

E-learning Platform on Weather and Climate Services: A Value Chain Approach to Project Design

PPCR Technical Workshop: Enhancing User Uptake of Climate Services

December 9, 2014

The Fourth International Conference on Climate Services Uruguay

> Kanta Kumari Rigaud, Lead Adaptation Specialist and World Bank PPCR Focal Point Kazi Fateha Ahmed, Environment Specialist Nathan Engle, Climate Change Specialist Ana Bucher, Climate Change Specialist

Overview

Climate challenge

DE-learning Platform: Weather and Climate Services

- more than NMHS alone
- Iinkages with GFCS
- □ Value Chain Module preview

□ Next steps

Contribution of CS to PPCR



Increase in climaterelated disasters

s, Ex Temp, Wildfire)

Meteorological (Storms) Hydrological (Floods, Landslides)

Highly Unusual Heat Extremes in LAC

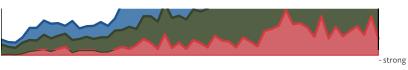
100

80

60

40

20

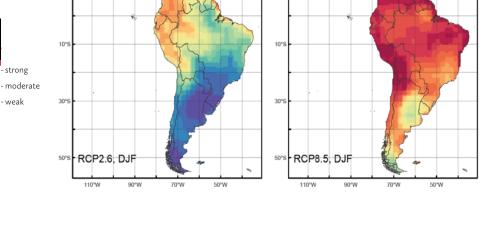


- weak

El Niño La Niña

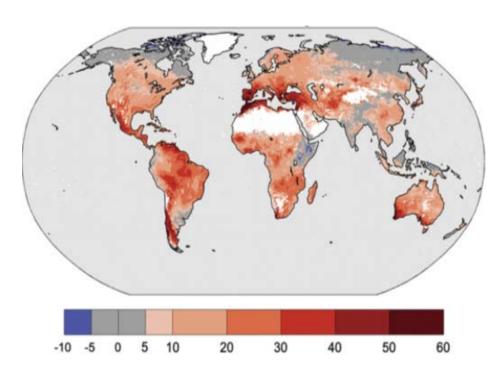
> Upper panel: Number of climate-related disasters from 1960-2013 (based on the EM-DAT database). A robust increase in all types of climate-related disasters is observed. Lower panel: El Niño and La Niña events identified on the basis of the Niño 3.4 sea-surface temperature index.

Percentage of Austral summer months during which highly unusual heat waves occur in 2071-2090 for 2°C (left) and 4°C (right) warming



ORLD BANK GROUP

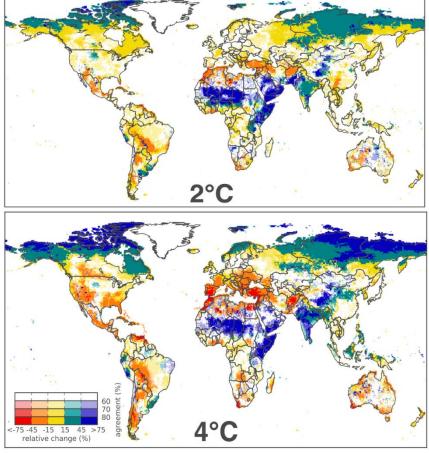
Changes in a 4°C World



Percentile change in the occurrence of days under drought conditions by the end of the 21st century (2070–2099) in a 4°C world relative to 1976–2005. White areas indicate hyper-arid areas. Source: Prudhomme et al., 2013

4





Relative change in annual discharge for a 2°C and a 4°C world in the 2080s relative to 1986-2005

World Bank Programs

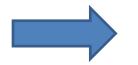
- Under IDA:
 - All IDA Country Partnership Frameworks incorporate climate and disaster risk considerations into the analysis of the country's development challenges and priorities and, when agreed with the country, incorporate such considerations in the content of the programs and the results framework.
 - Screen all new IDA operations for short- and long term climate change and disaster risks and, where risks exist, integrate appropriate resilience measures.
 - Scale up support to IDA countries to develop and implement country-led, multisectoral plans and investments for managing climate and disaster risk in development in at least 25 additional IDA countries.
- Priority programs
 - Build Low Carbon Resilient Cities
 - Implement Climate Smart Agriculture
 - Accelerate Energy Efficiency and Renewable Energy Programs



Success depends on effective design and delivery of climate services

E-learning Platform Concept

- Weather and Climate Services are necessary for planning climate resilient development
 - Need improved understanding of how to respond to a changing climate
 - Helps reduce disaster losses on account of extreme events
- Move beyond piecemeal investments: retail to scale
- Contains 4 modules comprised of 1-3 lessons each
- Planned for launch in parallel with World Bank's Open Learning Campus User Platform



- Motivation from PPCR portfolio: 20 investments
- \$170m resources (PPCR and co-financing)



E-learning Platform Concept

Module 1: The Climate Services Value Chain

- An Introduction

Module 2: The Climate Services Value Chain

- Key Components and Inter-linkages

Module 3: Integrating Climate Services into Project Investments through the Project Cycle

Module 4: Practical Examples and Resources

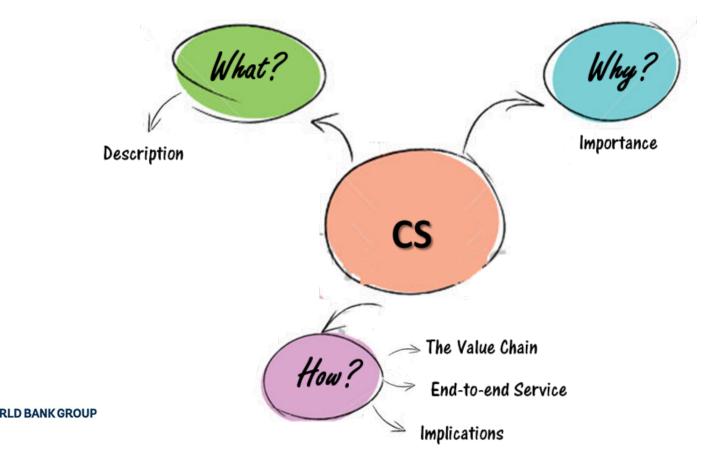
- Good Practices and Interactive Exercises



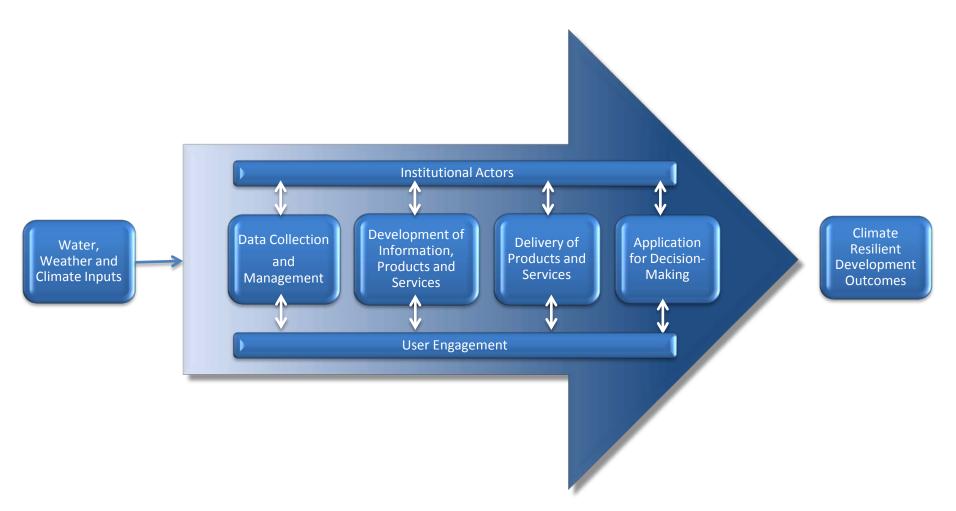
E-learning Platform on Climate Services Value Chain Approach to Project Design

Module 1: Introduction to Weather and Climate Services

- Understanding Weather and Climate Services and its importance is the goal of module 1.
- Answers three questions in order to grasp the complexity of climate services.

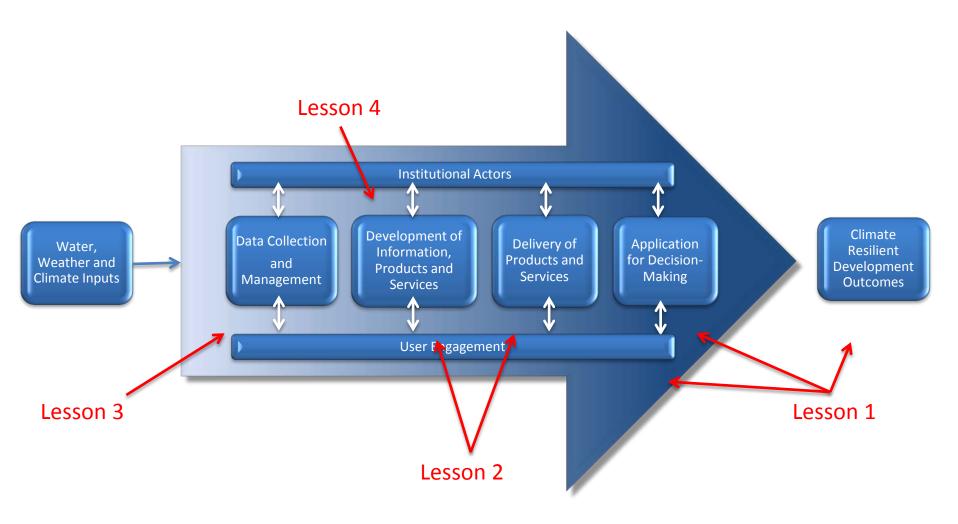


Module 2: The Weather and Climate Services Value Chain





Module 2: The Weather and Climate Services Value Chain





Value Chain Approach

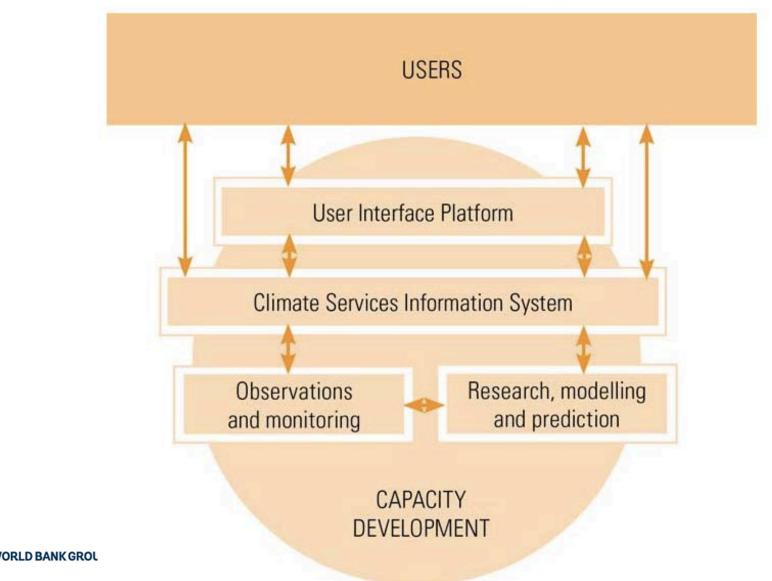
Why weather and climate services must be seen as a value chain?

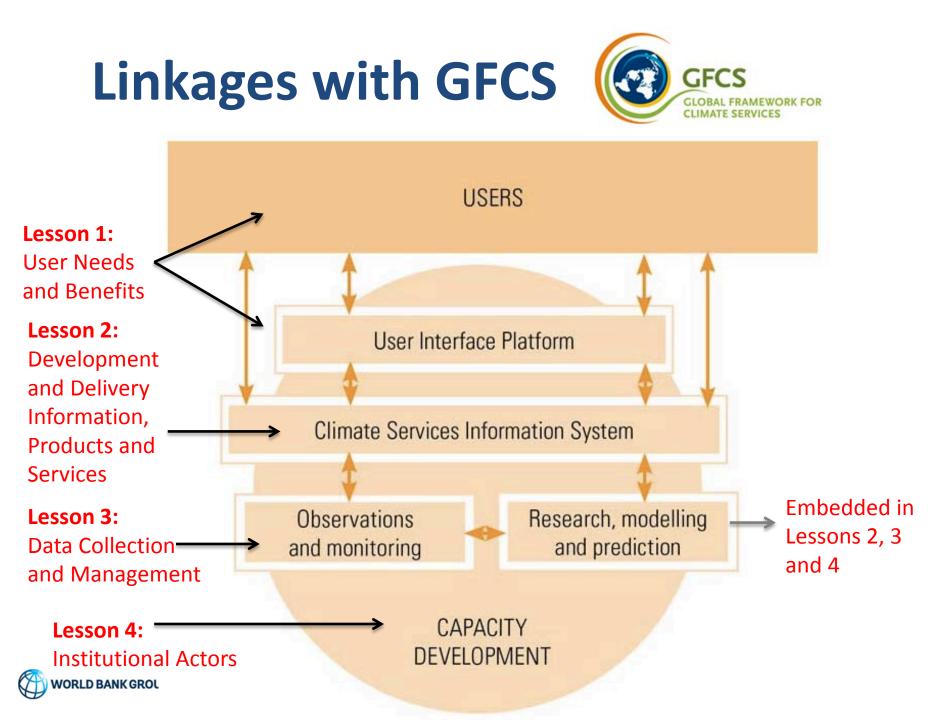
- A weakness in one aspect of this chain will have consequences with respect to the usefulness of the information, products, and services provided
- It helps to reinforce the idea that inputs in the form of water, weather and climate events must be translated into user specific products that aid climate resilient decision-making
- In the past, much investment in weather and climate services has been piecemeal, resulting in inefficiencies and a lack of sustainability in the ability of the system to perform in the medium and longer term



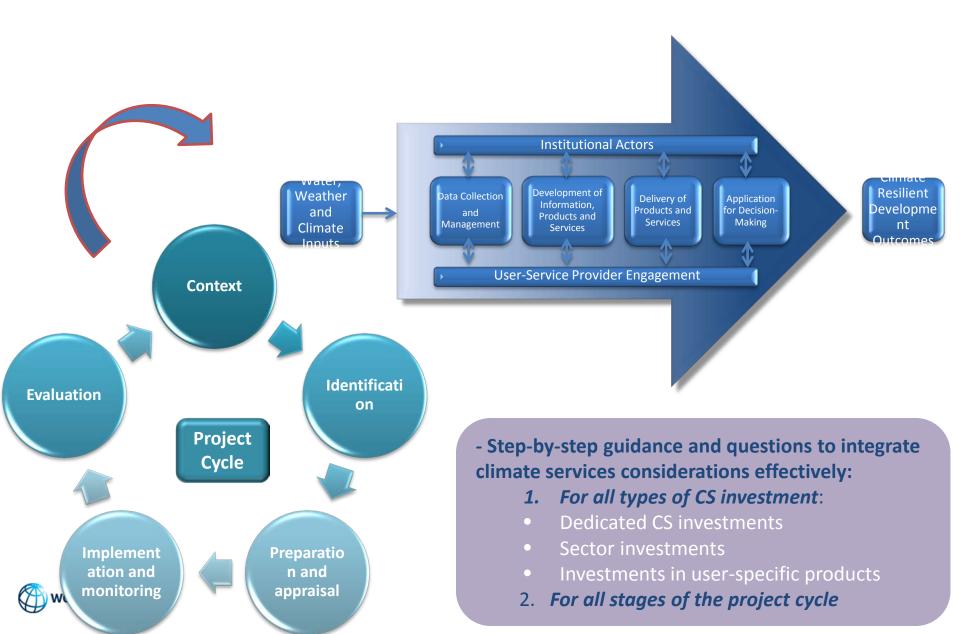
Linkages with GFCS







Module 3: Integrating Climate Services into the Project Cycle





< 00/0

Lesson 1 - User Needs and Benefits

Putting all the pieces together: paradigmatic examples.

Click on each sector or theme to see real examples of climate services that can help decision makers, and the benefits that this provides.

User Communities	Weather & Climate Impact	Weather & Climate Service Examples of Benefits to users Northeast Brazil Drought Monitor
Food Agriculture security Water resource management Disaster risk management	Short Term	The role and benefits of weather and climate services with respect to drought in northeast Brazil can be clearly seen in the process of shifting from:
	Medium and Long Term	A culture of reactive TO Proactive drought risk management
	Short Term	Supported by the development of a "Drought Monitor": Mechanisms to better anticipate drought events and guide relief measures more efficiently,
	Short term Med/long term	Handy Hints

A Value Chain Approach to Project Design in Climate Services

Next steps

- Interactive online version
- Validation by Partners
- Validation with clients through prototype
- Content (case study enhancement)

