ESCAP
Economic and Social Commission for Asia and the Pacific

The Geospatial Practices for Sustainable Development in North and Central Asia 2026:

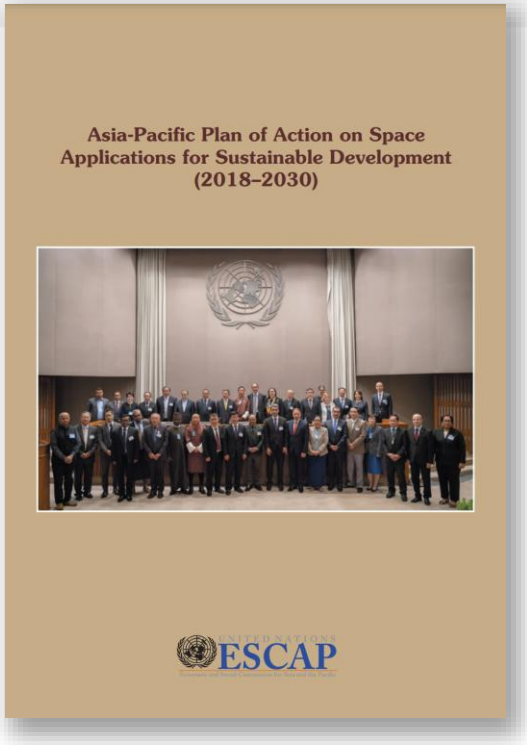
A Compendium

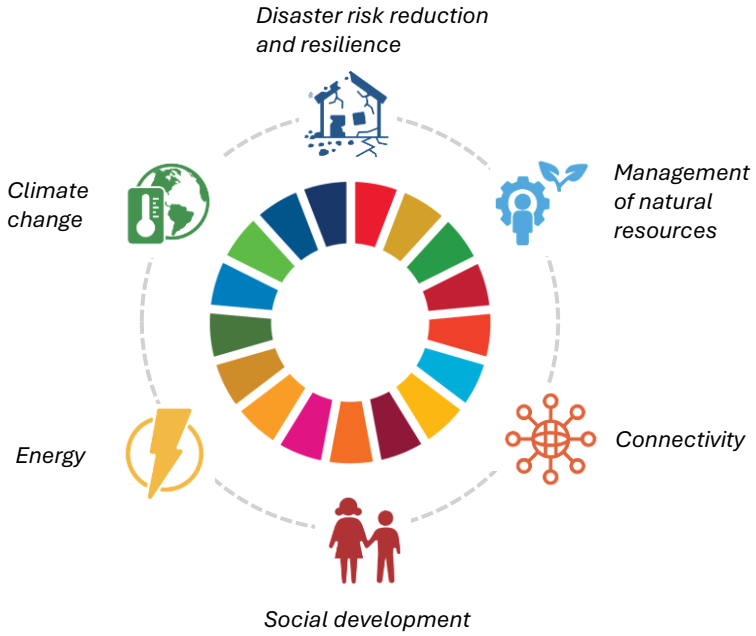
Ms. Kareff May Rafisura, Economic Affairs Officer

Ms. Samantha Medrano, Consultant

The Asia-Pacific Plan of Action on Space Applications for Sustainable Development in Asia and the Pacific (2018-2030)

Blueprint to harness geospatial information and digital innovations **towards advancing the 2030 Agenda for Sustainable Development**.





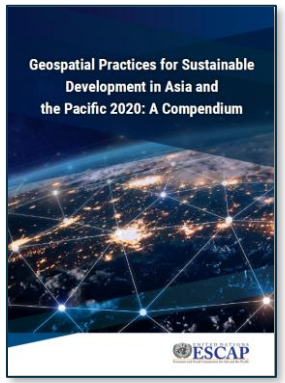
Third Ministerial Conference on Space Applications for Sustainable Development in Asia and the Pacific

Supported the issuance of a biennial report on space and geospatial applications for sustainable development in Asia and the Pacific that will **guide policy actions** over the implementation period of the Plan of Action.

Source: https://www.unescap.org/sites/default/files/MCSASD_2018_2E_Final_25102018.pdf

Compendium editions

2020 edition



Launched at GISTDA (Sri Racha, Thailand)

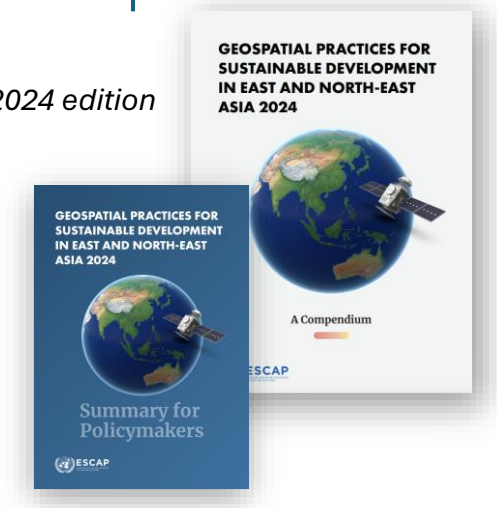


2022 edition

Launched during the 4th Ministerial Conference on Space Applications for Sustainable Development (Jakarta, Indonesia)

Launched during Thailand Space Week

2024 edition



Geospatial Practices for Sustainable Development in **North and Central Asia** 2026: A Compendium

2026 edition (forthcoming)

To be launched during the 5th Ministerial Conference on Space Applications for Sustainable Development

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Compendium editions

Presents **profiles of around 100 geospatial practices** in six thematic areas (thematic & geographical balance)

Presents **recommendations for national-level actions** to facilitate scaling and increase the impacts of geospatial practices on sustainable development

Recommends **regional-level actions** to accelerate the implementation of the Plan of Action along the three agreed modalities

Aimed mainly at **policymakers and managers**, but also for technical audiences

Coordinated by the secretariat with contributions from ICC Members and Observers

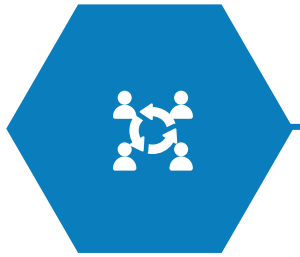
Role of the ICC

Share geospatial practices
Provide input of geospatial practices into **Form 1**

Selection of practices
Provide feedback on geospatial practices to include in the Compendium

Peer review
Provide feedback on draft Compendium

Role of the ICC



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Provide input of geospatial practices into **Form 1**



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Role of the ICC: Share geospatial practices

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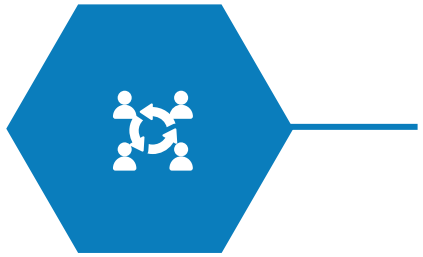
- Provide details of the practice

- Provide details of the impacts of the practice
- Include all SDGs that are relevant to the practice
- Include any other notable outcomes

- Links can include journal articles, news articles, or other sources
- Sources not available online can be sent via email (escap-sas@un.org)

Name of Geospatial Practice	[insert name here]
Description	**What issue or problem does this application address?** [insert text here] **How does this geospatial application address the issue/s mentioned above? What are the methods used?** [insert text here] **What new digital technologies are used in the application? Digital technologies include (a) cognitive digital technologies, (b) cloud-based digital technologies, (c) the Internet of Things, (d) blockchain technology, (e) big data, (f) fast internet.** [insert text here]
Impacts (current and/or expected) *Please provide a brief description of the impacts (if any)*	**How did the application help the intended users?** [insert text here] **Can you cite any outcomes that contribute to the Sustainable Development Goals (SDGs)?** [insert text here]
Links (required) *Please provide all relevant links to websites or articles. Put "N/A" if no link is available.* *If links or materials are not available on the web, you may also send materials as email attachments.*	

Role of the ICC



Share geospatial practices
Provide input of geospatial practices into **Form 1**



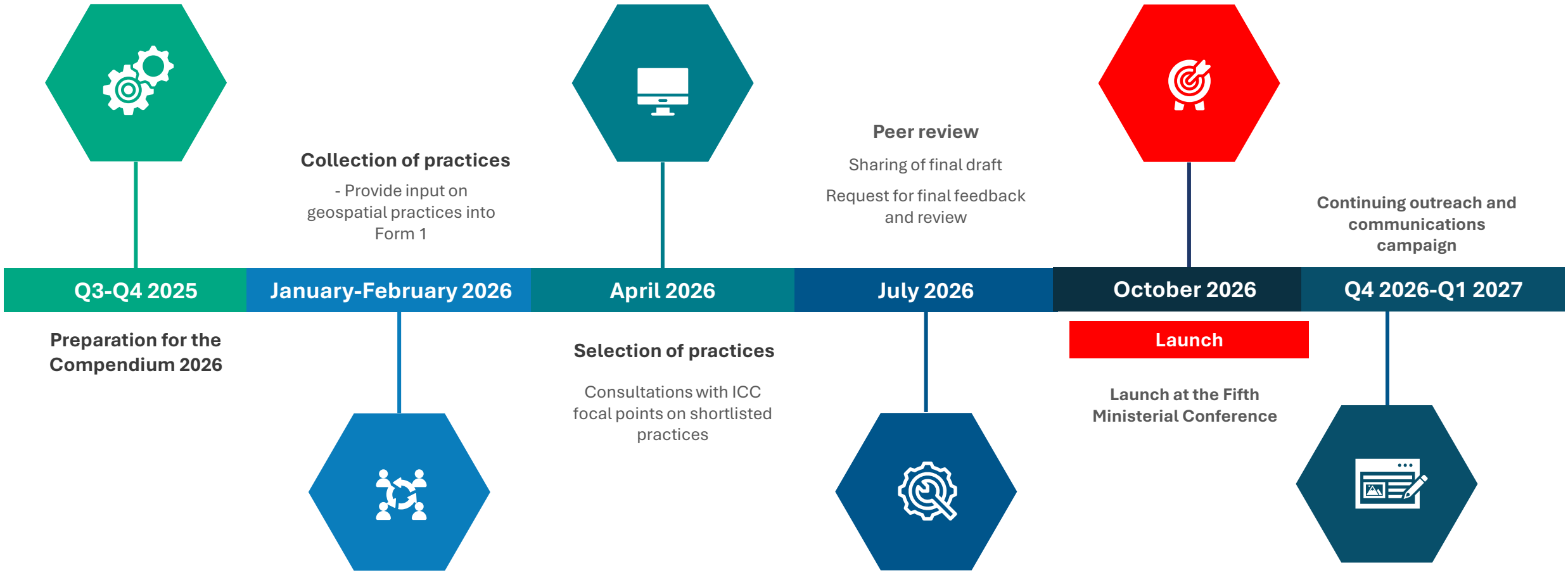
Selection of practices
Provide feedback on geospatial practices to include in the Compendium



Peer review
Provide feedback on draft Compendium

Role of the ICC: Selection of practices and peer review

Process and milestones



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Compendium 2024 edition

Outreach

Spatial Snippets for Wednesday, 30 October 2024

By **jnally** on 13 November, 2024



ESCAP has released a new report on Geospatial Practices for Sustainable Development in East and North-East Asia 2024.



IPS INTER PRESS SERVICE News Agency — News and Views from the Global South

OPINION

COP29: Making Space Applications Work for Women in Agriculture

By Xinyi Qu, Kanoff Ratsura and Gomer Padong

A group of female farmers are working in the field in Habra, India. In Asia and the Pacific, 2 out of 5 of agriculture workers are women.

Gender-responsive climate actions will take center stage at the COP29 this week as world leaders gather in Azerbaijan to raise collective ambitions. Credit: Pexels/ Dibakar Roy

BANGKOK, Thailand, Nov 12 2024 (IPS) - When the first woman in space, Valentina Tereshkova, orbited the Earth in 1963, there were only three active Earth observation satellites. Today, the number is 114 times greater.

With more and better satellites, the impacts of advances in the space sector are particularly evident in agriculture, where space data improves insights into the individual components of these landscapes (land, water and forests), as well as their interconnections.

Sixty years since Valentina Tereshkova, women continue to play crucial roles in food production worldwide. In the Asia-Pacific region, two out of five agriculture workers are women. While they face disproportionate impacts from climate change, they are also driving climate solutions. How are they benefiting from the growing capability of the space sector to support agriculture?

YouTube Video: https://www.youtube.com/watch?v=EAAXdl7QvbM

The importance of promoting and enhancing women's participation in using space applications for sustainable development and disaster risk reduction was underscored in the 2018 Ministerial Declaration on Space Applications for Sustainable Development in Asia and the Pacific.

Online format

Geospatial Practices for Sustainable Development in East and North-East Asia 2024: A Compendium

Foreword and Summary for Policymakers



- Foreword
- Summary for Policymakers

Chapter 1 - Contextualizing Space Applications



- China
- Japan
- Mongolia
- The Republic of Korea
- The Russian Federation

Chapter 2 - Digital Innovations



- Available
- Accessible
- Affordable
- Actionable

Chapter 3 - Geospatial Practices: 100 Case Studies



- Disaster Risk Reduction and Resilience
- Management of Natural Resources
- Connectivity
- Social Development
- Energy
- Climate Change

Chapter 4 - Enabling Environments



Managing data and information

- Developing national geospatial frameworks
- Integrating geospatial data with sectoral data
- Building capacity for data management
- Engaging end users

Enhancing national partnerships

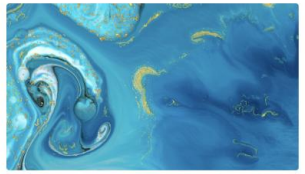
- Support innovation in space and allied sectors
- Build geospatial literacy

Chapter 5 - Regional Accelerators



- Accelerator 1: Leave no country behind
- Accelerator 2: Leverage the geospatial expertise of RESAP members in East and North-East Asia
- Accelerator 3: Measure impacts of geospatial solutions on sustainable development
- Accelerator 4: Foster regional data governance norms
- Accelerator 5: Strengthen capacity-building for GeoAI

Spotlight Practices



- China: CropWatch - an agricultural monitoring platform
- Japan: GOSAT (Greenhouse gases Observing SATellite) Series
- Mongolia: Dzud monitoring system
- The Republic of Korea: Geostationary Environmental Monitoring Spectrometer (GEMS) Application Tool
- The Russian Federation: INTERTRAN Information System for utilizing geospatial information to enhance intermodal transport across Eurasia

Geoapps



Geo-apps.info is an AI-powered tool designed to assist readers to query and generate information about specific geospatial practices available in the 2024 edition of the Compendium and various ESCAP knowledge products.

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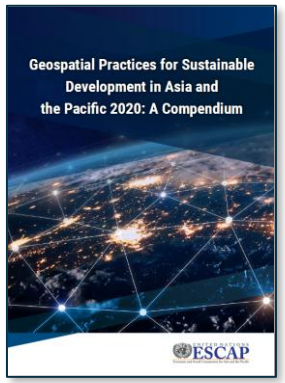
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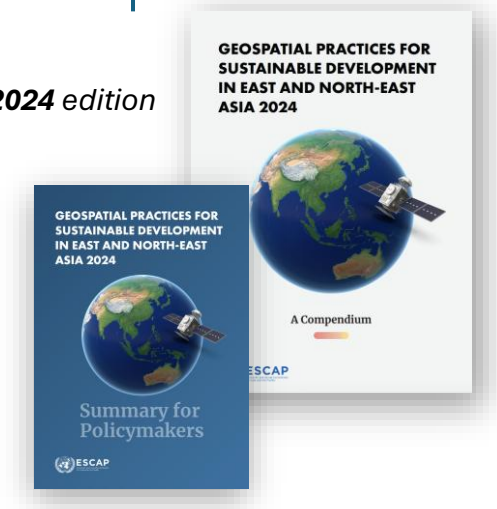
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***2024** edition*



To be launched during the 5th Ministerial Conference on Space Applications for Sustainable Development

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Yearly updates on the Geospatial Practices Database and Dashboard



***2022** edition*

Launched during Thailand Space Week

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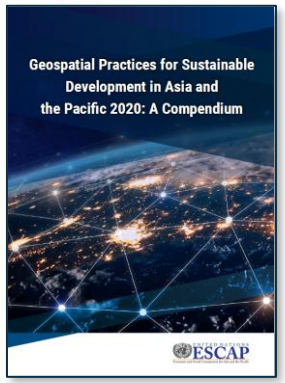
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2021

2023

2025

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Geospatial Practices Database and Dashboard

Collect, **store**, and **share good practices** on space applications in support of sustainable development

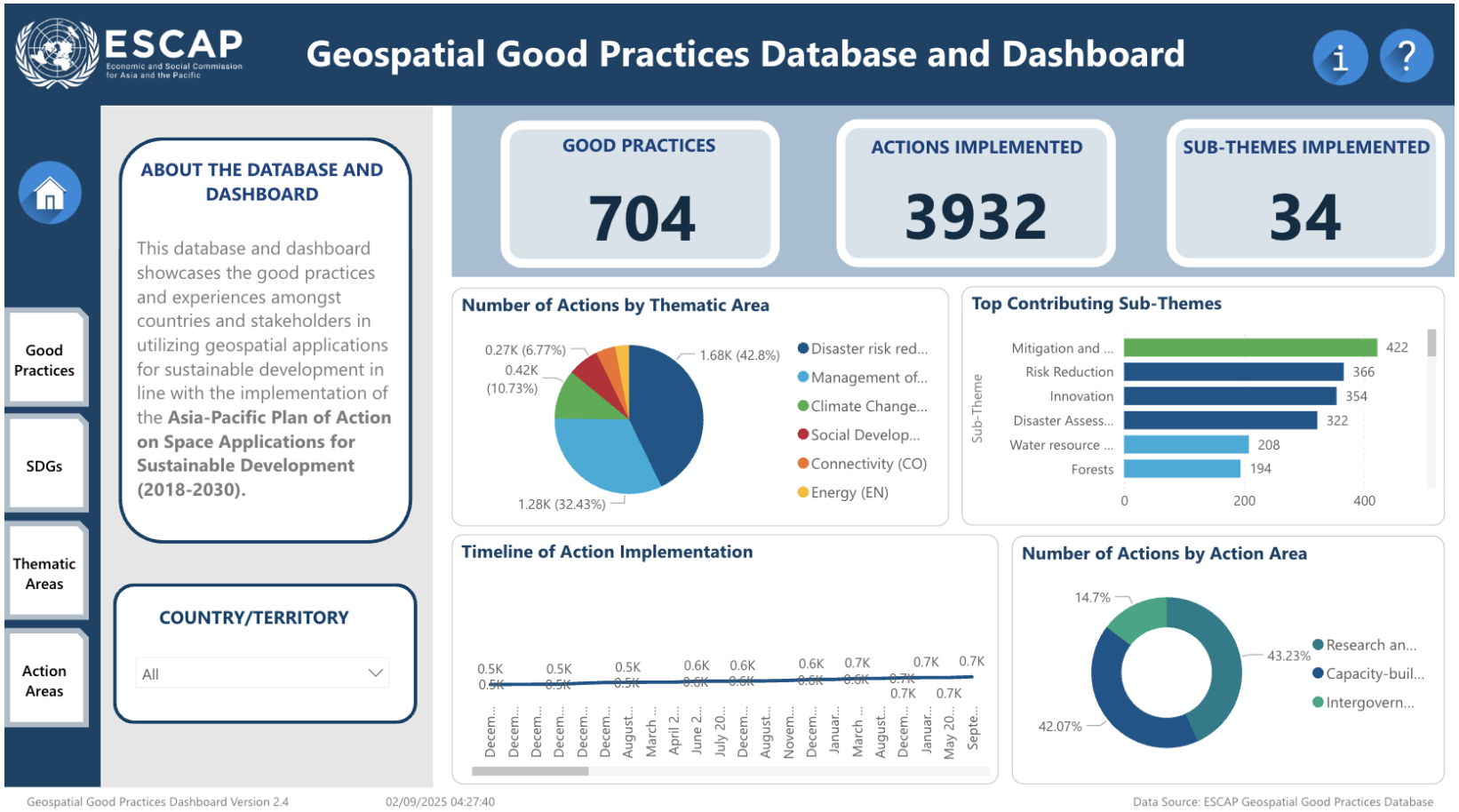
Sharing of implementation progress towards the Plan of Action

Easy-to-use storage and sharing of good practices from around the region

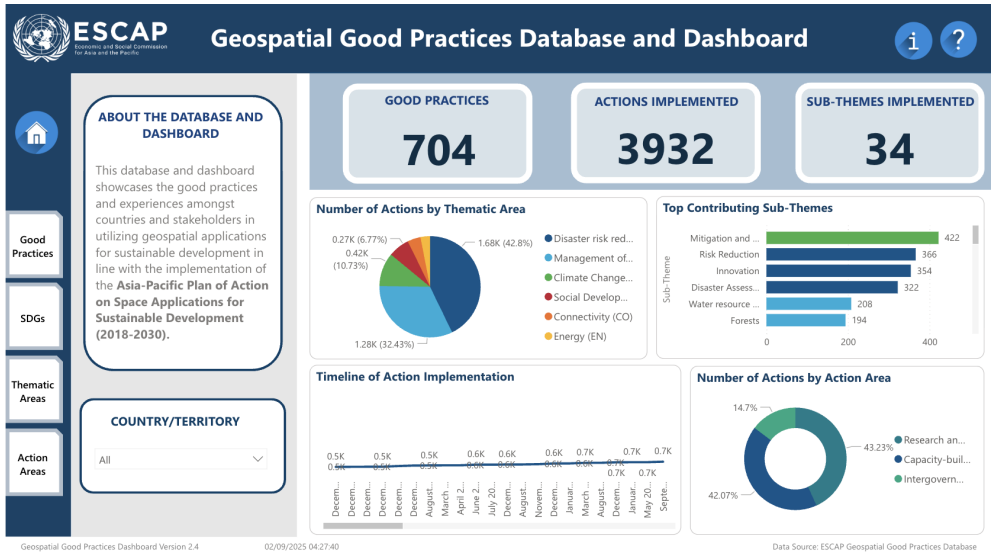
Allowing for data to be **uploaded and shared** via a portal **at any time**

It enables users to…

- **Showcase and share** good practices
- **Be inspired** by innovative examples
- **Seek collaboration**



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