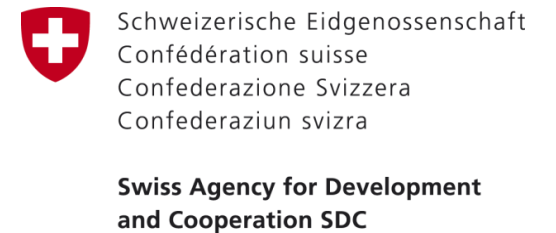


GEO Mountains Task Group 3: Meeting #1



Housekeeping

- ☐ Please **raise your hand** to request the floor
- ☐ Any comments can be made / questions asked **in the chat**
- ☐ **The meeting is being recorded** – if you have any concerns about this, please let me know;
the recording will be made available upon request
- ☐ **The slides will be circulated** to registered participants afterwards

Agenda



14:00 – 14:15	Welcome & Introduction: James Thornton, GEO Mountains
14:15 - 14:25	Analysis of existing NAPs with respect to mountains: Otto Simonett, Zoï Environment Network
14:25 – 14:50	General Discussion: All
14:50 – 15:00	Wrap Up & Next Steps: All

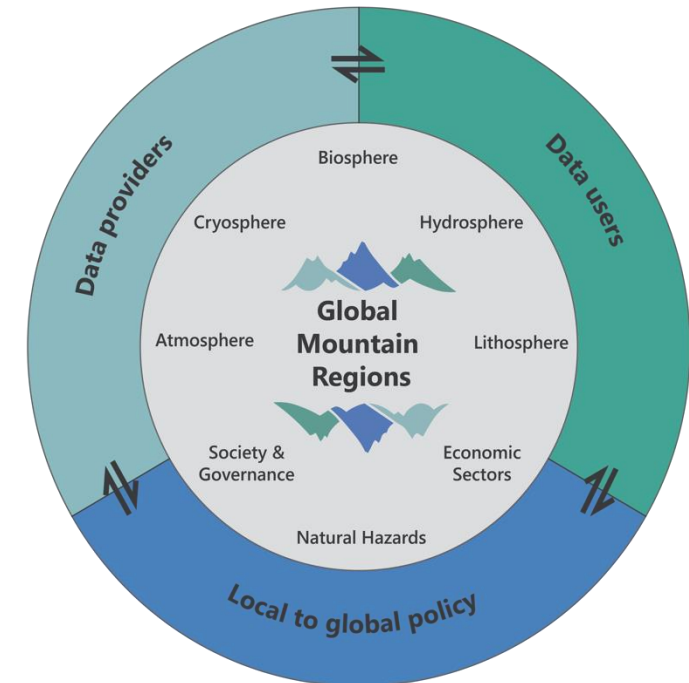


GEO Mountains

The Global Network for Observations and Information in Mountain Environments

Since 2016, the network has been a Group on Earth Observations (GEO) Work Programme Initiative, co-led by the Mountain Research Initiative (MRI) & the National Research Council of Italy (CNR)

- ❑ To **increase** the **discoverability**, **accessibility**, and **usability** of a wide range of **data and information** pertaining to **mountains globally**
- ❑ To **integrate** and **apply** such data and information for **scientific**, **policy**, and **practical impact**
- ❑ To **build**, **connect**, **coordinate**, and **share capacity** across a **community** of mountain researchers, practitioners, and policy makers



Adaptation at Altitude

- The **Swiss Agency for Development and Cooperation (SDC)** continues support the GEO Mountains Secretariat and network activities (via the Mountain Research Initiative) under the Adaptation at Altitude Programme from **2024 – 2027**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

**Swiss Agency for Development
and Cooperation SDC**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC



CONDESAN
Consejo para el Desarrollo Sostenible
de la Ecorregión Andina

ICIMOD



**UNIVERSITÉ
DE GENÈVE**



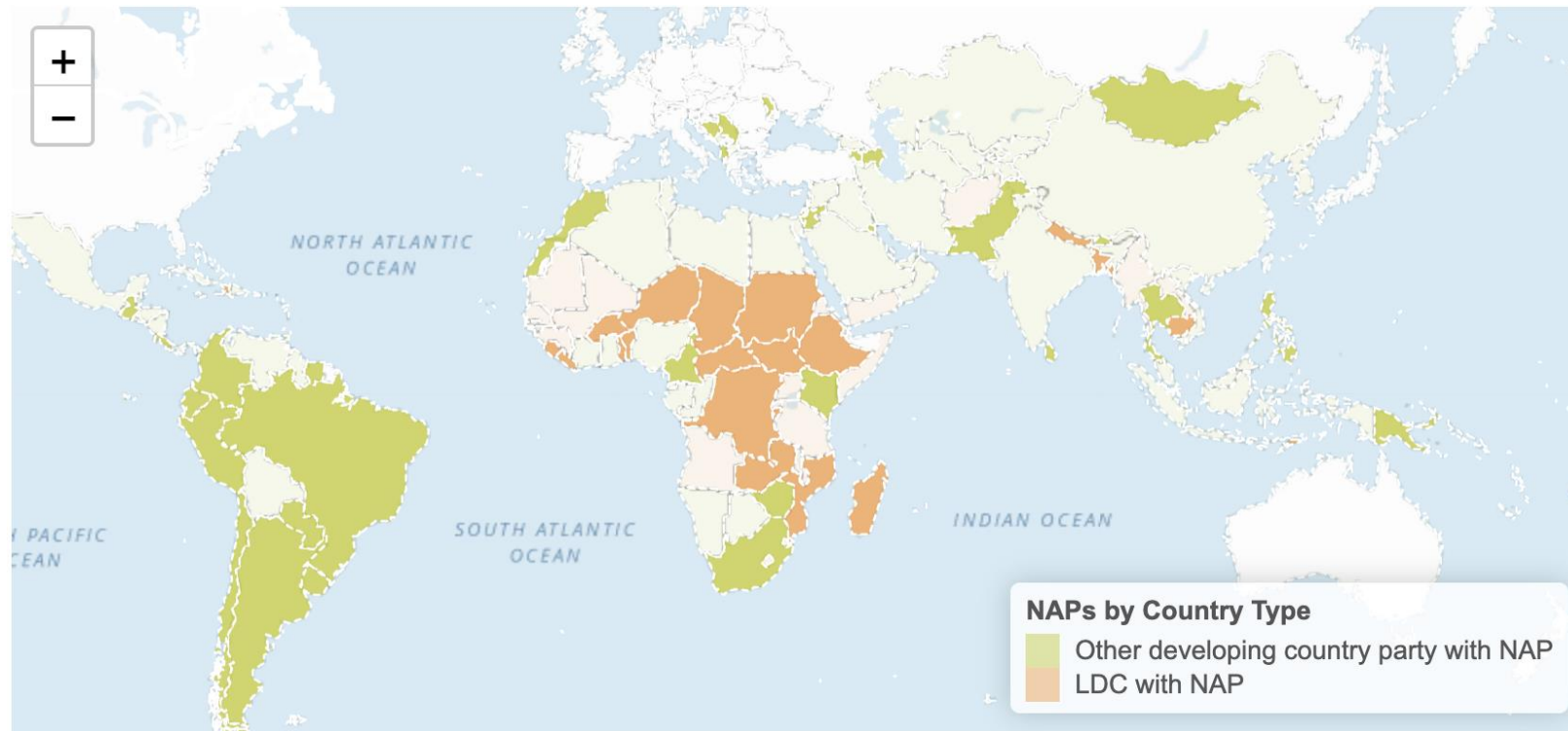
National Adaptation Plans (NAPs)

National Adaptation Plans (NAPs) are **strategic planning processes** established under the UNFCCC's Cancun Adaptation Framework (2010). They help countries:

- ☐ Identify medium- and long-term climate adaptation needs
 - ☐ Integrate adaptation into national development planning
 - ☐ Reduce vulnerability and build resilience to climate change impacts
-
- ☐ **All developing countries** are invited (not legally required) to formulate NAPs
-
- ☐ **Least Developed Countries (LDCs)** are a **particular focus**, as NAPs build on earlier efforts like National Adaptation Programmes of Action (NAPAs)
-
- ☐ Non-LDC developing countries are also encouraged to engage in the NAP process

National Adaptation Plans (NAPs)?

❑ As of yesterday, **63 countries** have submitted **NAPs** to the UNFCCC NAP Central:



<https://www.napcentral.org/submitted-naps>

❑ The process is **continuous, iterative, and country-driven**

New (2025) [Draft] NAP Technical Guidelines



- ☐ All **new or updated NAPs** are **strongly encouraged** to follow the updated technical guidelines, but it is **not mandatory**

They help ensure that NAPs are:

- ☐ Coherent across sectors and scales
 - ☐ Aligned with climate scenarios and national development priorities
 - ☐ Designed for implementation and funding access
 - ☐ Compatible with international reporting and review (e.g., under the Global Stocktake)
-
- ☐ But they are **non-prescriptive / can be adapted** by countries according to their context, capacity, and progress

Supplementary Materials

- ☐ Include **sectoral briefs, toolkits, case studies, and training materials**
- ☐ Help countries **tailor and operationalise** the main Technical Guidelines

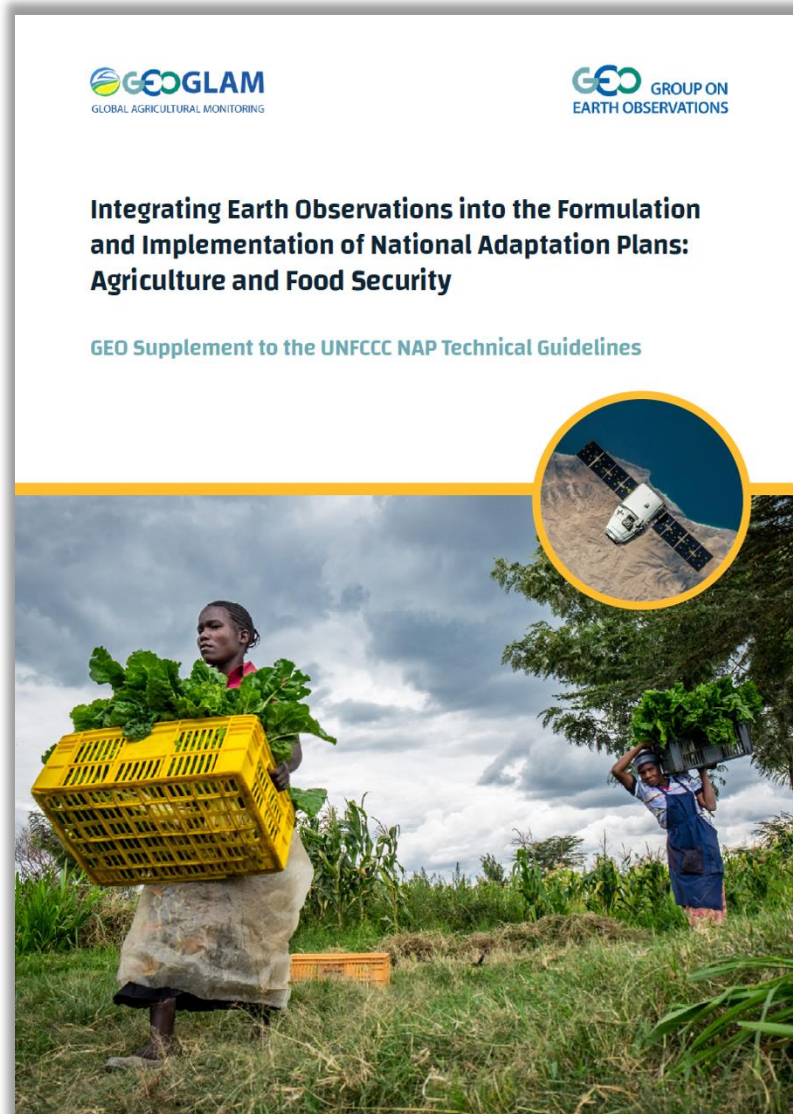
Under GEO, GEO Mountains is convening inputs to develop a Supplement on “Earth Observation for Mountains” (EO4 Mountains)

- ☐ This is a foreseen contribution to the observance International Year of Glaciers’ Preservation 2025, which entails adapt and mitigation by countries (+ Decade of Action on Cryospheric Sciences)



2025
International
Year of Glaciers'
Preservation

GEOGLAM Example



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UNCCD (+ GEO LDN) Example

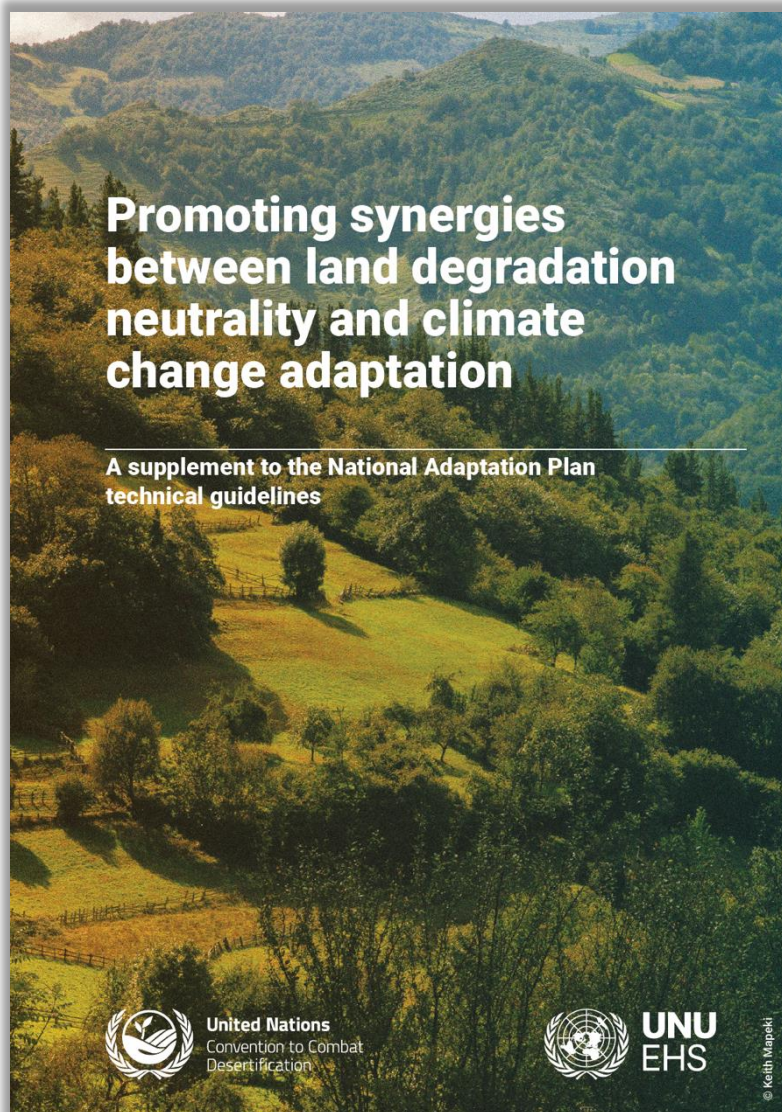


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<https://www.unccd.int/resource-s/publications/promoting-synergies-between-land-degradation-neutrality-and-climate-change>

CERICS, GEO Blue Planet et al. :Example

Coastal and ocean adaptation

Recommendations to improve the inclusion of coastal and ocean adaptation requirements in the development of National Adaptation Plans



- Part one consists of six “building blocks” and five “other considerations” that provide **context and knowledge** to assist LDCs that are considering the inclusion of coasts and oceans and associated Blue Economy¹ sectors as priority areas in the development of NAPs.
- Part two provides **practical guidance** to assist LDCs to improve or initiate the inclusion of coastal and ocean adaptation requirements in the NAP development process. The guidance **links back to and is supported by the six building blocks and five other considerations**. It is presented as a series of four elements, each broken down into practical steps and activities, with useful recommendations for implementation.

Some advice given the GEO Mountains



- ☐ Bearing in mind the intended readership, keep the document **as concise as possible**
- ☐ Supplements can both **raise topics / issues which may be currently underrepresented or overlooked in NAPs** *and/or* seek to support countries in **addressing priorities that have already been identified**
- ☐ Such supplements are ultimately intended to assist **NAP implementation**; consider what could be done to ensure that this product is not “just another document”! (e.g. provide supporting case studies / examples / data / code / notebooks to support replication / transfer?)
- ☐ Continue engagement with the **UNFCCC Secretariat** / **seek to have the product endorsed**
- ☐ Don't underestimate the amount of work involved / time requires (including consultation steps and final copy-editing / typesetting)

Previous & ongoing NAP analysis w.r.t mountains



Otto.Simonett

Geneva

Director

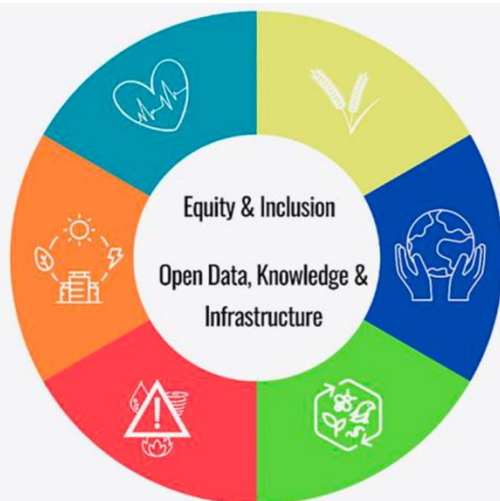
Creative thinking and leadership

General Discussion: Typologies



INITIAL FOCUS AREAS

- AGRICULTURE & FOOD SECURITY
- WATER & LAND SUSTAINABILITY
- ECOSYSTEMS-BIODIVERSITY & CARBON MANAGEMENT
- WEATHER, HAZARD, & DISASTER RESILIENCE
- CLIMATE, ENERGY, & URBANIZATION
- ONE HEALTH
- EQUITY & INCLUSION
- OPEN DATA, KNOWLEDGE, & INFRASTRUCTURE



Socioeconomic opportunities / migration from / to mountains



Infrastructure / transport



Human health / cultural value / tourism



Mining



Agriculture / forestry



Biodiversity / genetic resources / pollination



Energy / hydropower



Water / water storage / water supply



Natural hazard / risk management

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Global goal on adaptation.

KEY SECTORS PRIORITIZED IN THE FRAMEWORK



WATER & SANITATION

Reducing climate-induced water scarcity & attaining climate-resilient water supply & sanitation and access to safe & affordable potable water for all



FOOD & AGRICULTURE

Enhancing climate resilient food and ag production, supply & distribution and equitable access to adequate food and nutrition for all



HEALTH

Attaining health resilience against climate change and promoting climate-resilient health services & reducing climate-related morbidity



ECOSYSTEMS

Accelerating ecosystem based adaptation and nature-based solutions



INFRASTRUCTURES

Building climate resilient infrastructures and human settlements to ensure essential services for all



LIVELIHOODS

Reducing climate impacts on poverty eradication & livelihoods, and promoting adaptive social protection



CULTURAL HERITAGE

Protecting cultural heritage from climate-related risks guided by traditional, indigenous peoples and local knowledge

TARGETS FOR ITERATIVE ADAPTATION CYCLE

The framework details a series of targets linked to different stages of the adaptation policy cycle

By 2030, calls the parties to



IMPACT, VULNERABILITY & RISK ASSESSMENT

Conduct up-to-date assessments on climate hazards, impacts & exposure to risks & vulnerabilities



PLANNING

Put in place country-driven, gender responsive NAPs, policy instruments and mainstreamed adaptation planning processes



IMPLEMENTATION

Progress in implementing NAP policies, strategies & reduce impacts of climate hazards



MONITORING, EVALUATION, LEARNING

Design & operationalize a system for monitoring, evaluation & learning

General Discussion: Topics, Structure, Interest

To **brainstorm an outline** for our document

To **seek expressions of interest** from GEO Mountains members (individuals / institutions) to contribute to specific sections > **subset (mailing list) of TG 3 members**

❑ Possible topics / structure:

Climate (change)	Remote sensing	Case Study 1
Cryosphere	In situ monitoring	Case Study 2
Water	Traditional / Indigenous knowledge	Case Study 3
Hazards & Risk (inc. EWS)	(Modelling)?	
Ecology & Biodiversity		
Society & Economy		

*Select Case Studies
from existing NAPs?*

How can countries use EO to support climate change adaptation in mountains? Do you have existing solutions that should be considered for inclusion?

Wrap Up & Next steps



☐ Summary of the meeting

☐ Please let us know via the chat if you would like to potentially contribute:

Name* | Email Address* | Country* | Area of Expertise (Topic and methods) | Suggested Contribution