Title	**Supporting materials for the methodology for optimal combinations of agroecological practices (AEPs)**
Creator	CIRAD
Subject	Co-creation materials to develop a methodology to select AEPs
Description	The assessment framework is developed by first reviewing existing agroecological sustainability assessment tools. Indicators are collected based on literature review. Then they are synthesized into the holistic agroecology assessment framework. New indicators are developed during the project and are also used to address any context-specific data needs or cover gaps of the existing tools.
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Contributor(s)	IITA, ETHz, UHOH, NIBIO, RIK, UCB, IRAD, ISABU, RAB
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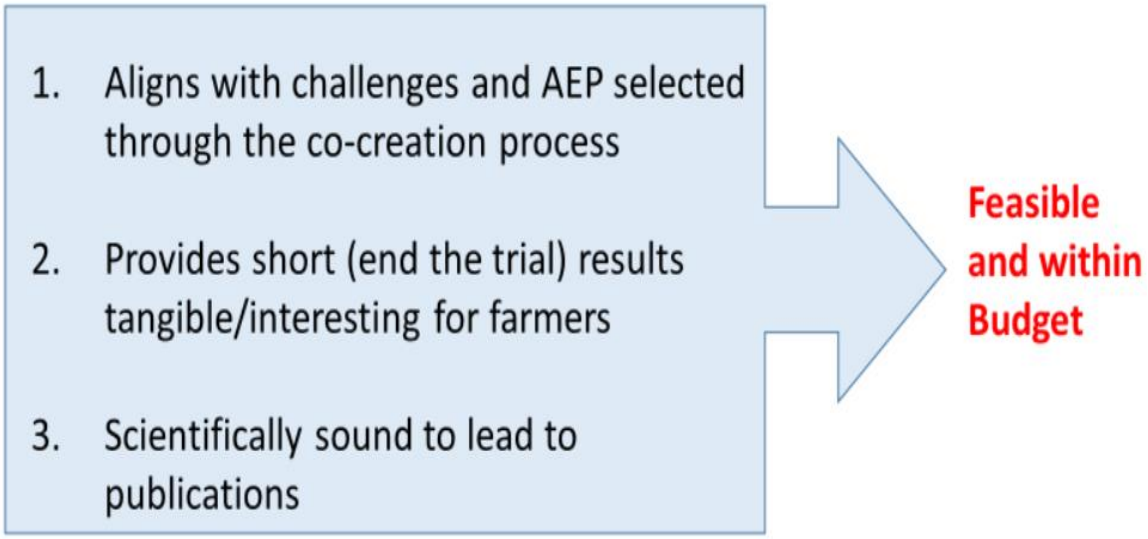
Experimental phase for <<Name>> Living Lab

General Introduction

- Description of the role experimental phase within the ALL
- Description of the steps taken so far and main outcomes of activities that affect the design of the experimental phase
- Main challenges selected with link to reports from workshop 1
- AEPs prioritized for field evaluation with link to reports from workshop 2
- Link
- Description of the process and rationale for the design of the experimental phase. This is important for communication and transparency among stakeholders. For example:

After the workshops in which the most relevant AEPs to evaluate in the field were selected by stakeholders, researchers had a series of meetings and a field visit to define the experimental phase for the first cycle of co-creation. The main considerations for the selection of AEP to evaluate, and on the experimental design were:



In the meetings, researchers had after the co-creation process was concluded alternative trials were discussed. It was decided that for the first cycle of the experimental phase, we would concentrate resources on NNN crop. We designed a trial that can ensure results that can align with the 3 aspects mentioned above while building the ALL as a sustainable platform. In the following cycles, with

lessons learned from the first experiment, we can plan more complex designs and more crops of interest, such as NNN and NNN.

Experiment Design

Name of the experiment

Target challenges:

-

Agroecological practices proposed:

-

Rationale

Rational behind the AEP selected. Why are they important and why should we use the limited resources of the ALL to test them in the field.

Expected outcomes for stakeholders

It is very important that the expected outcomes for each stakeholder in the ALL are realistic and clear. They should match with the amount of efforts and resources that each stakeholder brings into the ALL and with focus on the sustainability of the platform. In the initial year(s), focus should be on farmers are their commitment and engagement on the activities are key. Outcomes from the first cycle of co-cereation should bring something tangible, useful for the farmers. That could be a possible solution to their challenges (e.g., a biopesticide for a key pest that can be produced locally from locally available and abundant plants), a response to an important question (e.g., is the foliar fertilizer that most farmers are using profitable?) or to show the value that the platform has for them in the longer term (results from the trial do not bring immediate responses or solutions but proof the value of the work done and create engagement from farmers), or others.

Stakeholder group	Expected outcome in short-term (end of cycle 1)	Expected outcome in mid-term (end CANALLS; end of 2026)	Expected outcome in long-term (>3 years; beyond CANALLS)
Farmers			
Researchers			

NGOs			
Government			
Private sector			

Specific Objectives and Hypotheses

Objective 1:

Hypothesis 1.1:

Hypothesis 1.2:

Objective 2:

Hypothesis 2.1.

Hypothesis 2.2.

Objective 3:

Hypothesis 3.1.

Hypothesis 3.2.

Material and Methods

Experimental design and treatments

- Design:
- Factors and levels for each factor
- Farmers' number:
- Plot and Block dimensions (figure)

Sample size and site selection criteria

-

Data collection

Measurement	Description	Who	For Objective #

Protocols for the measurements:

-

Protocols for the application of treatments

-

Other information relevant to budget calculations

-

Training, meetings, field visits, and workshops

Key aspects of the experimental phase are the training for the farmers participating of the trial, the field visits and meetings to discuss and disseminate the results and the activities of the ALL and the final workshop that is the step N 4 on the co-creation process.

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Timeline of implementation

Data analysis

Hypothèses	Variables	Proposed analysis

Roles and responsibilities for partners and stakeholders

Task/Activity	Lead	Support

Consent forms for farmers participating of the trial

Budget outline

- Cost of the trial implementation
- Proposed financing approach

References

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