



Regional: Support for Innovation and Technology Partnerships in Asia and the Pacific

Project Name	Support for Innovation and Technology Partnerships in Asia and the Pacific
Project Number	52307-001
Country	RegionalCambodiaIndonesiaMongoliaPakistanPapua New GuineaTajikistanTimor-LesteViet Nam
Project Status	Proposed
Project Type / Modality of Assistance	Technical Assistance
Source of Funding / Amount	TA: Support for Innovation and Technology Partnerships in Asia and the Pacific Technical Assistance Special Fund US\$ 400,000.00
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development
Sector / Subsector	Agriculture, natural resources and rural development - Agriculture research and application Energy - Energy efficiency and conservation Health - Health system development Transport - Multimodal logistics Water and other urban infrastructure and services - Other urban services
Gender Equity and Mainstreaming	No gender elements
Description	<p>This knowledge and support technical assistance (TA) cluster will support developing member countries (DMCs) of the Asian Development Bank (ADB) in effectively identifying high-level technology (HLT) solutions for development projects. The TA cluster will enable collaborations with technology providers from the public and private sectors, academia, and research institutes, while building capacity in DMCs to develop sustainable projects and programs with HLT applications.</p> <p>In line with the objective, eligibility criteria, and scope of the High-Level Technology Fund, the TA cluster will support DMCs' decisions to introduce HLT into projects and provide guidance on how to proceed to project preparation and due diligence. Under the TA cluster, technology providers will be invited to offer proposals on HLT prefeasibility studies and innovative solutions to address specific development challenges.</p>

Project Rationale and Linkage to Country/Regional Strategy	<p>Asia and the Pacific has made great progress in economic development and poverty reduction. As a result, the region's development needs have become more diverse, and new development challenges have emerged as several DMCs have graduated to middle-income status. Many DMCs expect infrastructure with high efficiency, functionality, and faster service delivery. Less-developed countries are expanding infrastructure with conventional technology, while they aim to reduce carbon dioxide emissions in line with climate change goals. Advanced technologies and innovative solutions could provide these DMCs with a range of social, economic, and environmental benefits while expanding infrastructure.</p> <p>HLT includes new and advanced technologies or innovative solutions that can reduce the life cycle cost of infrastructure, lower operation and maintenance cost, and increase durability. Modern and advanced equipment can improve efficiency and productivity, thereby saving resources. The adoption of innovative construction methods and technologies can minimize negative environmental and social impacts. Innovative approaches and a combination of different technologies can also improve the delivery of social services.</p> <p>However, many DMCs find it challenging to employ HLT in meeting their infrastructure development needs. HLT often originates in developed countries, and HLT companies are often not familiar with the policies and decision makers of emerging market DMCs. Although these companies have better solutions for these DMCs' development needs, they may not enter these markets. In addition, the skills and experience required to develop detailed technology specifications, evaluate HLT solutions, and identify relevant technology providers are often limited in DMCs. But there are several middle-income countries that are becoming technology innovators and can share important lessons learnt with other DMCs from developing and implementing solutions. They can provide insights on needs and requirements for HLT companies to enter DMC markets.</p> <p>The TA cluster will create a platform for novel engagement with technology providers to enable HLT adoptions in collaboration with DMC agencies. The TA cluster will build the capacity of DMC counterparts to (i) design projects with HLT applications; (ii) understand the HLT market in specific sectors; (iii) assess HLT ecosystem readiness; and (iv) leverage ADB's sector-, thematic-, and DMC-specific knowledge.</p>
Impact	Use of advanced and innovative technologies across ADB operations promoted and capacity-building support to DMCs provided
Outcome	DMCs ability to evaluate HLT solutions for country-specific development challenges enabled
Outputs	<p>ADB innovation knowledge sharing enabled</p> <p>Application of HLT solutions in the energy sector assessed</p> <p>Application of HLT solutions in other sectors assessed</p>
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	<p>Individual consultants will be recruited to support the implementation of subproject 1. International consultant inputs (technical writer and web content producer, visual communication expert and graphic designer, and technology innovation expert) and national consultant inputs (administrator and finance expert, and auditor) are required to support the identification of the development challenges and the assessment of ongoing innovations in selected DMCs. This will inform the subproject preparation and the engagement with DMCs, while creating knowledge related to the innovation context in selected DMCs. Output-based and/or lump-sum contracts will be considered, but time-based contracts will be used as appropriate. The consultants will be engaged in accordance with the ADB Procurement Policy (2017, as amended from time to time) and the associated project administration instructions and/or staff instructions. The estimated cost and requisite fields of expertise are indicative; estimates will be finalized before subproject approval in consultation with the sector and thematic groups.</p>
---------------------	--

Procurement The TA cluster will follow the ADB Procurement Policy (2017, as amended from time to time). Lessons learned and best practices in the procurement of HLT will be reviewed and adapted as appropriate, for example, from the Organisation for Economic Co-operation and Development's framework of public procurement for innovation. ADB will customize procurement documentation to fit the purpose. This would include specific procurement arrangements, with corresponding risk-mitigation measures, to (i) not exclude the participating HLT providers from supplying the solutions in response to downstream tenders in ADB-financed projects and (ii) provide the ability to award pre-commercialization gap-mitigation contracts to more than one qualified proponent. The submitted extended EOLs will be evaluated by a team of experts from SDCC; the regional department sector or thematic experts; SDCC-KS; the Procurement, Portfolio and Financial Management Department; and the HLT Fund manager. Each subproject will require the endorsement of the head of the respective regional department and the respective country director. Detailed procurement arrangements, emphasizing fair competition and transparency and addressing any intellectual property rights issues, will be finalized before approval of each TA subproject.

Responsible ADB Officer	Roth, Susann
Responsible ADB Department	Sustainable Development and Climate Change Department
Responsible ADB Division	SDCC-KS
Executing Agencies	<i>Asian Development Bank 6 ADB Avenue, Mandaluyong City 1550, Philippines</i>

Timetable

Concept Clearance	-
Fact Finding	-
MRM	-
Approval	-
Last Review Mission	-
Last PDS Update	05 Dec 2018

Project Page	https://www.adb.org/projects/52307-001/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=52307-001
Date Generated	11 December 2018

ADB provides the information contained in this project data sheet (PDS) solely as a resource for its users without any form of assurance. Whilst ADB tries to provide high quality content, the information are provided "as is" without warranty of any kind, either express or implied, including without limitation warranties of merchantability, fitness for a particular purpose, and non-infringement. ADB specifically does not make any warranties or representations as to the accuracy or completeness of any such information.