



An Overview of Metrics to Identify Capacity Gaps for NMHS

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Outline

1. **Background**
2. **Why assess NMHS?**
3. **What do we assess?**
4. **How is it assessed?**
5. **How is our approach different?**
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I. Background

**This is part of a USAID-funded project on:
“Assessing Sustainability and Effectiveness of Climate
Information Services in Africa”**

**It is a research project with objective of:
Developing realistic models and options for sustainable
delivery of climate information services in Africa**

**Sub-Objective1: Develop metrics to assess
sustainability and effectiveness of climate Information
services in Africa**

2. Why assess NMHS?

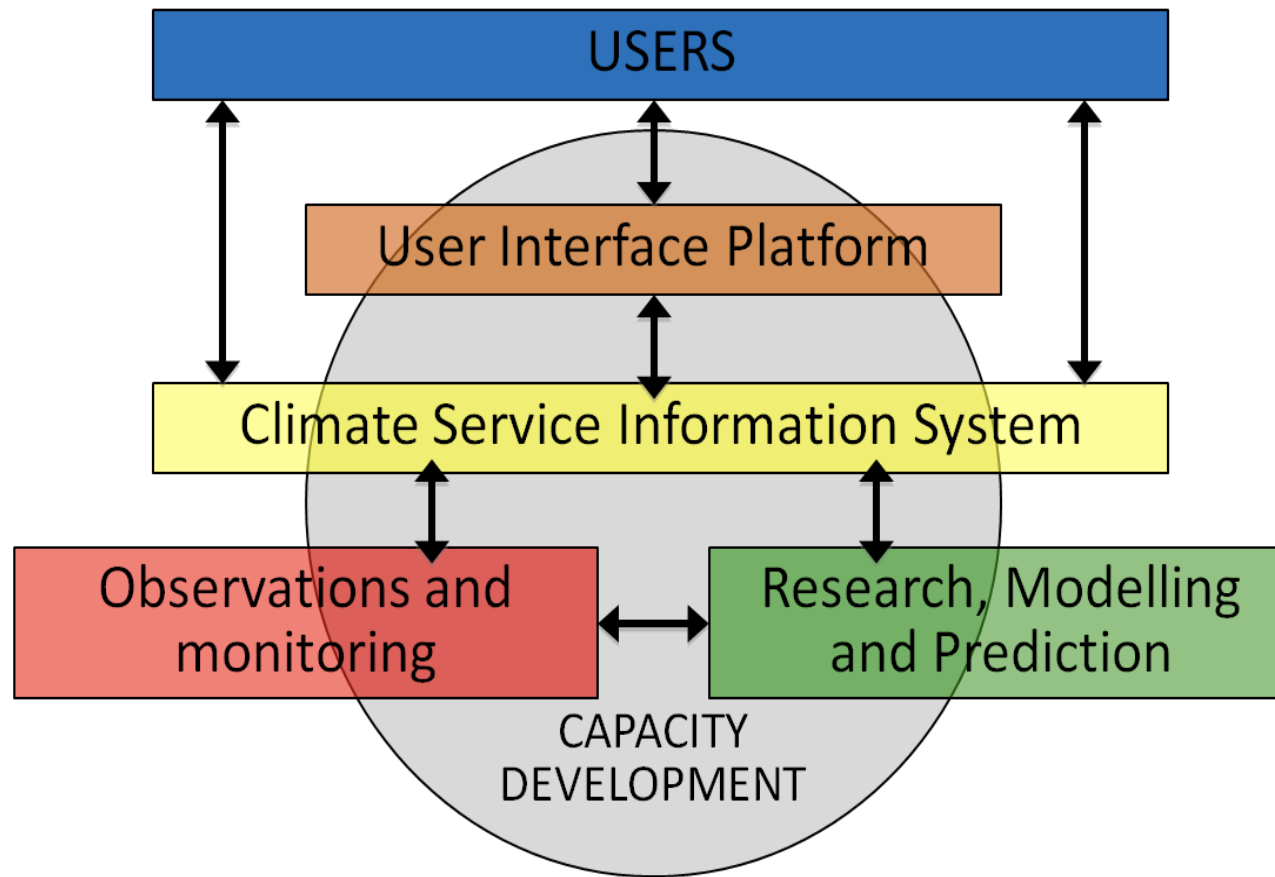
To understand and bridge capacity gaps



Source: <http://www.newindianexpress.com>

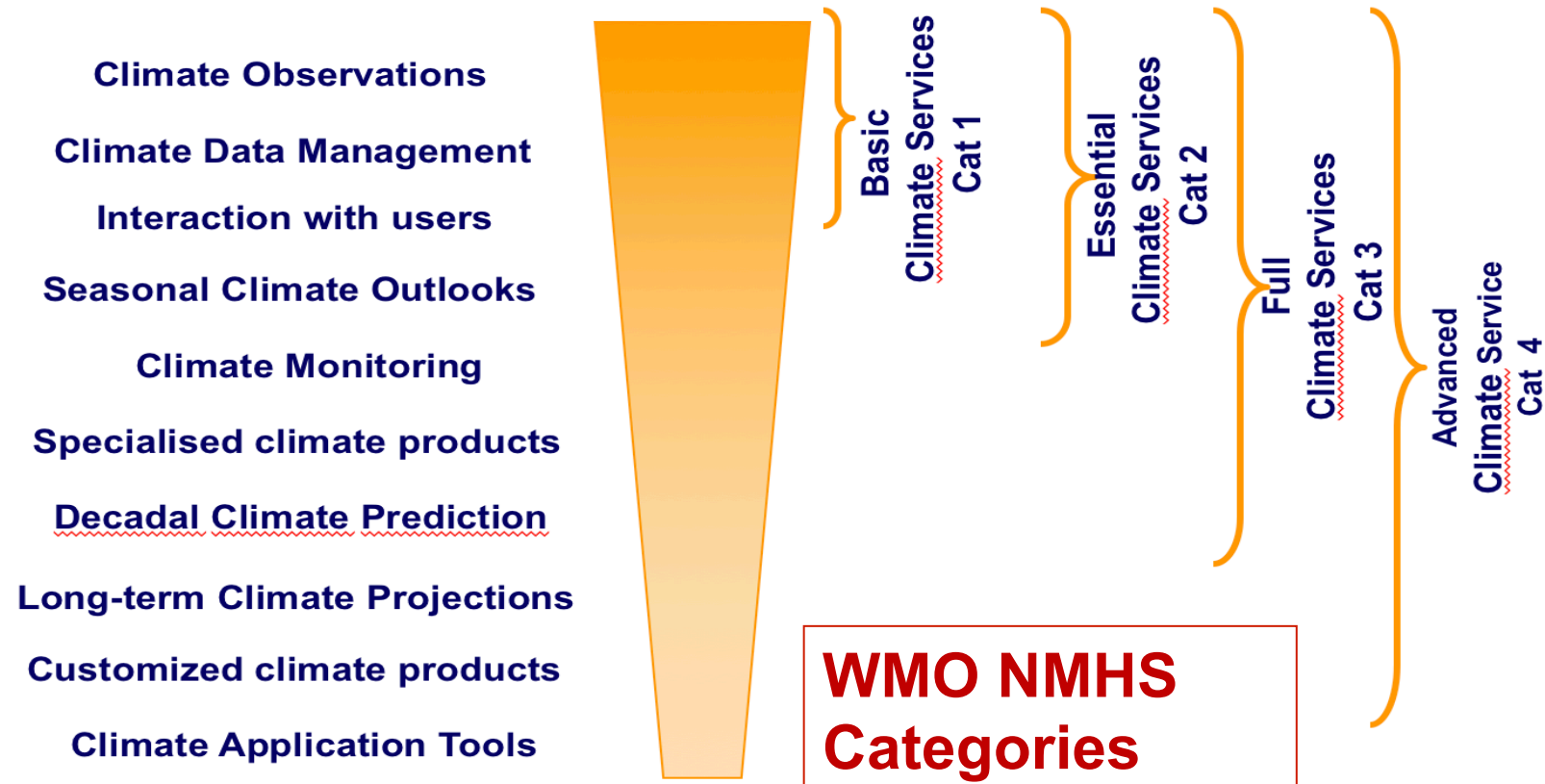
3. Wat do we assess?

3.1 What capacities need to be assessed?



What do we assess?

3.2. How do we measure progress?



4. How is it assessed?

	Criteria	Indicators	Survey Questions	National Capability
Category 1 "Basic"	Operate and maintain adequate national observing systems, suitable for basic hydro-meteorological purposes	X% of stations manned by trained observers (X will depend on the ratio of synoptic	24, 28	
			24	
		Minimum density of upper air observation stations ~250,000km ² (every 500 km)[Min Req WMO,488]	26	
		Percentage of sites reporting regularly over the last year >=75% (check)	24, 37	
		X% of manual stations inspected every N year (X, N depends on the proportions of different types of stations)[WMO 544]	24, 35, 36	
			38	
		Percentage of stations reporting to NMHS headquarters every day over the last year >	29, Q	
		Percentage of class 3 and above stations >= 25% (check)	24	
<div> <div>►</div> <div>Observation & Monitoring</div> <div>Research and Predictions</div> <div>Climate Information System</div> <div>User Interface Platform</div> <div>Capacity Development</div> </div>				



5. How is our approach different?

- **Measures progress with regards to specific capacities (GFCS pillars) towards a specific milestones (WMO NMHS Categories)**
- **Not a self-assessment: This is based on analysis of data collected through surveys**
- **Efforts made to make it as quantitative and as objective as possible**

6. Preliminary results

Report card

Pilar1(Observation and Monitoring), All NMHS

	NMHS1	NMHS2	NMHS3	NMHS4	NMHS5	NMHS6	NMHS7
CAT-1 Basic	Green	Red	Red	Yellow	Green	Green	Red
CAT2 Essential	Red	Red	Red	Red	Yellow	Red	Red
CAT3 Full	Red	Red	Red	Red	Red	Red	Red
CAT-4 Advanced	Red	Red	Red	Red	Red	Red	Red

Is the criteria satisfied?:

Yes	Green
Almost	Yellow
No	Red

Preliminary results

Report card

All pillars: NMHS1

	Pilar1 O & M	Pilar2 R & P	Pilar3 CIS	Pilar4 UI	Pilar5 CD
CAT-1 Basic					
CAT2 Essential					
CAT3 Full					
CAT-4 Advanced					

Is the criteria satisfied?

Yes	
Almost	
No	



7. Challenges

- **Criteria not well defined: thus, hard to come up with the right indicators;**
- **Coming up with right questions(number and fit-for-purpose), and precise quantitative metrics.**
- **Still very subjective: determining thresholds, weights, and percentages, ...**
- **Inaccurate/suspicious responses(NMHS not very careful)**



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Thank You

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