



Sustainable
Intensification of
Mixed Farming Systems

Sustainable Intensification of Mixed Farming Systems: Work Package 3 Overview

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WP overview, objectives and research questions



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- 01 To focus on participatory design, implementation, critical reflection, and monitoring of approaches and interventions for SI-MFS,
- 02 Assesses demand and refine SI options through data from a network of pilot areas,
- 03 Generate strong evidence that promotes adoption and highlights aspects contributing to update of SI options for MFS

Research questions



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- 01 What are the opportunities, constraints, and preferred entry points for improving equity, resilience, and efficiency along SI pathways? (**co-diagnosis**)
- 02 Which features of socio-technical innovation packages for SI of MFS enhance uptake and improve sustainability, resilience and equity of MFS? (**Participatory Bundling in Selected Farming Systems**)
- 03 Which are the most scalable SI innovation packages that improve sustainability, resilience, and equity in the selected MFS? (**Co-evaluation**)

Work Package 3 outputs, activities and deliverables



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Output	Activity	Entity and Partners	System/Country	2022 Deliverables
Output 3.1 Sex-disaggregated open access datasets generated from pilot areas ready for use by WP2, WP4, and WP5 and other initiatives and partners.	Preparation of data collection tools (questionnaire / ODKs) and support for baseline characterization	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	1. Sex-disaggregated open access datasets generated from pilot areas ready for internal and external use;
	Sampling and actual data collection in collaboration with national partners	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	
	Data curation and publication	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	

Work Package 3 outputs, activities and deliverables



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Output	Activity	Entity and Partners	System/Country	2022 Deliverables
Output 3.1 Atlas of MFS typology and characterization of selected farming systems in terms of their potential for SI with a specific focus on resilience, efficiency and equity and farmers' preferences	Development and validation of a set of valid indicators for typology and identification scope for SI of MFS	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	2. MFS typologies and characterization of selected MFS for e-Atlas
	clustering and data analysis and generation of appropriate SI-MFS typologies in the considered countries (systems)	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	
	GIS analysis for the studied MFS types for enhanced characterization beyond the studied sites/countries,	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	

Work Package 3 outputs, activities and deliverables



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Output	Activity	Entity and Partners	System/Country	2022 Deliverables
Output 3.3 Technical papers providing suite of Co-refined and validated context-specific, technically and economically viable, gender-transformative and demand-driven innovation packages	Develop scaling strategies for the identified innovative packages, (together with SR)	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	3. Technical reports with suite of validated, context-specific SI innovation packages ready for scaling
	co-refining, validation, and testing of the developed innovation packages	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	
	Multicriteria assessment of the tested/piloted innovation packages, with documentation of the most impactful ones	All involved CG centers	Nepal, Ethiopia, Bangladesh, Laos, Malawi, Ghana	

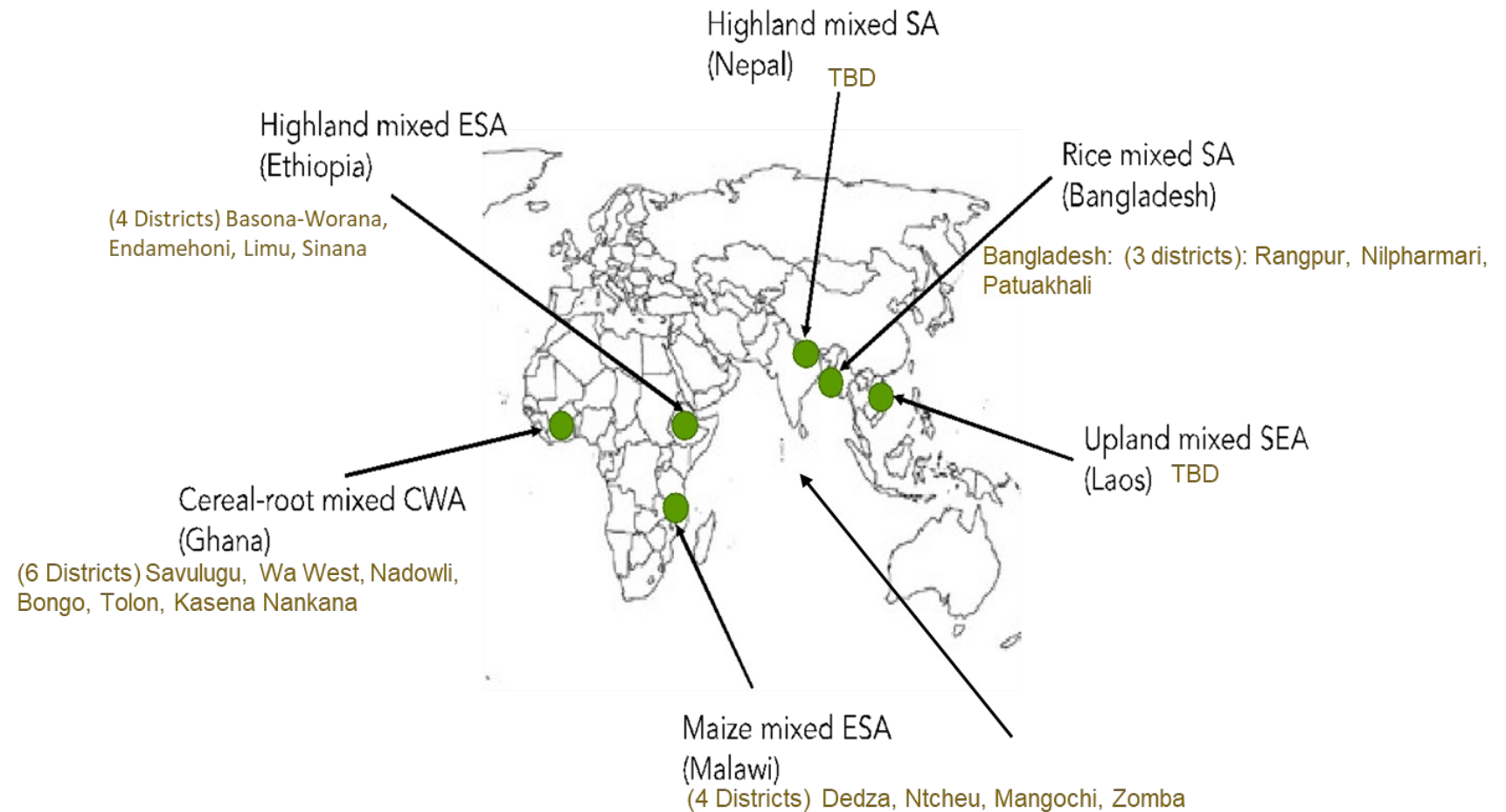
Implementation dynamics



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Missing
information on
implementation
partners,

Potential
innovations not
yet discussed in
depth,



Implementation dynamics – Technical Innovations specific to different farming systems



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Contour bunding technology (CBT)
Climate Smart strip intercropping in maize systems
The doubled-up legume technology
Innovative crop sequencing for productivity
Improved forages for sustainable intensification of MFS
Catalogue of multipurpose crops and trees combinations
Integrated Livestock Feed Intensification
Rice-Sunflower system to improve nutritional outcome
Cereal-forage system to boost livestock
Rice-agroforestry system to reduce environmental footprint
Collective leadership for sustainable and equitable MFS
Scaling Water-centric MFS for prosperity and empowerment
Scaling Agricultural Mechanization through Group Business Model
Game changer for digital transformation of agriculture (MWANGA)

Implementation dynamics – Other types of innovations



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			INITIATIVE WORKPACKAGES				
			WP1. Engaging, communicati ng, and integrating with other initiatives	WP2. Building methods and tools	WP3. Supporting, co-designing, and validating sustainable intensificatio n pathways	WP4. Avancing and supporting scaling of innovations	WP5. Capacity building for systems design and analyses
	Submitted Innovation/ core Innovation	TYPE					
INNOVATION 1 Sustainable Intensification practices for Mixed Farming Systems							
1,01	Contour bunding technology (CBT)	Practice			X		X
1,02	Climate Smart strip intercropping in maize systems	Practice			X		X
1,03	The doubled-up legume technology	Practice			X		X
1,04	Innovative crop sequencing for productivity	Practice			X		X
1,05	Improved forages for sustainable intensification of MFS	Practice			X		X
	* Cereal-forage system to boost livestock	Practice			X		X
1,06	Catalogue of multipurpose crops and trees combinations	Practice			X		X
1,07	Integrated Livestock Feed Intensification	Practice			X		X
1,08	Rice-Sunflower system to improve nutritional outcome	Practice			X		X
1,09	Rice-agroforestry system to reduce environmental footprint	Practice			X		X
INNOVATION 2. Socio-technical Innovations for the Sustainable Intensification of Mixed Farming Systems							
2,01	Collective leadership for sustainable and equitable MFS	Socio-tech				X	X
	*3P institutional arrangements for scaling ISFM	Socio-tech				X	X
2,02	Institutionalizing resilient MFS in local adaptation policy and planing	Socio-tech				X	X
2,03	Scaling Water-centric MFS for prosperity and empowerment	Socio-tech				X	X
2,04	Scaling Agricultural Mechanization through Group Business Model	Socio-tech				X	X
2,05	Game changer for digital transformation of agriculture (MWANGA)	Socio-tech				X	X

Linkages with other work package and cross-cutting themes



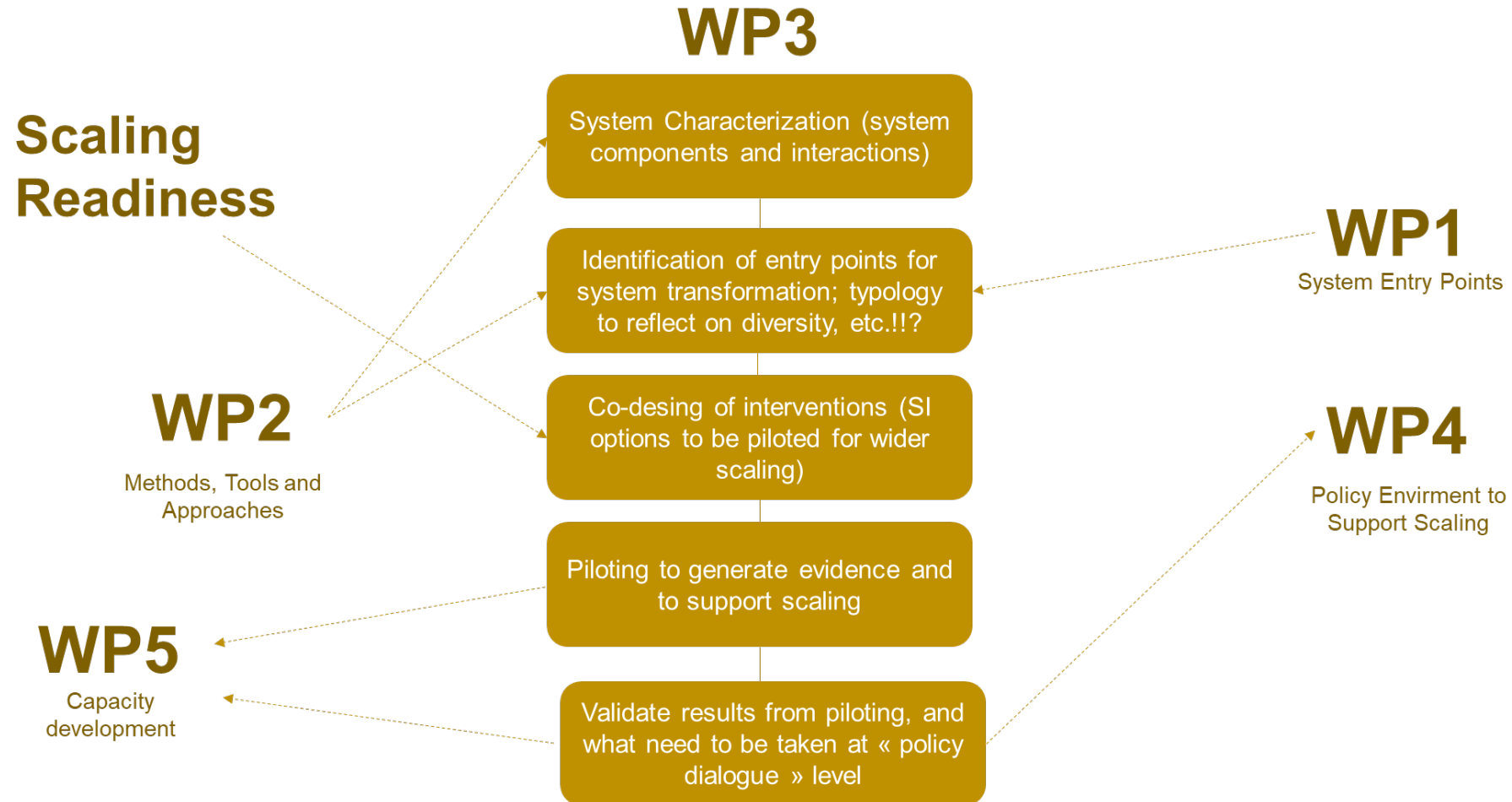
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- WP3 provides empirical settings, demand specifications, and data to develop/adapt and apply M&T from WP2
- WP3 will provides local co-design examples and empirical evidence on SI options for global and regional analyses in WP1
- With support from WP4, WP3 will generate evidence on enabling environments for scaling and will support the related capacity development (WP5)

Linkages with other work package and cross-cutting themes



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Potential linkages with other initiatives

- WP3 will engage in pilot sites where other Initiatives are operating (e.g., Foresight & Metrics, EiA, SAPLING, Agroecology).
 1. With SAPLING: Nepal, Ethiopia,
 2. With Agroecology: Laos, Burkina,
 3. With “Foresight and metric”/LCSR: Series of global outlook studies (livestock and MFS can be one)

Key messages from Pre-inception meetings



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- Data collection under WP 3 need to be discussed with MELIA (to avoid redundancies) and WP2 who will be the main users of our datasets. Other issues related to the best way of collecting qualitative data was also discussed,
- Urgent need to discuss the priorities for the implementation: what are the priorities? Seasons which will start shortly? Packaging of innovations, which is key concept for this initiative? Etc.
- Site selection is still not clear yet in all countries.
- Which participatory platforms/approaches are we going to adopt in each country, and how much space country leaders need to have in this regards (vs centralized approaches for cross-countries comparison)?
- What will be the scope of the piloting, what and how much trials and demonstrations? Knowing that it's always difficult to pilot system packages!



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Thank you

