PRESENTATION TITLE:

TRANSFORMATIONAL ADAPTATION THROUGH SCALED-UP AND SCALED-OUT STRATEGIES AND APPROACHES

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OUTLINE



- Why transformational adaptation?
- Scaling-up and Scaling-out approaches
- Requirement for transformative adaptation
- Examples from Nepal on transformational pathways
- Learning for LDCs and other developing countries;
- Conclusion



WHY ADAPTATION NEEDS TRANSFORMATION?

- Current adaptation interventions involve incremental approaches
- They protect and sustain existing systems and practices,
- Transformational adaptation is needed to replace failing systems and institutions;
- Current adaptation work in LDCs do not address 'adaptation deficit' adequately;
- Scaling-up and scaling-out show potentials to move toward transformational pathways.

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Use of A@S Prize money as seed money for CCA

Under Ground Seepage Canal Bagar, Kulo

and a	Structure	seed money(adaptation	CFUG	community	Total Fund
		@scale)			
	Under Ground Seepage Canal (Bagar Kulo)	1,00,000	3,20,000	3,50,000	601000

Use of Prize money as seed money

Under Ground Seepage Canal construction

Structure	seed money(adaptation @scale)	Caritas	CFUG	Municipality	community	Total Fund
Under Ground Seepage Canal (kalapani Canal)	1,00,000	1,00,000	1,00,000	1,00,000	1,50,000	5,50,000

Use of Prize money as seed money

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Under Ground Seepage Canal Bahunmara, Dhanusa

Structure	seed money(adaptation	caritas Nepal	Municipality	CFUG	Community Contribution	Total Fund
	@scale)				contribution	
Under Ground Seepage Canal (Bahunmara)	1,00,000	1,00,000	1,00,000	1,00,000	1,50,000	5,50,000

WHAT IS SCALED-UP AND SCALED-OUT ADAPTATION?

- It is a big thinking and focuses on scale, skill, and speed;
- It is beyond business as usual (BAU)
- It is innovative, new and transformative;
- Policy makers and funders need scalable solutions;
- LDCs are reforming policies to encourage scalable adaptation; and
- Up-scaling and out-scaling offer maximum adaptation benefits

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TRANSFORMATIVE ADAPTATION

Transformative: "Adaptation that changes the fundamental attributes of a system in response to climate and its effects." (IPCC, 2014);



Adaptation @ Scale Prize Innovativeness in Canal: Same Canal Used for Drinking & **Irrigation** Purpose

Climate Adaptive Measures:

- Construction of Cutoff wall in the upstream river
- Collection of the seepage Water by laying filter pipes
- Reservoir tank (50,0000 ltr.) made using Ferro- cement technology

Climatic risks:

- No access to clean drinking water nearby
- Children and women have to spend hours
- Need to dig water holes in silted river for accessing dirty water
 - High risk of water borne disease



SCALED-OUT/SCALED-UP ADAPTATION

- Scaled-out adaptation benefits larger population, in a greater speed using multiple skills and local governance.
- Scaled-up adaptation impacts policy, funding structure, knowledge, practice and capacity using evidence and learning.



ADAPTATION AT SCALE FOR LARGER AND BETTER IMPACTS



VISIT BY PRESIDENT & MINISTERS



PRE-REQUISITES FOR TRANSFORMATION IN ADAPTATION

- Creation of a resilient and alternative state (UKCIP, 215; <u>Walker et al., 2004</u>);
- Adaptation decision making is done through: a) networking, b) knowledge management and c) equitable access and governance (Goddard et al., 2016).
- Adaptation services are responding to multi-dimensional vulnerability toward a resilient state (S.J.Vermeulen et al., 2018);

DISASTER RISK REDUCTION THROUGH BIO-ENGINEERING



LEARNING FROM NEPAL: STEPS USED FOR SCALING ADAPTATION

- Identify indicators of good practices;
- Create and provide cash and kind incentives;
- Provide technical knowledge and capacity building to do scale-up and scale-out;
- Jointly understand and develop diverse scaling pathways;
- Enable learning by doing for reaching impact at scale

Adaptation Method to reduce effect on drinking water

Raising of Seepage Water Level for Drinking Purpose "Dudhpani"

RESILIENCE THROUGH LIVELIHOOD DIVERSIFICATION



Adaptation @ Scale Prize Project

Run Off Water Harvest pond Scaling Up & Scaling Out Approaches

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CONCLUSION

- Transformational adaptation is an evolving discipline;
- Peer-learning, learning-though-practice and inclusive knowledge use transforms capacity development & technology transfer;
- Co-management, co-production and equitable sharing of adaptation services (e.g. PES) transforms governance (see <u>Chaffin et al., 2016</u>);
- Evidence based policy making enhances govt., donor and private sector finance;

