

**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	X	XX	XX
Forestry and Biodiversity	XX	XX	XXX	-	XX	XX	X
Energy Production	XX	XXX	X	XX	-	XX	X
Glaciers and GLOFs	XXX	XX	XX	XX	XX	-	XX
Human Health	XX	XX	XX	X	X	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

Programme design: Can help clarify objectives

Mid term review: Facilitates modification

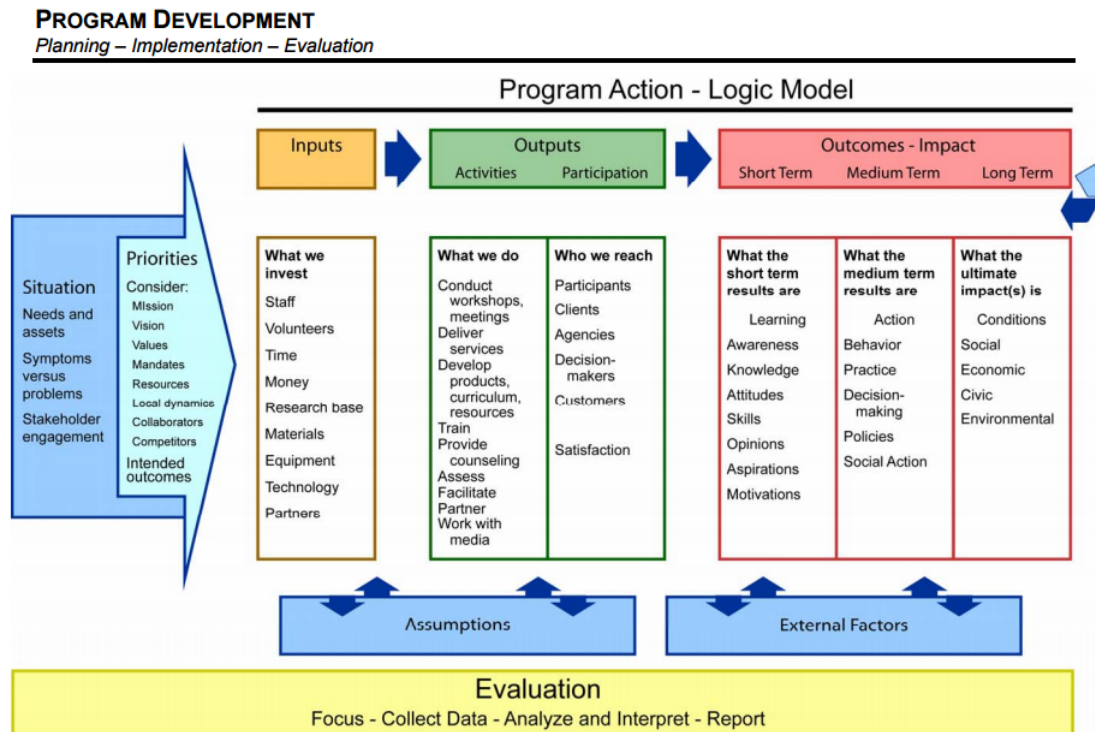
Retrospective: After the programme is completed

Real time evaluation: Done throughout the programme



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

