China, People's Republic of: Developing Multimodal Passenger Transport Hubs

**Project Name**  Developing Multimodal Passenger Transport Hubs

**Project Number**  45024-001

**Country**  China, People's Republic of

**Project Status**  Closed

**Project Type / Modality of Assistance**  Technical Assistance

**Source of Funding / Amount**  TA 7925-PRC: Developing Multimodal Passenger Transport Hubs

- Technical Assistance Special Fund
- US$ 500,000.00

**Strategic Agendas**
- Environmentally sustainable growth
- Inclusive economic growth

**Drivers of Change**
- Governance and capacity development

**Sector / Subsector**
- Transport

**Gender Equity and Mainstreaming**
- No gender elements

**Description**

The TA will assist the government to support the planning and implementation of multimodal passenger hubs in urban areas. It will support development of a multimodal passenger transportation policy through introducing and incorporating international best practices. The TA will develop guidelines and recommendations to support the appraisal and development of multimodal passenger hubs with the aim of providing fast and efficient transfers as well as comfortable and convenient facilities. It will also examine issues of integrating land use in hub designs and the potential for realizing the land value gains and commercial spinoffs for enhancing the financial viability of multimodal hub projects. The proposed TA will focus on bringing together examples of best practice multimodal hubs from around the PRC and internationally; identify key features of best practice hubs and determine their impact on system and financial performance. It will publish detailed guidelines on best practices for different types of hubs; and prepare plans for a scheme to incentivize cooperation among all modes and stakeholders.

**Project Rationale and Linkage to Country/Regional Strategy**

Illustrated Multimodal Hub Development Guide based on International Best Practices. The proposed TA would focus on bringing together examples of best practice multimodal hubs from around the PRC and internationally; identify key features and determine their impact on system performance; publish detailed guidelines on best practices for different types of hubs. The illustrated guide will be published as a knowledge product for designing and developing multimodal passenger transport hubs. It will also be created in a web version format which will be uploaded for ready reference. The book will:

1. discuss key principles of multi modal hub design;
2. explain potential design features particularly in the context of passenger and vehicular flow diagrams;
3. discuss and illustrate examples of integrated land use planning for such hubs based on successful experiences in other countries;
4. provide pictures, photographs, design concepts and 3D views to explain best practice; and
5. include illustrated examples based on reviews of existing designs of completed or hubs under construction.

Recommendations (including indicators) for financial and performance assessment of multimodal hubs. A key aspect of the study would be to conduct research on the financial metrics, appraisal methodology, performance specifications and that could be used to assess the proposed multimodal hubs projects. Examples may include:

1. design standards reflected in performance metrics of multimodal transfers such as maximum distances or maximum transfer times between modes;
2. financial standards based on minimum/maximum ratios such as investment/time saved;
3. service standards based on information system specifications, ticketing systems, and standards for signage and other services; and
4. model for realizing land value gains and commercial spinoffs to enhance overall financial viability.

The standards may be different depending on the level of passenger demand projected to use the hub, the number of modes to be integrated, and the size and type of facility. The TA will conduct research on key financial and performance metrics and establish benchmarks based on best practice multimodal hubs from around the world for multimodal accessibility, efficiency and financial sustainability. Incentive scheme for improving institutional coordination. The proposed TA will prepare a detailed scheme to incentivize cooperation among all modes and stakeholders.

The TA outputs will include stakeholder workshops to disseminate the best practices in multimodal hub design, promote consensus in strategies for improving inter-agency coordination and a proposed implementation strategy that identifies potential pilot provinces where recommendations can be tested.

**Impact**

Improved efficiency and usability of multimodal hubs in the PRC.

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<tr>
<th>Project Outcome</th>
<th>Project Description of Outcome</th>
<th>Progress Toward Outcome</th>
<th>Implementation Progress</th>
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<tbody>
<tr>
<td></td>
<td>Policy recommendations, measures, and actions for integrated multimodal passenger transport hubs development implemented</td>
<td>To be assessed.</td>
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Description of Project Outputs
- Illustrated multimodal hub development guide published
- Recommendations (including indicators) for performance assessment completed
- Policy recommendations for improving interagency coordination developed
- Services of consulting firm to be completed by 15 May 2015. Three individual consultant’s contracts are ongoing and expected to be completed by end of March 2015. Improved Final Report of FDDC to be submitted by end of March 2015. The Final Illustrated Guide is printed and ready to be launched together with the Final Report in April 2015.

Status of Implementation Progress (Outputs, Activities, and Issues)
- Status of Implementation Progress (Outputs, Activities, and Issues)
- Services of consulting firm to be completed by 15 May 2015. Three individual consultant’s contracts are ongoing and expected to be completed by end of March 2015. Improved Final Report of FDDC to be submitted by end of March 2015. The Final Illustrated Guide is printed and ready to be launched together with the Final Report in April 2015.

Geographical Location

Summary of Environmental and Social Aspects

Environmental Aspects
- Involuntary Resettlement
- Indigenous Peoples

Stakeholder Communication, Participation, and Consultation
- During Project Design: The TA scope and design was developed after consultations with the key stakeholders.
- During Project Implementation: Stakeholder consultation including interviews, workshops and questionnaire surveys have been conducted in order to ascertain stakeholder views regarding design changes needed and these will feed into the development of multimodal hub development guidelines.

Business Opportunities

Consulting Services
- The consultants will perform their tasks in close consultation with the Ministry of Transport (MOT), other national government agencies, and local governments to ensure full acceptance of the outcome of the technical assistance (TA). The TA will require 25 person-months of consulting services (7 person-months international and 18 person-months national) over 12 months. The following types of specialists will be recruited:
  (i) Integrated Urban Transport Planning Specialist (3 person-months international, 5 person-months national)
  (ii) Architect (2.5 person-months international, 4 person-months national)
  (iii) Financial Specialist (1.5 person months international, 3 person-months national)
  (iv) Civil Engineer (3 person-months national)
  (v) Institutional Coordination Specialist (3 person-months national)
- The objective of the proposed TA is to guide the development and construction of multimodal passenger hubs that will provide fast and efficient transfers, comfortable and convenient facilities, integrated systems, and high quality designs. The scope of work is summarized in the following tasks:
  (i) Task 1: Develop and publish an illustrated Guide on developing multimodal hubs based on International Best Practices: Research examples of best practice multimodal hubs from around the People's Republic of China (PRC) and internationally; identify key features and determine their impact on system performance; publish detailed guidelines on best practices for different types of hubs.
  (ii) Task 2: Recommendations (including indicators) for financial and performance assessment: Conduct research on key financial and performance metrics and establish benchmarks based on best practice multimodal hubs from around the world for multimodal accessibility, efficiency and financial viability. Identify the key variables and indicators for assessing the financial viability of the project and develop a framework for assessing the same. Recommend options for enhancing the financial viability of multimodal hubs.
  (iii) Task 3: Develop an incentive scheme for improving institutional coordination: Prepare a scheme linked to the subsidy program and propose policies to incentivize cooperation among all modes and stakeholders.

Procurement
- All procurement will be done in accordance with ADB’s Procurement Guidelines (2010, as amended from time to time). The proceeds of the TA will be disbursed in accordance with the Technical Assistance Disbursement Handbook (2010, as amended from time to time).

Responsible ADB Officer
- Sharad Saxena
Responsible ADB Department
- East Asia Department
Responsible ADB Division
- Transport and Communications Division, EARD
Executing Agencies
- Ministry of Transportation (formerly Min of Comm)
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Timetable

<table>
<thead>
<tr>
<th>Concept Clearance</th>
<th>09 Sep 2011</th>
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<td>Fact Finding</td>
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<td>MRM</td>
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<td>Approval</td>
<td>24 Nov 2011</td>
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<td>Last Review Mission</td>
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TA 7925-PRC

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<th>Approval</th>
<th>Signing Date</th>
<th>Effectivity Date</th>
<th>Closing</th>
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Financing Plan/TA Utilization

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Cumulative Disbursements
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