Adaptation measures implementation matrix (Chapter 5)

Adaptation measures implementation matrix

Institutional and legislative setup analysis and assessment for adaptation implementation plan.

Identification of Barriers to adaptation to Climate change impacts

Institutional and legislative setup analysis and assessment for adaptation implementation plan

approaches for the analysis

Governance description

Governance design

Governance emergence

Governance description

Describe the actors and institutions relevant for adaptation in the water And Health sector

Review the institutional context for adaptation, and identify levels of decision-making: at national governments, local governments and private individuals levels

Requires no strong theoretical assumptions on the part of the analyst, and contributes to adaptation by providing a more comprehensive description of the policy context in which adaptation takes place.

Governance Design

Addresses the question of how to design effective institutions, on the theoretical assumption that the link between institutions and outcomes can be understood and predicted with some confidence

One kind of governance design is policy analysis where it seeks to determine "which of various alternative policies will achieve a given set of goals in light of the relations between the policies and the goals. It is applied ex-ante to improve the design of policies, programmes or projects.

Critical task is "climate proofing" the policy in question. "Proofing" policies involves addressing relevant risks early in the policy formulation process, to identify any obvious effects on other sectors or objectives. (see GIZ, 2011, for climate-proofing development plans)

Governance emergence

Aims at understanding and explaining governance emergence

Provides input regarding institutional attributes that enhance the adaptive capacity of actors faced with climate risks

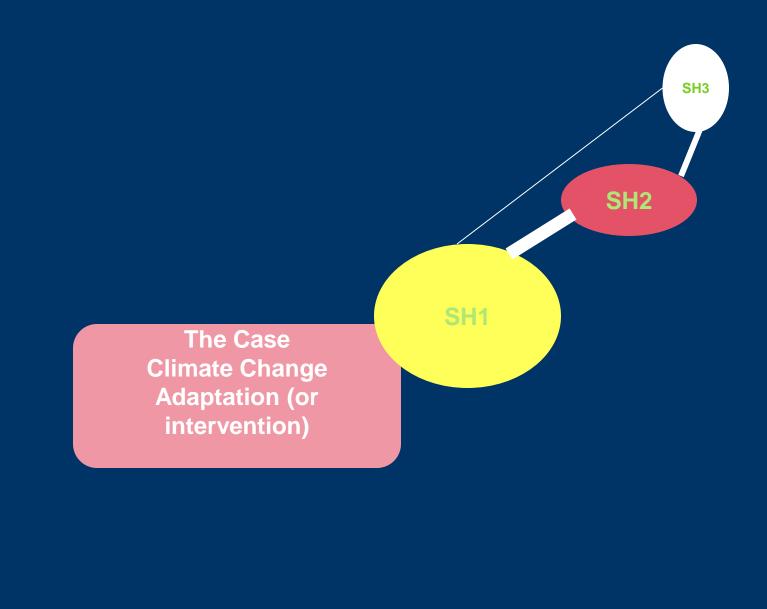
Prescriptions need to be supplemented by contextual knowledge when implementing adaptation interventions.

		Governance	emergence	Governan	ce design
Method type	Governance description	Understanding case	Generalizing design principles		Policy proofing
Task	relevant actors	Explaining the governance seenables adaptate	systems which	Identifying polic goals are r affected by c impacts	ot negatively
Adaptation situation	Vulnerability impacts and adaptation are a result of many actors interacting and making interrelated decisions			Climate change risks to policy goals are not known	change risks
Theoretical assumptions	None	out- come to an institution is	outcomes to a particular	direct	

Roles and Responsibilities Group exercise (2 groups, 7 professionals each) (Use of flip chart)

Objective of the exercise:

- To rank identified key actors in terms of adaptive capacity, importance for climate adaptation, and for seizing opportunities
- To assess their degree of interaction with one another.
- To map divisions of responsibility across the key actors who are involved in identified areas or sectors. This will enhance the ability to decide how to proceed with: (i) long-term planning (ii) crisis management and (iii) seizing opportunities related to climate change.



Identification of Barriers to adaptation to Climate change impacts.

Important concepts

Selecting best CC adaptation measure should be based on barriersopportunities analyses to decrease the gap between the market potential of a technology or practice-and the economic, socioeconomic, or technological potential.

A barrier is any obstacle to reaching a potential that can be overcome by a policy, programme, or measure,

An opportunity is a situation or circumstance to decrease the gap between the market potential of a technology or practice and the economic, socioeconomic, or technological potential

Common barriers to implementing some adaptation measures and practices are related to financial, planning, institutional and technical capacity, and social aspects

Opportunities for more effective integration of climate change adaptation within development activities (OECD, 2006)

Making climate information more relevant and usable

Developing and applying climate risk screening tools

Using appropriate "entry points" for climate information

Shifting emphasis to implementation rather than developing new plans

Encouraging meaningful co-ordination and the sharing of good practices

Table 8: Barriers and opportunities to successful implementation of climate change adaptation strategies. Adapted from Kareiva et al. (2007)

POLICIES AND PROCEDURES	
Barrier	Opportunity
Legislation and agency policies may be highly static, inhibit dynamic planning, impede flexible adaptive responses and force a fine-filter approach to management.	Re-evaluate capabilities of, or authorities under, existing legislation to determine how climate change can be addressed within the legislative boundaries.
Seasonal management activities may be affected by changes in timing and duration of seasons	Review timing of management activities and take advantage of seasonal changes that provide more opportunities to implement beneficial adaptation actions.
Agency policies do not recognize climatic change as a significant problem or stressor.	Take advantage of flexibility in the planning guidelines and processes to develop management actions that address climate change impacts.

HUMAN AND FINANCIAL CAPITAL

Lack of incentive to take risks, develop creative projects; reward system focuses achieving narrowly prescribed on targets; funds allocated to achieve targets encourage routine, easilv accomplished activities.

Shift from a culture of punishing failure to one that values creative thinking and supports incremental learning and gradual achievement of management goals.

Little to no climate expertise within many management units at the regional and local level; disconnect between science and management that impedes access to information

Use newly created positions or staff openings as opportunities to add climate change expertise; train resource managers and other personnel in climate change science

National policies/processes constrain the potential for altering or supplementing current management practices to enable adaptation to climate change; general decline in staff resources and capacity

and regional budget Look for creative ways to augment the workforce and stretch budgets to institute adaptation practices (e.g., individuals or parties with mutual interests in learning about or addressing climate change that may be engaged at no additional cost).

INSTITUTIONAL COORDINATION & COLLABORATION

Political boundaries do not necessarily align with ecological processes; some resources boundaries: cross checkerboard ownership pattern of public and private lands at odds with landscape-scale management

Identify management authorities/agencies with similar goals and adjacent lands; share information and create coalitions and partnerships that extend beyond political boundaries to coordinate management; acquire property for system expansion.

INFORMATION AND TOOLS Often no inventory or baseline information on

detect climate change impacts.

Historic conditions may no longer sufficiently inform future planning (e.g., "100-year" flood events may occur more often and dams need

condition exists, and nothing is in place to

to be constructed accordingly) Lack of decision support tools and models,

uncertainty in climate change science, and critical gaps in scientific information that limits assessment of risks and efficacy and sustainability of actions.

Occurrence of extreme climate events outside historical experience.

Stakeholders/public may have insufficient information to properly evaluate adaptation actions, and thus may oppose/prevent implementation of adaptive projects (e.g., such as those that have ground-disturbing elements like salvaging harvests after disturbance and using herbicides before revegetating). Appeals and litigation from

no action

the face of climate change; modify design assumptions to account for changing climate conditions. Identify and use all available tools/mechanisms currently in place to deal with existing problems to apply to climate-change related impacts. disturbed landscapes as templates Use

for

Identify existing monitoring programs for management;

develop a suite of climate change indicators and

Evaluate policies that use historic conditions and

determine how to better reflect accurate baselines in

incorporate them into existing programs.

"management experiments" that provide data to improve adaptive management of natural resources. Inform public and promote consensus-building on tough decisions; invite input from a broad range of sources to generate buy-in across stakeholder interests. external publics often results in the default of

Approaches to strengthen the national policy frameworks

(Based on Tearfund, 2010)

Step	Goal	Approach
1	Identify barriers and opportunities in relation to a good enabling environment for the integration of adaptation into the Health sector	Are there any legislative constraints or gaps that could inhibit implementation of effective adaptation?

Step	Goal	Approach
		Key questions to consider are: •Are there any lessons to be learned from the disaster management community's experience in raising the priority of risk reduction following disaster events?
3	Identify any catalysts that could aid the creation of supportive or stronger enabling environments, as expressed in national policy.	•What is public/the media's opinion on climate change impacts affecting the country? For example: how regularly is climate change mentioned in the press? Do NGOs or CBOs working among communities report an awareness or concern regarding climate risks?
		•Is there any recent or new scientific evidence or are there observable impacts of climate change.
		•How and why were the priorities expressed in a NAPA or National Communication decided upon?
		Awareness-raising can include activities such as: •National media campaigns on climate impacts.
4	Facilitate awareness-raising among national authorities regarding the links between climate risks and present-day	•Internal government awareness-raising on the linkages between climate change, different sectors, and the health sector.
	conditions.	•No regrets and low regrets approaches (which as well as supporting adaptation are effective in achieving development objectives regardless of climate change).

Step	Goal	Approach
5	 (such as lack of political will for adaptation, and lack of budgetary support) and to create and maintain high-profile momentum amid changing priorities. b) Develop regular contact with such key individuals as part of the ongoing multi- 	 Is there anyone who can help strengthen the link on adaptation between the health ministry and national authorities (such as the finance and planning ministries or prime minister/ president's office) to help secure political support and financing for capacity development and implementation, and aid coordination across sectors? For example, who was instrumental in the NAPA process or in the writing of National Communications to UNFCCC? Who is best placed to strengthen the links between the health ministry and the likely priority sub-national and local

The Yemen example

- •Initiated by the Yemen National Adaptation Program of Action (NAPA) giving efforts to address climate change and other important environmental issues.
- •It identifies the synergies and barriers to adaptation.
- •Based on a general classification of adaptation barriers, potential barriers to implementation of adaptation measures including analyses and evaluation of each barrier according to their degree of severity.

- Barriers were classified according to the level where they are influencing into:
 - (1) Barriers at Multilateral Environmental Agreements level,
 - (2) Barriers at national policy level, and
 - (3) Barriers at program/project level.
- Barriers were classified based on their nature/type into:
 - (1) Institutional barriers,
 - (2) Political barriers,
 - (3) Cultural barriers,
 - (4) Economic/financial barriers,
 - (5) Technical barriers, and
 - (6) Social barriers.
- A rough assessment for each barrier was achieved according to their degree of severity and classified into three levels; High severity barriers, Medium severity barriers, and Low severity barriers.

BARRIERS	Level	Type	Severity
Weak institutional structures and environmental legislations (weak inter-related, lack of executive bills, poor implementation of laws and bills, weak law enforcement)	2	1	Н
The institutional arrangement for Vulnerability and assessment (V&A) studies is weak	2, 3	1	Н
Lack of policies to facilitate the implementation of Yemen NAPA	2	1, 2	Н
Uncertainty about effectiveness and appropriateness of adaptation options	1, 2	5	M
Lack of appropriate data (in terms of lack of adequate monitoring and collection, difficulties experienced in accessing databases, lack of technical capacity to analyze and manipulate data for V&A and lack of quality assurance)	1, 2, 3	5	Н
Uncertainties in regional, local climate change scenarios, Socio- economic scenarios	1, 2, 3	4, 5	Н
Public awareness for policy- and decision makers on the subject of V&A is inadequate (lack of knowledge on CC and V&A, lack of ability of technical personnel to convey clearer and concise information on CC and V&A issues to policy- and decision makers)		2, 3, 5	Н
Financial support is limited (inadequate financial capacity to develop or modify existing models and methodologies, lack of financial sources to implement the adaptation measures)		4	Н

BARRIERS	Level	Type	Severity
Technical support is limited (lack of methodologies to identifying and collection of information, apply models and interpret results, inadequate technical capacity to develop or modify existing models and methodologies)	2, 3	5	Н
Lack of coordination on cross-sectoral issues. Coordination and cooperation among national and technical cooperation programs/projects is very weak	3	1, 2, 5	M
Lack of awareness on vulnerability and climate change issues	1, 2, 3	4, 5	Н
Little research work on the practical application of policy measures for adapting to climate change. National scientific community has not had an active role in addressing vulnerability and adaptation issues		4, 5	Н
Poverty 1. Compounding problems of poor/worsening local conditions e.g. land degradation 2. Lack of community resources (financial, human, social) to enhance own resilience 3. Lack of local institutional capacity and resources to support community resilience building	1, 2, 3	4, 6	Н
Low investment in environmental friendly technologies	2, 3	5	M

Exercise Roles and Responsibilities

Crisis management and long-term strategies within the health sector exercise

This exercise is developed to distinguish between crisis management on the one hand and more long term strategies on the other. Experiences have shown that sometimes there is confusion between these two issues, which makes it hard to analyze division of responsibility. This group exercise will try understand difference between these two issues for the health and water sector.

(Use Table A-6 in the Appendices to understand the current cooperation among different organizations.)

- 1. For each stakeholder already involved in the group, fill in the process stakeholder list including:
 - Name, organization, and position
 - Area of responsibility
- 2.In order to determine other people that should be included, go through the prepared questions below and see what other stakeholders come to your mind.
- 3. Fill in the details of each stakeholder in the list.

Questions that may assist you in determining who to involve and why

- What roles do various organizations play for local responses to CC?
- Who (function as well as person) can participate in the assessment?
- Who will be using the outcomes of the assessment of challenges and opportunities?
- Who will be the potential beneficiaries?
- Who will be adversely affected?
- Who has existing rights? Who has control over resources?
- Who is likely to be voiceless? Who can represent them?
- Who is likely to mobilize resistance?
- Who is dependent on whom?
- Who is responsible for the intended plans?
- Who has money, skills or key information?
- Whose behavior has to be changed to attain certain key goals?
- What power gaps exist between stakeholder groups? How should these be dealt with? In what way could each stakeholder be involved that will best aid the process?
- Who should be recipients of the assessment outcomes such as the final report?

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THANK YOU

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