



World Meteorological Organization

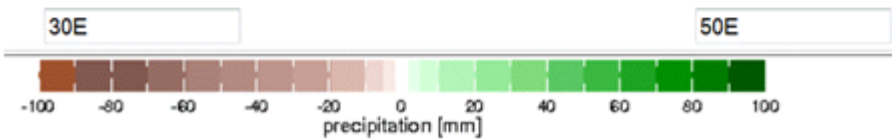
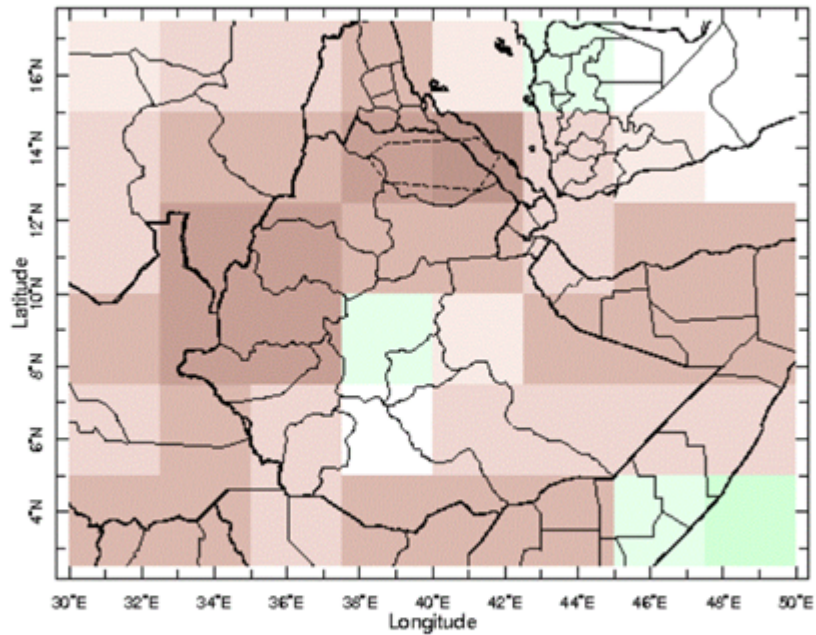
Weather • Climate • Water

Effective use of climate information in supporting adaptation planning

Maxx Dilley, Director
Climate Prediction and Adaptation Branch

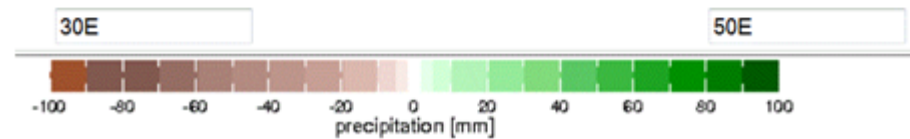
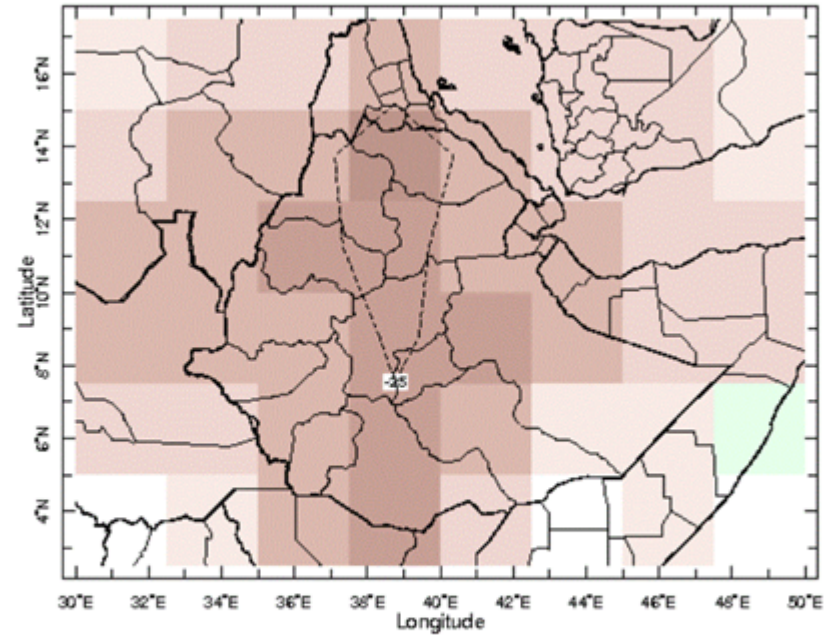
Ethiopia: Same extreme event, different outcomes

1983-1984 Drought



300,000 deaths

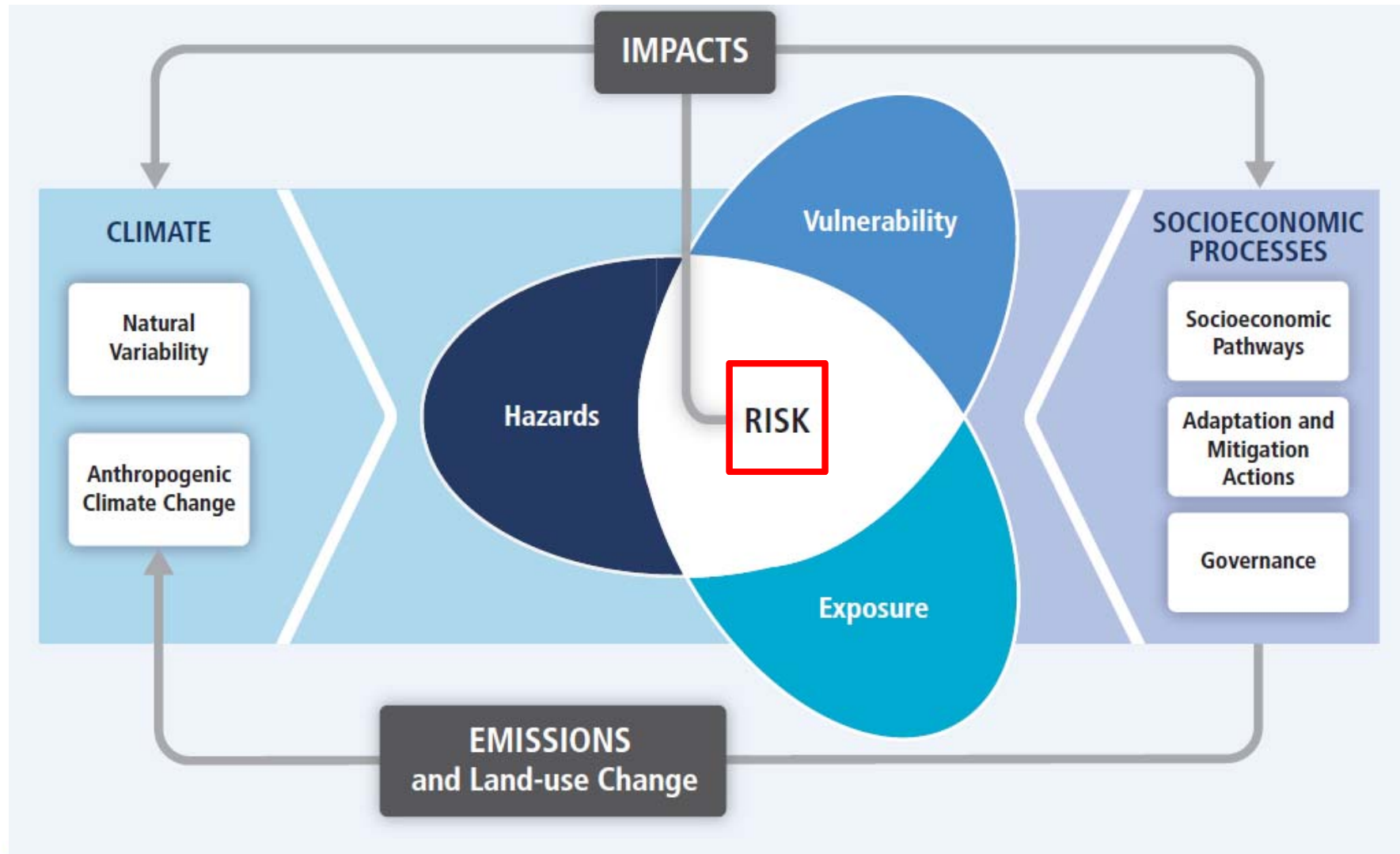
2009-2012 Drought



Host for Somali refugees



IPCC Working Group II 5th Assessment



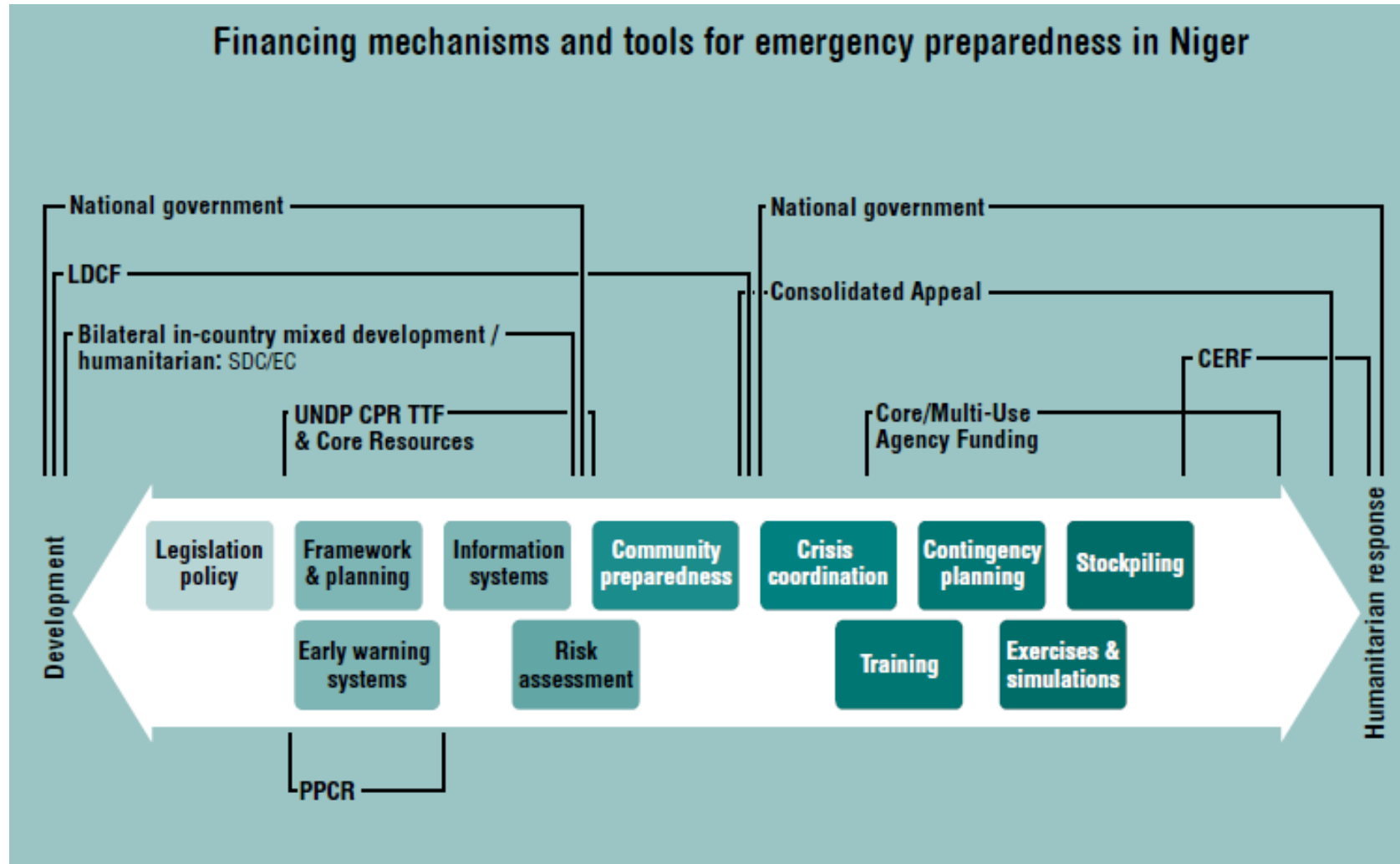
Mozambique Floods Loss and Damage Assessment, 2000

Estimate of Disaster-Related Costs (US\$ millions)				
	Direct	Indirect	Relief	Reconstruction
Food aid	–	–	35.5	–
Health	15.7	*	5.2	25.8
Education	18.7	*	0.5	37.3
Housing and private property	29.1	–	–	43.6
Government property	5.2	*	6.0	10.2
Sub-total: Social Sectors	68.7	*	47.2	116.9
Water and sanitation	13.4	*	6.6	13.4
Energy and telecommunication	13.6	7.4	–	15.5
Roads	47.0	30.0	11.0	87.2
Railways	7.3	10.7	–	49.2
Sub-total: Infrastructure	81.3	48.1	17.6	165.3
Agriculture**	57.9	63.0	–	57.9
Livestock	7.9	0.8	–	7.9
Fisheries	8.5	6.1	–	8.5
Industry**	25.7	68.0	–	30.8
Trade	15.7	15.0	–	15.7
Tourism	2.0	10.5	–	2.5
Sub-total: Productive Sectors	117.7	163.4	–	123.3
Sub-total: Environment	2.0	–	–	2.8
Sub-total: Disaster Prevention	3.4	–	–	19.4
Grand Total	273.1	211.5	64.8	427.7

Source: The World Bank. *Notes:* * Less than US\$ 500,000. ** Lost sugar cane production is included in agriculture; lost refined sugar production is included in industry. See text for definition of column headings.

Source: The World Bank

Piecemeal projects and funding



Source: *Dare to Prepare*, Overseas Development Institute, 2013





Global Framework for Climate Services: towards a more sustainable world

Climate-related development outcomes

Agriculture



Water



Health



Disaster Risk
Reduction



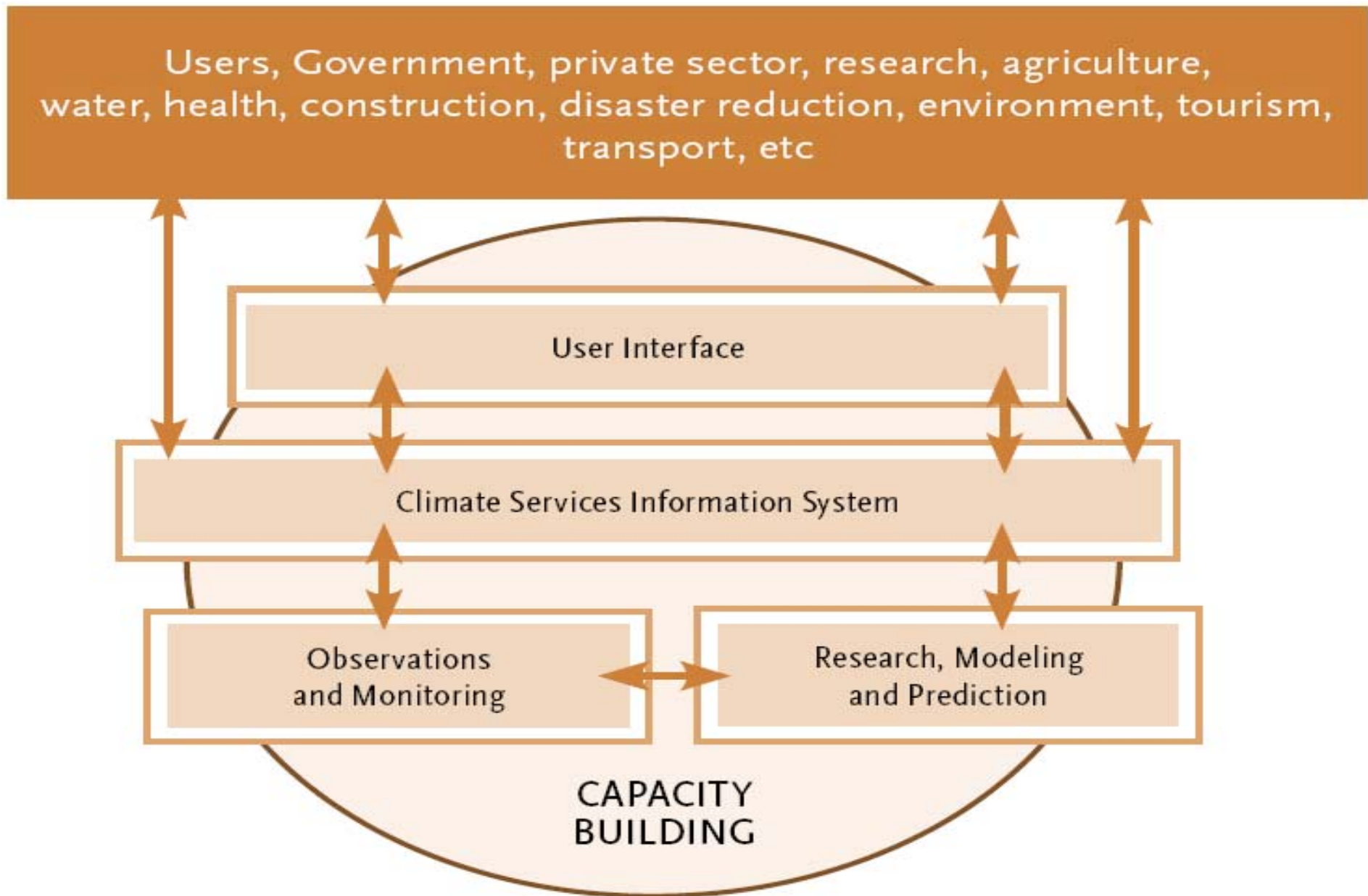
What are Climate Services?

- Information on past, present and future climate, and on its impacts on natural and human systems
 - Historical climate data sets
 - Climate monitoring
 - Climate watches
 - Monthly/Seasonal/Decadal climate predictions
 - Climate change projections
- Improved climate related outcomes
 - access the right product for decision making, and
 - use it appropriately including aspects of uncertainty

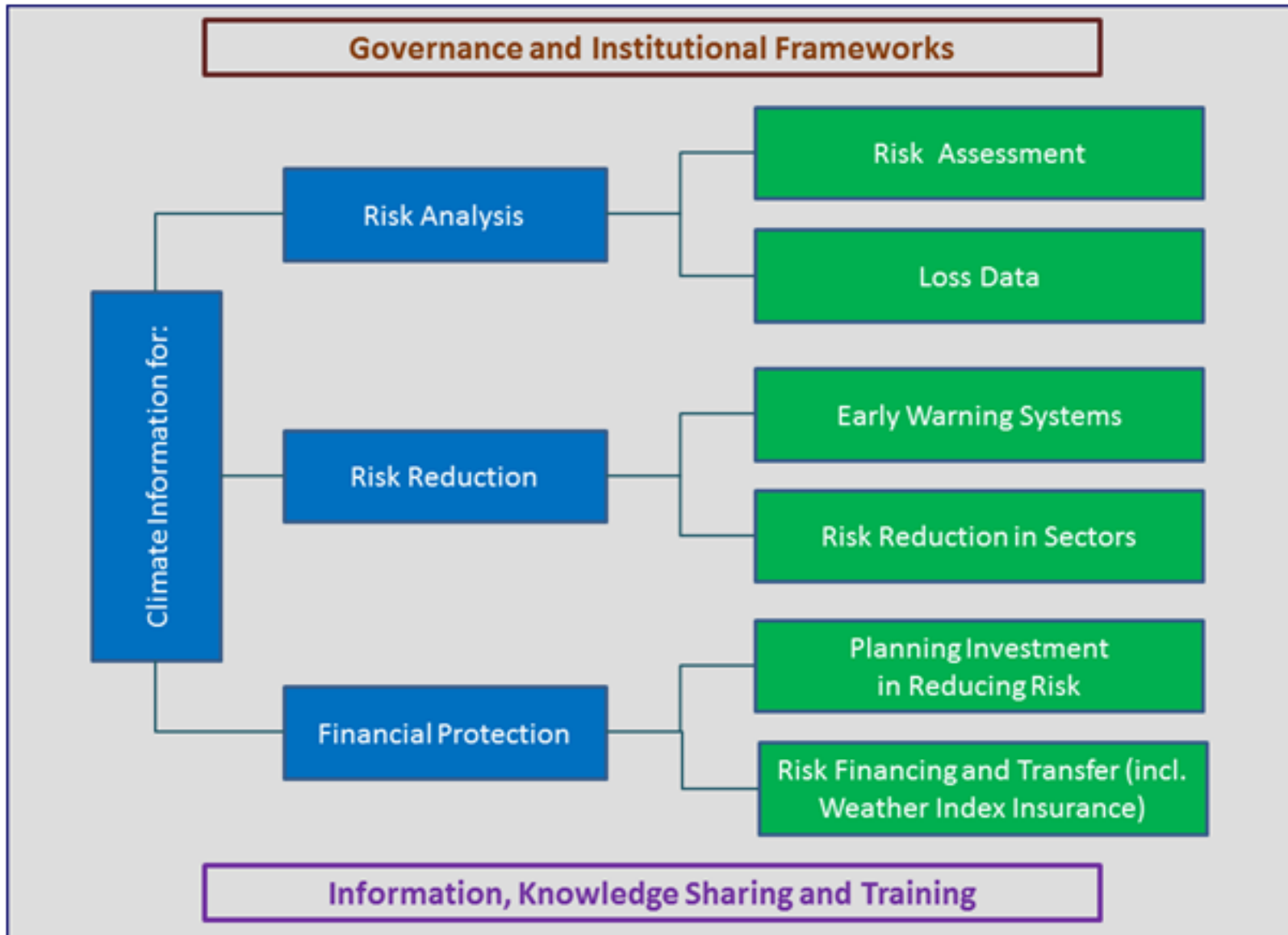


Photo Credits: NASA, Pedro Sanchez, Renzo Taddei

The pillars of the GFCS



Disaster reduction “Exemplar”



Disaster reduction GFCS requirements

	UIP	CSIS	Obs/Mon	RMP	
Risk assessment					Capacity development
Loss data					
Early warning					
Risk reduction in sectors					
Planning investment					
Risk finance and transfer					
Capacity development					

Requirements



Effective use of climate information in supporting adaptation planning



Adaptation planning (and implementation)

- Assessment of climate impacts on development and identification of risk management priorities
- Formulation of comprehensive plans which will lead to improved climate-related outcomes
 - Required measures
 - Required information
- Programme alignment
- Systems for tracking loss and damage



GFCS Implementation Coordination meeting

- 29 September – 1 October, Geneva
- Focus on 16 countries
- Day 1 – partner country programmes
- Day 2 – scientific/technical support capacity
 - Eight technical commissions ~ 150 experts each
 - Global and regional centers, NMHSs
 - Sectoral and thematic programmes (e.g. drought, floods, agriculture, health, disasters)
- Day 3 – towards comprehensive, coherent, effective support





**World
Meteorological
Organization**

Weather • Climate • Water

Thank you for your attention