

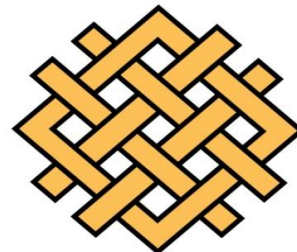
Making Adaptation Count:

Concepts & Options for Monitoring & Evaluation of Adaptation

Meg Spearman, on behalf of WRI
Africa Biodiversity Collaborative Group Meeting
Washington DC
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Federal Ministry
for Economic Cooperation
and Development



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Introduction

What questions did we seek to answer in the guide?

- What are the needs and uses of M&E for CCA?
- What is the effectiveness criteria for CCA?
- State of the art – who's doing what in CCA?

Introduction

Who is this for?

- Development practitioners
- Adaptation specialists
- Funders of adaptation interventions

Challenges to M&E of Adaptation

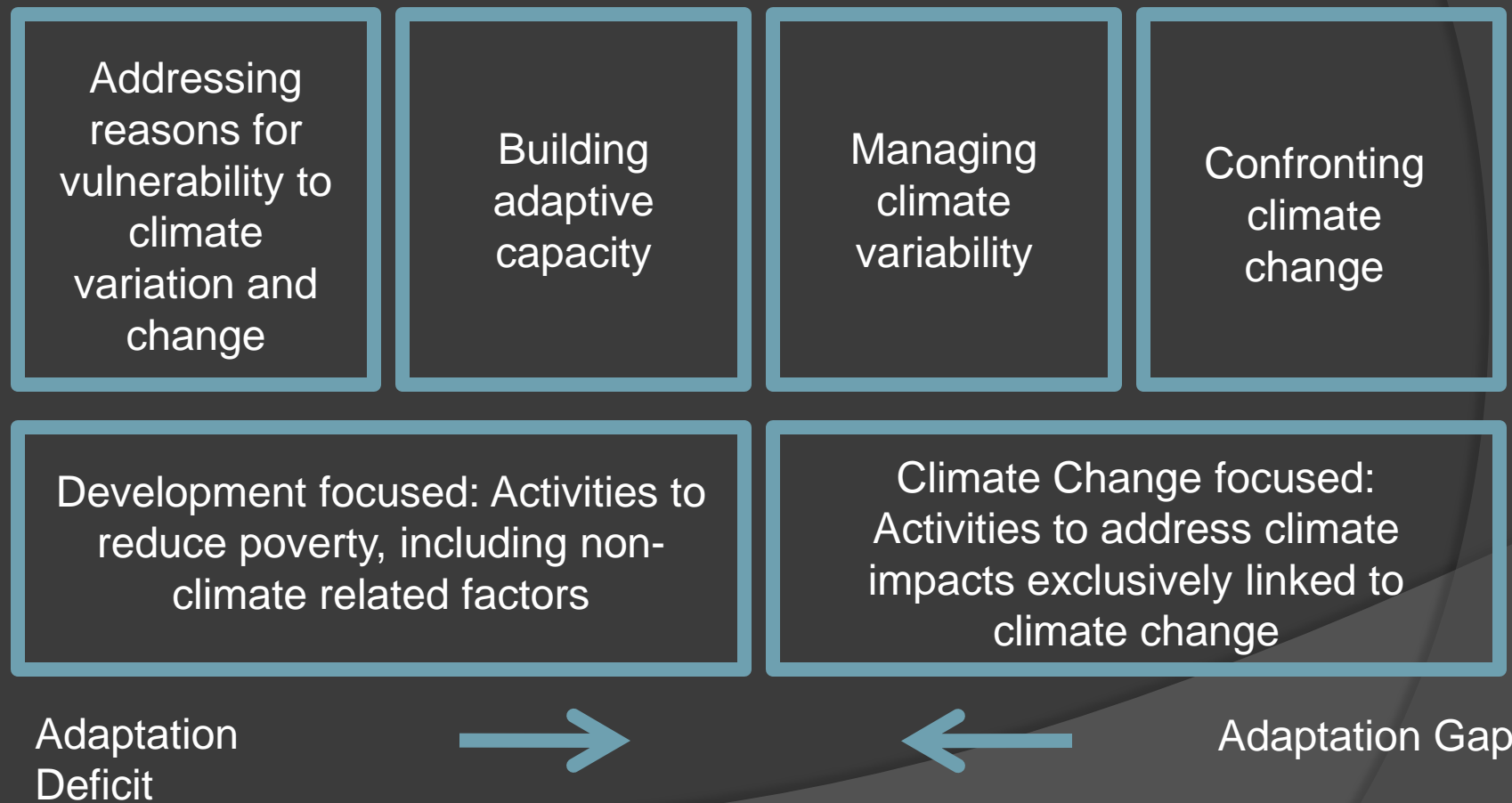
- The past is not a guide to the future
- Uncertainty (scientific, political, financial)
- Complex and cross-sectoral



M&E for adaptation needs to:

- **Foster learning**
- **Ensure broad ownership**
- **Support RBM (results-based management)**
- **Be relevant and flexible**

Defining Adaptation Depends on the Implementation Context



Tensions in shaping M&E systems for Adaptation

**The Purpose of M&E:
Learning vs. Accountability**

**Definition of Effectiveness:
Process vs. Outcome**

**Basis for M&E System Design:
Practical vs. Conceptual**

**Ownership of M&E:
Bottom-up vs. Top-down**

Types of Adaptation Efforts



Early Lessons on Adaptation M&E



***Adaptation
depends
heavily on
context***



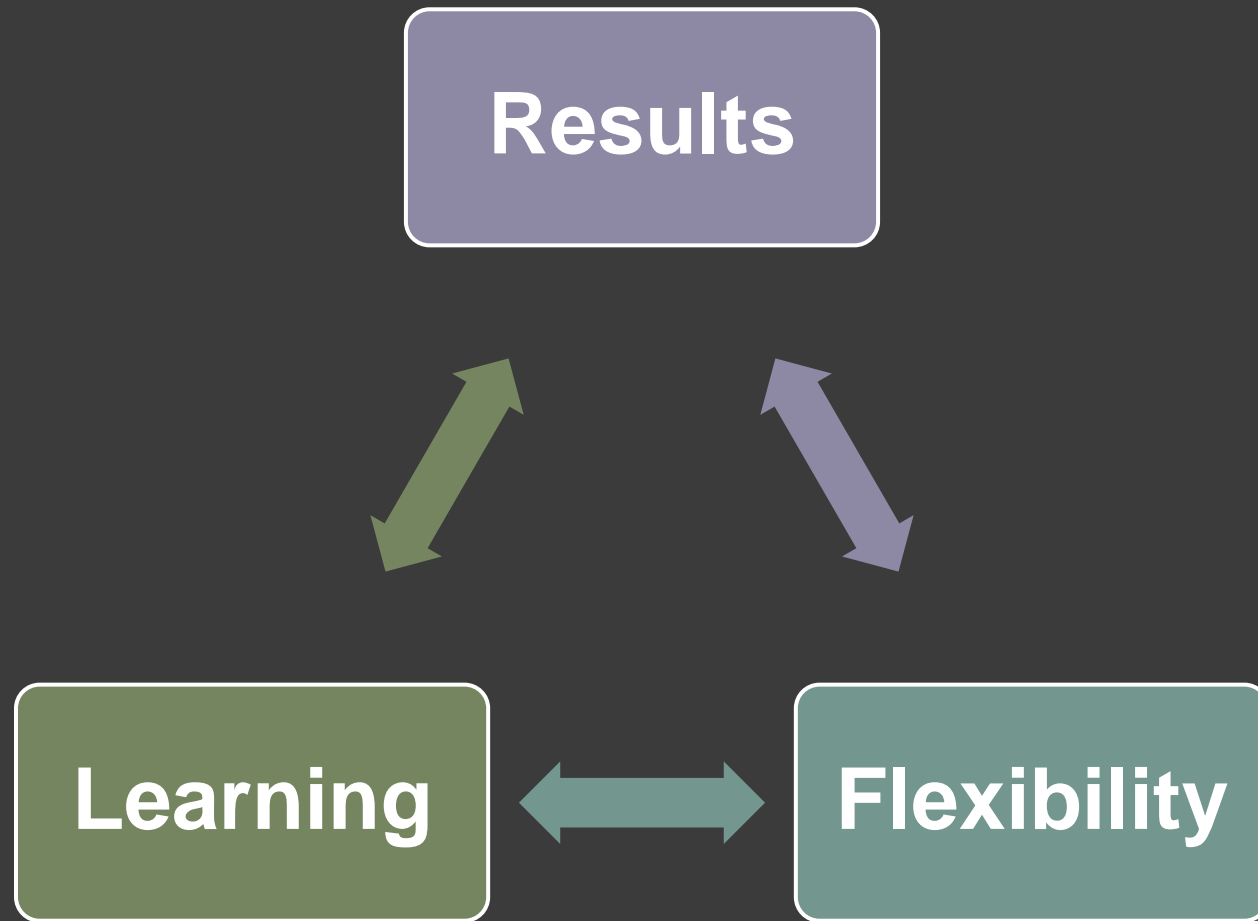
***Diversity
contributes to
adaptation-
relevant M&E
systems***



***Assumptions
matter under
uncertainty***



Principles of Adaptation M&E



Steps to form an Adaptation-relevant M&E System

1. Describe the Adaptation Context



2. Identify the Contribution to Adaptation



3. Form an Adaptation Hypothesis



4. Create an Adaptation Theory of Change



5. Choose Indicators & Set Baseline



6. Use the Adaptation M&E System

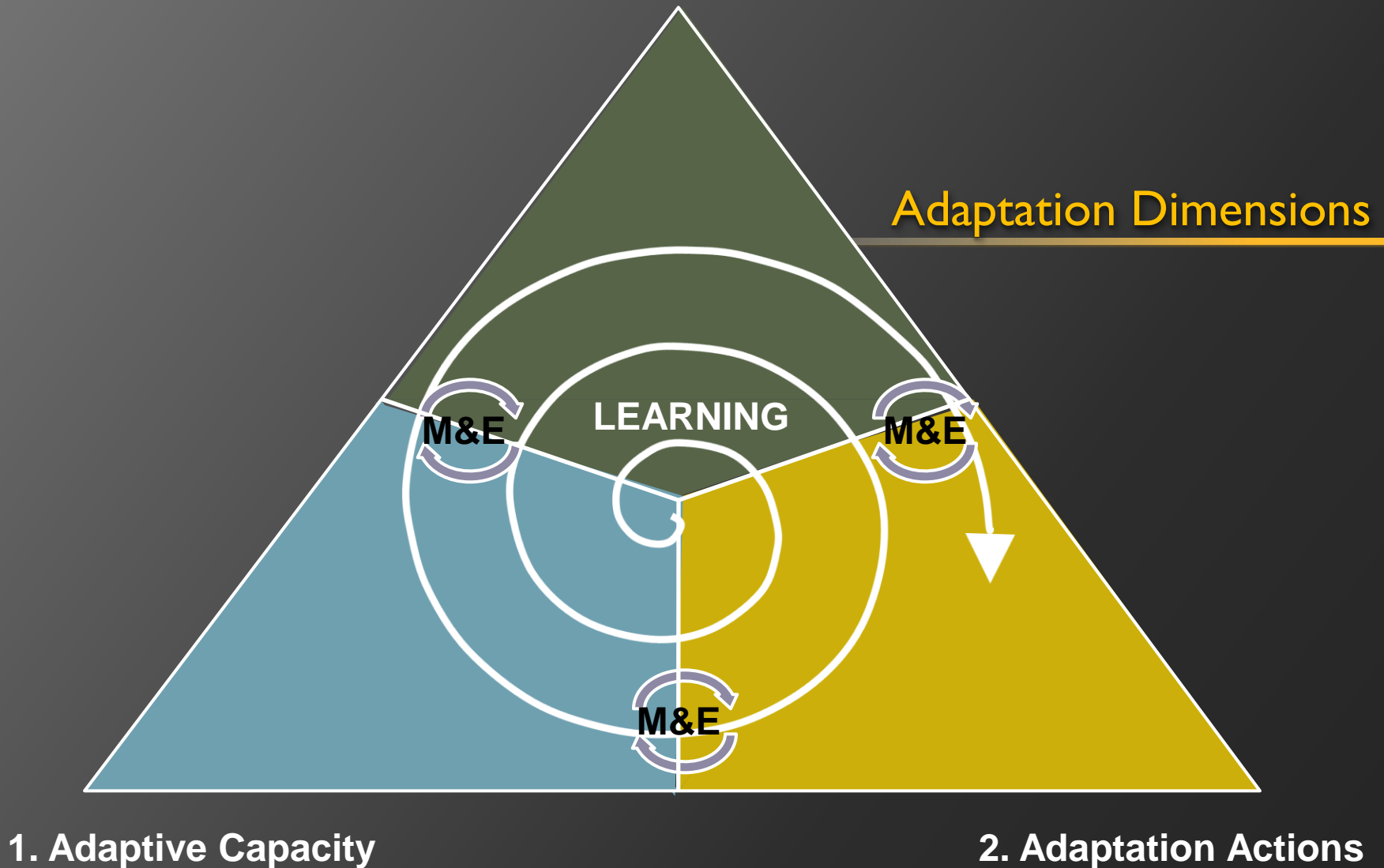
Step 1: Describe the Adaptation Context

- What is the planning area or sector of interest?
- Who is vulnerable, and why?
- What climate risks are projected?
- What are the likely consequences?



Step 2: Identify the Contribution to Adaptation

3. Sustained Development



Step 3: Form an Adaptation Hypothesis*

GOAL:

Enhance the adaptive capacity of communities in semi-arid areas



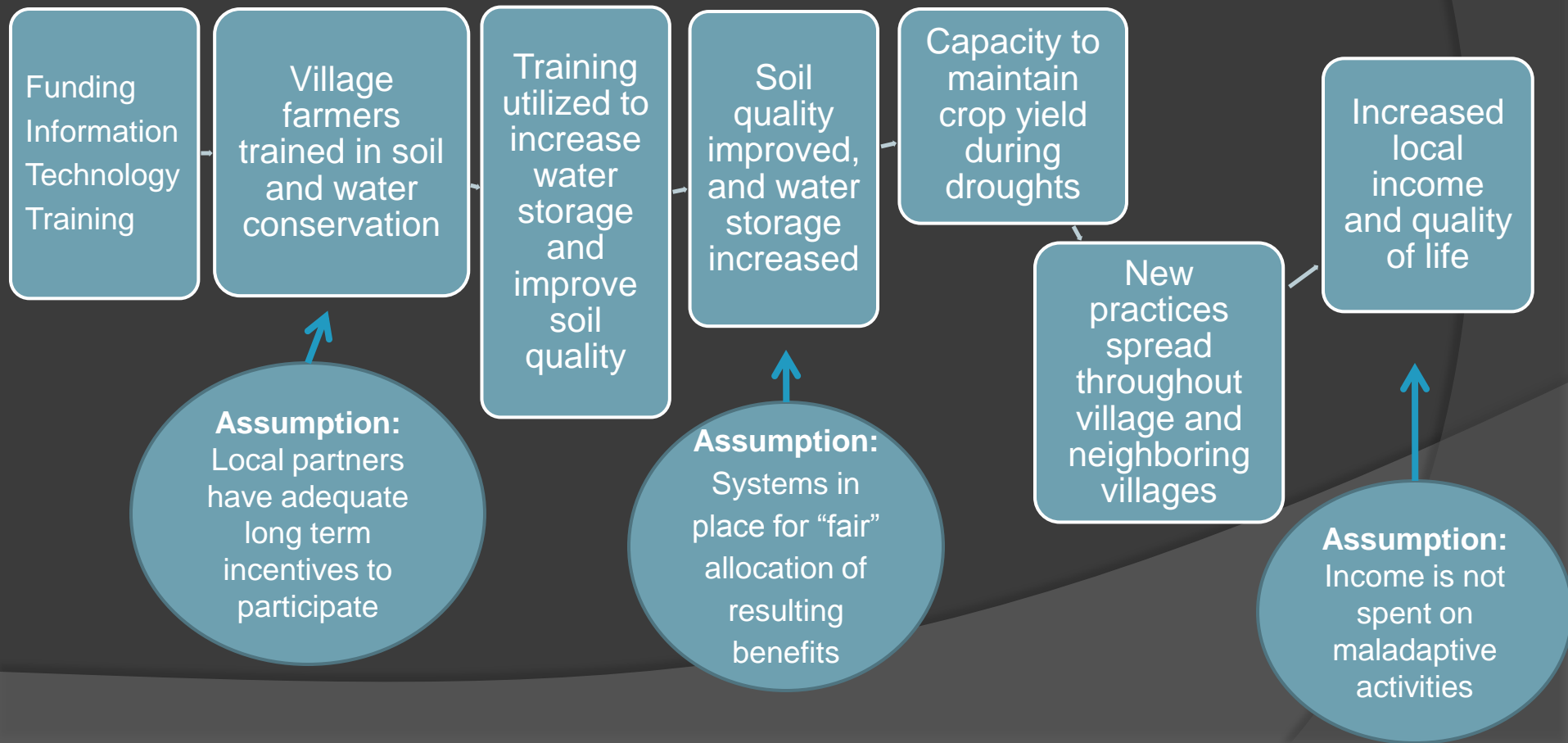
Adaptation Hypothesis

Livestock rearing is an important livelihood strategy but is threatened by climate variability. Buffer stocks of fodder and new breeds of livestock can help families maintain and build valuable assets.

* Special thanks to A. Nambi, Ilona Porche, and Nana Kuenkel

Step 4: Create an Adaptation Theory of Change

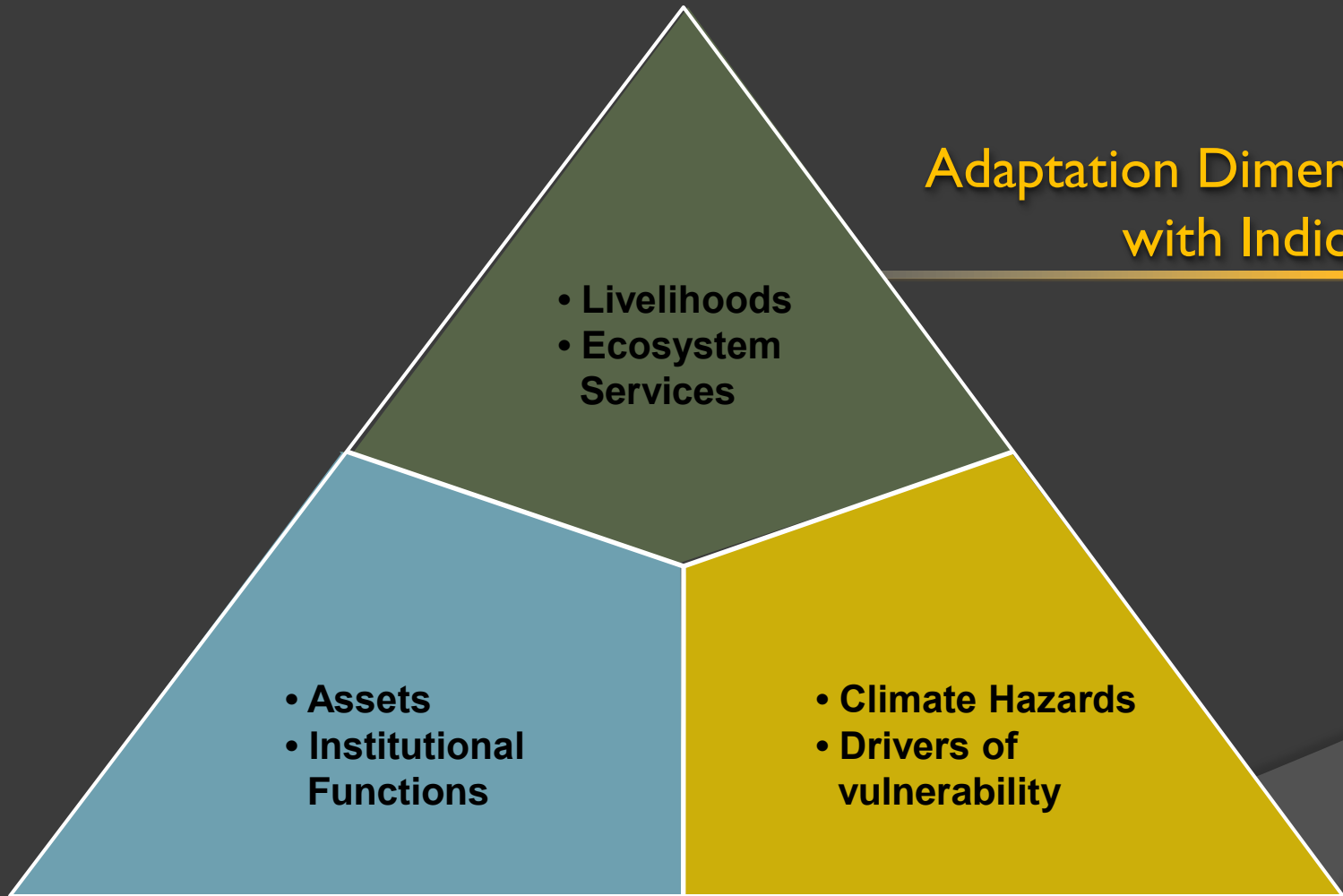
Inputs	Activities	Outputs	Primary Outcome	Secondary Outcome	Impact / Final Outcome
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Step 5: Choose Indicators and Set Baseline

3. Sustained Development

Adaptation Dimensions with Indicators



1. Adaptive Capacity

2. Adaptation Actions

Step 6: Use the Adaptation M&E System

GIZ Draft Monitoring Matrix

Possible structure of an adaptation monitoring matrix

	Area of adaptation contributions/ results	Enhancing Adaptive Capacity	Adaptation Activities	Safeguarding Achievement of Overarching Development Objectives		
				Economic	Social	Ecological
		Monitoring the development of problem-solving capacity needed to prepare for climate change (e.g. early warning capacity)	Monitoring the reduction of or preparation for key climate change risks (e.g. expansion of water storage capacity)	Monitoring changes at the level of overarching development objectives that are put at risk by climate change (e.g. income, health, ecosystem conservation etc.)		
	Adaptation hypothesis					
	Overarching objective of intervention					
Results chain / Indicators	Direct result					
	Use of output					
	Output					

Thank you!



World Resources Institute

<http://www.wri.org/>

Gesellschaft für Internationale Zusammenarbeit

<http://giz.de/>

- Here onward are bonus material / detailed slides expanding on those above

Adaptive Capacity Indicators

- Assets example

Asset	Example indicator
Rangeland	Area with improved collective rangeland management practices

- Institutional functions example

Institutional Function	Example indicator
Evaluation	Methodologies and guidelines available to assist local planners to integrate climate risks

Adaptation Actions Indicators

- Climate hazards example

Hazard	Example indicator
Flooding	Flood protection for strategic and priority flood-prone areas

- Driver of vulnerability example

Vulnerability Driver	Example indicator
Crop Homogeneity	Climate change adaptation measures of rural communities in agricultural production piloted and tested.

Sustained Development Indicators

- Ecosystem services example

Ecosystem Service	Example indicator
Regulating, Provisional	Protection of eco-systems that buffer the community from climate change risks made more economically sustainable.

- Livelihoods example

Livelihood	Example indicator
Equity of social capital	Participation in the decision-making process, and access of marginal groups to same

Step 5: Choose Indicators and Set Baseline

Adaptation Dimensions	Example <u>outcome</u> indicator	Example <u>process</u> indicator
Enhancing Adaptive Capacity	Percent of new urban development complying with new climate-compatible urban planning policy	Communication mechanism on climate change between ministry of urban development and relevant professional associations
Taking Adaptation Actions	Annual value of crop loss due to flooding (over 10 year average)	Coverage of nonstructural flood management systems (at risk households and property included)
Sustaining development in a changing climate	Change in total income of (targeted) women from non-climate sensitive sectors	Number of (targeted) women with access to credit to start businesses in non-climate sensitive sectors

Step 5: Choose Indicators and Set Baseline

⦿ Setting baselines

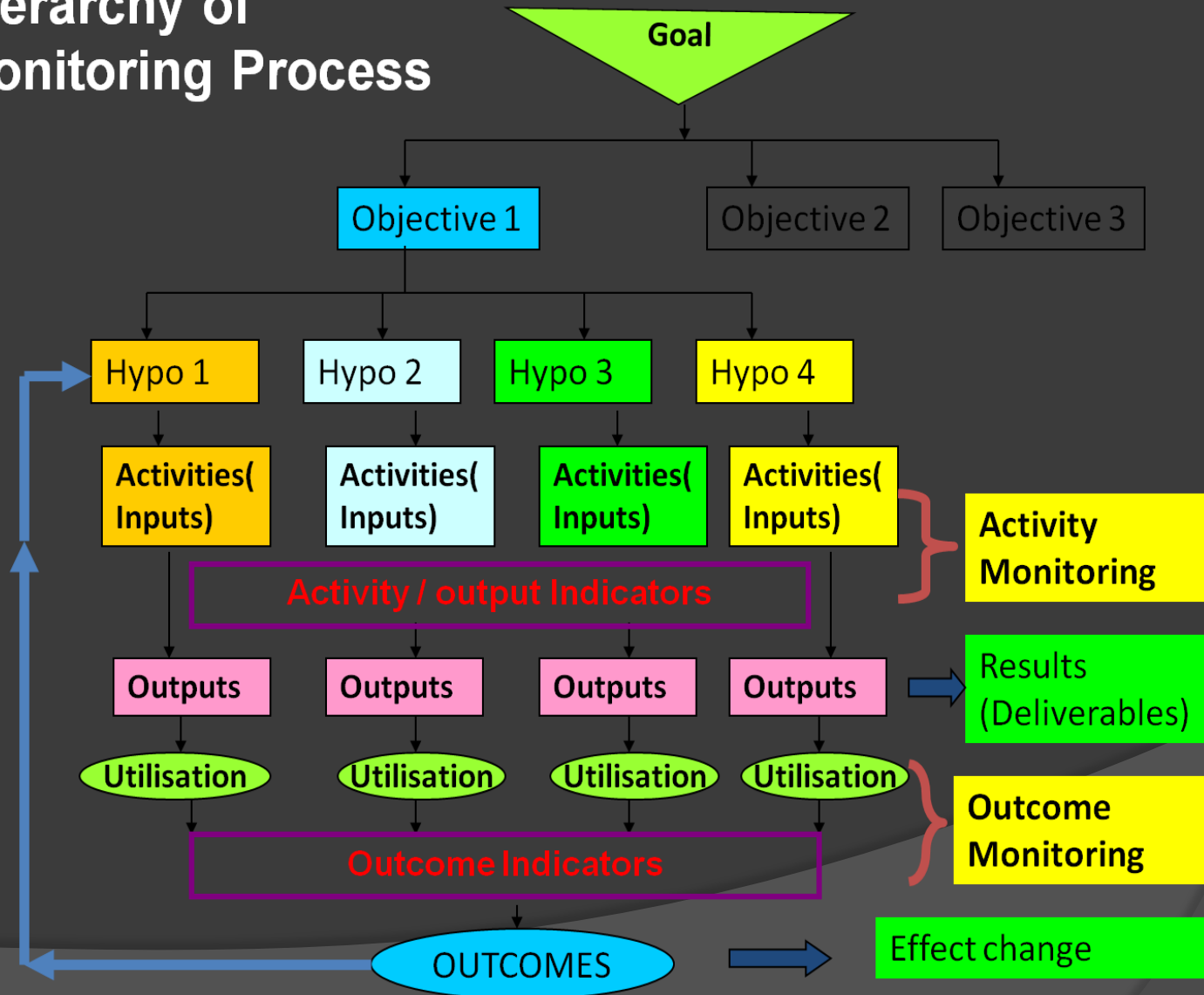
- Review and synthesize existing information
- Describe existing adaptation policies and measures
- Develop baseline indicators which take into account underlying historical trend
- Identify which adaptive dimension the baseline indicators address

Step 6: Use the Adaptation M&E System

Indicators	Baseline value	Data collection method	Responsibilities	Resources	Assumptions
<ul style="list-style-type: none">•From results framework/ theory of change•Should also account for key areas to monitor (e.g. related to risks)	<ul style="list-style-type: none">•From vulnerability / risk assessment	<ul style="list-style-type: none">•Survey?•Meeting?•Workshop?	<ul style="list-style-type: none">•Who does what to monitor?•Who verifies reported data & from where?	<ul style="list-style-type: none">•Estimation of resources required and committed	<ul style="list-style-type: none">•What risks or assumptions are there about the M&E plan? How might they affect the M&E collection and quality of data?

Inter-cooperation Monitoring Diagram

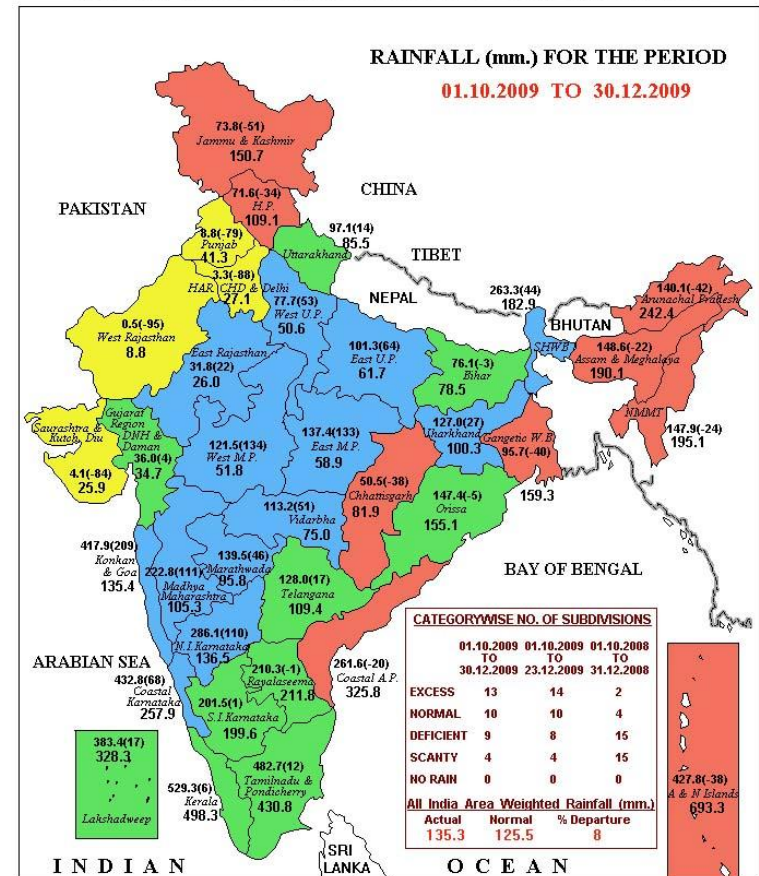
Hierarchy of Monitoring Process



India Case Study

- Conducted over 2.5 weeks
- Interactions with the following organizations: MoEF, IIT Delhi, PACT Asia, NABARD, SDC, IISc, WOTR, WFP, ANTRIX/ISRO, TERI (tbd), MoUD, BASIX/CTRAN
- 3 WOTR (1 also SDC) watershed management projects visited
- 3 GIZ (rural livelihoods, watershed self-help, adaptation in rural areas "RAI"); 2 KfW (desertification, VA in NE India) projects considered (documentation)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: ■ EXCESS (+20% OR MORE) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%)
■ SCANTY [-60% TO -99%] ■ NO RAIN [-100%] ■ NO DATA

NOTES:

(a) Rainfall figures are based on operational data.

(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.