



ADB GIS Development Initiative

- **Background**
- **Overview**
- **Short-term Priorities**
 - Carto Services Migration
 - GIS Data Archive Plan
- **Long-term Priorities**
- **Next Steps**



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Background

- GIS is cross-cutting infrastructure and is widely used across ADB programs for various activities.
- GIS Technologies are also rapidly evolving into new areas, so ADB needs to keep up to date to meet DMC needs.
- Launched GIS working group in 2020 with 20+ ADB staff nominated by departments
- Working Group Objectives:
 - Sharing insights and knowledge on GIS
 - Recommendations on effective use of GIS across ADB

Overview



Short term

Goal: Close critical gaps in handling geospatial information

Period: 2021

Components:

- Enhance Cartographic Services
- Develop ADB-compliant GIS base data maps
- Systematic capture of GIS data and knowledge

Long term

Goal: Enhance ADB's ability to leverage GIS technology in operations

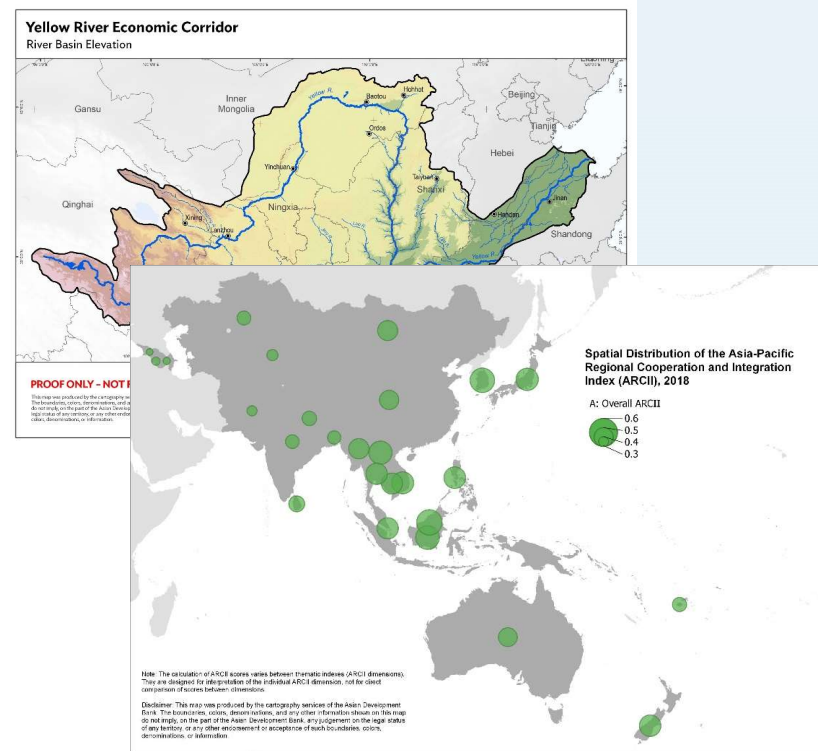
Period: 2022

Components:

- Improving GIS communication and outreach
- Enhance GIS advisory services to operations
- institutionalize GIS Support in ADB

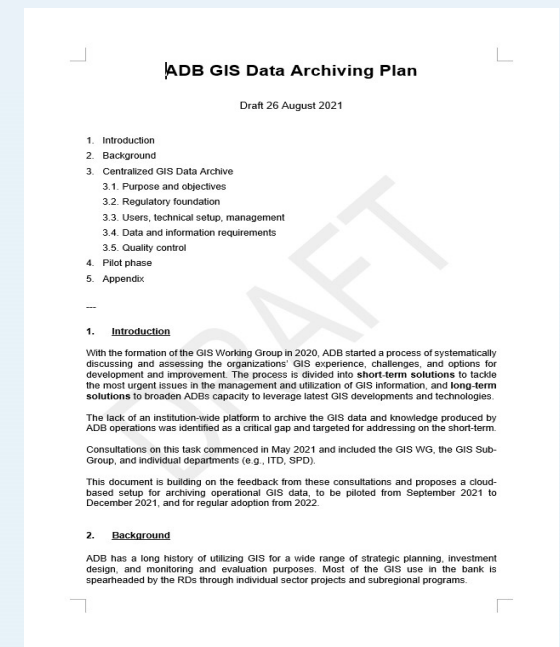
Cartographic Services

- New GIS-based cartographic function was set up under SDCC
- GIS based Carto Services launched
- Develop GIS baseline maps, and advised map design and compliance
- So far, 17 requests delivered
- All maps backed up at SharePoint folder for reuse
- Potential use case in ADB projects linking web-GIS platform (such as SPADE)



GIS Data Archiving

- ADB GIS Data Archiving Plan is prepared in 2021.
- To facilitate systematic capture of projects GIS documentation and data;
- with minimal additional effort, building on existing ADB infrastructure.
- Although some regulation in place for GIS data archiving, it has not been implemented.
- As a critical precondition for this plan, data governance mechanism should be strengthened.
- Currently, a couple of pilot projects are being implemented
- It is planned that all ADB projects implement GIS Data Archiving Plan



GIS Development LT Plan

- Integrated both ST and LT priorities
- Proposed key interventions
 - Optimize GIS compliance rules, regulations
 - Enhance GIS advisory services to operations
 - Adopt a corporatewide GIS platform
 - Institutionalize GIS Support



ADB Long-Term GIS Development: Status Quo and Proposed Interventions

2nd Draft 28 October 2021

1. Introduction
2. Status Quo ADB GIS
 - 2.1. GIS capacity
 - 2.2. Challenges
3. Long-Term GIS Development
 - 3.1. Purpose and Objectives
 - 3.2. Proposed interventions
 - 3.3. Stepwise implementation

1. Introduction

This document aims to summarize the role of GIS in ADB highlighting achievements and shortcomings, and propose a set of interventions that can lead to a more systematic and integrative use, management and communication of GIS across ADB.

Although GIS is often narrowly recognized as technology and software, the acceptance and active use of GIS largely depends on many other elements supporting the GIS workflow including effective spatial data and knowledge governance, ease of use, cost, and communication. This document gives equal attention to these foundational components of GIS to ensure that ADB's investments in GIS will be safe and sustainable, and remains highly flexible to changing priorities and needs in the future.

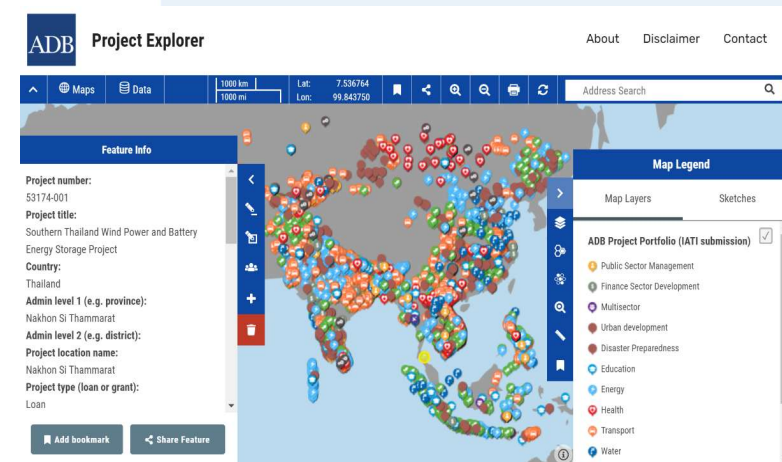
The demands on scaling up GIS efforts in ADB is largely dependent on whether its potential benefits can be explained clearly to its staff and clients, many of which are neither a technical expert nor have a need to become an expert. The document therefore puts emphasis on an overview of the current use, challenges and gaps in the current use of GIS in ADB, and a holistic set of potential interventions to improve the current situation – while trying to keep

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ADB

Use Case Scenarios

- Identify and develop GIS use case scenarios at different levels (ADB-wide, country/regional level, project level - SPADE)
- Look at different options (commercial web platform or inhouse web platforms)
- Quick start with the least financial and administrative commitment (ex. ADB's Project Explorer)



Next Steps

- Finalize the GIS Development **LT Plan**
- Stepwise **implementation (2022)**
 1. **Develop** GIS Use Cases
 - project, country, region level, ADB wide
 2. **Improve** GIS Foundations
 - Continue to implement short-term priorities
 - Optimize GIS compliance rules, regulations
 3. **Institutionalize** GIS support
 - Prepare institutional GIS Support and human resources

