# ADB-58307-001

Super-resolution Satellite Imagery as a Regional Public Good for Sustainable Development



ADB-58307-001

## Super-resolution Satellite Imagery as a Regional Public Good for Sustainable Development

## **Quick Facts**

Countries Bangladesh, China, Philippines, Thailand

Financial Institutions Asian Development Bank (ADB)

Status Approved Bank Risk Rating U

**Voting Date** 2024-08-02

Sectors Communications, Energy, Infrastructure, Law and Government, Technical Cooperation

 Investment Type(s)
 Advisory Services

 Investment Amount (USD)
 \$ 0.23 million

 Project Cost (USD)
 \$ 0.23 million



ADB-58307-001

Super-resolution Satellite Imagery as a Regional Public Good for Sustainable Development

## **Project Description**

According to the ADB, the TA will generate knowledge to: (i) develop a regional public good comprising an open-source method of deriving high-resolution (super-resolved) satellite imagery, and (ii) demonstrate how these images can be used to assess policy-relevant use-cases such as monitoring the green transition over time or assessing the quality of infrastructure. The TA therefore aims to not just provide policy-relevant insights, but to also provide DMCs with the tools to conduct such analyses themselves. The datasets and algorithms together with capacity building activities can be provided to identify DMCs to equip them in developing data-driven climate policies. This TA is well aligned with Strategy 2030, particularly strengthening institutional capacity in DMCs (OP6) in big data capabilities.

Super-resolved satellite images unlock several use-cases. Therefore, the final part of the TA involves applying super-resolved satellite images to a specific use-case. Such use cases may include the following, subject to data availability and quality of the trained model: (i) monitoring the transition to sustainable energy by measuring solar panel take-up; (ii) updating cadasters; (iii) monitoring the transition to sustainable energy by measuring wind turbine growth; (iv) monitoring infrastructure quality. As such, the super-resolved images will be incorporated into examining a specific policy use-case, which will be determined upon consultation with relevant stakeholders (e.g. other ADB areas, ADB Resident Missions and/or Government stakeholders).

For the use-case applications of super-resolved imagery, possible DMCs include Bangladesh, China P.R., Philippines, and Thailand, contingent on consultations with regional departments, government agencies data availability and model quality. Relevant ADB teams will be consulted as part of a collaborative approach to finalize the DMCs. This approach ensures that the SSTA is closely aligned with the operational priorities of ADB as outlined in the corporate results framework.



ADB-58307-001

Super-resolution Satellite Imagery as a Regional Public Good for Sustainable Development

## **Investment Description**

• Asian Development Bank (ADB)



ADB-58307-001

Super-resolution Satellite Imagery as a Regional Public Good for Sustainable Development

### **Contact Information**

### **ADB Team Leader:**

Yohan Iddawela - Economist (Data Science)

No contacts provided at the time of disclosure.

### **ACCESS TO INFORMATION**

You can submit an information request for project information at: https://www.adb.org/forms/request-information-form

ADB has a two-stage appeals process for requesters who believe that ADB has denied their request for information in violation of its Access to Information Policy. You can learn more about filing an appeal at: https://www.adb.org/site/disclosure/appeals

### **ACCOUNTABILITY MECHANISM OF ADB**

The Accountability Mechanism is an independent complaint mechanism and fact-finding body for people who believe they are likely to be, or have been, adversely affected by an Asian Development Bank-financed project. If you submit a complaint to the Accountability Mechanism, they may investigate to assess whether the Asian Development Bank is following its own policies and procedures for preventing harm to people or the environment. You can learn more about the Accountability Mechanism and how to file a complaint at: http://www.adb.org/site/accountability-mechanism/main.