



# Technology Innovation Challenge

[adbhltfund.adb.org/challenge/](https://adbhltfund.adb.org/challenge/)

(This was used for the ADB Japan Online Seminar for TIC 2020.)

Please note that information on the official EOI submission platforms overrides this material, in case of any discrepancy.

# Today's Agenda



- **Introduction : ADB & High-Level Technology Fund**
  - TIC is financed by ADB's High-Level Technology Fund
- **Overview of Technology Innovation Challenge**
- **Announced Development Challenges**
  - Healthy Oceans
  - Transport
  - Urban Development
- **Selection Criteria**
- **EOI Submission Platform**
- **Expected Process and Indicative Timeline**
- **Q&A**

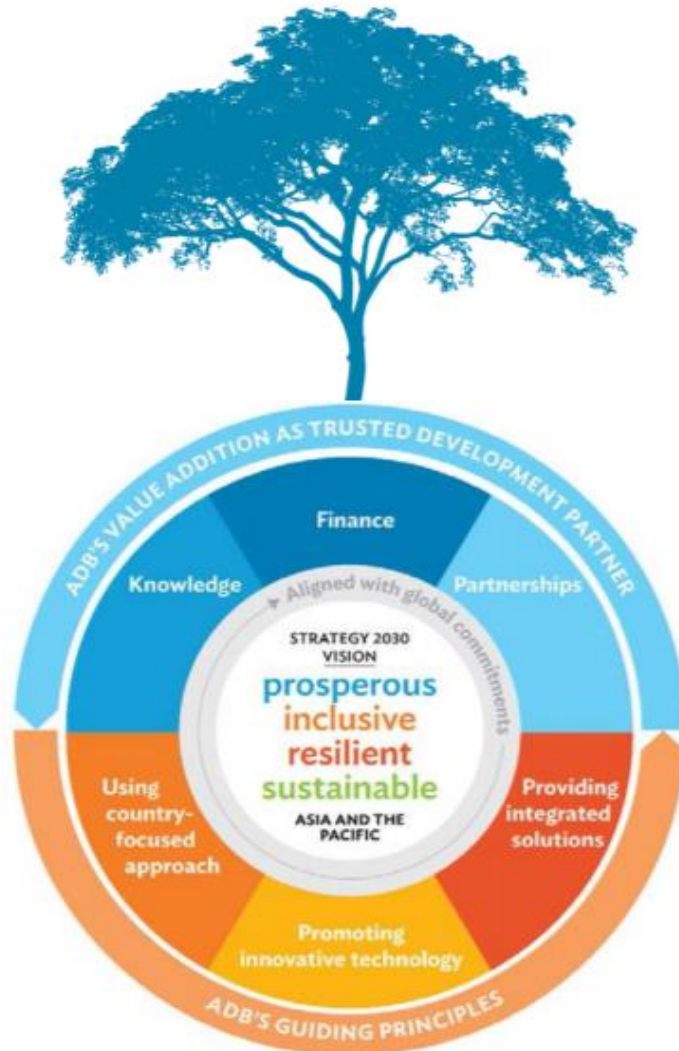
# ADB Members





# ADB's Strategy 2030

## 7 Operational Priorities based on a prosperous, inclusive, resilient & sustainable Asia and the Pacific



Addressing remaining poverty and reducing inequalities



Accelerating progress in gender equality



Tackling climate change, building climate and disaster resilience, and enhancing environmental sustainability



Making cities more livable



Promoting rural development and food security



Strengthening governance and institutional capacity



Fostering regional cooperation and integration

# High-Level Technology Fund



## ADB's HLT Fund

- Multi-donor Trust Fund, Established in 2017
- Established and currently financed by the Government of Japan
  - \$55 million contribution from the Gov. of Japan so far
- Objective: To promote the integration of high-level technology (HLT) and innovative solutions into ADB projects throughout the project cycle—from identification to implementation and operation. The use of the fund resources will **encourage more widespread adoption of HLT to address development challenges** in ADB's developing member countries (DMCs).

# Project Examples funded by HLT Fund



Indonesia: Support to build Indonesia's integrated and inclusive social assistance management system

Sector: Others (Social Development)  
HLT financing amount \$1 million  
(COVID-19 Response)

Mongolia: Regional Road Development and Maintenance Project, Additional Financing

Sector: Transport  
HLT financing amount \$1.5 million

PAKISTAN: Balochistan Water Resources Development Sector Project

Sector: Water  
HLT financing amount \$2 million

MALDIVES: Greater Malé Environmental Improvement and Waste Management Project

Sector: Urban  
HLT financing amount \$1 million

PAKISTAN: The Second Power Transmission Enhancement Investment Program Tranche 3 (BESS)

Sector: Energy  
HLT financing amount \$4 million

REGIONAL: HLT Solutions for Communicable Disease Control in the Greater Mekong Subregion

Sector: Health  
HLT financing amount \$140,000

Project

TA

Direct Charge

All the approved projects can be found on our website : [adbhltfund.adb.org/funded-projects/](https://adbhltfund.adb.org/funded-projects/)  
As of September 2020, 12 investment projects, 28 TA projects, and 22 direct charges are supported.<sup>6</sup>





# Technology Innovation Challenge

For more details, visit [adbhltfund.adb.org/challenge](http://adbhltfund.adb.org/challenge).

## ***Objective:***

- The TIC seeks to find new ways to address development challenges across ADB's DMCs through **partnerships with technology providers.**

## ***What it is:***

- It invites technology providers to propose a pilot/proof-of-concept on HLT and innovative solutions for the announced development challenges.

## ***What you may get:***

- Selected proposals will receive a **maximum of \$500,000** grant each, which technology providers must co-finance at least 10% of the total cost.

# Overview of the TIC



- The selected technology providers will be expected to:
  - Co-invest in testing and independent verification of results
  - Commit to commercial model for future scale up and implementation
  - Maintain reference site and/or data for the country and future ADB projects
- An applicant can submit only one application per Development Challenge.
  - The applicant must be the original owner of the solution or an authorized licensee, incorporated or registered in ADB member countries. For more details about eligibility, please check the rules.
- 1<sup>st</sup> TIC for Energy Sector launched last year. Currently finalizing the contracts (Top 3 already selected.)



# TIC Eligibility

\*For the full eligibility requirements, please read the "Rules" carefully on the EOI submission platform.\*



## Proposal:

- Technology: The proposed technology or solution must be **new to the country or to the context** with improved efficiency, impact, and/or life-cycle cost compared to existing solutions. However, the technology **should have been tested and verified before** in another country or context.
- Location: Listed countries in the Rules
- Finance: Applicant(s) provide at least 10% of the total project cost in co-financing.

## Applicant:

- Registered in one of the ADB's member countries
- Applicant(s) have the Intellectual Property Rights, through ownership or licenses, to use the technology solution.
- Not in the sanction list; No conflict of interest with the government of implementation location.

## Expected Outputs

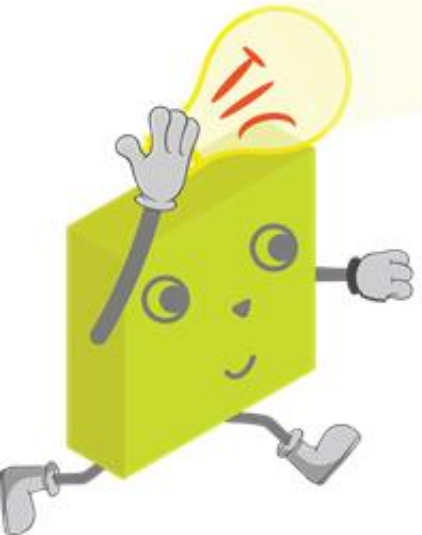
# Technology Innovation Challenge



## Call for Expressions of Interest (EOI): Newly announced TIC Development Challenges

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- **Healthy Oceans [2]** – submit your EOI **by Nov. 27 Noon (UTC+8)**
  - Prevent Plastic Waste
  - Protect and/or Restore Coral Reef
- **Transport [2]** – submit your EOI **by 4 December Noon (UTC+8)**
  - Improving Security for Public Transport Users
  - Promoting Health & Hygiene for Public Transport Users
- **Urban Development [2]** – submit your EOI **by 4 December Noon (UTC+8)**
  - Design Inclusive Cities with Data-informed Tool
  - Promote Efficient Wastewater treatment and Sanitation



# Healthy Oceans TIC

## - 2 development challenges



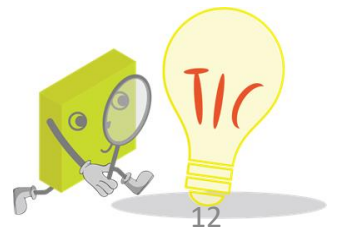
### PREVENT PLASTIC WASTE

- We are seeking to pilot **technologies that prevent plastic waste and accelerate the transition to a circular economy** by significantly reducing or eliminating single-use plastic waste.
- A properly built circular economy focuses on preventing waste from being created in the first place, hence, avoiding the recycling stage.

### PROTECT AND RESTORE CORAL REEFS

- We are seeking to pilot **technologies that can help restore and/or protect coral reefs**. These technologies are envisioned to increase the resilience of coastal areas by sustaining the livelihoods of coastal populations and by protecting the coasts from natural hazards.

Please read details on the site:  
<https://bit.ly/TICHealthyOceans>  
Submit EOI for the one you select.

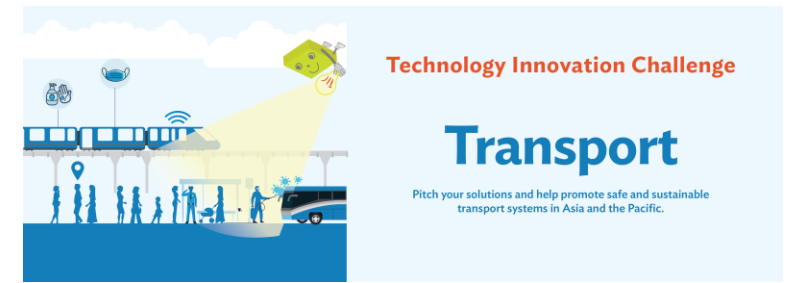


# Transport TIC

## - 2 development challenges

### Improve Security for Public Transport Users

- We are seeking to pilot **technological solutions that improve the security of public transport door-to-door journeys, including first and last mile connectivity**. Security aspect includes issues of harassment, alcohol-fueled violence and crime.
- Proposed technology solutions can have co-benefits in other areas, to also ensure the safety of public transport users.



### Promote Health & Hygiene for Public Transport Users

- We are seeking to pilot **technology solutions that improve the health and hygiene of public transport for users**.
- Any proposed solution to improve the health and hygiene for public transport users must consider ways to better understand and design for the needs and concerns of poor and vulnerable users.

Please read details on the site:

<https://challenges.adb.org/en/challenges/tic-transport>

Submit EOI for the one you select.



# Urban Development TIC

## - 2 development challenges

### Design Inclusive Cities with Data-informed Tools

- We are seeking to pilot technologies that (i) **deliver data-driven insights** for local governments and city planners, bringing to light gaps, inequalities and risks **which affect vulnerable urban populations**, and (ii) guide evidence-based planning and decision-making **that gives voice to vulnerable populations** and facilitates their participation in a transparent process.
- Ex. Data Integration; Data Quality; Crowd Sourcing of Citizen Data



### Promote Efficient Wastewater Treatment and Sanitation

- We are seeking to pilot technology solutions **for more effective and efficient planning, operation and/or maintenance of wastewater treatment and sanitation facilities**, in order to provide uninterrupted, affordable and safe services to urban communities.

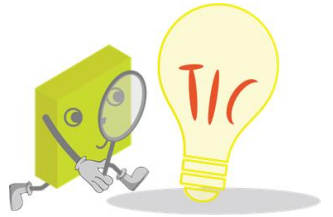
Please read details on the site:

<https://challenges.adb.org/en/challenges/tic-urban>

Submit EOI for the one you select.



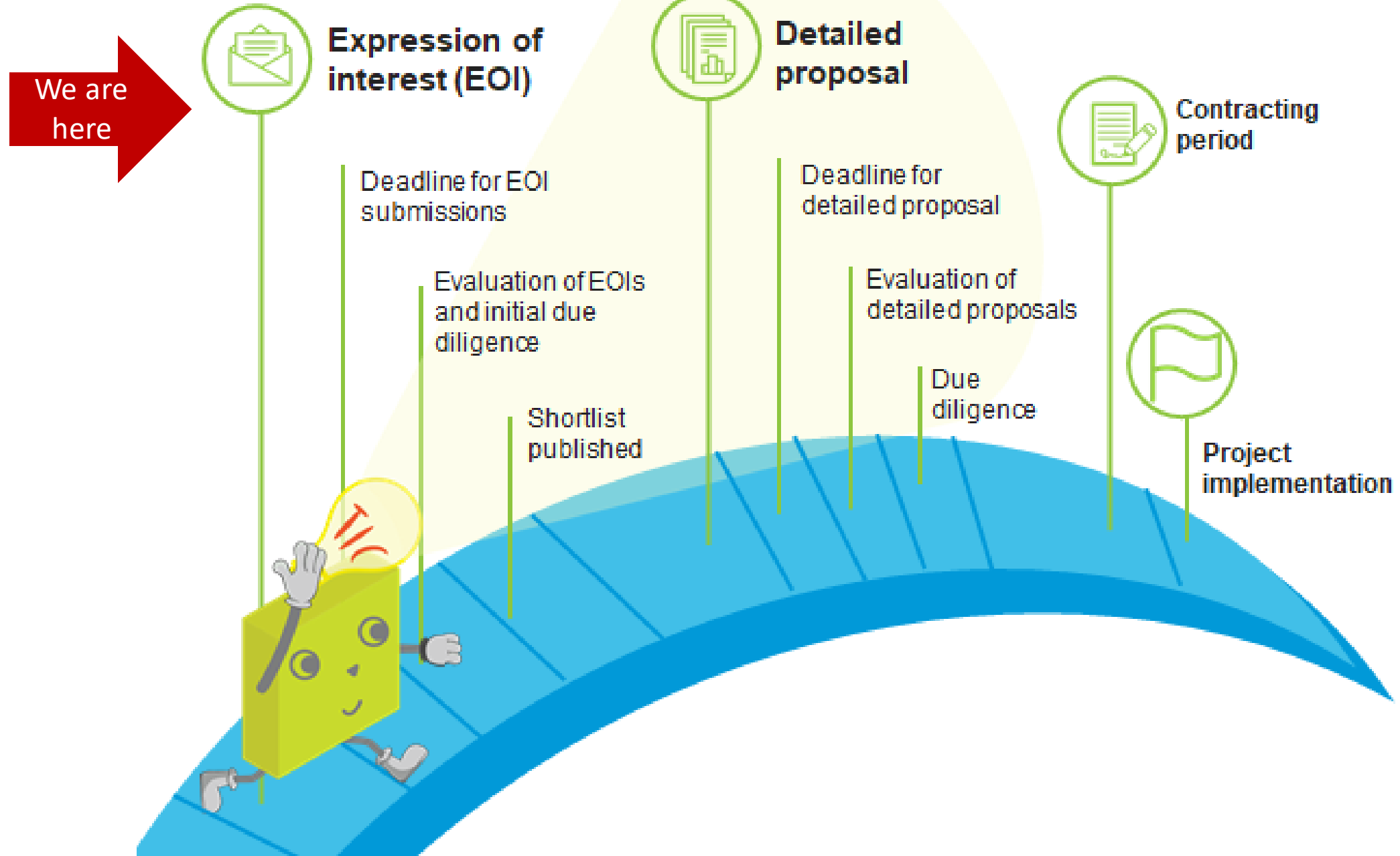
# Selection Criteria (values)



- **Impact [20%]**. Effectiveness of technology solution in addressing a defined sector development challenge.
- **Novelty / Innovativeness [30%]**. Proposes a new technology for a certain DMC or technology context.
- **Scalability [20%]**. Scalability potential in the country and region.
- **Value for Money [10%]**. Likelihood of creating relevant and meaningful impact in relation to the level of the grant (provided by ADB).
- **Local Partnerships [15%]**. Includes local partnerships in the DMC of choice for implementation. Stronger proposals will also demonstrate government buy-in or support in the locations they would like to conduct the pilot(s).
- **Risk Mitigation [5%]**. Project risks such as environmental and social risks identified, and mitigation measures proposed.



# TIC Process



# EOI Submission Platform



The image shows a screenshot of the ADB Healthy Oceans Technology Innovation Challenge website. The header includes the ADB logo, the challenge name, a countdown timer for 43 days left, and a 'Participate' button circled in red. The main content area is titled 'How to apply' and 'TIC application process', featuring a flowchart with seven steps: 1. Read the TIC application rules, 2. Register to the online application system, 3. Fill out the Expression of interest (EOI) application form, 4. Submit the EOI, 5. Evaluation of EOIs by an evaluation committee, 6. Initial due diligence of the highest scoring proposals, and 7. Shortlist. A green arrow points from step 4 to a 'Sign Up' form on the right. The 'Sign Up' form includes fields for First name, Last name, Email, and Password, with a 'Next' button at the bottom. A link for 'Log in' is provided for existing users.

**ADB** Healthy Oceans Technology Innovation Challenge 43 days left [Participate](#)

Challenges [How to apply](#) Eligibility checklist Q&A Rules

## How to apply

### TIC application process

1. Read the TIC application rules
2. Register to the online application system
3. Fill out the Expression of interest (EOI) application form
4. Submit the EOI
5. Evaluation of EOIs by an evaluation committee
6. Initial due diligence of the highest scoring proposals
7. Shortlist

### Sign Up

Already have an account? [Log in](#)

**First name**  
First name

**Last name**  
Last name

**Email**  
Email

**Password**  
Password  
Your password must have at least 8 characters

☐ I accept the [Terms of service](#) and the [Privacy policy](#)

[Next](#)

Applicant has to sign-up to register on the platform, and then proceed to submitting and filling in the EOI form. Those who have registered before (eg. Energy TIC) can just log-in using the same log-in details. Please go to the site for the most updated info and pages.

# EOI Form



**THIS IS AN EXAMPLE OF THE EOI APPLICATION FORM. DO NOT FILL THIS FORM OUT!**

## Expression of Interest (EOI) application form

This TIC expression of interest (EOI) form comprises of three sections:

Section A: includes information about the lead applicant and the project members. If there are no other project partners, please state not applicable in section A9 and A10.

**Section B:** *Prevent Plastic Waste*. Please fill out section B if you are applying to the *Prevent Plastic Waste challenge*. This section should include information about the technology solution and project concept.

**Section C:** *Restore and Protect Coral Reefs*. Please fill out section C if you are applying to the *Restore and Protect Coral Reefs challenge*. This section should include information about the technology solution and project concept.

In case you are applying to both challenges under the “name of competition”, please fill out both section B and C.

Section D: includes the Applicant’s declaration.

Basic Applicants Info

Your proposal  
(ref: selection criteria)

Declaration

<p><b>B1: Project title:</b></p> <p><i>Provide a descriptive name for your proposed project. Keep the title short and catchy.</i></p>
<p><b>B2: Location of implementation:</b></p> <p><i>List the country where you intended to pilot the technology solution. The country of implementation has to be a TIC eligible country. See the TIC rules for more detailed information on eligible countries. If you know, please also name the province/town where you intended to pilot the technology solution.</i></p>
<p><b>B3: Problem statement for the development challenge:</b></p> <p><i>Develop a problem statement for your pilot, i.e. what specific aspect of the development challenge does your proposed technology solution intend to address /tackle. Maximum 100 words.</i></p>
<p><b>B4a: Technology solution:</b></p> <p><i>Describe the technology solution you propose to conduct the pilot/proof-of-concept on. What is the purpose of the technology solution? How does it work? Who are the intended users/customers/beneficiaries? Maximum 200 words.</i></p>
<p><b>B4b: Verification of the technology solution:</b></p> <p><i>Explain where the technology solution has been tested before and describe the results of those tests. Maximum 150 words.</i></p>
<p><b>B4c: Summary deck on proposed technology solution:</b></p> <p><i>Please attach a summary deck on proposed technology solution. The deck should support the description of the technology solution in B3a, providing illustrations, pictures, diagrams and graphs that show how the technology solution works and what impact it could have. Include a brief explanation/visual/table on how innovative or different it is compared to existing solutions. The deck should be submitted in PDF format, comprising of a maximum of 5 illustrative slides.</i></p>
<p><b>B5: Project relevance and development impact:</b></p> <p><i>Briefly explain why you have selected the country of implementation to pilot the technology solution. Describe why the technology solution is relevant for the country. What are the expected development impacts as a result of the pilot, but also long term if the solution is scaled-up in the country of implementation? Maximum 200 words.</i></p>
<p><b>B6: Description of the pilot project:</b></p> <p><i>Describe the proposed pilot/demonstration project. What is the purpose of it (i.e. what you would like to test in the location proposed)? Briefly describe how the project will be implemented, i.e. what type of activities will be undertaken to reach the expected results. Maximum 200 words.</i></p>
<p><b>B7: Project results:</b></p> <p><i>List the main expected project results/ outputs that will be achieved by the end of the project supported by the TIC grant. Maximum 100 words.</i></p>
<p><b>B8: Project members' role:</b></p>

*These are just examples. Please check the actual EOI form.*

<p><i>Briefly describe the role each project member will have during the implementation of the project. Maximum 100 words.</i></p>
<p><b>B9: Implementation period:</b></p> <p><i>Include the expected implementation period in months.</i></p>
<p><b>B10: Novelty/ innovativeness:</b></p> <p><i>Describe how the technology solution is novel/ innovative in the country or in the proposed context. How is the proposed technology solution different from existing solutions? What are the benefits of the proposed technology solution compared to existing solutions (in the country of implementation) for the same problem? Maximum 200 words.</i></p>
<p><b>B11: Scalability:</b></p> <p><i>Describe the potential for the technology solution to be scaled-up within the country and region. Please also refer to your plan on making the proposed technology solution financially viable in the region if proven successful (e.g. expected cost savings for users, potential business model for technology provider). Max 200 words.</i></p>
<p><b>B12 a: Project budget:</b></p> <p><i>State the total project budget in US Dollars (including ADB financing and co-financing). Include a breakdown of costs based on the following budget items: staff costs, equipment, consulting services, capacity building/ training, travel, miscellaneous costs.</i></p>
<p><b>B12 b: ADB grant:</b></p> <p><i>State how much grant funding in US Dollars is being sought from ADB.</i></p>
<p><b>B12 c: Applicants co- financing share:</b></p> <p><i>Calculate the co-financing share (%) and its amount, i.e. the applicant's co-financing / total project budget. Clarify where the applicants co-financing is or expected to be coming from, i.e. from the applicant and/or other investors/donors.</i></p>
<p><b>B13: Local partnerships:</b></p> <p><i>Describe local partnerships you may have for implementing the proposed project, if applicable. Refer to any written agreement or consultation you already have had with them. Also highlight any plan you have, to make sure the long-term benefit for the local community/stakeholders (e.g. capacity building, licensing and partnership arrangements), both during project implementation as well as beyond. Maximum 150 words.</i></p>
<p><b>B14: Project risks:</b></p> <p><i>List the main foreseen risks (technical, environmental, social, political, etc. risks) that can affect the successful implementation of the project. Explain measures to be taken to mitigate those risks. Maximum 150 words.</i></p>

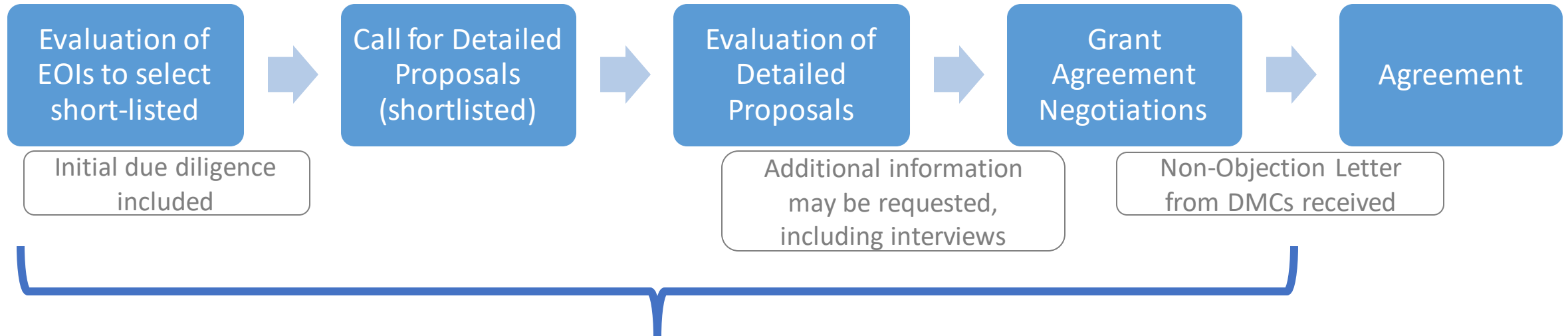


# Expected Process and Indicative Timeline



min 1+ month

About 6 weeks given to submit



*About min. 5 months (tentative, subject to the proposals)*

# What TIC expects from you



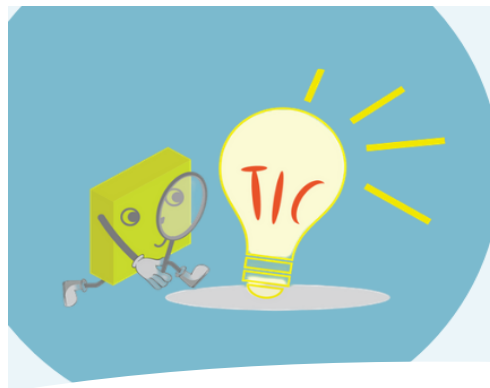
Have a vision, plan, and capability for future implementation/  
commercialization of innovative  
solutions for DMCs



Committed to measuring and  
evaluating own success, and share  
feedback to help inform decisions in  
the region



Open to publicly sharing relevant  
lessons with partners



## Technology Innovation Challenge

For more details, visit [adbhltfund.adb.org/challenge](http://adbhltfund.adb.org/challenge).

Pitch your ideas!

**by Nov. 27** Noon (UTC+8) for **Healthy Oceans TIC**

**by Dec. 4** Noon (UTC+8) for **Urban and Transport TICs**

EOI Submission:

<https://challenges.adb.org/en/challenges/tic-ocean-health>

<https://challenges.adb.org/en/challenges/tic-transport>

<https://challenges.adb.org/en/challenges/tic-urban>

Website: <https://adbhltfund.adb.org/challenge/>

Contact: [HLTgrants@adb.org](mailto:HLTgrants@adb.org)