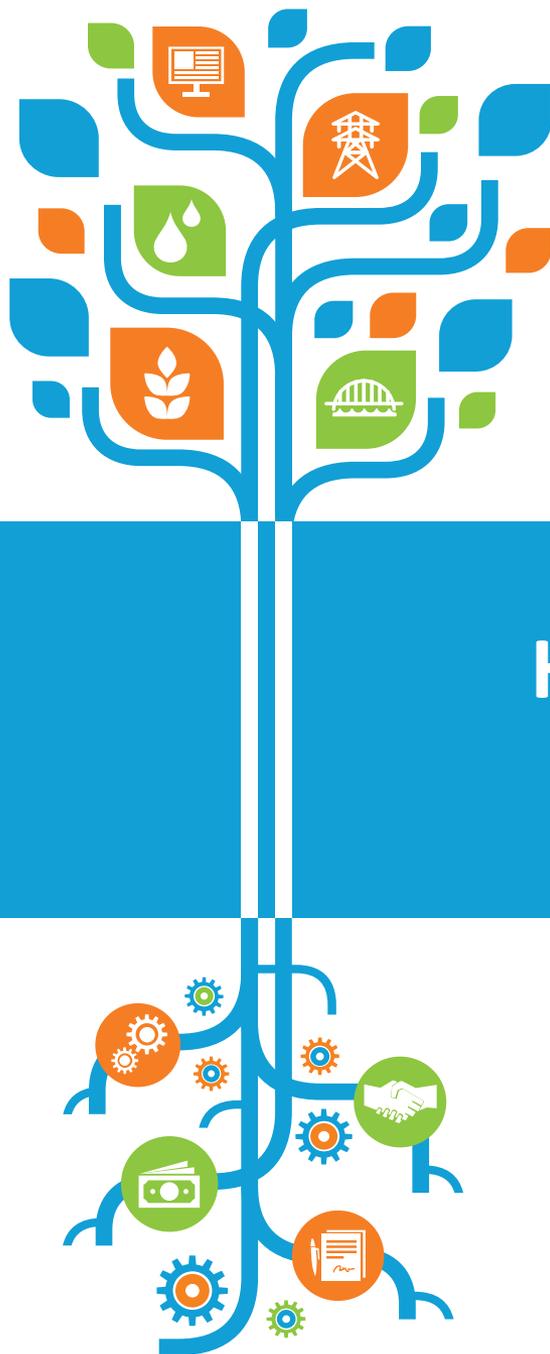


# 10th BUSINESS OPPORTUNITIES FAIR 2019

ADB

## High Level Technology in ADB Procurement Operations

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# Overview



## **ADB's HLT Multi Donor Trust Fund prioritizes HLT in four sectors:**

- Energy
- Transport
- Urban development
- Water



# HLT can be incorporated into ADB procurement operations into several ways:

- the acquisition of equipment and goods that employ HLT that is new globally, in ADB operations, or to an ADB DMC (developing member country);
- construction or civil works based on specifications that require contractors to meet enhanced performance standards and/or employ HLT in the construction process, materials, and other inputs; and



# HLT can be incorporated into ADB procurement operations into several ways:

- consulting services that require specific knowledge and expertise in the use of HLT in different phases of the innovation cycle, as well as different sectors and applications.



# Procurement Strategies for High-Level Technology



- **ADB's procurement principles and processes apply to HLT with emphasis on value for money (VFM)**
- **The appropriate strategy to procure HLT and innovative solutions depends on:**
  - (i) the project's goals;
  - (ii) the stage of the innovation cycle;
  - (iii) the extent to which there is more than one feasible HLT or innovative solution;



# Procurement Strategies for High-Level Technology



- (i) whether or not that solution is protected by intellectual property rights;
- (ii) the availability of reliable information;
- (iii) risk; and
- (iv) market sounding and intelligence.



**Table 2: Procurement Strategies and Methods for High-Level Technology by Innovation Stage**

Pre-Commercialization	Introduction	Adoption	Adaptation
<ul style="list-style-type: none"> <li>• VFM analysis</li> <li>• Performance or block grants</li> <li>• Consulting services, based on quality</li> <li>• Requisition of key components from limited suppliers</li> <li>• Prequalification</li> <li>• Design and build of pilots</li> <li>• Minor civil works and standard equipment on open competitive basis</li> </ul>	<ul style="list-style-type: none"> <li>• VFM analysis</li> <li>• Performance or block grants</li> <li>• Consulting services, both quality and cost, depending on scope or nature of assignment</li> <li>• Prequalification</li> <li>• Design and build of demonstration projects</li> <li>• Procurement of components from limited suppliers</li> <li>• Civil works largely on a competitive basis, some specialized facilities may have limited potential bidders</li> </ul>	<ul style="list-style-type: none"> <li>• VFM analysis</li> <li>• TCO analysis with mix of qualitative and quantitative criteria</li> <li>• Interactive outreach, market sounding</li> <li>• Prequalification</li> <li>• Design and build</li> <li>• Progressive design and build</li> <li>• Performance incentives</li> <li>• Two-stage bidding</li> <li>• Direct contracting with negotiations</li> <li>• Consulting services, primarily based on quality</li> </ul>	<ul style="list-style-type: none"> <li>• VFM analysis</li> <li>• TCO analysis with mix of quantitative and qualitative criteria</li> <li>• Interactive outreach, market sounding</li> <li>• Prequalification</li> <li>• Design and build</li> <li>• Progressive design and build</li> <li>• Performance incentives</li> <li>• Two-stage bidding</li> <li>• Direct contracting with negotiations</li> <li>• Consulting services, primarily based on quality</li> </ul>

TCO = total cost of ownership, VFM = value for money.



# Value for Money Analysis

## **VFM analysis at this stage provides a high-level at the investment, including:**

- screening of potential technology;
- design choices;
- identify the inherent risks and opportunities; and
- specific market situation



# Contracting Consulting Services



- **Identifying the Need for High-Level Technology Consultants:**
  - (i) data analysis, database optimization, and modeling;
  - (ii) risk analysis;
  - (iii) systems architecture (real time, critical systems, automation, instrumentation, testing);
  - (iv) automation (controls, electrical engineering, monitoring systems, regulation and control, validation);
  - (v) migration strategies from one technology to another, integration with legacy systems;





“Thank you!”

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