Sustainable Water Integrated Management (SWIM) -Support Mechanism



Project funded by the European Union

SESSION 6: BRIDGING THE CAPACITY GAP

Training workshop on the identification and development of climate change no-regret actions in the water sector, 3-5 October 2012, Amman

Presented by: Stéphane SIMONET, Water and Climate Change Expert

Goal: Enable managers and practitioners to understand, assess and address management adaptive capacity as a key part of successful no-regrets climate change adaptation strategies

• Learning Objectives:

- Thinking strategically about capacity in adaptation strategies
- Having a solid understanding of the capacities and skills needed for the development and implementation of noregret measures
- Being able to assess and address adaptive capacity gaps
- Knowing major sources of references and guidances

I: Rationale for Capacity Development



The World Bank, 2011

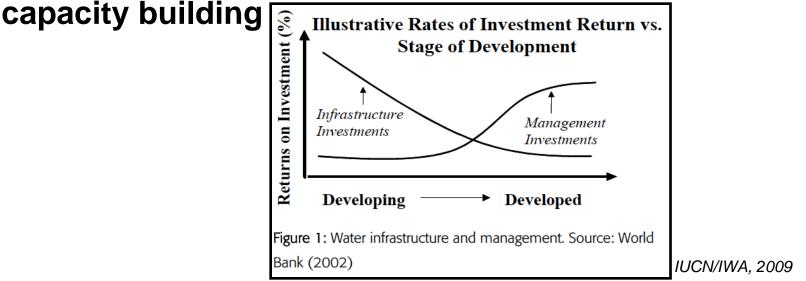
Risks are now broadly identified and a growing number of adaptation recommendations and good practices exist



•For **MENA**, as seen earlier: no-regret actions + climate resilience practices in water management + economic instruments + adaptation infrastructure planning

Complementing asset-based with skillbased adaptation

 Recognition that "hard" asset-based adaptation must also be balanced with "soft" institutional measures and



 Adaptive capacity is the ability to identify and respond to climate change impacts and uncertainty by:

- predicting, planning and coping through effective adaptation strategies on the ground
- adjusting strategically and effectively to changing circumstances

Implementing and Adjusting: coping with change on the ground

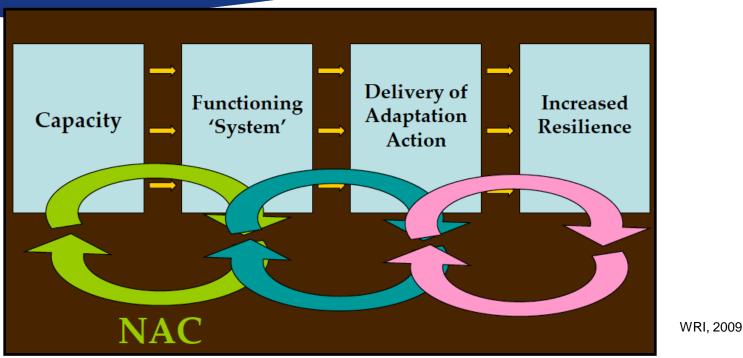
•Effective institutions and professionals are now required at the national and local levels to design and implement appropriate adaptation measures based on no/low regrets options, including robust and adaptive management

•Need to empower people and organizations with appropriate tools, skills and sustainable resources enabling them to solve their problems and to adapt to changing situations

•Climate change and its impacts are dynamic phenomena: stakeholders will have to be flexible and to know how to keep updated in order to cope with climate variability and hydrological uncertainties

→ YOU are part of the solution for successful climate change adaptation

From Capacity to Outcomes



 Capacity building is a supportive process in favour of effective management and increased resilience

•Enhanced capacities lead to a better grasp of the natural and institutional climate change systems & to improved delivery of appropriate adaptation measures •System elements include government, businesses, academia, communities and other institutions

•Ultimately, the most important adaptations are at the household and community levels. BUT policies and institutions at the national level are very powerful at enabling or hindering community-level adaptation.

•What **functions** will this system need to perform? What **capacities** must be built to perform these functions?

•There is **no one** « **right** » **way to adapt**, each adaptation strategy must **start from the strengths and weaknesses of the system** in which it is born

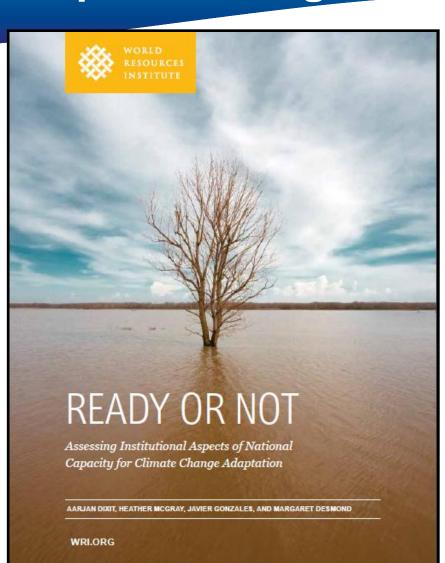
Climate change adaptation and capacity building frameworks

•The international community and numerous organisations have developed a range of **conceptual and methodological frameworks and tools to assess and improve adaptive capacities worldwide**

Amongst those tools, the NAC
 Framework has shown high
 relevance for the water sector. It
 has been piloted in Ireland,
 Bolivia and Nepal, and has since
 been adopted by several
 cooperation agencies and
 donors.

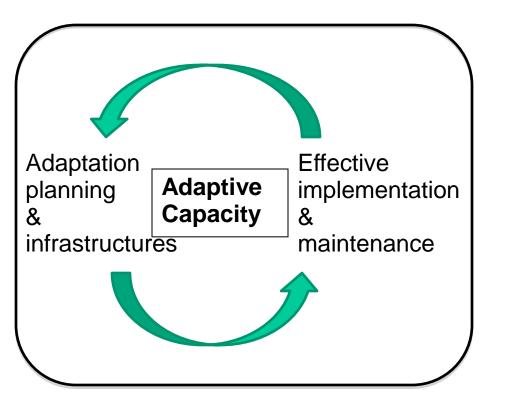


II: Key Adaptive Functions and related capacity development categories



WRI, 2012

The National Adaptive Capacity (NAC) Framework



•Identify **5 key adaptive functions** within three broad categories of *Planning*, *Alignment* and *Risk Management*

 Identify opportunities and priorities for building adaptive capacity and implementing key activities

•Flexible to be tailored to country contexts

The NAC's 5 main adaptive functions

Planning

Risk Management

Alignment

→ The NAC treats performance of these 5 functions as an indicator of a country's overall adaptive capacity



•Capacity to gather and examine available information to guide decision-making

•Iterative process as climate conditions evolve over time

•Should **focus** on: CC impacts, vulnerability, adaptation practices

Vulnerability and impact assessment

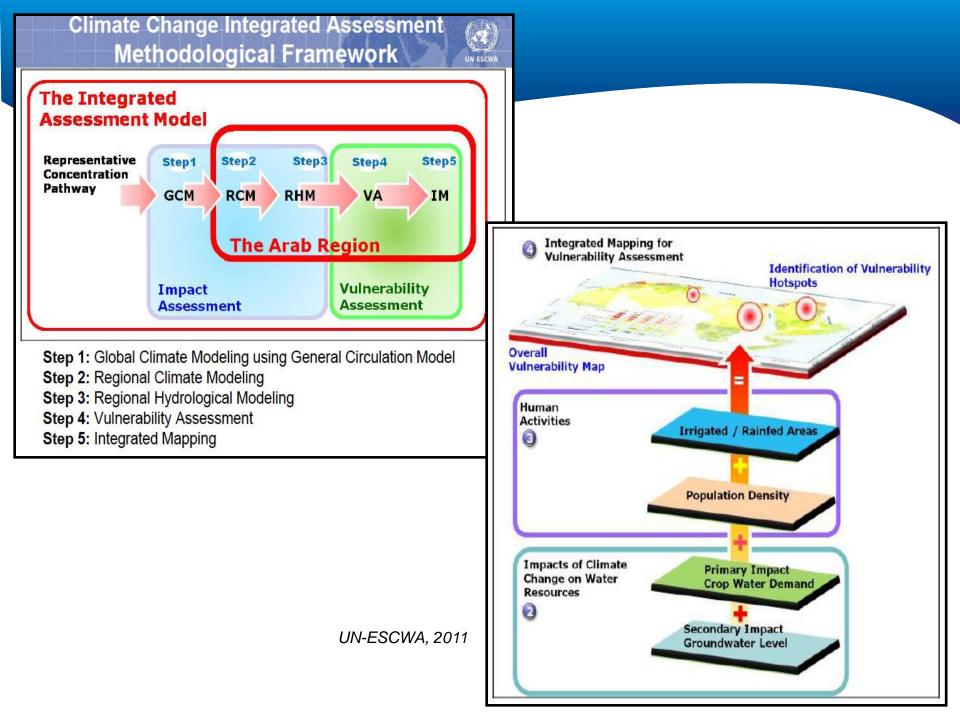
•Vulnerability and impact assessments use a series of approaches, models and tools depending on requirements

•Measures may be **quantitative**, **qualitative or indicator**based but all are based on a **range of evidence**, including **quantitative data**

•Improving collection and access to such data is vital for both technical staff and researcher, especially in Africa

Potential purposes for vulnerability and impact assessment include:

- National or basin-wide assessments of climate risks
- Sector specific impacts of climate risks
- Vulnerability and impact mapping
- Community and livelihood vulnerability assessments



1. Assessment - Capacity development categories

Analytical skills

- Research, Inventory & Review
- Analysis
- Synthesis

Methodological skills

- Methods & indicators
- Models & scenarios
- Options appraisal (SWAT, CBA, etc)

No-regret: Skill set contributing to Environmental Impact Assessment (EIA) or Strategic Environmental Assessment (SEA) missions!

1. Assessment – Regional capacity challenges

- Resources and budget available to conduct iterative risk mapping
- •Institutional arrangements and mandates (need for institutionalization)
- •Partnerships b/w government agencies and research institutions (international vs. national expertise)
- •Harmonization/standardization of V&A standards and methodologies

•Stock-taking and dissemination of relevant information on CC hydrological impacts and adaptation efforts

•Capacities to access hydro-climatic data and quality/quantity of available data (climate database and services, regional networks

•Application of state-of-the-art climate and hydrological modelling technologies (GCM/RCM, GIS, RST, SID, model coupling, ...)

•Capacities to properly assess, communicate and deal with uncertainties throughout the assessment chain

1. Assessment – Building Capacities

 UN-ESCWA's Regional initiative to assess the impact of climate change on water resources and socio economic vulnerability in the Arab region: capacity building & integrated assessment methodology

(www.escwa.un.org)

 SEI's WEAP Water and CC scenario planning tool for the Jordan river basin



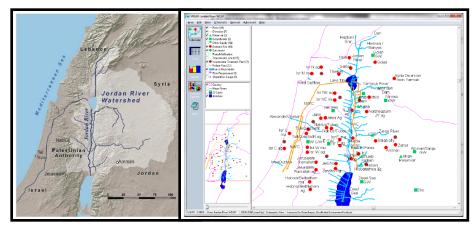
National Research Institutes (under formalization)

Environmental and Climate Research Institute (ECRI) Ministry of Water Resources and Irrigation (Egypt)

Center of Excellence for Climate Change Research PME - King Abdulaziz University (KSA)

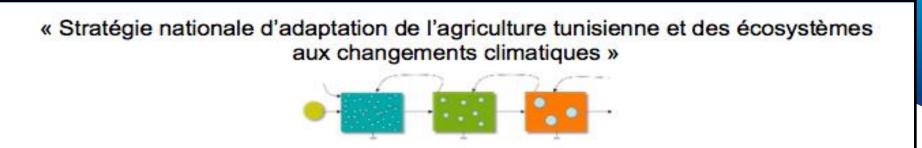


World Meteorological Organization Working together in weather, climate and water



2. Prioritization

- Capacity to arbitrate between different adaptation options, areas, sectors or populations. E.g.:
 - Should the onus be on increasing water supply or managing demand?
 - Should priority be given to water scarce areas or high-value irrigated land?
- Should consider what/where climate change impacts will be the most severe and who will be most vulnerable and affected
- Inclusive, transparent and flexible process as much as possible within values, concerns and power constraints



- The Strategy and its Action Plan establish a series of priorities as well as related activities, leads and schedules. The two water priorities are:
- Implementing and strengthening the law:
 - Implement the Water Code strictly
 - Strengthen the law on reducing water consumption and vulnerable areas
 - Rationalise institutional arrangements and update the agricultural policy's water programme
- Managing water through economic instruments:
 - Managing water on an ecosystem-basis and use models to understand hydrological processes
 - Introduce climatic variations and property rights in water tarification

2. Prioritization - Capacity development categories

Political skills

- Legitimacy/mandate
- Vision & Strategy
- Power arrangements
 & options weighting

Negotiation skills

- Listening to stakeholders
- Influencing & convincing
- Partnership working & deal brokerage

No-regret: Skill set contributing to programme management with strategic themes, budget, high profile projects and annual activities!

2. Prioritization – Regional capacity challenges

• Centralized, top down vs. bottom-up and stakeholder-driven prioritization process (e.g. territorial and community-based approach)

- Need for transparent and well informed prioritization process and criteria
- Alignment with wider country development objectives

• Use of advanced adaptation planning and decision support methods and tools (e.g integrated models, scenario building, foresight methods, Robust decision making, etc)

• Greater application of economic and financial appraisal tools (e.g. CBA, MCA, etc.)

• Making use of innovative, flexible, soft and "natural" solutions in prioritization and planning processes

2. Prioritization – Building capacities

 Morocco's «Towards resilient oasis», a territorial approach to adaptation planning in the water sector based on stakeholder-led prioritization processes (Local adaptive water management Plans)

Jordan's MDG analysis of climate change risks on water availability and quality and upgrading of local and national capacities for development and prioritization of adaptation measures for the Zarka River Basin

MDG ACHIEVEMENT FUND

Adaptation to climate change to sustain Jordan's MDG Achievements (MDGF-1646-)

ROYAUME DU MAROC Ministère de l'Energie, des Mines, de l'Eau et de l'Environnement Département de l'Environnement



3. Coordination

- Capacity to coordinate the activities of disparate water actors (drinking, sanitation, agriculture, energy...) at multiple levels (national, basin, local...)
- Avoids duplication or omission and can create economies of scale
- Should be done horizontally, vertically and across sectors to include all key water stakeholders beyond the water and climate change communities
- The **cross-cutting and dynamic** nature of climate change makes coordination all the more important

Water and Climate Change intersectoral coordination in Morocco

- The High Council on Water and Climate (CSEC) was created in 1981 to improve coordination between water administrations and stakeholders in Morocco (prime minister, ONEP, ONE, basin agencies, ORMVAs, users, research institutes, elected representatives, etc) and to make recommendations on national water and climate strategies
- The Interministerial Water Commission (CIE) brings together ministries interested in the water sector and helps implement the CSEC recommendations
- The County and Local Water Commissions (CPPE) were created in 1995 and help implement local actions in partnership with elected representatives and users

However many challenges subsist that prevent these bodies from performing effectively

3. Coordination - Capacity development categories

Institutional cooperation skills

- Inclusiveness
- Coordination responsibilities & mechanisms
- Conflict resolution

Result-based management skills

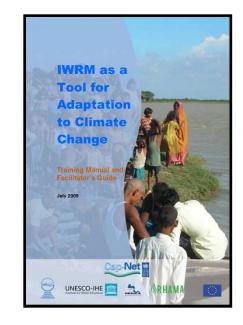
- Time & schedule
- Quality focus
- Budget keeping
- Outcome-driven
- No-regret: Skill set contributing to standard Integrated Water Resource Management (IWRM) and multi-stakeholder development projects!

3. Coordination – Regional capacity challenges

- Coordination challenges in water area are numerous & not specific to CCA
- However, CCA renders coordination even more important as successful adaptation is about effective *mainstreaming of no regret measures within and beyond the water sector*
- Need for functional institutional arrangements to steer and coordinate waterrelated adaptation decisions in multiple sectors in full alignment with development priorities of the country (High Office, National Committee, Commission, etc.)
- Improvement of inter-ministerial dialogue, clear institutional mandates and decision-making bodies
- Negotiation, cooperation and conflict resolution capacities of government agencies and decision-makers
- Empowerment and participation of non-state actors (CSOs, private sector, etc.) and vulnerable groups

3. Coordination – Building capacities

- Cap-Net's training manual and facilitator's guide « IWRM as a tool for adaptation to Climate change » (July 2009)
- ACRI's support to formulate integrated, cross-sectoral and regional responses to the challenges of climate change and to facilitate practical and cooperative adaptation. 3 consultations (Egypt, Syria, Bahrain) and one Forum (Morocco) to date.





UNDP Regional Bureau for Arab States (UNDP-RBAS) Arab Climate Resilience Initiative

4. Information and Knowledge Management

- Capacity to collect, interpret and disseminate water and climate information and good practices in support of water-based adaptation
- Ensure that information is **useful and accessible** to stakeholders, through both ICTs and traditional media
- Should cover at least climate and hydrological variables, the status of water systems and existing coping strategies
- Sharing experience and good-practice is also an important element of knowledge management

Climate Change Knowledge Portal

For Development Practitioners and Policy Makers

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4. Information and Knowledge Mgt - Capacity development categories

Knowledge management skills

- Hydro-climatic data monitoring & collection
- Observing and modelling capacities
- Information processing and analysis
- Practice learning and exchange

Outreach & advisory skills

- Policy and technical advice
- Cooperation & sharing
- Communication and awareness raising

No-regret: Skill set contributing to main environmental information and communication systems!

4. Information and Knowledge Mgt – Regional capacity challenges

- Strengthen climate & hydrological forecasting & monitoring capacities
- Upgrading of existing networks and equipments, standardization and integration of monitoring, collection and treatment methodologies and creation of institutional incentives for data and information sharing
- Access to the climate data (in some countries, this is a paid service)
- Importance of improving the link between information producers and endusers
- Capacities to develop and use relevant climate services and products that are tailored to the needs of decision makers and managers and that allow for adequate warning and responses (e.g Early warning systems)
- Capacities of water managers and users to analyze, interpret and use climate science and information
- Evidence of 'good adaptation practices' insufficiently recorded, catalogued and promoted
- Ability and resources to develop & operate national information systems on CC and adaptation

4. Information Mgt – Building capacities

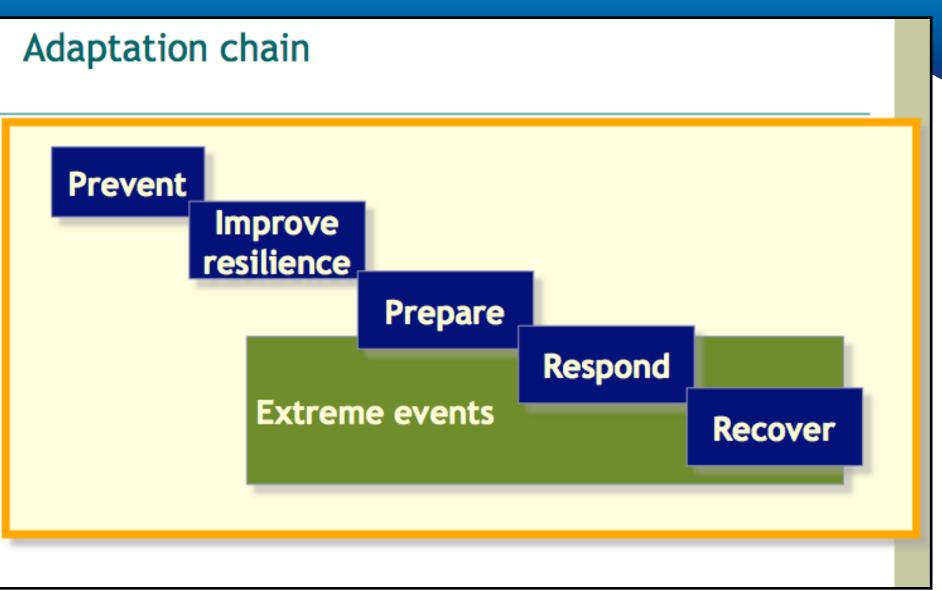
- Part of UNDP's Arabstats.org initiative, the Climate Change Data Center is a searchable database of up-to-date climate change and environment data on the twenty Arab countries covered by UNDP's Regional Bureau for Arab States.
- To enhance Turkey's capacity to adapt, Istanbul Technical University has opened a climate change information portal agora.itu.edu.tr

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5. Climate Risks Management

- Capacity to identify specific risks to a given priority, to evaluate a range of options to address it, and to select and implement risk reduction measures (see Sections 4 & 5)
- **Tailor** climate risks management solutions to the challenges faced by **water- related sectors** (drinking water, sanitation, agriculture, energy,...)
- For water in the SWIM region, should particularly consider sea level rise, climate variability and extreme weather events (droughts and floods), water scarcity and food security



CAP-Net, 2011

5. Climate Risks Management - Capacity development categories

Risks reduction skills

- Identification & prevention
- Resilience planning
- Early warning systems

Disaster response skills

- Emergency planning
- Safety response
- Recovery

> No-regret: Skill set contributing to mainstream disaster management skills and strategies!

5. Climate Risks Management – Regional capacity challenges

- Soft, small and local vs hard, engineering and large solutions
- Supply-based vs. demand management options
- Enhancing the role of natural infrastructures, ecosystem services, social protection and policy tools (e.g., zoning regulations, permitting rules, taxes, etc.) in no-regret CRM investment portfolio
- Mobilization of indigenous knowledge and community expertise
- Incorporation of uncertainties into actions : reversibility, resilience and robustness of water management measures
- Regular M&E, performance review and adaptive management of adaptation actions

5. Climate Risks Mgt – Building capacities

- Egypt's Climate Change Risk Management Programme (CCRMP) is a national cross-cutting programme implemented across multiple ministries and sectors, targeting both mitigation and adaptation through 4 components, including water management
- UNDP's El Mouddaa Community-Based Adaptation initiative in Morocco for climate risk management in face of increasingly erratic and violent rainstorms and droughts





III: The NAC Assessment Tool

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Na	ational Adaptive Ca	apacity (NAC) Frameworl	k - Answer Sheet		
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This	Answer Sheet is intended for ca	apturing answers to the questions in the Nati	ional Adaptive Capacity (NAC) Fra	mework. NAC is u	sed to assess a cour
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raise	e some basic questions that prov	vide background for conducting a NAC asses	ssment.		
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The NAC Assessment Tool

- To assess and address capacity development needs within each country/organisation
- Based on:
 - A series of questions related to the **5 key adaptive** capacities
 - Colour coded/traffic lights rating of perceived performance
- Context worksheet and Answer worksheet
- → The NAC tool is one amongst many assessment frameworks to analyse and tackle adaptive capacity gaps

The NAC Assessment Tool

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	World Resources Institut				
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	3. Answer Guide				
23	The answers to the many questions	under the NAC Framework are divided into six column			
23		When answering the Capacity Questions, please	provide a one word answe	r of "adequate" or "ina	dequate" for each
23	Adequate/Inadequate:				idequate for each
23	a	of the "Elements to Look For."	•	-	
24		of the "Elements to Look For." Please identify the institution(s) responsible for e	ach of the "Elements to Loc	k For." If there is more	re than one
24	a	of the "Elements to Look For."	each of the "Elements to Loo with an element, list each of	ok For." If there is more them. Note that for r	re than one nany elements, no

Key Messages : YOU are part of successful CC adaptation

- Adaptative capacities are as crucial as adaptation planning and infrastructures to cope with climate change's impacts on water and its uncertainties on the ground
- The 5 key adaptive functions are: assessment, prioritization, coordination, information management and climate risks management
- Developing these adaptive capacities is a no-regret action as they overlap significantly with major sustainable development skills and can help avoid maladaptation
- Each water sector organisation can use tools such as the NAC Framework to assess its adaptive capacities and take action to tackle the gaps identified



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Thank you for your attention

Q&A, **Discussion**

- Any needs for clarification?
- Are soft (institutional and capacity) responses really as important as hard (infrastructure) ones in the SWIM region?
- How would you describe the SWIM region's level of adaptative knowledge and skill at the moment?
- At which level should these adaptive capacities be developed in priority (national, regional, local, community, etc)?
- Which key players could help bridge the capacity gaps?