



សិក្ខាសាលាថ្នាក់តំបន់ ស្តីពី
ការរៀបចំយុទ្ធសាស្ត្រ និងកម្មវិធីសម្រាប់ប្រទេស
អភិវឌ្ឍន៍តិចតួចក្នុងតំបន់អាស៊ី

**REGIONAL PROGRAMMING AND STRATEGY
WORKSHOP FOR ASIAN LEAST DEVELOPED
COUNTRIES (LDCs)**

ថ្ងៃអង្គារ ៥កើត ដល់ថ្ងៃ សុក្រ ៨កើត ខែភទ្របទ ឆ្នាំថោះ បញ្ចស័ក ព.ស.២៥៦៧
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**SEPTEMBER 19-22, 2023
SIEM REAP, THE KINGDOM OF CAMBODIA**

Day 2 September 20 (Wednesday)



- REFLECTIONS FROM DAY 1
- CLIMATE CHANGE IMPACT IN PROJECT DESIGN
- COUNTRY PROJECT CONCEPT DEVELOPMENT (COUNTRIES ONLY)
- LUNCH
- COUNTRY PROJECT CONCEPT DEVELOPMENT (COUNTRIES ONLY)
- BREAK
- INSIGHTS FROM GEF STAP
- LEARNING STATIONS
- BREAK
- INFORMATION ON FIELD TRIP

Reflection from Day 1



For materials from Day 1, please check:

<https://www.thegef.org/events/regional-programming-and-strategy-workshop-asian-least-developed-countries>



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Adaptation by Design

Designing Impactful Projects with Climate Rationale

GEF LDCF Asia Workshop

September, 2023

A Common Practice...

I have the solution!

What is the problem?



A Common Practice...

I have the solution!

What is the problem?

Let's ask the right questions



Why Climate Adaptation by Design Needs Clear Climate Adaptation Rationale



FOCUS on
climate problem



COST-EFFECTIVE
interventions



IMPACT
for climate
adaptation



MALADAPTION RISK
avoidance

The Starting Point

*For designing impactful projects with
a strong climate adaptation rationale*

**WHAT IS THE CLIMATE PROBLEM
TO BE SOLVED?**

Climate problem **now**
AND in the **future?**

Climate hazards **AND**
impacts of those hazards?



Elements of Climate Adaptation by Design

Climate risks

CLIMATE HAZARDS

(e.g. increased heat, variable rainfall; sea level rise, etc)

Scenarios considering trends and variability of hazards using existing data ideally for 2 scenarios to 2050)

CLIMATE IMPACTS

(e.g. crop failure, infrastructure damage, coastal flooding, etc)

Types and scale of current and expected impacts from the hazards

SOLUTIONS

(e.g. Project outcomes, outputs, activities)

Addressing impacts on the target population (considering cost/benefits and financial & physical sustainability)

IMPACT MONITORING & LEARNING

*Monitor effectiveness of the strategy and **adjust accordingly.***

Additional Considerations

Climate risks

CLIMATE HAZARDS

(e.g. increased heat, variable rainfall; sea level rise, etc)

Scenarios considering trends and variability of hazards (using existing data ideally for 2 scenarios to 2050)

CLIMATE IMPACTS

(e.g. crop failure, infrastructure damage, coastal flooding, etc)

Types and scale of current and expected impacts from the hazards

SOLUTIONS

(e.g. Project outcomes, outputs, activities)

Addressing impacts on the target population (considering cost/benefits and financial & physical sustainability)

IMPACT MONITORING & LEARNING

Monitor effectiveness of the strategy and **adjust accordingly**.

+ EXACERBATING FACTORS

Solutions aim to address vulnerability:

SENSITIVITY

EXPOSURE



ADAPTIVE CAPACITY



Sources of Climate Data



Country documents

- **Adaptation Communications to the UNFCCC**
- **National Communications to the UNFCCC**
- **National Adaptation Plans**
- **National Adaptation Programmes of Action**
- **Meteorological Services reports**
- **Others**



Examples of open-source data

Climate Information

<https://climateinformation.org>

Costing Nature

<http://www1.policysupport.org/cgi-bin/ecoengine/start.cgi?project=costingnature>

Climate Scenarios

<https://climatescenarios.org/>

Copernicus Climate Data Store

<https://cds.climate.copernicus.eu/cdsapp#!/home>

IPCC Interactive Atlas

<https://interactive-atlas.ipcc.ch/>

IRI/LDEO Climate Data Library

<http://iridl.ldeo.columbia.edu/>

Shared Socioeconomic Pathways Database

<https://tntcat.iiasa.ac.at/SspDb/dsd?Action=htmlpage&page=20>

WMO Climate Data Catalogue

<https://climatedata-catalogue.wmo.int/assessed-datasets>

World Bank Climate Change Knowledge Portal

<https://climateknowledgeportal.worldbank.org/>

Getting Started

STEP 1

DEFINE THE CLIMATE PROBLEM

Risks of climate
hazards and its **impacts**

✔ **Climate hazards**

Increased **intensity and variability of rainfall + temperature** expected to increase by 2050

✔ **Climate impacts**

...expected to decrease food production (crop types, how much, where)

For example:

STEP 2

DESIGN THE SOLUTION

Directly **address the climate impacts**

Transition to **drought and flood resilient practices** (what practices, where, who)

SUSTAINABLE SOLUTIONS

ACCESS TO CAPITAL

✔ **Financially sustainable**

Micro lending for producers to transition to production practices that are drought and flood resilient

TRAINING

✔ **Institutionally sustainable**

Ministry of Agriculture and local farmers cooperatives training farmers in drought and flood resistant technologies.

POST-HARVEST TECHNOLOGIES

✔ **Cost effective**

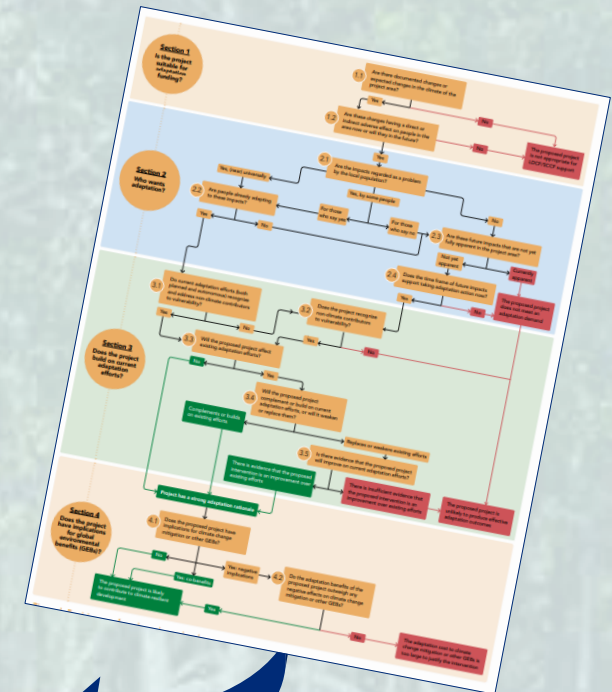
SME development for post-harvest storage and transportation to avoid loss of produce



Published Guidance

• BY the GEF Scientific and Technical Advisory Panel (STAP)

<https://stapgef.org/sites/default/files/2022-08/56067%20Decision%20Tree%20paper%20-%20web.pdf>



ADAPTATION BY DESIGN



**DESIGNING IMPACTFUL PROJECTS WITH
CLIMATE ADAPTATION RATIONALE**

GEF LDCF Regional Workshop

September 2023



COUNTRY PROJECT CONCEPT DEVELOPMENT

Insights from the GEF Scientific and Technical Advisory Panel (STAP)

STAP

SCIENTIFIC AND TECHNICAL
ADVISORY PANEL

*Provides independent advice to the
Global Environment Facility*

Mark Stafford Smith
Senior Advisor to the STAP Chair



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Learning Stations



Objectives

- Share key lessons learned;
- Exchanges of experiences in preparing and implementing the GEF Projects

Set-up

Learning Station 1: *Project Name:* Reducing Climate Change-induced Risks and Vulnerabilities from Glacial Lake Outburst in the Punakha-Wangdi and Chamkhar Valley in Bhutan
Agency: UNDP



Group 1

Group 2

Learning Station 2 *Project Name:* Strengthening Agro-climatic Monitoring and Information Systems to Improve Adaptation to Climate Change and Food Security in Lao PDR
Agency: FAO

- Group 1: Bangladesh, Bhutan and Nepal <Facilitator: Rawlestone Moore, GEFSEC >
- Group 2: Lao PDR and Cambodia <Sano, GEF CSO Network >

- Each group will move from one Learning Station to the next in 30 min. (Presenters and facilitators will stay in a same learning station and groups will move next stations.)
- Each Learning Station has 10 min presentation about project overview and 20 min Q&A and discussion about the projects, their key benefits, and lessons learned.
- For example, Group 1 starts from Learning Station 1, and move to Learning Station 2 after 30 min.
- Presenters will make two same presentations and Q&A and discussion for two different groups, Group 1 -2.



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