



# **Incorporating Climate Variability and Change Into IWRM**

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# Outline

- **Background info: CC and IWRM**
- **Country Inputs**
- **Funding Windows: GEF**
- **Other Potential Support from UNDP**
- **Next Steps**

# IPCC Conclusions

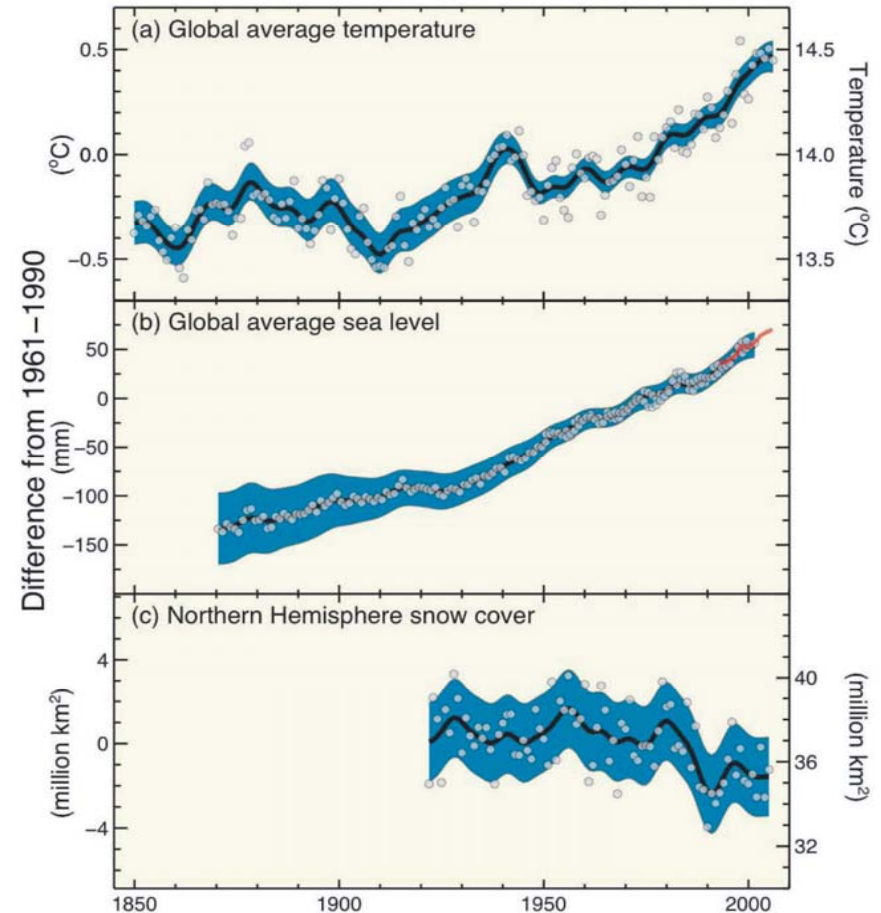
**Warming of the climate system**

**Increasing in global average air and ocean temperatures**

**Rising global average sea level**

**Reductions of snow and ice cover**

**Changes in precipitation**





# **Projected Impacts of CC on Different Aspects of Water**

**CapNet Chapter 2: Slides 16-17**

# Mitigation / Adaptation

- Mitigation:
  - Avoid the unmanageable
- Response strategies that reduce the sources of greenhouse gases or enhance their sinks, to subsequently reduce the probability of reaching a given level of climate change

*Mostly related to energy policy and land use policies*

- Adaptation:
  - Manage the unavoidable
- Adjustment of practices, processes and capital in response to the actuality or threat of climate change, as well as changes in the decision environment such as social and institutional structures.

*Mostly related to water*



# IWRM and Adaptation to Climate Change

**CapNet Chapter 1: Slides 21-23**



# Country Discussions and Report Back

## Guide Questions:

- a) **Identify major CC impacts** on your respective projects (max of 5 impacts)
- b) **Prioritize CC impacts** in terms of severity and urgency to take action
- c) **Identify adaptation measures** for each impact



# Template for Report Back

<b>Rank</b>	<b>CC Impacts on Water Sector</b>	<b>Adaptation Measures</b>
1		
2		
3		
4		
5		





# GEF FUNDING WINDOWS

- **GEF Trust Fund – STAR allocations**
- **International Waters Focal Area**
- **Least-Developed Countries Fund**
- **Special Climate Change Fund**
- **Adaptation Fund**



# STAR ALLOCATIONS

	CC	BD	LD	Total
Cook Islands	2.00	2.14	0.50	4.64
FSM	2.00	3.49	0.90	6.39
Fiji	2.00	4.56	0.59	7.15
Kiribati	2.00	1.69	0.56	4.25
Marshall Is.	2.00	2.02	0.50	4.52
Nauru	2.00	1.50	0.50	4.00
Nieu	2.00	1.50	1.05	4.55



# STAR ALLOCATIONS

	CC	BD	LD	Total
Palau	2.00	1.92	0.50	4.42
PNG	2.00	13.32	1.17	16.49
Samoa	2.00	2.43	0.93	5.36
Solomon Is.	2.00	3.60	0.65	6.25
Tonga	2.00	1.59	0.75	4.34
Tuvalu	2.00	1.50	0.59	4.09
Vanuatu	2.00	2.55	0.89	5.44



# Adaptation Funds

- **Least-Developed Countries Fund**
- **Special Climate Change Fund**
- **Adaptation Fund**

# **UNDP GoAL-WaSH Programme:** **G**overnance, **A**dvocacy and **L**eadership for **W**ater, **S**anitation and **H**ygiene

- **Catalyses achievement to WatSan MDGs**
- **Prioritizes actions in ‘MDG-off-track countries’**
- **Assists UN Country Teams scale up delivery**
- **Focuses on governance-related interventions**

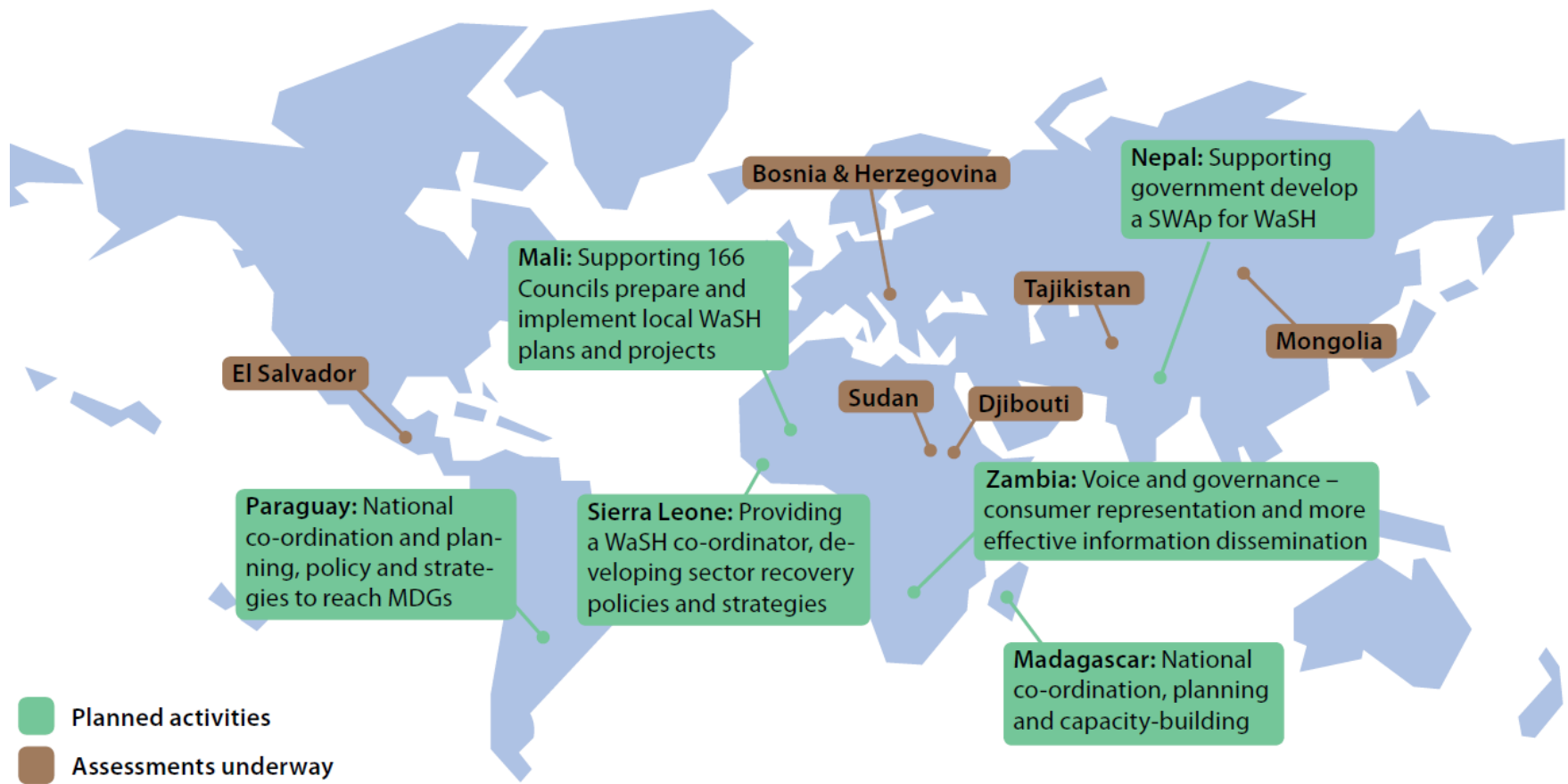
# Water and Sanitation

## One of the best economic investments:

- Water supply investment has an economic return of \$4.4 to \$1
  - Investment in sanitation has a return of \$9.1 to \$1
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- Healthy workers
  - Savings on medicines
  - Bottled water not required
  - Boost agriculture
  - Healthy tourists
  - Higher school attendance
  - Better educated workforce
  - More efficient industry
  - More useful domestic time
  - Less pollution and treatment costs

**Not just a 'luxury' social and environmental issue**

## UNDP GoAL WaSH Project Initiatives:



# Typical Country Activities

## A. Sector Assessments

- MDG Outlook
- Sector Preparedness Overview
- Sector Sustainability Overview

## B. Country Interventions to Strengthen WatSan Leadership, Coordination and Achievements of MDGs





**THANK YOU**

**For more information:**

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**Log on to: [www.undp.org/water](http://www.undp.org/water)**