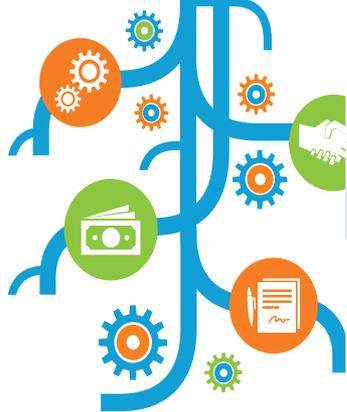




# 10th BUSINESS OPPORTUNITIES FAIR 2019



## Thematic Opportunities — High-Level Technology Fund



**Ayato Kurokawa**  
**Strategy, Policy, and Review Department**  
**Asian Development Bank**  
28 March 2019



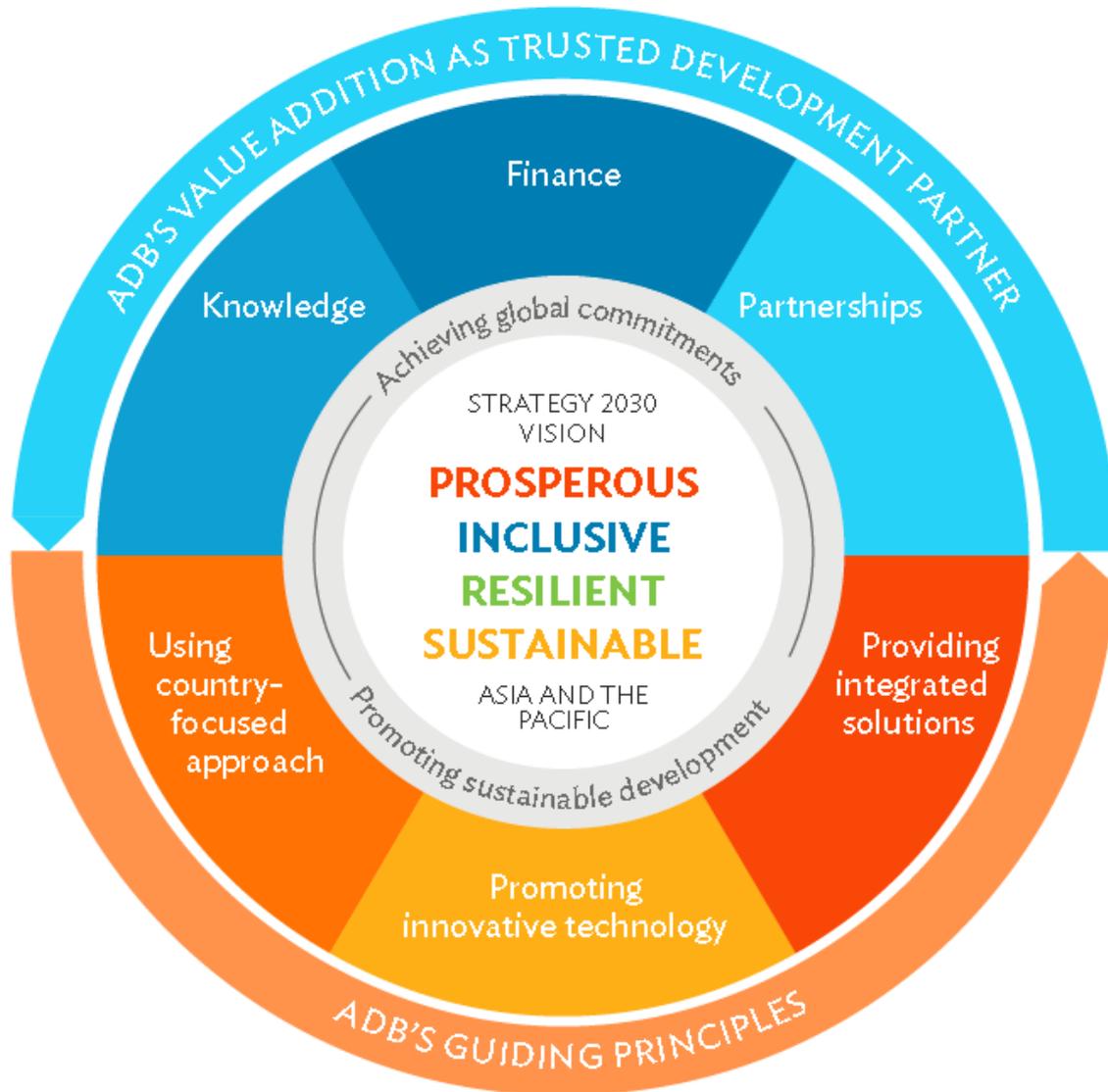
# Overview



- Overview of High-Level Technology Fund (HLT Fund)
  - Indirect access to HLT Fund
- Opportunity for Technology Providers
  - Direct access to HLT Fund - overview of proposal-based Partnership TA



# ADB's Strategy 2030





# High-Level Technology Fund (HLT Fund)



- Provides **grant financing** to promote integration of high-level technology and innovative solutions into ADB projects
- \$40 million contributed so far
- Fund accessed by ADB project officers
- Technology selected thru ADB procurement procedures

[Home](#) > [News and Events](#) > [News Releases](#) >

## ADB Establishes Fund to Promote High-Level Technology - Japan First Donor

News Release | 6 May 2017 [日本語](#)



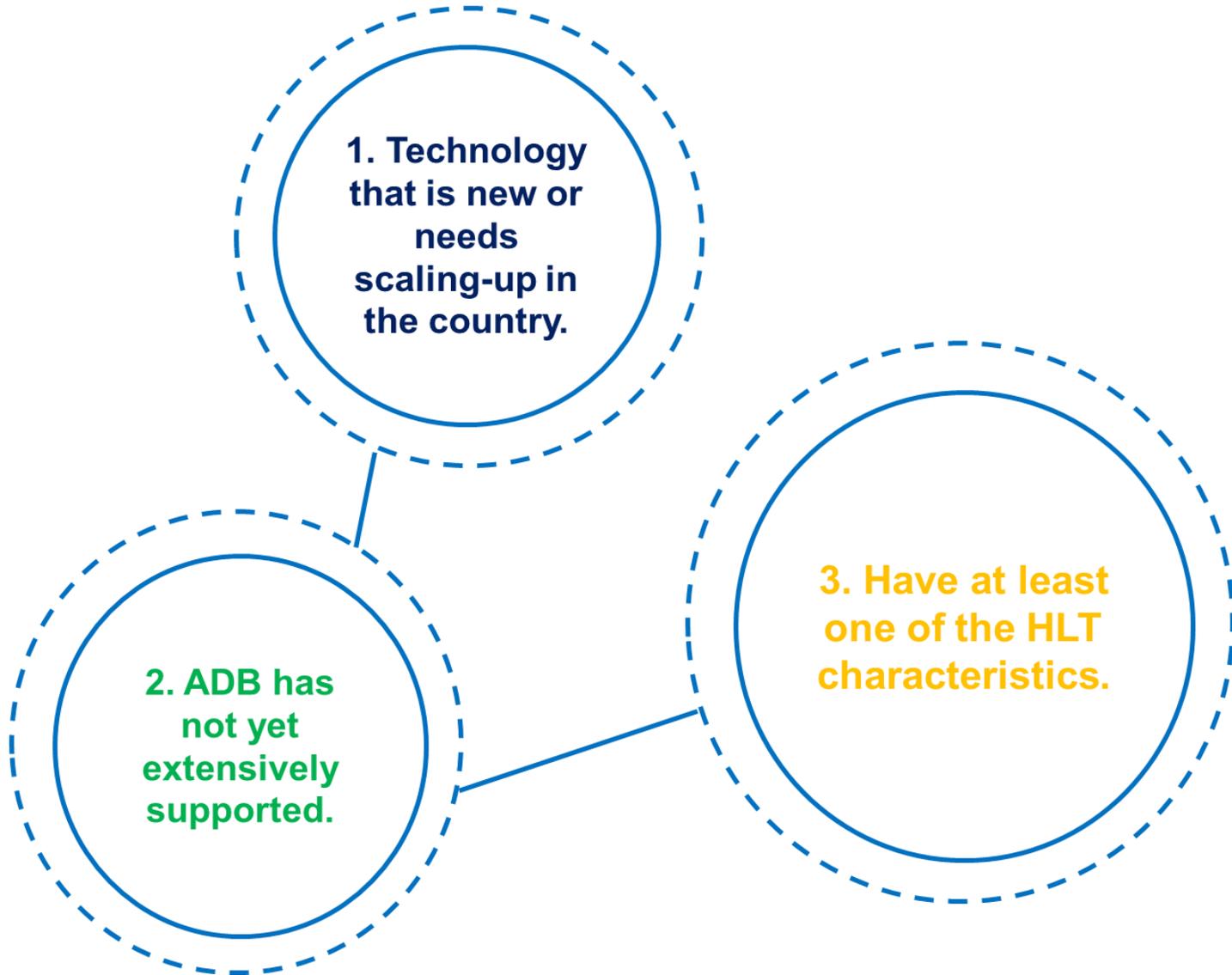
Japan's Deputy Prime Minister and ADB Governor Taro Aso during the opening session of ADB's 50th Annual Meeting in Yokohama. Japan will be the first donor to the HLT fund.



# Definition of High-Level Technology



\*under the Fund\*





# Approved projects 1/3

Country	HLT project components	Sector	Amount
Mongolia	Groundwater quality and quantity monitoring system	Water	\$0.4m
Lao PDR	Bus rapid transit system	Transport	\$1.5m
Mongolia	Specialized greenhouses for vegetables	Agriculture	\$0.5m
Pakistan	Water resources measurement technology	Water	\$2.0m
Regional	Telecommunications and information technology	Finance	\$0.5m
Pakistan	Battery energy storage system	Energy	\$4.0m



# Approved projects 2/3



Country	HLT project components	Sector	Amount
Mongolia	Smart renewable energy and building performance control and monitoring system	Urban	\$3.0m
Regional	Advance energy system planning and analytical tools	Energy	\$1.0m
Maldives	Integrated solid waste management system using advanced waste-to-energy	Urban	\$1.0m
Marshall Islands	Solid waste management using waste-to-energy	Energy	\$0.5m
Maldives	Blockchain, e-Payment gateway	Others	\$0.5m



# Approved projects 3/3



Country	HLT project components	Sector	Amount
Viet Nam	Integrated hydro-meteorological and stream gauging stations for climate resilient infrastructure design and management	Transport	\$5.0m
Regional	HLT solutions in the energy sector to be determined through a selection process under the TA	Energy	\$1.5m



# Direct Opportunity for Tech Providers

ADB

## Asia Pacific Technology and Innovation Partnership TA

- Technology providers will submit **proposals of proof-of-concept / pre-feasibility studies** of HLT applications in DMC context that needs ADB financing.
- Selected Proposals (about three in one round) can receive **max. \$500,000** grant each.
- Tech providers can co-finance.



# Partnership TA Topics



Planned Schedule	Sector Focus	Tentative topics for call for proposals
1 <sup>st</sup> round (Q2 2019)	Energy (total \$1.5m)	<ul style="list-style-type: none"><li>• Clean heating &amp; cooling</li><li>• Microgrid systems with innovation such as blockchain, novel storage and renewable energy.</li><li>• Artificial Intelligence (AI) in energy management</li></ul>
2 <sup>nd</sup> round (Q4 2019)	TBD (total \$1.5m)	TBD
3 <sup>rd</sup> round (2020)	TBD (total \$1.5m)	TBD



# Expected outputs of tech providers



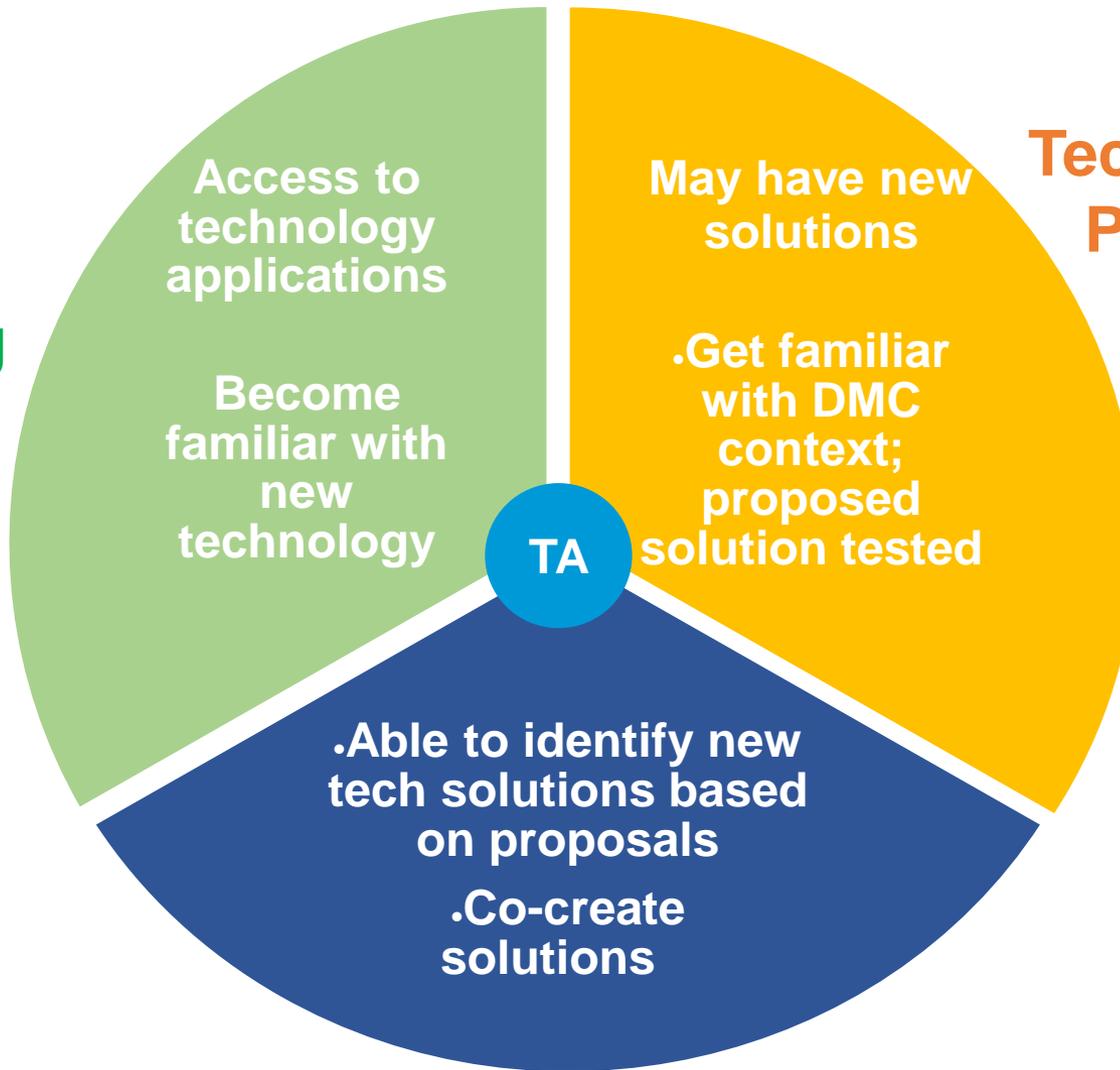
- Results of **proposed solution tested** in chosen site(s)
- Report on how the proposed solution may or may not be able to contribute to solve the development challenge in targeted area
- Technical specifications and/or evaluation criteria for future consideration
- **Recommendations to DMC and ADB** on next steps to scale
- **Capacity enhanced** among DMC stakeholders to assess HLT solutions
- **Technology providers will stay eligible for downstream opportunities**



# Benefits of the Partnership TA



**Developing  
Member  
Countries**



**Technology  
Provider**

**ADB**



# Summary: HLTF Related Opportunities

ADB

**Technology development**



**HLTF support**

Grant thru  
Partnership TA

Grant to ADB  
projects

**Who applies to HLTF?**

Technology  
provider  
(+ local partners)

ADB project  
officer



Please visit HLT Fund website:  
[hltfund.adb.org](http://hltfund.adb.org)

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# Appendix: Priority Sector HLT 1/2

## Energy

- Climate change mitigation/adaptation technology
- Criteria air contaminants reduction technology
- **Smart grid** technology
- **Energy efficiency** technology
- **Renewable energy** technology
- Advanced energy system planning and analytical tools
- **Waste-to-energy** technology
- Innovative **heating and cooling technology**
- Application of clean energy technology in multi-sectors (e-mobility, irrigation, etc)

## Water

- **Climate change** adaptation (flood and drought management)
- Groundwater management
- **High efficiency irrigation systems** including fertigation and pressurized irrigation
- Crop water productivity assessment using remote sensing images
- **Advanced data collection & instrumentation** including remote sensing, high-resolution rainfall radar, Lidar, mobile phone application, drones, etc.
- Water quality management (including groundwater)
- Advanced hydro modeling and data management technology
- Asset management systems
- Multi-criteria optimization of water-energy-food nexus to inform decision-making
- Near real-time decision support system for water resource management
- Water accounting of river basins
- Salinity monitoring and evaluation of salinity control performance (eg drainage) by handheld geomagnetic induction devices



# Appendix: Priority Sector HLT 2/2

Transport	Urban	Health
<ul style="list-style-type: none"> <li>• Technology for <b>efficient construction</b> methodology, and new materials</li> <li>• Asset management technology</li> <li>• <b>New vehicle/fuel technology for reducing emissions and energy consumption</b></li> <li>• Improving public transport and freight operation and management</li> <li>• Improving efficiency and safety</li> <li>• Monitoring traffic, data management, traffic information, transport payment system and enforcement</li> <li>• Shared mobility and new sustainable modes</li> <li>• Providing mobility as a service platform and business model</li> <li>• Technology for traffic survey, analysis, and modeling and big data application</li> </ul>	<ul style="list-style-type: none"> <li>• Desalination technology</li> <li>• <b>Remote-sensing</b> technology</li> <li>• Sanitation technology</li> <li>• <b>Smart city</b> technology</li> <li>• <b>Waste-to-energy</b> technology</li> <li>• Water supply and losses</li> <li>• Waste water treatment, smart systems, asset optimization, 3Dsimulation etc.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>MHealth</b> technology</li> <li>• <b>Unique patient identifier</b> technology and Electronic medical records system</li> <li>• Electronic health documentation management system</li> <li>• Inter-operable heal management information system,</li> <li>• <b>Telemedicine</b>, tele-radiology, tele-diagnostics and related technology</li> <li>• Rapid point of care diagnostics</li> <li>• Health and clinical decision support technology</li> <li>• Technology supporting improved physical access to elderly and people with disabilities</li> <li>• Climate change mitigation/adaptation technology in health facilities</li> </ul>