

Conclusions from Group 1: Assisting with application of tools and methods

Discussion topics

- What tools and methods are under the discussion?
- Where assistance in application and where further development of M&T is most needed?
- What are the key challenges?
 - General for promoting adaptation
 - Specific for application of methods and tools
- What would be specific actions to address the challenges, including through the NWP?

What tools and methods are under the discussion?

- Methods and tools for V&A assessment
- Methods and tools for involving stakeholders and key decision-makers in developing of adaptation
- Tools for raising awareness on climate change and the “weather revelations” of it

Overarching statement:

- Need to differentiate between climate tools and methods to use them adequately.

Where assistance in application is most needed?

- Participatory process
- Trend analysis
- Aggregating of existing data incl climate and ecosystem
- Tool that use historical analysis of climatic extremes (and responses)
- Prediction tools
- Tools for targeting specific stakeholders
- Determining options or responses
- Tools for understanding the risk and risk perception
- Perceiving the problem and target audience for communication of climate change risks
- Tools for process for prioritization

Where further development of M&T is needed ?

- GIS/remote sensing tools that can help with monitoring changes (e.g. in glaciers, vegetation) in critical areas
 - This information would help in convincing policy makers and also developing responses e.g. need for water storage over the summer, crop changes etc.
- Tools to assess for using results of impacts assessment to convince decision-makers to take action
- Planning tool to help with responses from impacts (e.g. water management, urban planning, crop and economic diversification)
- Tools for awareness raising

Challenges

- How to identify existing instruments and institutions for helping in integrating adaptation?
- How to include multiple stakeholders both for designing adaptation action, using tools and taking action on the ground?
- How to handle and communicate the uncertainty of results of the V&A assessment?
- Lack of understanding on climate change especially in non-environmental sectors and for key stakeholders

Challenges related to tools/methods

- Lack of knowledge of sophisticated tools and models and on impact tools.
- Models require climate data set – not always available
- Models also need “training” or capacity development to use them so they are no longer black boxes and thus can be used in informed way and modified

Possible actions: Assisting in application

- **Build partnership** for structured and coordinated assistance in using, modifying and/or further developing the methods and tools
 - For example through activities of NWP partner organizations
- **Develop guidance** (possibly in a form of an internet based clearing house) to provide users an interactive way to share information on different methods and tools and their application and usefulness for different types of tasks

Possible actions: some specifics on the guidance on using the various tools, methods and models

- Determine what M&T exist
- Include ones from the past (e.g. from sectoral communities) that can be modified for climate change adaptation (e.g. planning tools like SEA, EIA, water conservation tools, etc)
- Provide guidance on when to use what tool/model
- Emphasis on usefulness of application for different areas and types of questions/tasks

Possible actions: Developing and applying tools/approaches for awareness raising

- A series of activities (e.g. conferences) at the national, regional and international level using known impacts of climate change to make actors (sectoral ministries, local governments, communities etc) aware of changing climate and its consequences
- Dialogues between CC and sectoral and DRR communities that would bring in potential tools and methods for developing climate change adaptation responses
- Guidance for media (including TV/weather presenters) on linkage between climate change and weather events

Key actions in the form of questionnaire were developed in response to the following specific needs and challenges:

- Incomplete or erroneous understanding of the meaning of climate change, impacts and adaptation
- Lack of understanding of the needs for climate information for specific sectors
- Guidance for using tools
- Tools for monitoring of glaciers using satellite images and GIS