the Arab Republic of Egypt</td>
<td>2017</td>
</tr>
<tr>
<td>5</td>
<td>The Master Plan for Integrated Center System of Southern Expressway Network of Vietnam</td>
<td>2017</td>
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<tr>
<td>6</td>
<td>Feasibility study on Metro Manila’s ITS implementation for EDCF</td>
<td>2017</td>
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<tr>
<td>7</td>
<td>Public-Private Partnership for Urban Transportation Infrastructure in Colombia</td>
<td>2016</td>
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<tr>
<td>8</td>
<td>Feasibility Study to Install an Integrated Traffic Management Center, Malaysia</td>
<td>2016</td>
</tr>
<tr>
<td>9</td>
<td>The Master Plan for Intelligent Transport Systems for Medellin, Colombia</td>
<td>2016</td>
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<tr>
<td>10</td>
<td>ITS invitational workshop for Colombia (2nd year)</td>
<td>2016</td>
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<tr>
<td>11</td>
<td>Support for the Development of Transportation Infrastructure and Public Transport System in Bandung, Indonesia</td>
<td>2015</td>
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<tr>
<td>12</td>
<td>Traffic Management Plan for Jaber Causeway Project</td>
<td>2015</td>
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<td>13</td>
<td>Nationwide Smart City ICT Master Plan for Kingdom of Saudi Arabia</td>
<td>2015</td>
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<tr>
<td>14</td>
<td>ETCS feasibility study for Mongolia</td>
<td>2015</td>
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<tr>
<td>15</td>
<td>ITS invitational workshop for Colombia (1st year)</td>
<td>2015</td>
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<tr>
<td>16</td>
<td>Technical Assistance: Feasibility Study on establishment of BRT in Ulaanbaatar</td>
<td>2013</td>
</tr>
<tr>
<td>17</td>
<td>F/S of the establishment of ITS for 4 cities in the Republic of Colombia</td>
<td>2009</td>
</tr>
</tbody>
</table>

- **MOLIT**: Ministry of Land, Infrastructure and Transport of Korea
- **KEXIM**: Export-Import Bank of Korea
- **ICAK**: International Contractors Association of Korea
- **KOICA**: Korea International Cooperation Agency
- **NIPA**: National IT Industry Promotion Agency
- **ADB**: Asian Development Bank
ALONE YOU GO FASTER

TOGETHER WE GO FAR