Regional: Implementation of Sustainable Transport in Asia and the Pacific - Intelligent Transport Systems (ITS) for Better Urban Transport (Subproject 3)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Implementation of Sustainable Transport in Asia and the Pacific - Intelligent Transport Systems (ITS) for Better Urban Transport (Subproject 3)</th>
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<tbody>
<tr>
<td>Project Number</td>
<td>45105-006</td>
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<tr>
<td>Country</td>
<td>Regional/Thailand</td>
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<td>Project Status</td>
<td>Closed</td>
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<tr>
<td>Source of Funding / Amount</td>
<td>TA 8101-REG: Intelligent Transport Systems (ITS) for Better Urban Transport Republic of Korea e-Asia and Knowledge Partnership Fund US$ 300,000.00</td>
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Strategic Agendas: Inclusive economic growth
Drivers of Change: Governance and capacity development
Sector / Subsector: Transport - Urban public transport
Gender Equity and Mainstreaming

Description: The subproject will undertake the following key activities and outputs:
Output 1: Review of ITS policies and technologies. The subproject will review not only conventional ITS technologies, but also emerging issues and technologies for climate change and energy security. The review will take into account and draw lessons from best practices on ITS implementation.
Output 2: ITS case studies. The subproject will lead to the development of ITS case studies in cities with experience in developing and implementing quality ITS packages. The case study will make recommendations on the components required and strategies for implementing ITS in sustainable urban transport in DMCs.
Output 3: Implementation of technical assistance. As a regional TA for sustainable transport, the subproject will support the projects of the regional departments in realizing the objectives of STI and Strategy 2020. ADB is currently providing investment support to a package of sustainable transport interventions in the city of Ulaanbaatar, Mongolia. To improve the quality of public transport in Ulaanbaatar, ADB is supporting the development of a bus rapid transit (BRT) system. This subproject will provide technical support in adding high-quality ITS as a component of the Ulaanbaatar BRT system. The specific outputs will include an evaluation of the ITS elements that will be applicable to the control center, vehicles, and stations of the proposed BRT system. In addition, the subproject will lead to provide consulting for the production of technical specifications for the ITS components, in consultation with ADB project team and the city.
Output 4: Knowledge dissemination and capacity building. The subproject will support knowledge dissemination and capacity building workshops aimed at sharing and disseminating the key findings and outcome of the subproject. In conjunction with the Ulaanbaatar BRT initiative, an ITS training program will be provided to the local project team. In addition, during ADB Transport Forum (5-9 November 2012 in Manila), a training workshop will be conducted to be participated by DMC officials, researchers, and other development partners. The training workshop will discuss issues of implementation to raise awareness on the benefits of ITS and assist DMCs in adopting ITS technology.

Project Rationale and Linkage to Country/Regional Strategy: ICT in the field of transport is known as intelligent transport system (ITS) and has been used to improve efficiency of transport systems. For example, advanced signalling system considering traffic volume and car navigation system guiding less congested routes is popular types of ITS widely used in developed countries. Meanwhile, public transport has so far not been considered as a major part of conventional ITS implementation. However, with increased importance given to sustainable urban transport, developed countries have shown much ability to promote public transport and reduce car travel with ITS application. Transfer time and costs among various public transport modes are some of the main barriers in promoting public transport. The use of smart card with wireless communication can encourage people to use public transport and achieve convenient seamless travel through integrated fare scheme and easy fare payment. Many cities with high mode share of public transport such as Seoul and Hong Kong have utilized integrated fare structures and electronic fare systems including smart card technology to reduce the cost of using public transport.

Impact: Improved sustainability of transport system achieved by reducing traffic congestion, greenhouse gas (GHG) emissions and fuel consumption.
Description of Project Outputs
1. Review of ITS options for sustainable urban transport and advanced cities
2. Development of ITS case studies
3. Implementation support on ITS for Ulaanbaatar
4. Knowledge dissemination and capacity building workshops

Status of Implementation Progress (Outputs, Activities, and Issues)
Geographical Location Regional

Summary of Environmental and Social Aspects
Environmental Aspects
Involuntary Resettlement
Indigenous Peoples
Stakeholder Communication, Participation, and Consultation
During Project Design
During Project Implementation

Business Opportunities
Consulting Services ADB will engage consultants in accordance with ADB's Guidelines on the Use of Consultants (2010, as amended from time to time). A firm will be recruited using the quality- and cost-based selection.
Procurement All procurement of goods and other services under the subproject will be done in accordance with ADB's Procurement Guidelines (April 2010, as amended from time to time). Procurement will be directly conducted by ADB as the executing agency.

Responsible ADB Officer Lloyd Wright
Responsible ADB Department Sustainable Development and Climate Change Department
Responsible ADB Division GAFSP
Executing Agencies Asian Development Bank
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Timetable
Concept Clearance -
Fact Finding 03 Jul 2011 to 16 Jul 2011
MRM -
Approval 27 Jun 2012
Last Review Mission -
Last PDS Update 10 Oct 2011

TA 8101-REG

Milestones

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<th>Approval</th>
<th>Signing Date</th>
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<th>Closing</th>
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<td>31 May 2013</td>
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Request for Information http://www.adb.org/forms/request-information-form?subject=45105-006
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