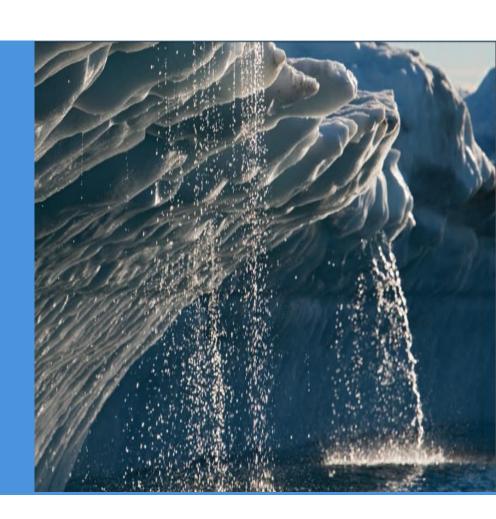
#### United Nations Framework Convention on Climate Change

# CGE TRAINING MATERIALS ON VULNERABILITY AND ADAPTATION ASSESSMENT

Integration, Mainstreaming, Monitoring, and Evaluation





#### Outline

- Integration
- Mainstreaming
- Monitoring and evaluation (M&E)



#### Understanding integration



- Unite
- Combine existing and new
- Incorporate into a larger unit
- Bring together into a single system that functions as one



 End result - of a process that aims to bring together different elements so that climate change becomes part of a larger, more comprehensive system.



## What is the principal objective of doing integration of vulnerability and adaption assessment outcomes across sectors?

 The objective of integration is to understand the interrelationships between sector-specific climate change and the relative importance of risks to help inform impact and adaptation priorities across sectors.



#### Why is integration important?

- Impacts do not happen in isolation:
  - a) Impacts in one sector can adversely or positively affect another
  - b) Some sectors are affected directly and indirectly
  - c) Others just indirectly
  - d) Sometimes a change in one sector can offset the effect of climate change in another sector
- Integration across an economy or society can help in understanding the vulnerability of a municipality, region, or country
- Climate change adaptation Sustainable development



#### Main approaches to integration of results

Integrating impact assessment outcomes:

#### a) Cross-sector:

- Link related sectors
  - Water and Agriculture
  - Water and Human health
  - Coastal Resources

#### b) Multi-sector:

- Economy or system wide
- Sectors may not be related to each other
  - Integrated assessment models
  - Economic models



#### **Cross-sector integration**

#### Qualitative:

- a) Identify links between sectors and highlight the direction of impacts
- b) Rely on the application of expert judgement:
- c) Extended process using a broader group of stakeholders
- Quantitative integration
  - a) Use common metric, e.g., water supply to examine linkages



#### Multi-sector integration

- Should be as comprehensive as possible, covering as many affected sectors, regions and populations as possible
- A clear understanding of how society as a whole might be affected by climate change:
  - a) Breadth of impacts
  - b) Severity of impacts
- Two common approaches:
  - a) Economic impacts as common currency (based for example on general equilibrium economic models)
  - b) Qualitative prioritization



#### Multi sector-integration: Simple approach-matrix/ranking

Table 4.9.1: Cross-linkages between the targeted sectors

SECTORS	Climate Change	Water Resources	Agriculture	Forests and Biodiversity	Energy Production	Glaciers and GLOFs	Human Health
Climate Change	-	XXX	XXX	XX	XX	XXX	XX
Water Resources	XXX	,	XXX	XX	XXX	XX	XX
Agriculture	XXX	XXX		XXX	Х	XX	XX
Forestry and Biodiversity	XX	XX	XXX		XX	XX	Х
Energy Production	XX	XXX	Х	XX	,	XX	Х
Glaciers and GLOFs	XXX	XX	XX	XX	XX	,	XX
Human Health	XX	XX	XX	Х	Х	XX	-

X: Little Impact

XX: Significant Impact

XXX: Very Significant Impact



Mainstreaming Climate Change



#### Why mainstream?

- Mainstreaming focuses how to incorporate climate change vulnerability and adaptation in planning, both at the local and/or national level.
- It is to ensure that:
  - a) The potential impacts of climate change is given due consideration in the development.
  - b) The necessary resources/budget are provided for in plans, projects and programmes.



#### UNDP principles for mainstreaming

- Understand linkages between climate change and development
- Mainstream into ongoing processes, e.g.,
  - a) National development plans
  - b) Sustainable development plans
  - c) Poverty reduction plans
- Incorporate adaptation into
  - a) Budgeting and finance
  - b) Implementation
  - c) M&E



#### Approach

- Find entry points:
  - a) Identify links between climate change and national development priorities
- Mainstream into policy processes:
  - a) National development plans
- Implementation challenge:
  - a) Ensuring that it is mainstreamed into budgets and financing
  - b) Implementation and monitoring



## What is the difference between integration and mainstreaming?

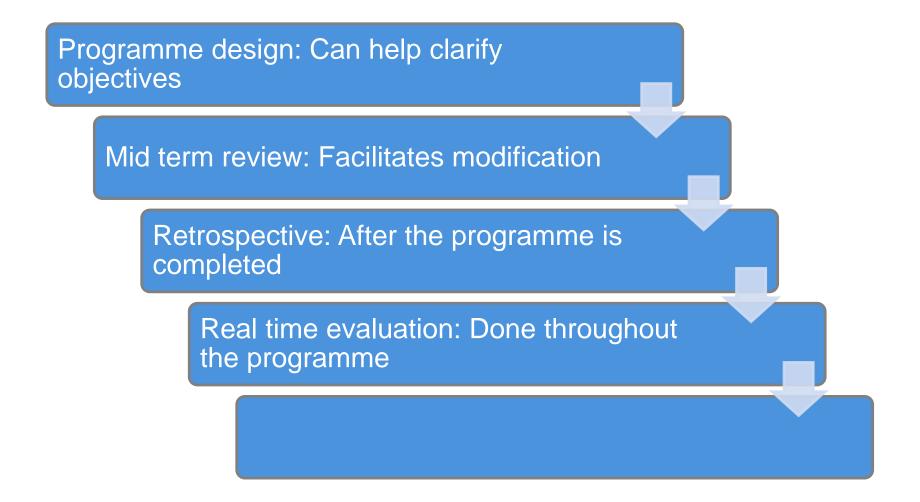


#### Monitoring and Evaluation

- Identifies progress towards defined objectives
- Identifies factors that affect progress
  - a) Factors that contribute to success
  - b) Barriers that limit or inhibit success
- Provides useful information to contribute to modification of design or implementation of programs



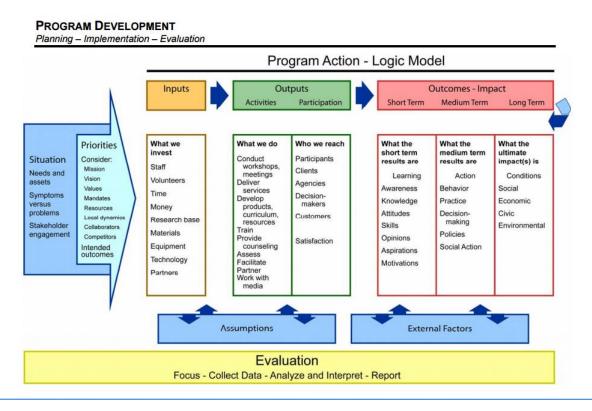
### When could Monitoring and Evaluation be used





#### Major Monitoring and Evaluation components

- Questions that M&E needs to answer
- Evaluation framework
  - a) Typically logic model or theory of change





#### Challenges of Monitoring and Evaluation

- Monitoring performance of adaptation can be challenging:
  - a) Defining successful adaptation
  - b) Defining and evaluating success against moving baselines
  - c) Determining contribution of the program
  - d) Identifying conclusive indicators
  - e) Gathering relevant performance data to assist in evaluating impacts



#### **Evaluation**

- The evaluation of both the process undertaken and the outcomes is an important component.
- Evaluation of the process should consider any particular problems encountered during the process or suggestions for improvement and be recorded for future reference.
- Evaluation of outcomes considers the appropriateness of any predictions made.



#### **Elements of Evaluation**

- a) Progress of implementation of the recommended adaptation measures, including the involvement of key stakeholders and the incorporation of impacts of climate change into planning processes;
- **b) Baseline indicators** established during the scoping stages are used as reference for assessment of changes over time.
- c) Monitoring and surveillance of the status of the potentially affected sectors/systems. It may be relevant to include new mechanisms for collection data that demonstrates links to climate conditions;



### Thank you

