



GCF Project Concept





Context

Caribbean Agriculture:

- 7% to 17% agriculture contribution to GDP
- 2.5 acres average farm size
- >90% crops grown in soil
- **>9% of agricultural losses** are from **hydro-meteorological hazards** (2X global average) with **drought** accounting for the highest cost of loss & damage
- 7 of the most water-stressed countries are in the Caribbean
- **<10%** of farms are **irrigated**
- **30% of degraded lands** in SIDS are in the Caribbean
- >5% of GDP/year estimated economic impact of climate change for Caribbean SIDS (>world average), with costs projected to surpass US\$ 22billion per year by 2050
- Farmers are among the poorest and most vulnerable people in the region



Problem Statement

Problem:

Over 70, 000 Caribbean farmers are highly vulnerable to the impacts of climate change (hydrometeorological hazards):

- Water insecurity
- Soil health: carbon sequestration potential
- Livelihoods
- Food & Nutrition Security

Objective(s):

To increase the resilience to climate change among the most vulnerable farmers in the Caribbean and strengthen capacity (public and private) to support communities in adapting to climate change

GREEN CLIMATE FUND

IICA

GCF READINESS AND PREPARATORY SUPPORT PROJECT

Strengthening the Foundation for a Climate Responsive Agricultural Sector in the Caribbean

Working together to accelerate climate investment and action in the agricultural sector

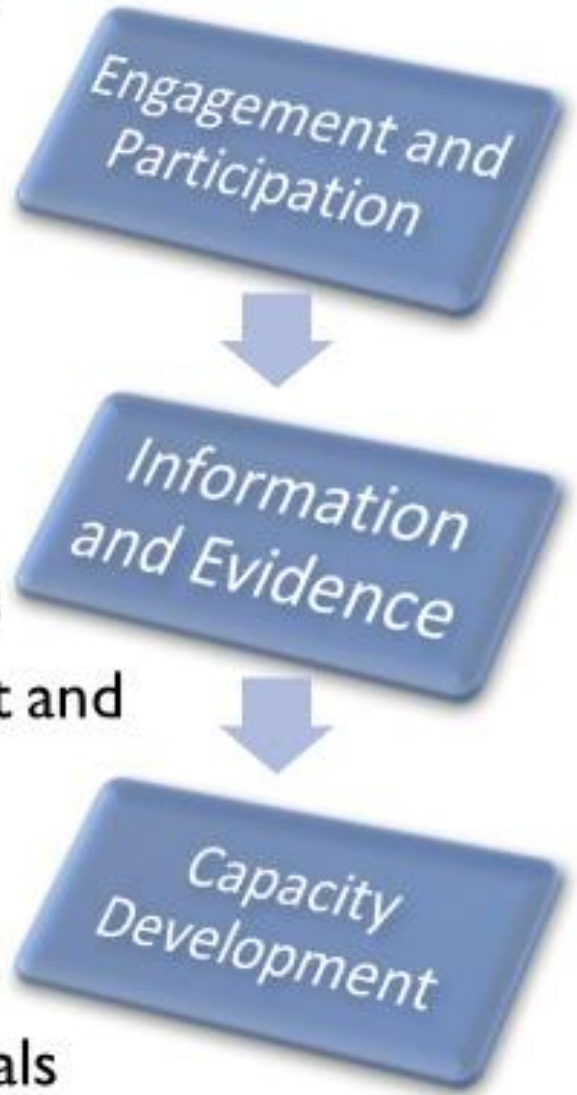
The Caribbean's First Regional GCF Readiness Project on Agriculture

\$1.2M Funding	9 Countries	2 Years	24 Products
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Lead National Designated Authority
The Ministry of Environment and Housing, The Bahamas

Delivery Partner
Inter-American Institute for Cooperation on Agriculture (IICA)

- G
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R**
- Stakeholder Engagement Mechanisms
 - Climate Action Inventories
 - NDC Analysis
 - GHG Inventories
 - Barrier Analysis
 - Trade-Off Analysis
 - Youth engagement and certification
 - Case Studies
 - Knowledge Portal
 - 2 regional proposals



Transformational Argument



Step 1

De-risking Investment in the Farming Enterprise
(Climatic & Vulnerabilities)

De-Risk

Step 2

Increasing Farm Equity, Confidence to Invest in
Agriculture and Stability of Farming Enterprise

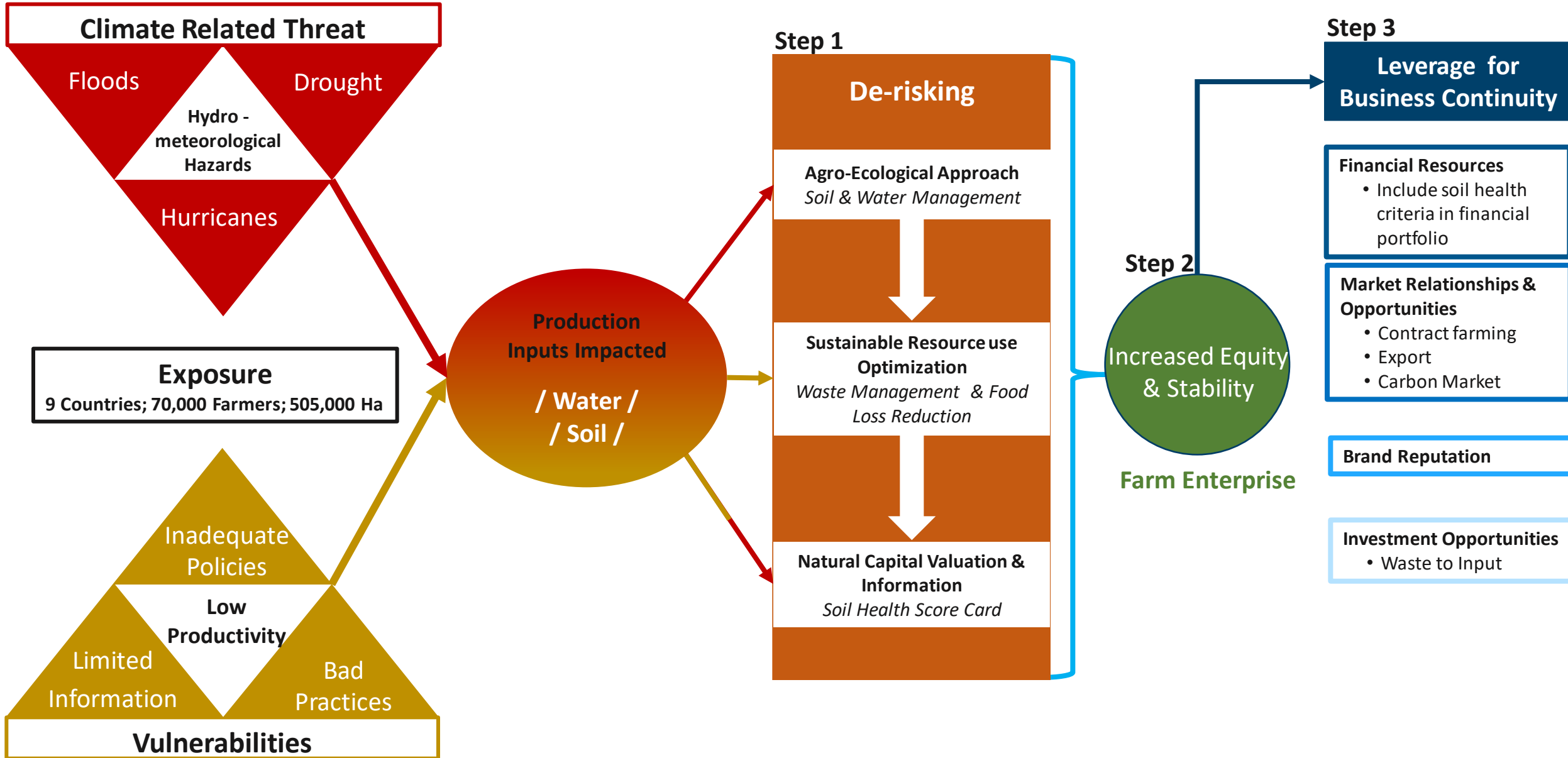


Step 3

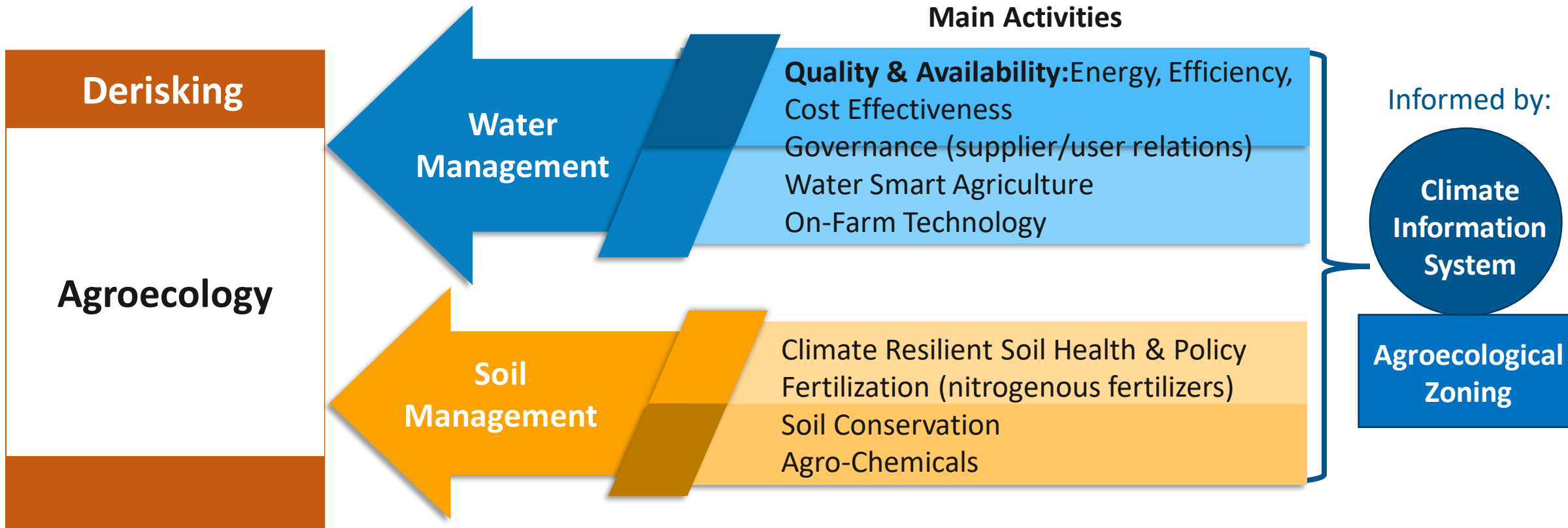
Leverage Investment Security for Business Continuity
(better financing & public and private relations)



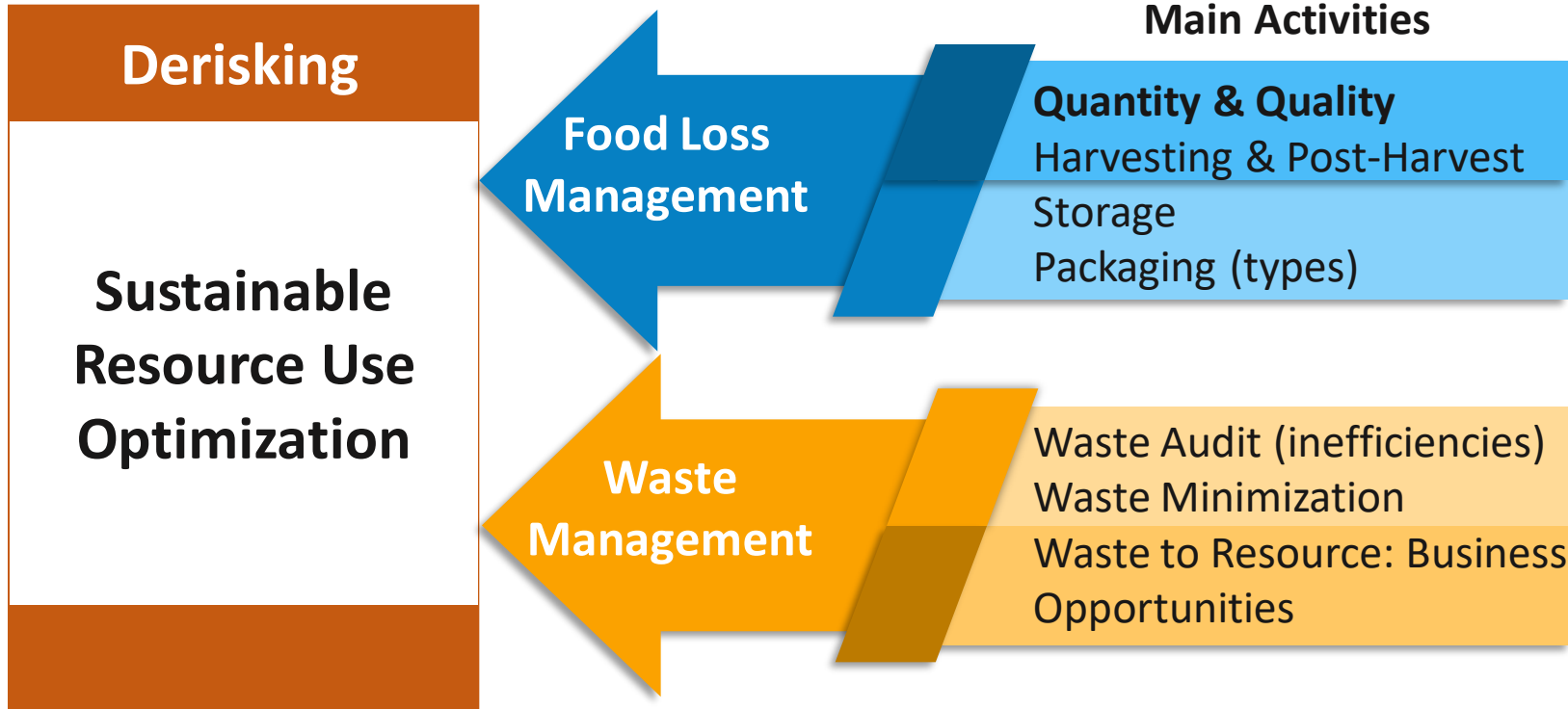
Project Concept



Agro-Ecological Approach



Sustainable Resource Use Optimization



MEAL 



Natural Capital Valuation & Information

Derisking

**Natural Capital
Valuation &
Information**

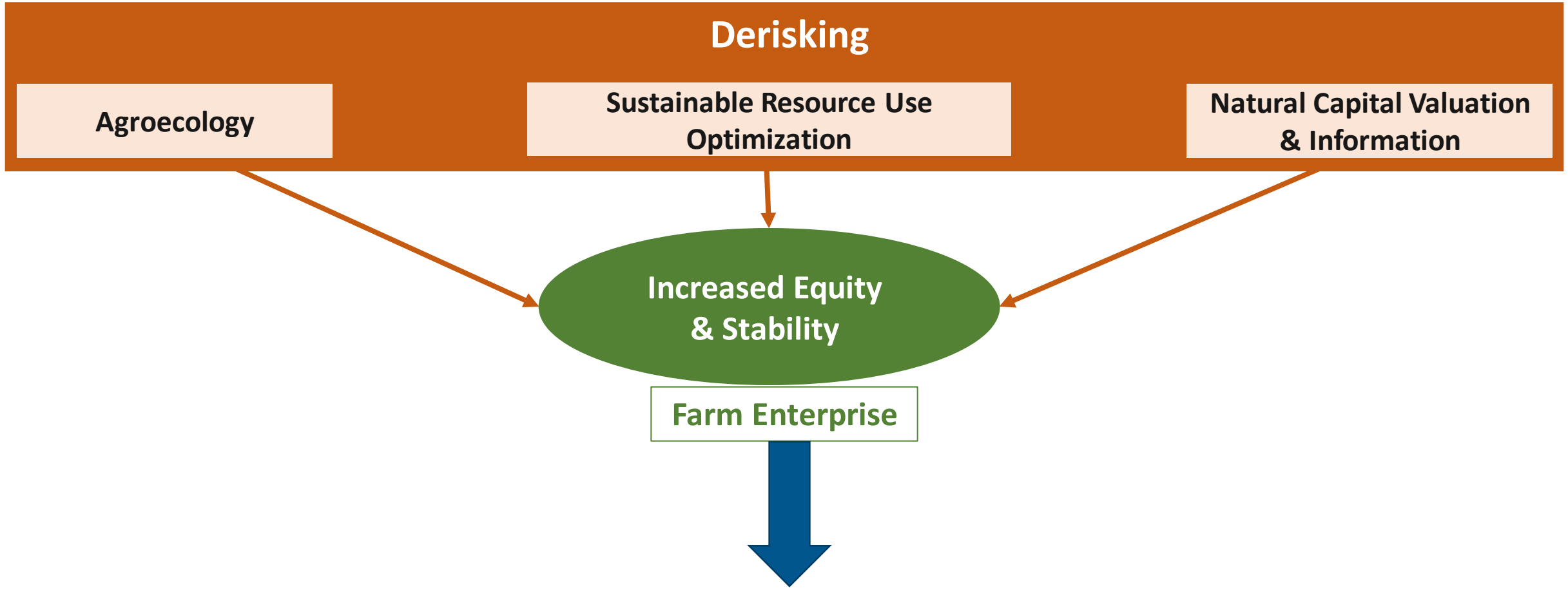
**Climate Smart Soil
Health Score Card**

Main Activities

Measure & Map Soil Health
Data Information System
Valuation System for Soil Health: Assest
Rationalization & Accounting



Increased Equity & Stability

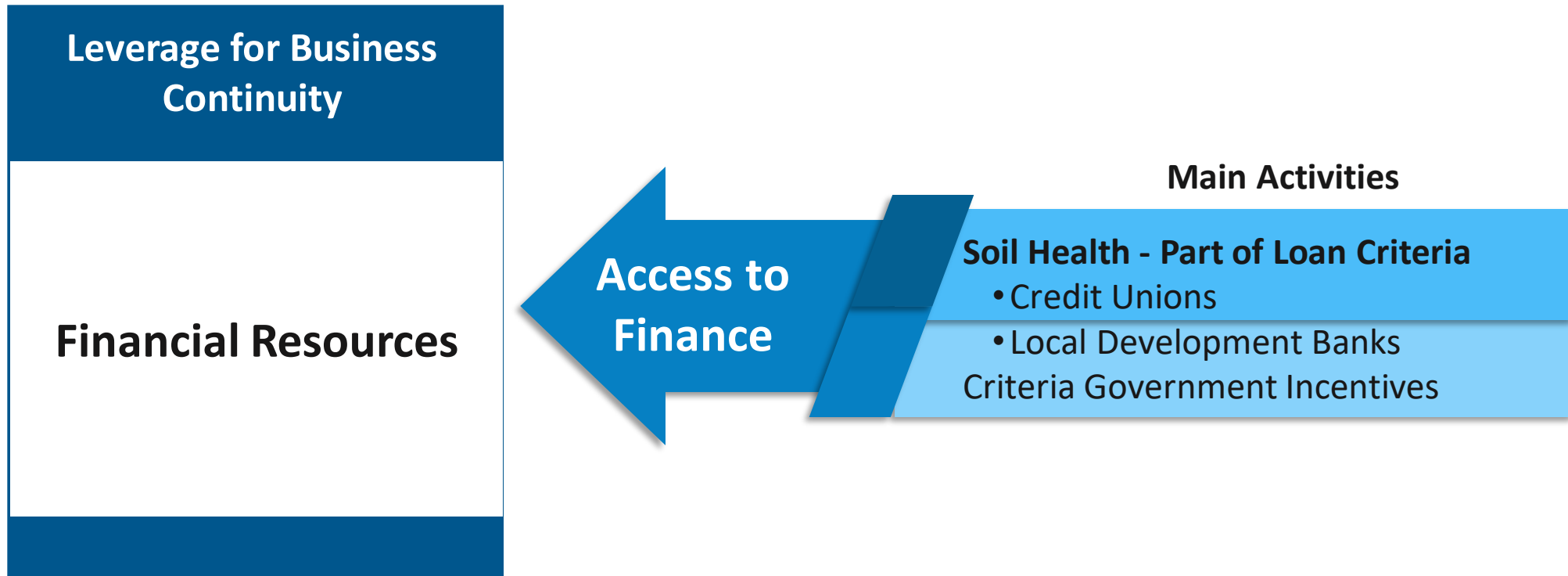


Leverage for Business Continuity

- Financial Resources**
 - Include criteria in financial portfolio
- Market Relationships & Opportunities**
 - Contract farming
 - Export
 - Carbon Marker
- Investment Opportunities**
 - Waste to Input/Resource
- Brand Reputation**

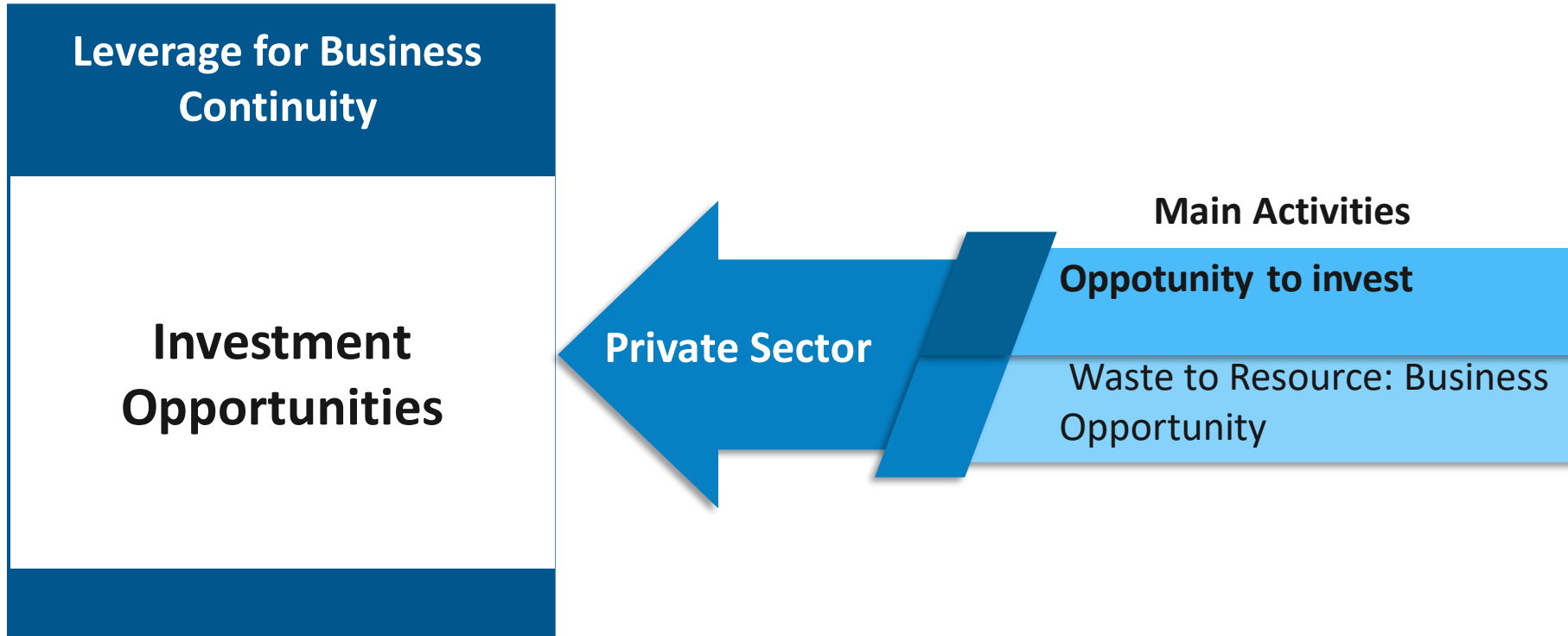


Sustainable Resource Use Optimization





Leverage for Business Continuity



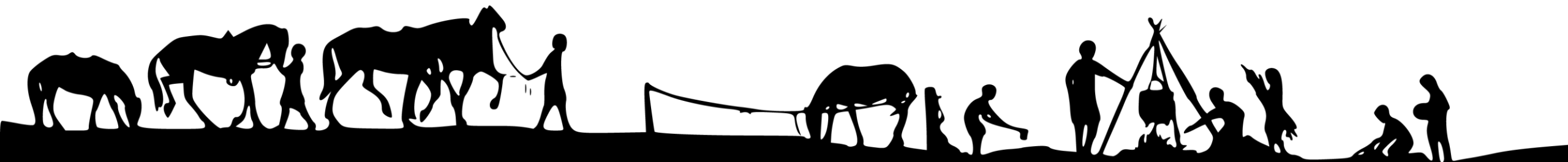
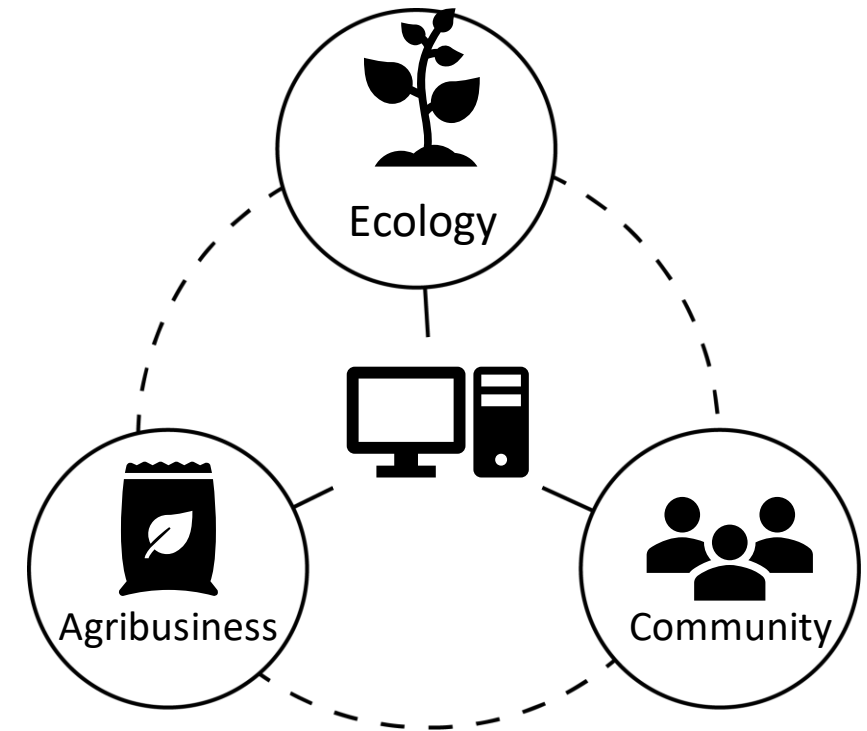


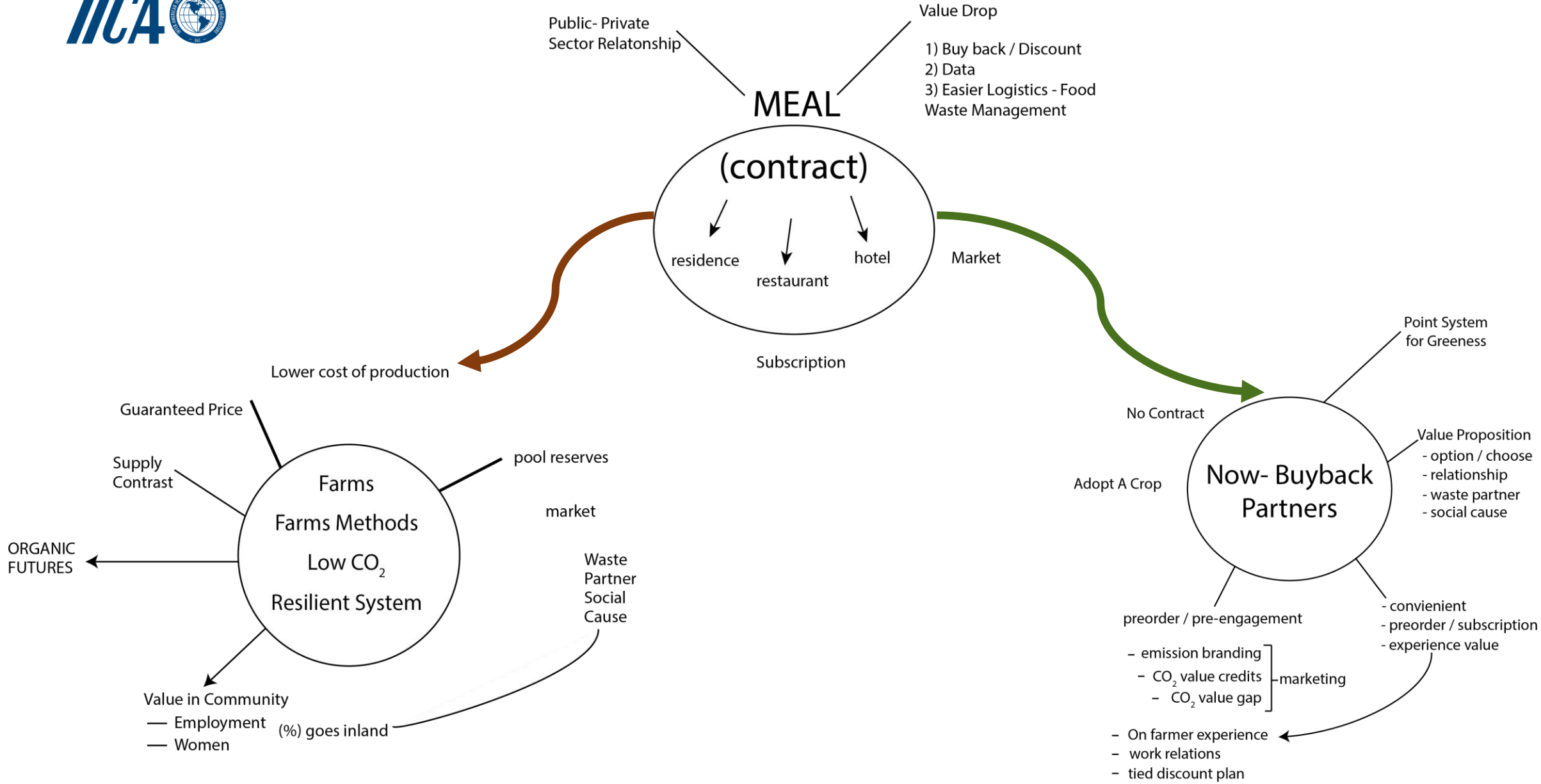
MEAL

[Mobile Exchange Agri-produce Link]

Solution: Mobile Exchange Agri-produce (MEAL)

MEAL [**Mobile Exchange Agri-produce Link**] (with private sector), a multiuser subscription-based service. We collect food scraps and turn it into agricultural products/inputs to grow our own sustainable agriculture produce and deliver to our users at a discounted price. MEAL provides an ecological supply chain system which bridges the gap between production, consumption, and wastes.







Relationship & Value Proposition

Public and private

Contractual arrangement

Buy-back/discount

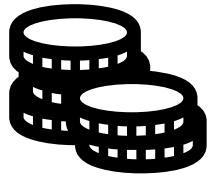
Food you can trust/Behavioral change

Data collection CO₂ sequestration

Climate adaptation

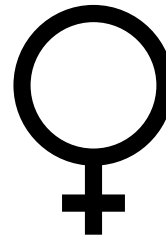
5 Key Objectives

1



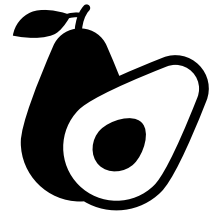
Economic Sustainability/
Opportunities

2



Strengthen Women in
Leadership

3



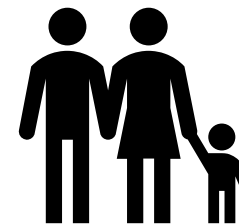
Chemical-Free
Produce / Products

4

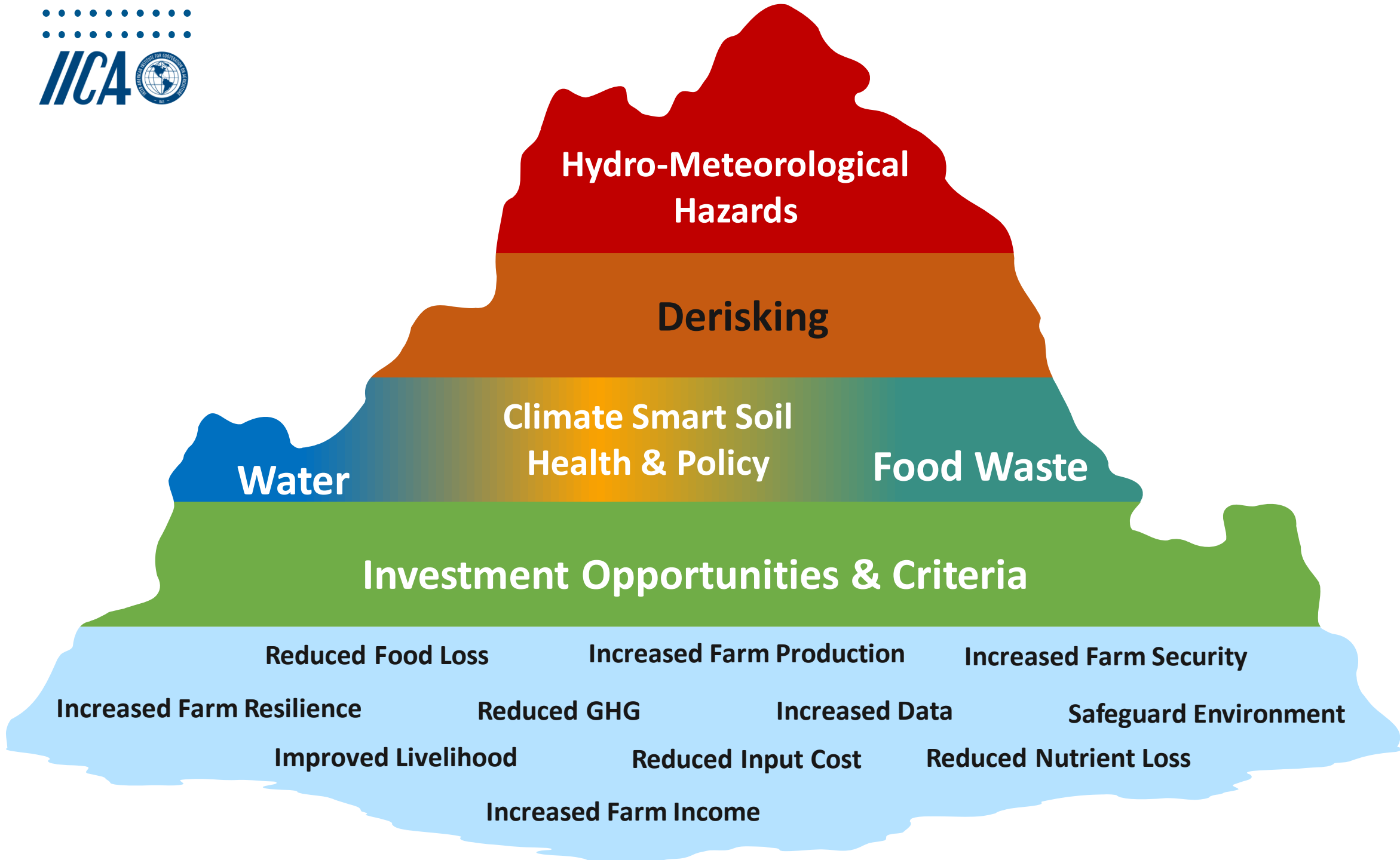


Sequester Carbon

5



Rekindle Community
Pride



Barriers

Barriers:

- Weak capacity and ineffective mechanisms for sustained engagement of agriculture stakeholders
- Undeveloped and dispersed agri-environmental datasets and systems that limits evidence-based decision making
- Policy and technology gaps, market and finance barriers that limits coordinated regional and science-based responses
- Lack of consolidated knowledge portal for sharing information
- Untapped potential to develop the competence of youth to contribute to building a climate resilient sector