



Food and Agriculture Organization  
of the United Nations



WOCAT



# Assessing Resilience and Behavioural Drivers with SHARP+

14th April, 2025

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E-LEARNING SERIES

Sustainable Forest Management Impact Program on  
DRYLAND SUSTAINABLE LANDSCAPES

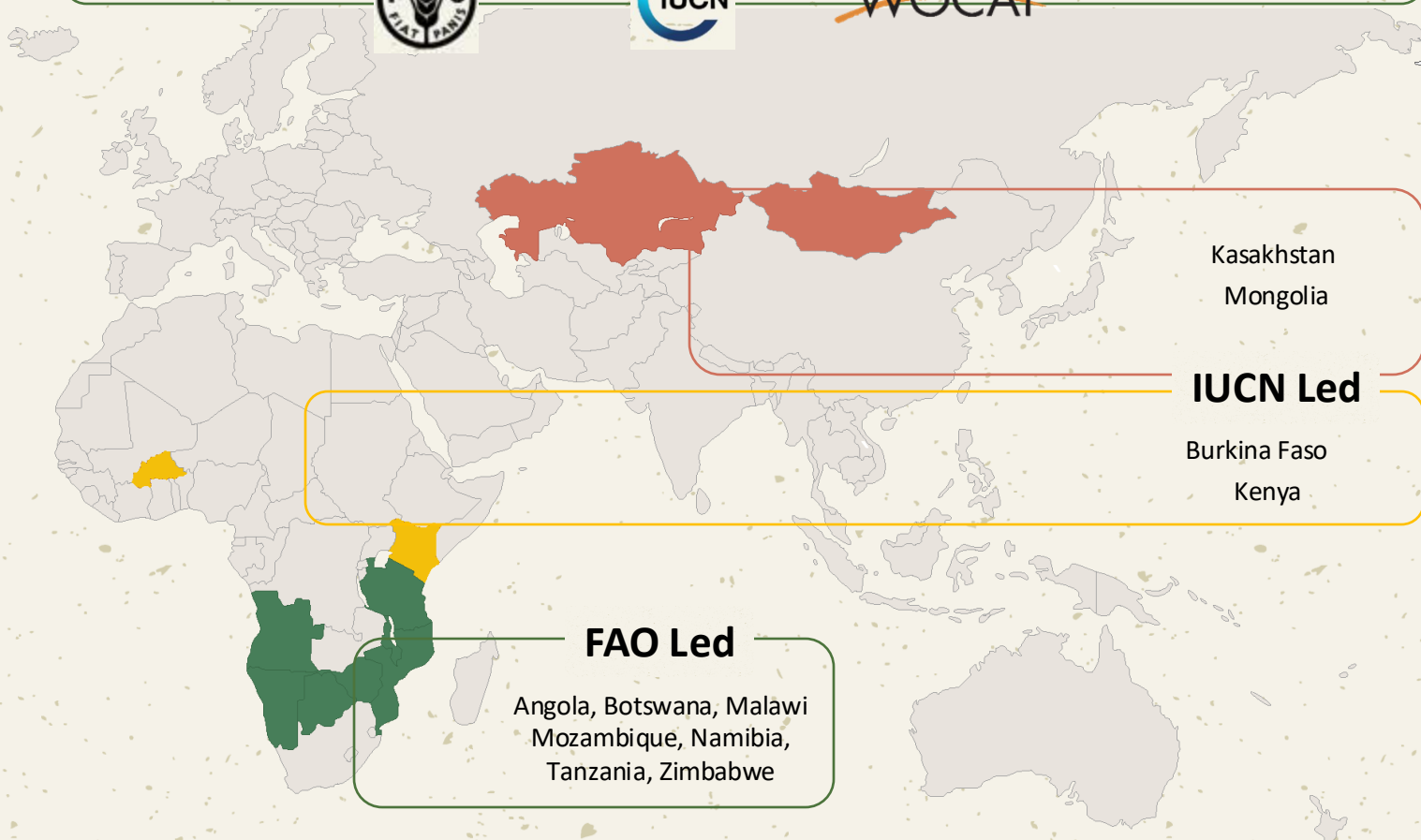
# The DSL-IP

Evidence-based Data for M&E and Informed Decision Making

## Global Coordination overseeing 11 Child Projects



WOCAT



Kazakhstan  
Mongolia

**IUCN Led**

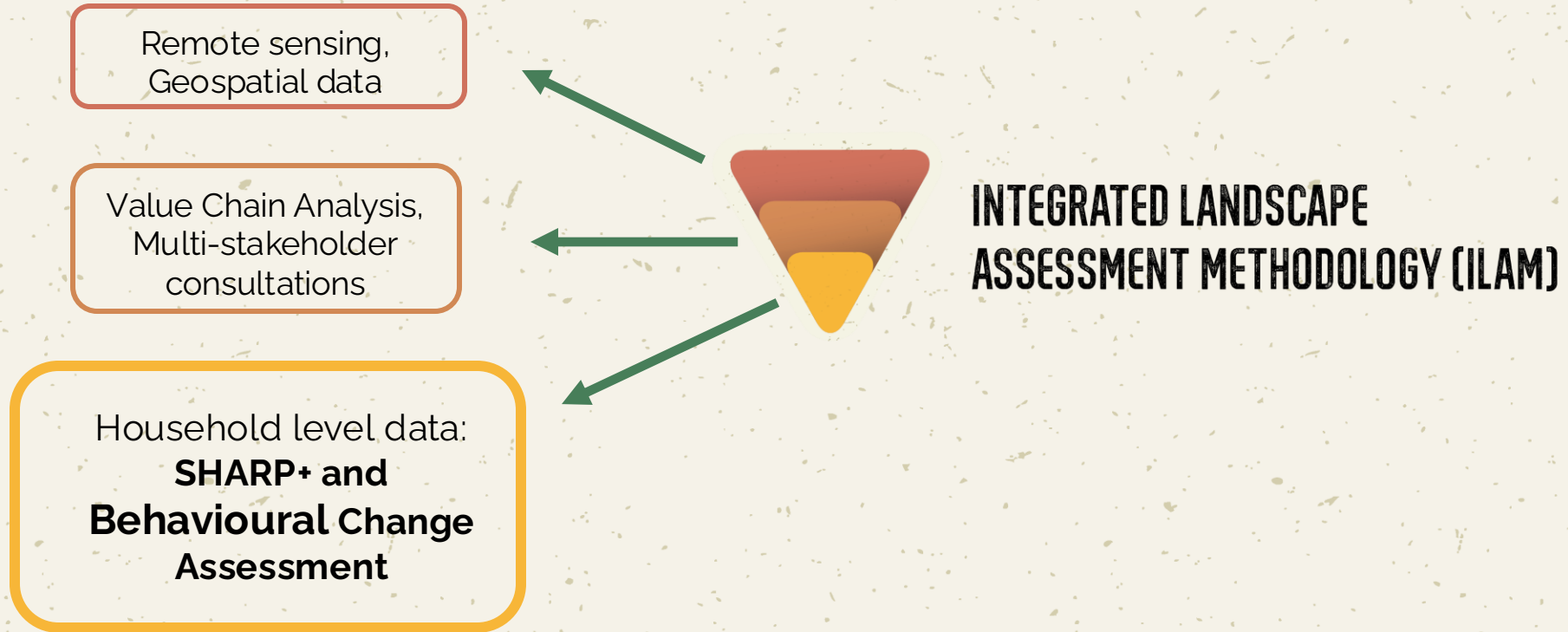
Burkina Faso  
Kenya

**FAO Led**

Angola, Botswana, Malawi  
Mozambique, Namibia,  
Tanzania, Zimbabwe

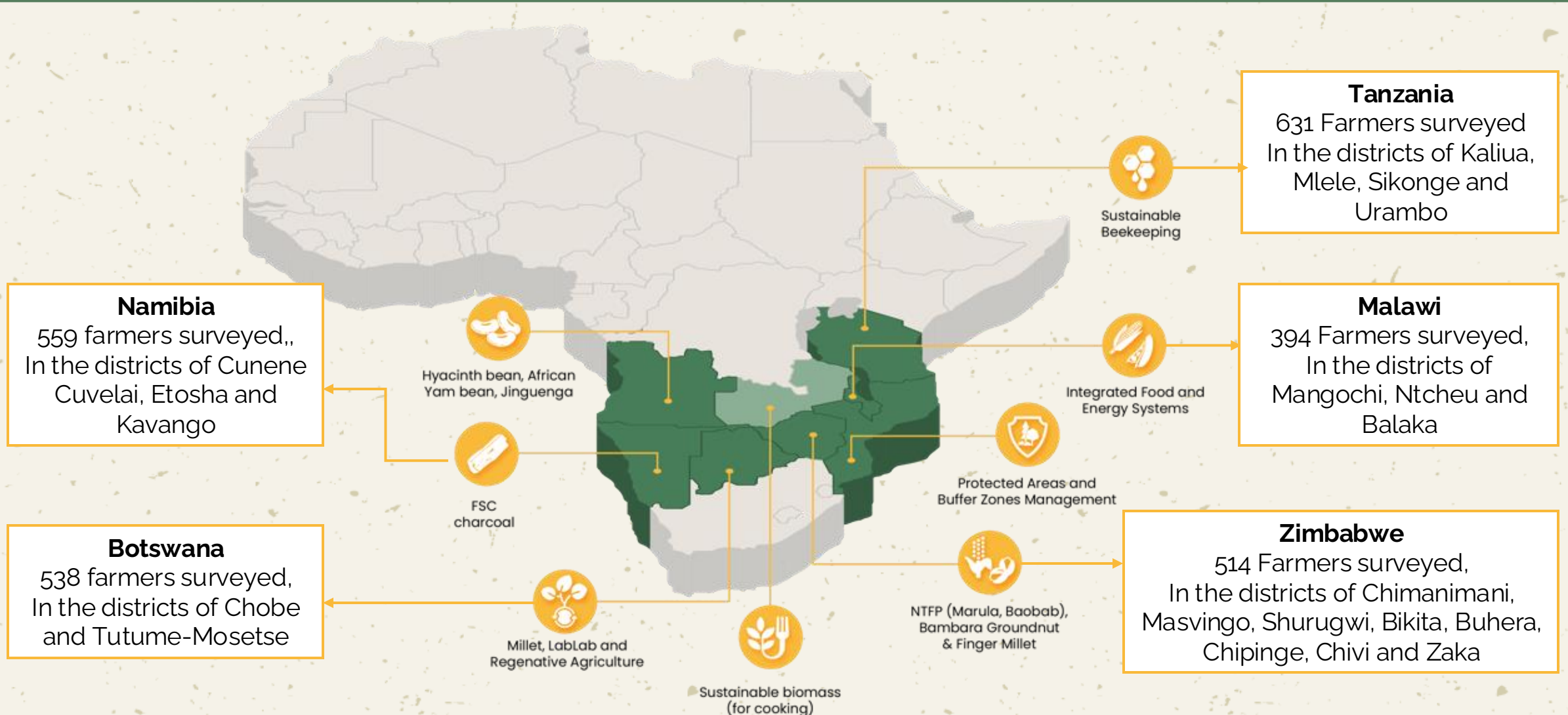
# The DSL-IP

Evidence-based Data for M&E and Informed Decision Making



# Where was the too implemented?

Countries of implementations, scope and core themes



# Integrated assessment

Resilience with SHARP+ and Behavioural Change



## The "What"

Assesses the current practices and state of resilience/vulnerability among farmers.

## The "Why"

Explores the underlying reasons behind farmers' adoption or non-adoption of certain management practices.

Behaviour Change Assessment in  
Agroecological Transitions

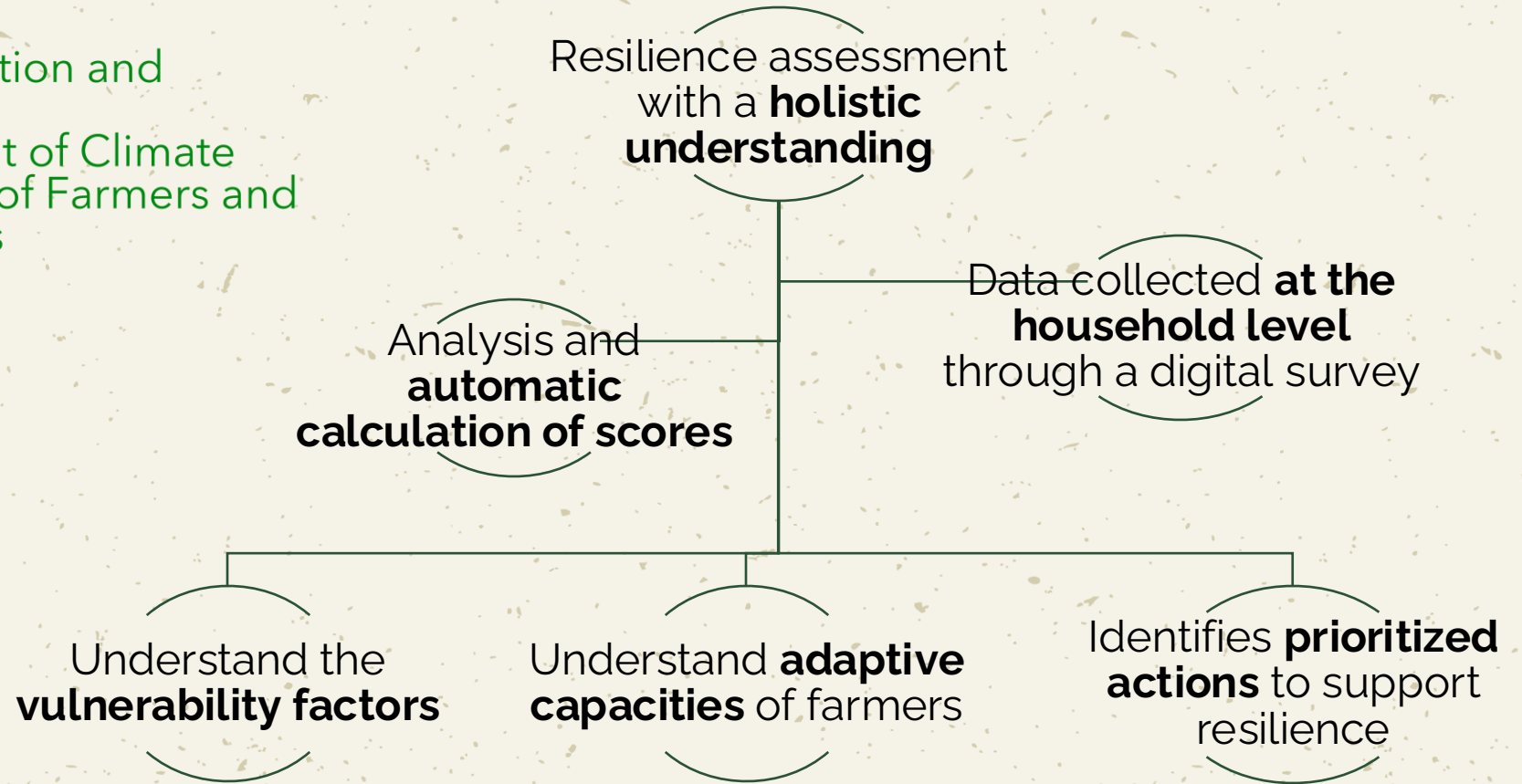


# What is SHARP+?

## Overview of the tool



Self-evaluation and  
**H**olistic  
**A**ssessment of Climate  
**R**esilience of Farmers and  
**P**astoralists



# How does SHARP+ work?

Modules assessed and scoring system

4 domains

30 modules



## Social

- HH characteristics
- Agri-production activities
- Land access
- Access to information
- Community cooperation
- Group membership
- Nutrition
- Decision-making (Household)
- Decision-making (Farm management)



## Environmental

- Crop production
- Weed species and management
- Water access and management
- Water quality
- Soil quality and land degradation
- Land management practices
- Trees
- Shocks



## Economical

- Farm inputs
- Energy sources
- Access to markets
- Income, expenditures and savings
- Major productive assets
- Access to financial services



## Governance

- Government policies and programmes on climate change and sustainable agriculture

# How does SHARP+ work?

## Modules assessed and scoring system



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For each module

**Technical component (/10)**

Factual information, external/ technical indication of resilience

+

**Self-assessed adequacy component (/10)**

Perceived satisfaction with a given aspect of the system or household

=

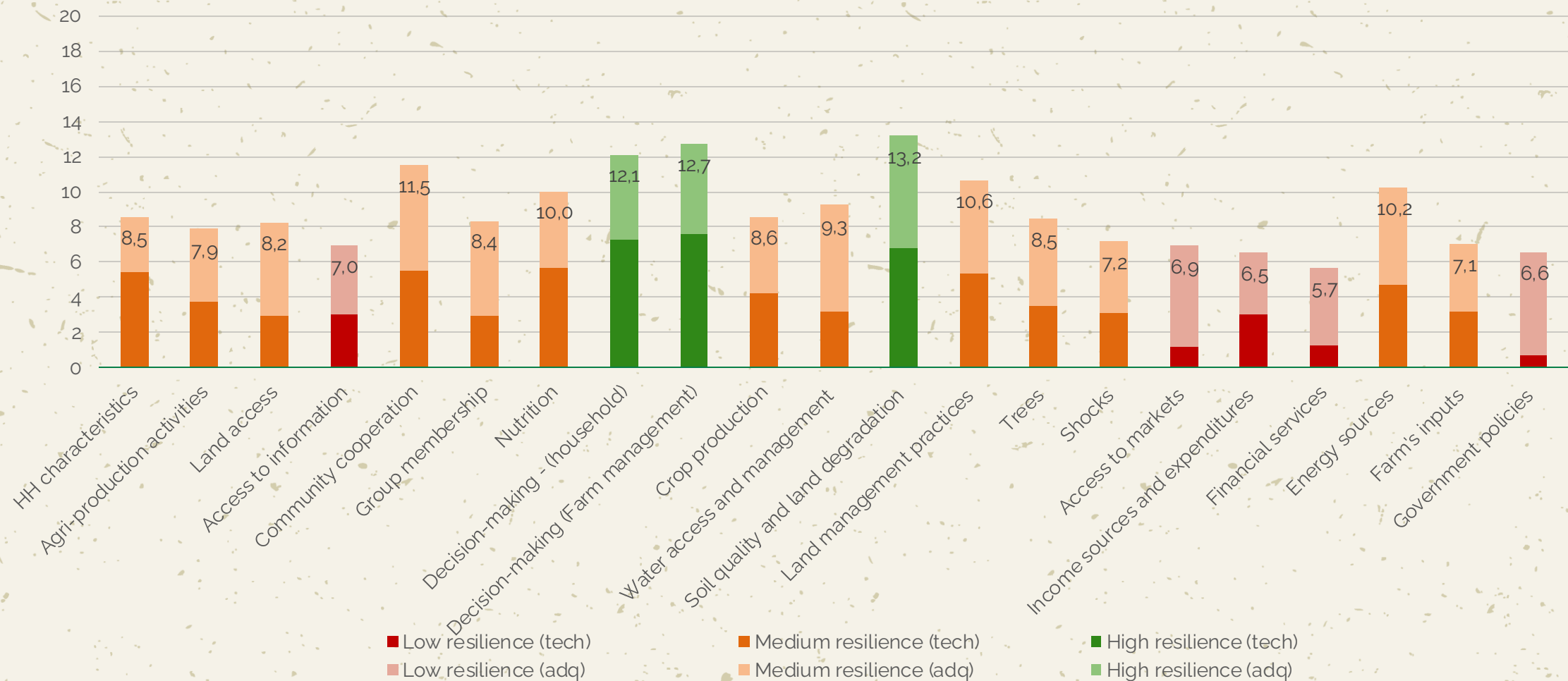
**Compound resilience score (/20)**

Low resilience level	0-7 points
Medium resilience level	7.01-12 points
High resilience level	12.01-20 points



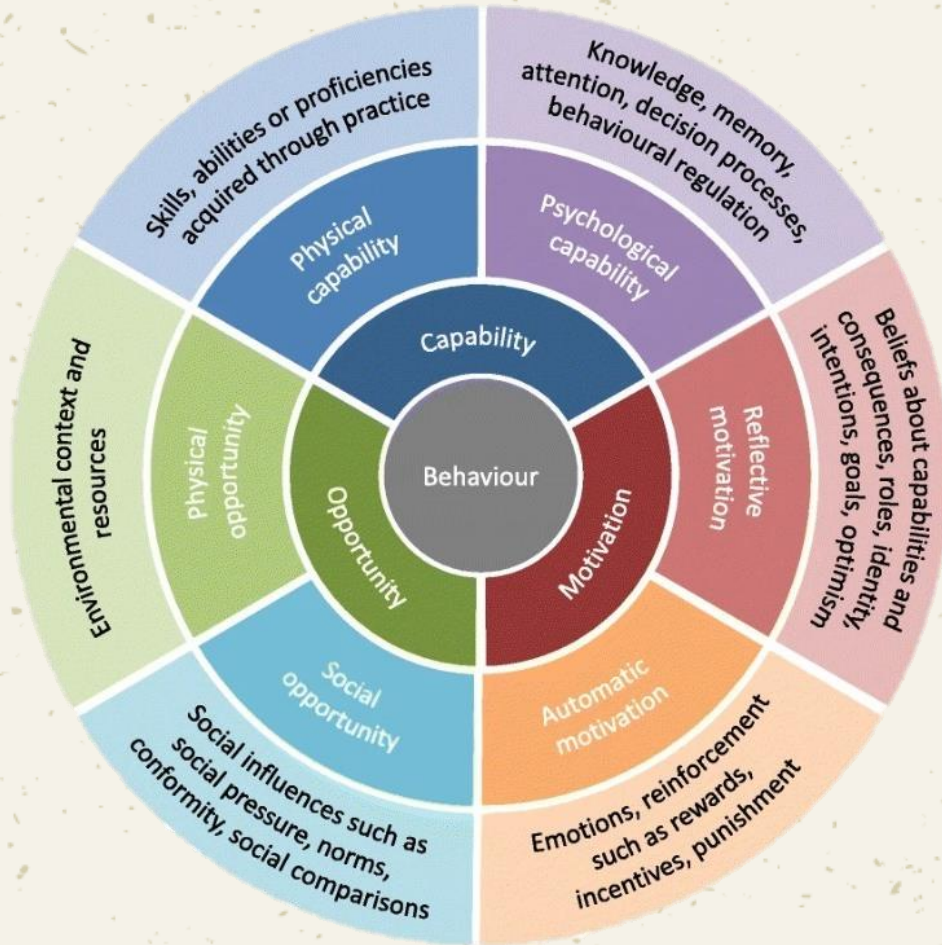
# Example of assessment results

## Resilience scores per module



# Assessing Barriers and Levers Behavioural Change

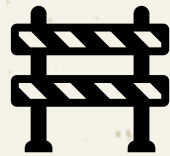
## to increase farm level resilience



Information on application of desired behaviour



Main incentives for practicing desired behaviour



Main barriers for practicing the desired behaviour



Identification of capacity needs and knowledge gaps

## Summary of the module

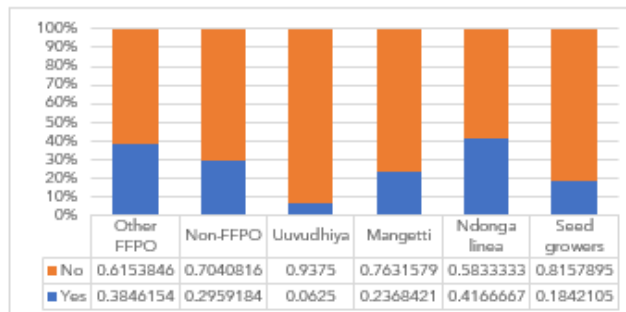


This dashboard module presents data from the behavioural change assessment related to the cultivation of millet, a drought resilient neglected and underutilized crop. The visualizations explore key behavioural drivers, barriers, and enabling factors influencing adoption, comparing respondents who have adopted the practice ('doers') with those who have not ('non-doers'). The information on this sheet is disaggregated by producer organizations. The aim is to support the identification of strategic entry points for encouraging uptake and informing tailored interventions.

## Module's descriptive analysis

### millet in the last 12 months

%	Yes	No
Other FFPO	38.5%	61.5%
Non-FFPO	29.6%	70.4%
Uuvudhiya	6.3%	93.8%
Mangetti	23.7%	76.3%
Ndonga linea	41.7%	58.3%
Seed growers	18.4%	81.6%
Grand Total	27.7%	72.3%

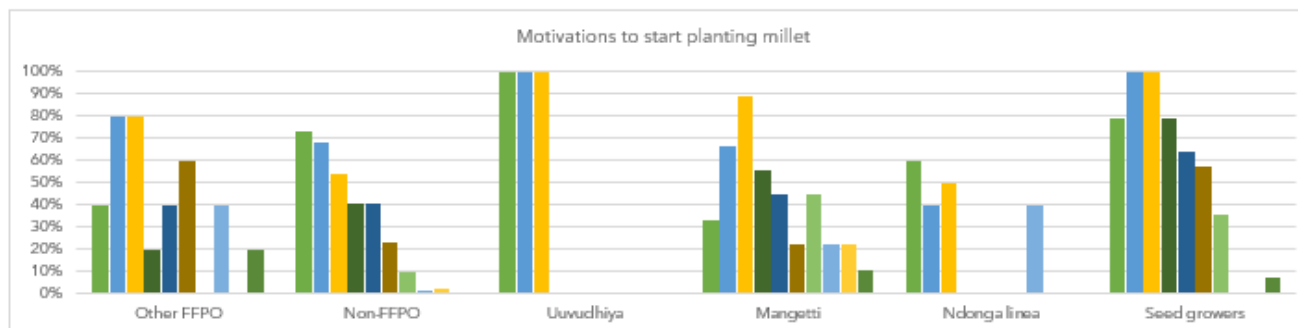


### Cultivation of Millet

#	Yes	No
Other FFPO	5	8
Non-FFPO	116	276
Uuvudhiya	1	15
Mangetti	9	29
Ndonga linea	10	14
Seed growers	14	62
Grand Total	155	404

## Doers - millet cultivation (n=155)

Motivations to start planting millet	Tradition	HH consumption needs	Nutritional value	Suitability of climate/soil	Diversification	Seed availability	Extension advice	Market demand	Peer motivation	Financial incentives/subsidies
Other FFPO	40%	80%	80%	20%	40%	60%	0%	40%	0%	20%
Non-FFPO	73%	68%	54%	41%	41%	23%	9%	2%	3%	0%
Uuvudhiya	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%
Mangetti	33%	67%	89%	56%	44%	22%	44%	22%	22%	11%
Ndonga linea	60%	40%	50%	0%	0%	0%	0%	40%	0%	0%
Seed growers	79%	100%	100%	79%	64%	57%	36%	0%	0%	7%
Grand Total	70%	70%	61%	41%	40%	26%	13%	6%	3%	2%



# Example from Assessments in Namibia

# Limitations and lessons learned

By combining Resilience assessment and Behavioural Change Analysis

## Achievements

- **Reduced burden of repeated interviews**; less fatigue and frustration among respondents
- Rich insights into **what** happens in agroecosystems, **what** lower its resilience and **why** farmers behave a certain way
- Possibility to analyze findings in relation to each other through statistical tests

## Limitations

- **Long questionnaires**; enumerator fatigue and lower data quality
- For very large samples, substantial workload for analyzing open-ended questions related to behavior change

Behavior change methodology is only applicable if target behaviors are clearly defined in advance

Selection of the target behaviour needs to be **participatory and evidence-based to be aligned with farmers needs** (not forcing behaviour that does not actually align with farmers needs onto them)

# Implementation step of the assessment

From design to impact



## Step 1: Identification of desired behaviour

- Behaviours are defined based on project objectives, ensuring alignment with farmer needs and overarching goals such as LDN and livelihood improvement.
- Informed by findings from pre-assessments.



## Step 2: Tailoring the questionnaire

- Integration of behavioural indicators into SHARP+
- Adaptation to the local socio-ecological context and project focus and refinement based on review by national PMU



## Step 3: Enumerator training

- Capacity building on SHARP+ behavioural change approach
- Training on facilitation and data collection methods to limit bias



## Step 4: Data collection

- Implementation by national enumerators
- Household survey conducted across project sites



## Step 5: Data analysis and report writing

- Analysis and identification of key patterns
- Use of report for project implementation

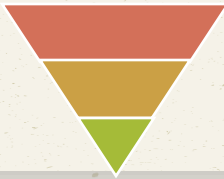


# From Insights to Action

## Applying Results in Project Implementation

Geospatial data down to household level data

CoP 1



Integrated Landscape  
Assessment Methodology (ILAM)



- Geospatial data
- Household surveys
- Focus group discussions

CoP 2



Sustainable Landscape  
Production Framework (SLPF)

Farmer Field Schools, Forest and Farm Facilities, Community Seedbanks

## Sustainable Forest Management Impact Program on DRYLAND SUSTAINABLE LANDSCAPES





# For more information



[New guidance document for practitioners](#)



[SHARP+ in brief](#)



[Factsheet Zimbabwe](#)



[Factsheet Malawi](#)