

Agroecology Innovation for Productive, Resilient and Inclusive Farming Systems and Landscapes

Food System Transitions: Unlocking Agroecology Innovation for Productive, Resilient and Inclusive Farming Systems

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Alliance of Bioversity International and CIAT

***Boosting agrifood research and innovation
cooperation for impact at scale***

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Participatory research supporting co-design and scaling of innovations for impact

Challenge

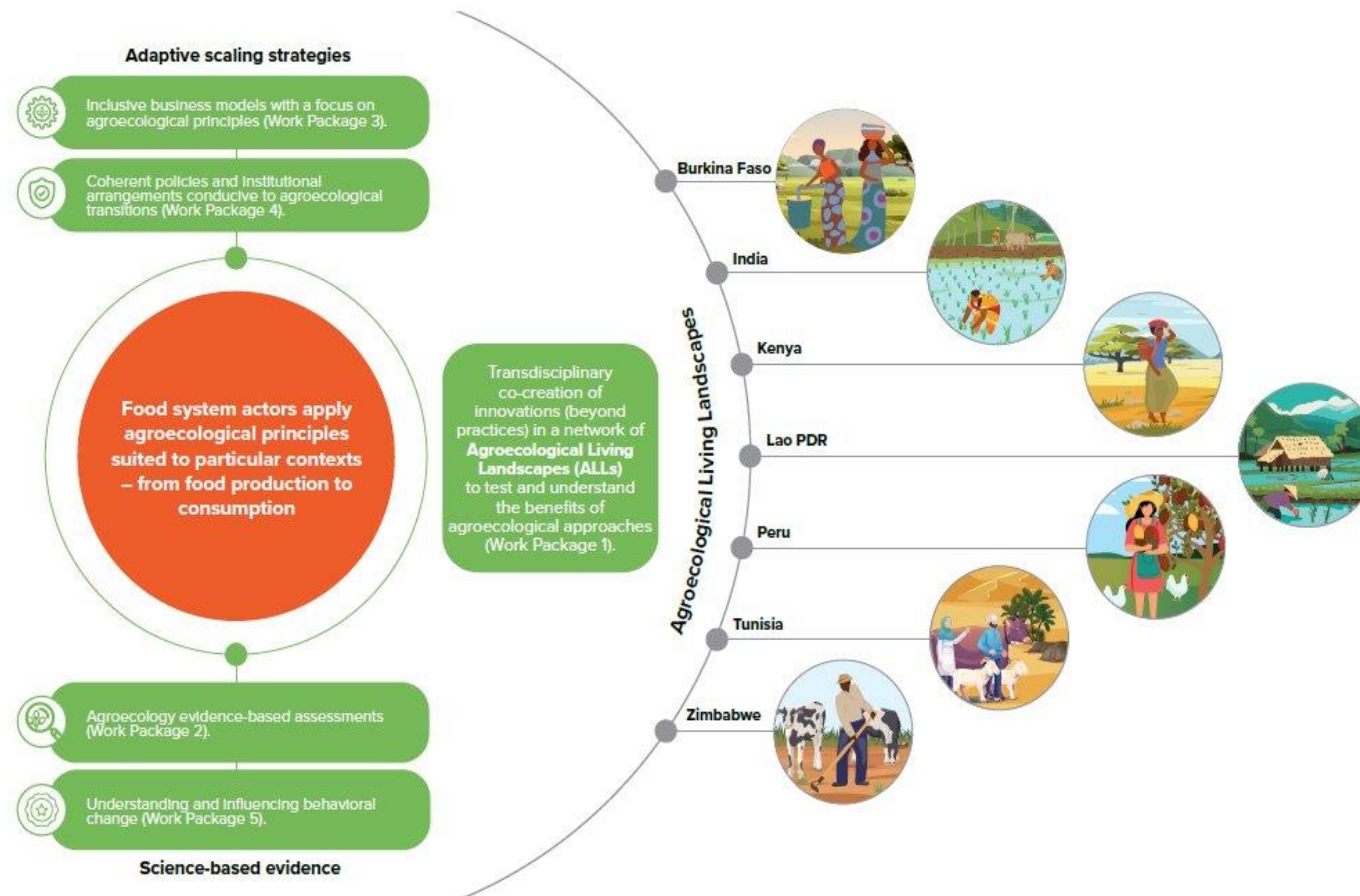
Food systems is affected by **several interconnected challenges** and **research and innovations processes are often sectoral and not holistic**

AE innovation system

Research and innovations, partnerships, policy and institutional enablers, impact at scale, farm level, landscape(s), public-private sector, digital tools

Expected outcomes and impact

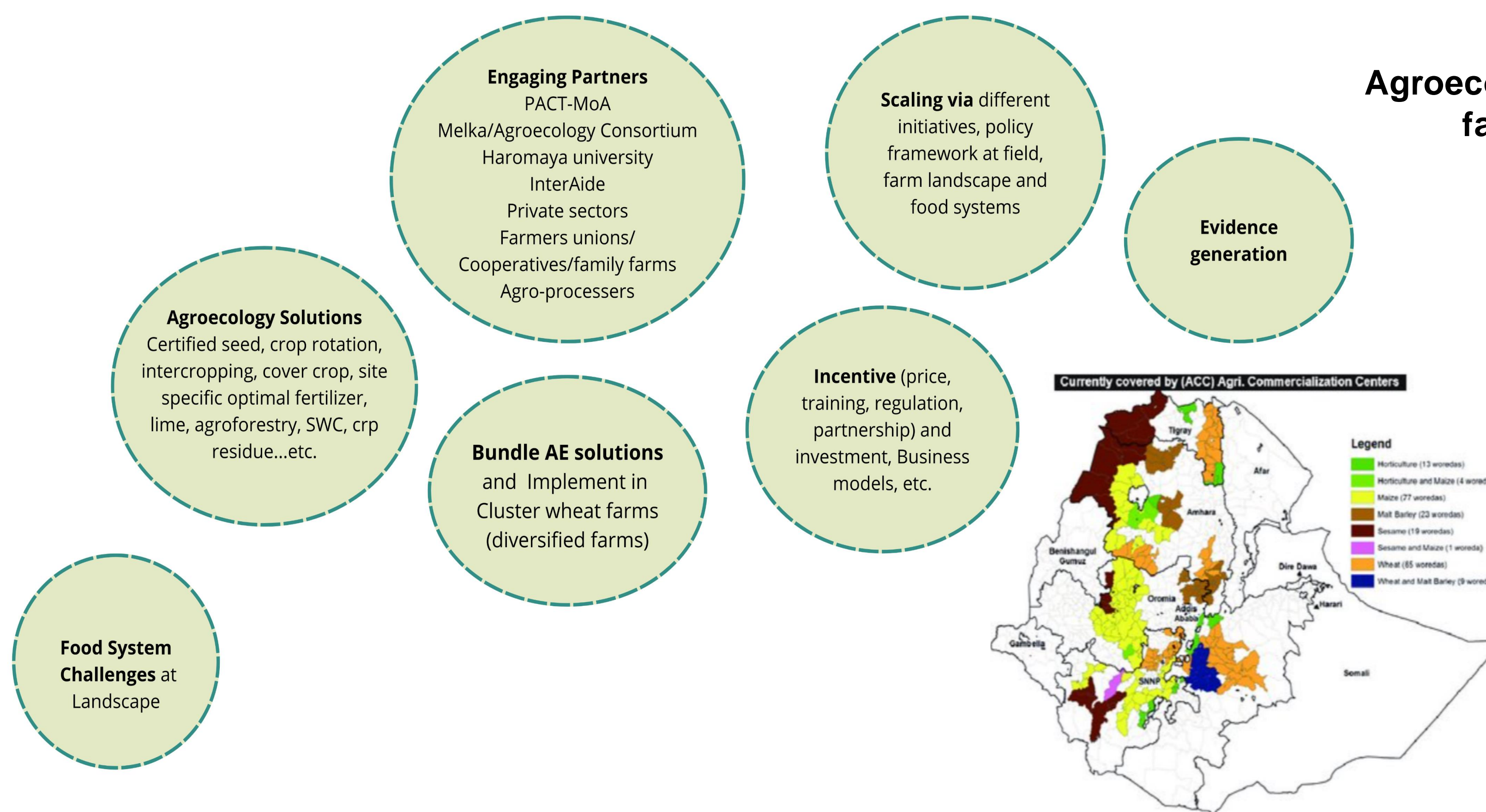
All actors engage to **co-design, testing of context-specific agroecological innovations, and scaling-out** to support food system transition in Agroecological Living Landscapes (multiple landscapes)



Core objective: Support agroecological food system transitions at scale using a set of holistic AE innovations

- 10 countries: 6 in Africa, 3 in Asia, 1 in the Americas
- Establishment of an international network of 'Agroecological Living Landscapes' (ALLs)
- Enable private sector incentives and investments integration
- Scale through farmer cooperatives and organizations
- Partnership of 8 CGIAR entities, CIFOR-ICRAF, CIRAD, National Partners, Agroecology TPP, and Agroecology Coalition

Agroecology living landscape for diversified wheat-faba beans crop rotation and bundle advisory services in Doyogena, Ethiopia



Lessons for best-fit innovations and impact at scale

Challenges and barriers for stakeholders

- Wheat clusters transitioning to monoculture
- Continuous industrial agricultural model subsidies
- Limited organic input supply chains
- Weak market linkages and inadequate access to credit
- Requires social and behavioral change

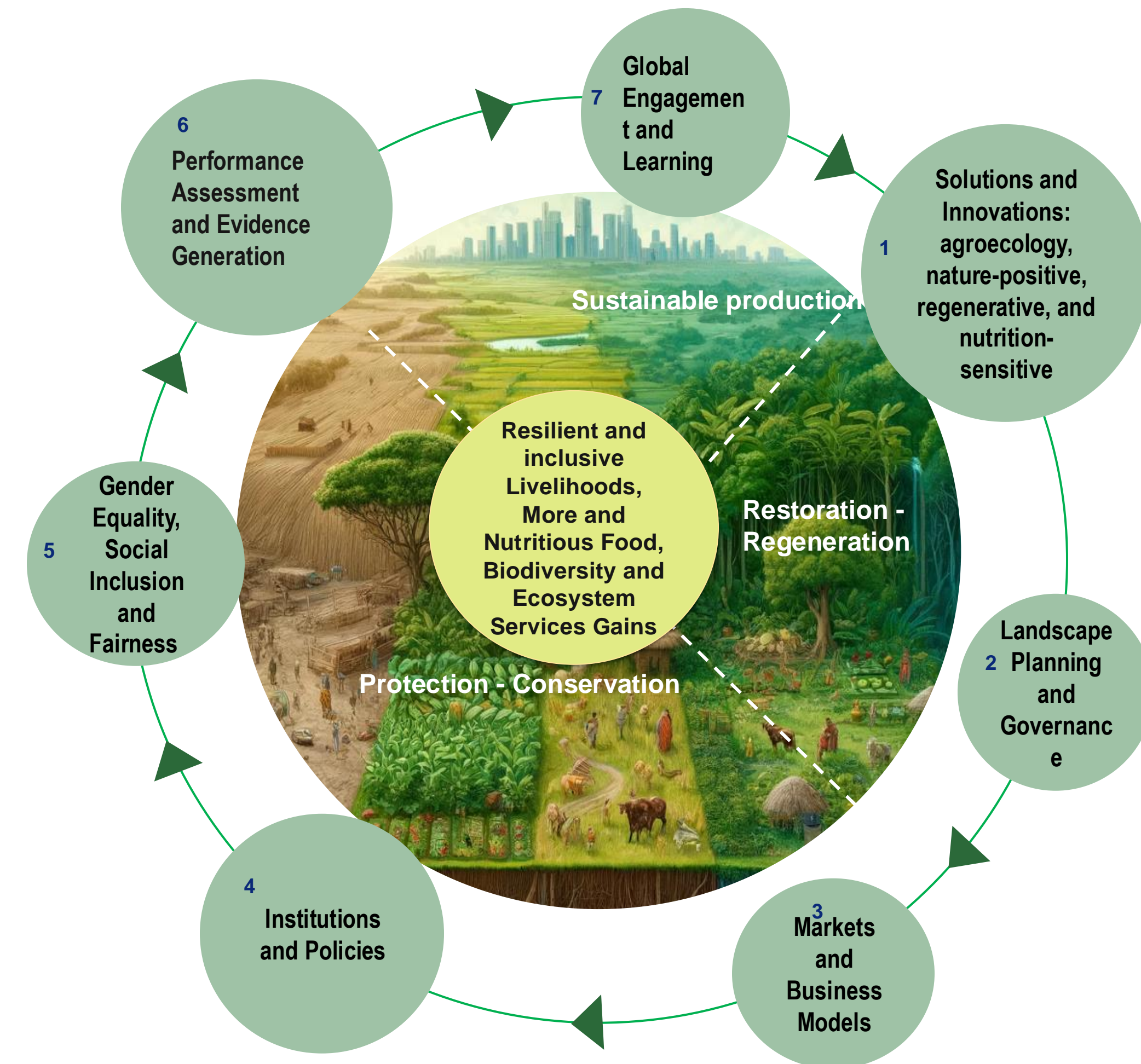
Drivers of uptake for stakeholders

- Co-design of innovations bundles with all stakeholder (farmers, cooperatives, research, etc.)
- Foster partnership by bringing stakeholder together to create an innovation ecosystem
- Provide and sustain incentive mechanisms over a period and leverage investments for cooperation

- Start with the problem via bottom-up and transdisciplinary co-design research process
- Best-fit is site and context specific and is a combination of farm/landscape level, institutional, market, policy and finance dimensions
- Reached **75,000** smallholder farmers with climate and site-specific optimal fertilizer use advisory

Recommendations for the formulation of new cooperation programs on R&I

- 1. Vision-based, step-wise back-casting methods (e.g. V2A)** to generate a joint roadmap for changes in behaviours and holistic innovations required across different scales, actors and parts of the food system.
- 2. Transformative AE research, incentives and investments** that requires multi-actor, multi-scalar, multi-dimensional (economic, social, institutional, policy etc.) actions to enable all aspects of the innovation ecosystem.
- 3. Align bottom-up and top-down through participatory action research**, holistic metrics from transdisciplinary research processes to co-design innovations with adaptive feedback loops and performance assessment.
- 4. Impact at scale by leveraging multi-actor partnership with local stakeholders (e.g. extension system)**, strengthen local capacities and skills that give visibility and opportunity for "organic scaling".
- 5. Leverage market linkages (inclusive business models)**, enable policies and incentivise private sector participation through existing and new partnerships and knowledge/capacity sharing.



Multifunctional landscapes Science Program



Thank you!

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