



FAD-ICARDA- PROJECT “Use of Conservation Agriculture in Crop-Livestock Systems (CLCA) in the Drylands for Enhanced Water Use Efficiency, Soil Fertility and Productivity in NEN and LAC Countries”. (CLCA II, 2018 - 2022).



Scaling Road map-Tunisia



National Partners



International Partners



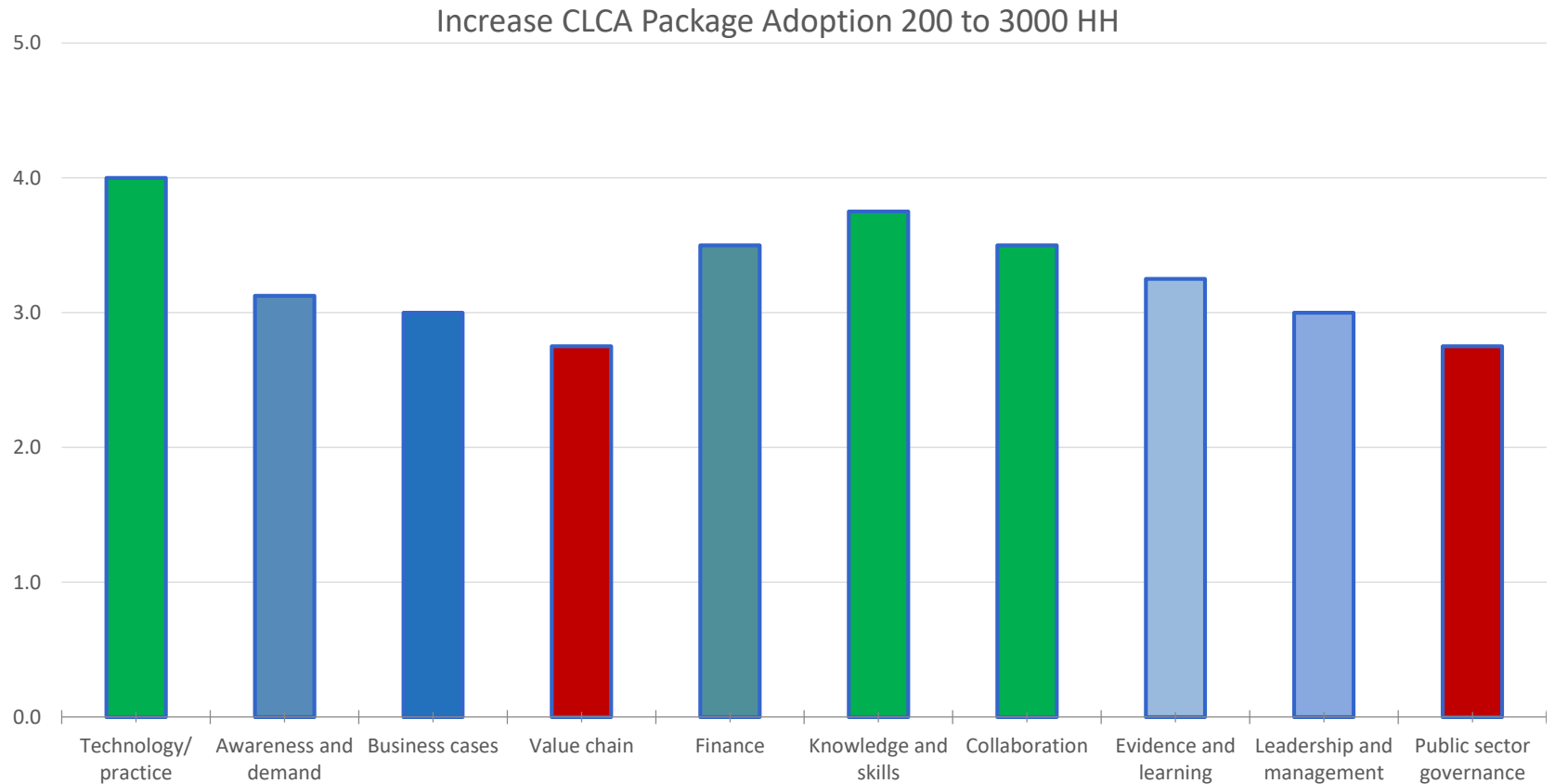
Problem definition

- Natural resources degradation, especially soil, and water scarcity exacerbated by climate variability.
- Low income from farming.
- Limited crop diversification (dominant monoculture cereals due to policy bias)
- Mode of dissemination for technologies is not adequate especially for dynamic systems (rain variability, market, seed availability)
- High feeding cost for livestock and rangeland degradation (high reliance of feed purchase of grain and hay)
- High reliance on cereal stubbles leading to significant erosion yet with limited nutrition benefits (low quality) especially during summer period.
- Forage seeds especially for legumes are not available (not available in the market)

Responsible and realistic scaling ambition

- By 2022, **OEP, INGC, INRAT, AVFA, and Private company** want to **increase adoption of CA-based** on zero tillage with **small ruminant integration** through forage legume based crop rotation and enhanced feeding systems from 200 HH **to 3000 HH** of small farmers (< 10 ha) in semi-arid region of Tunisia (cereal-sheep belt) for **increased production sustainability and HH livelihood with consideration of gender equitable benefits.**

The scaling barrel/Scoring

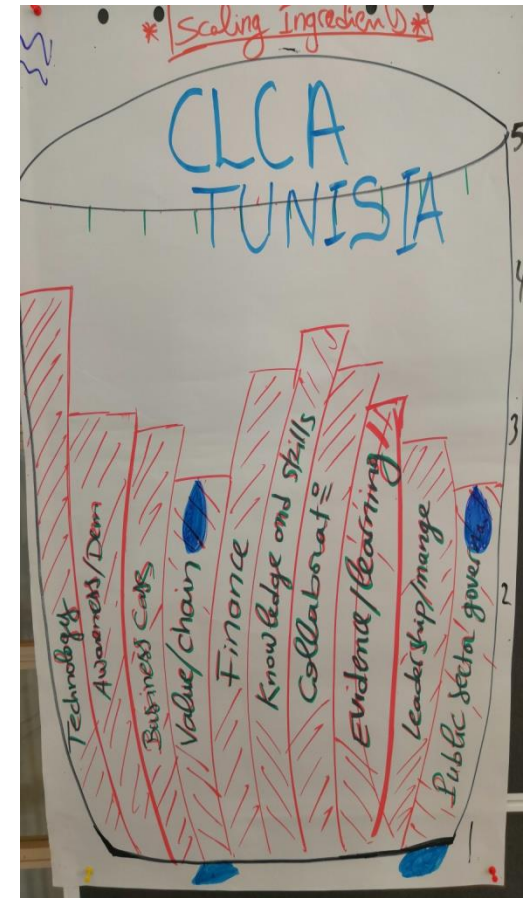


Strengths and Weaknesses

Weaknesses:

Value chain is the lowest score because there is a gap in many technologies. There was no study on value chain analysis in CLCA system. The technologies to be also ameliorated. There is seed, forage, cereal, feed system, crop diversification. As such, there is a need to study the value chain of the CLCA systems and technology analysis.

Governance is also weakest. In national strategy for agricultural production, CLCA technology is not included under the ministry of agriculture. However, some technology components of the CLCA package are included in the strategy of public institutions.



Strengths and Weaknesses

Strengths:

Technology

Provide evidence to drive policy change by raising awareness of policy makers and showcasing impact.

Consolidate and adapt CLCA packages as per the local contexts (not the same from Siliana to Beja).

Knowledge and skills

Better knowledge that identifies all stakeholders that should be involved and supported

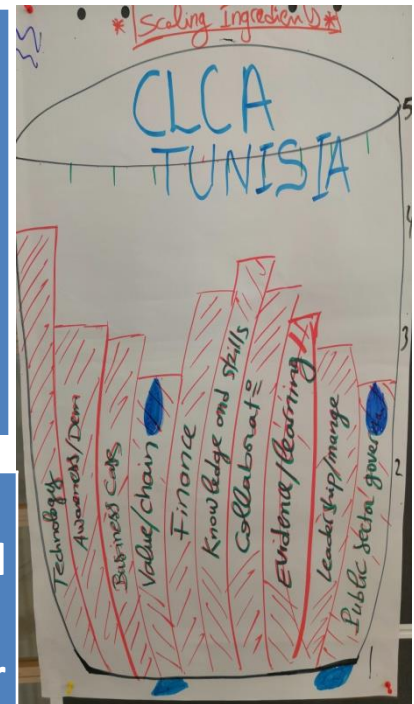
And also to provide evidence for policy change

Collaboration

Lobbying to push decision-makers to include our technological packages in the national strategy of livestock and field crop extension

Establish a national network with all stakeholder on CLCA package for improved communication that would be also connected to an international network (like ACT, African Conservation Tillage, Network of FAO on CA led by Ameer Kassam, etc.)

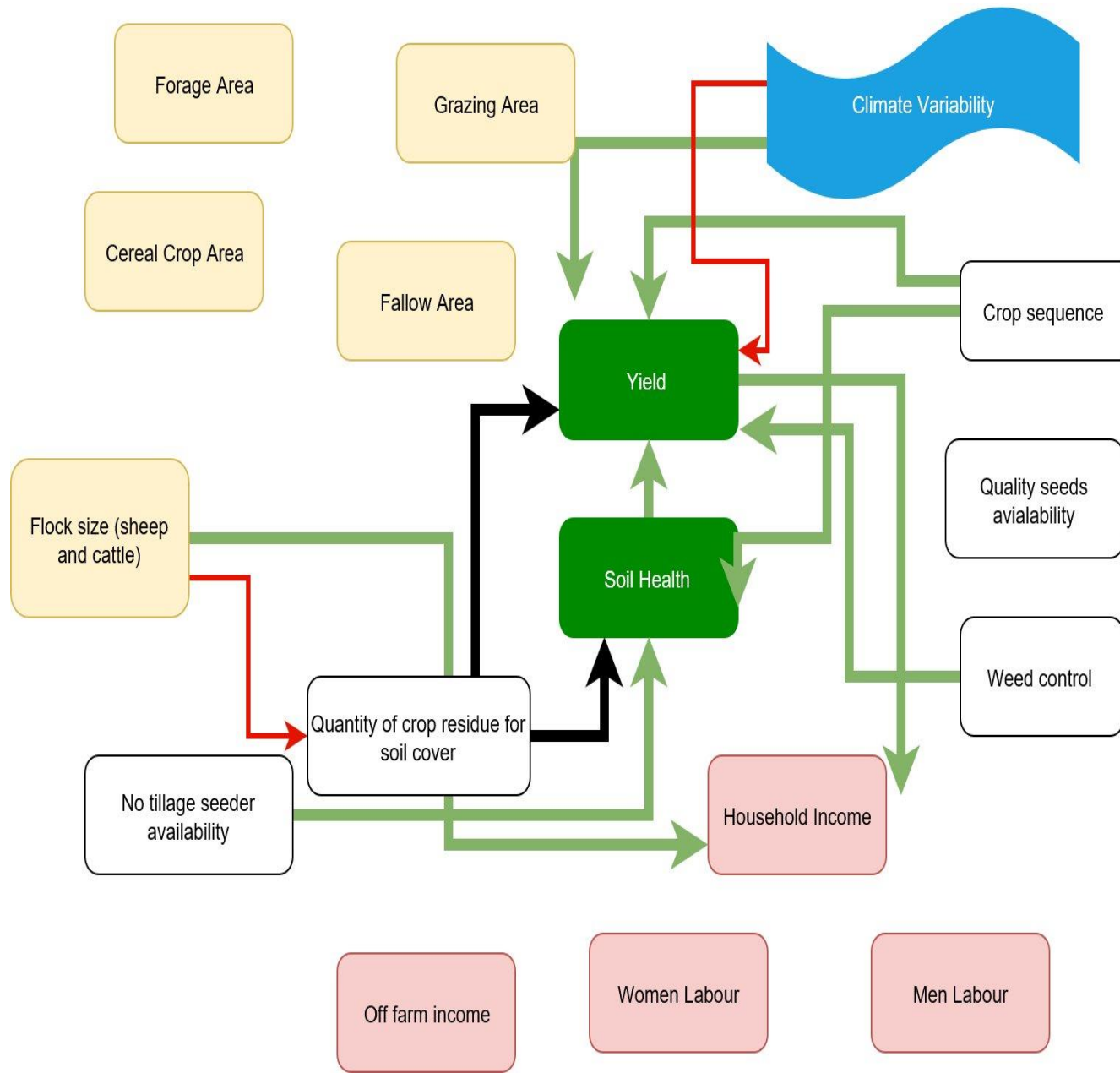
Identify champions in the farming and policy community to be ambassadors for our CLCA packages



Key Challenges

- No till seeders are a bottleneck
- Quality forage seeds production and availability (especially legumes)
- Convince policy makers to include CLCA packages in national strategy of agriculture ministry
- Limited coordination at the local level by regional institutions for CLCA dissemination
- Value chain of CLCA package is not assessed for clear action points

CLCA System in Tunisia



Action Points

- Collaborate with Algeria for the manufacturing of the seeder
- Train the local institutions (CTV, OEP, AVFA and INGC) and other potential stakeholders (NGOs, farmer groups, input provider) on CLCA package (knowledge-intensive)
- Involve OEP in seed pre-multiplication and extend the 30% subsidization of seeds to CLCA forages (vetch, forage legumes, crop mixture)
- Access and engage with committee of agriculture in parliament
- Collect sex-disaggregated data
- Identify Number of women targeted by the project and activities (based on FGD findings related to sex-disaggregated needs assessment)
- Establish a national network with all stakeholders on CLCA package for improved communication that would be also connected to an international network (like ACT, African Conservation Tillage, Network of FAO on CA led by Ameer Kassam, etc.)
- Identify champions in the farming (women and men) and policy communities to be ambassadors for out CLCA packages

Thank You For Your Attention



Many Thanks for all the team