



IAMF

INTEGRATED AFRICAN MODEL FARM

OCTOBER 2023



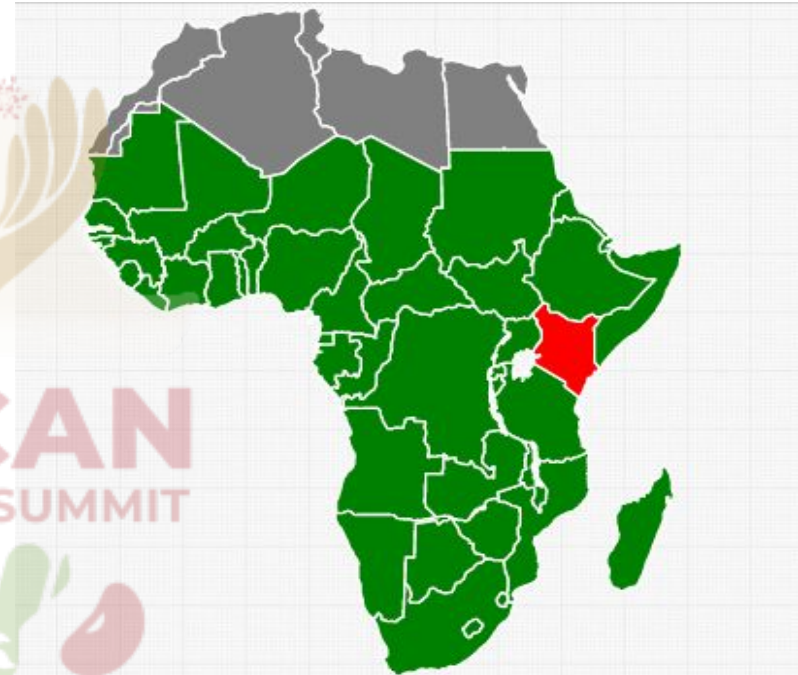
1. The Problem

1.1. A pending worldwide food crisis due to increased prices and stockpiling.

- The world is experiencing challenging times due to several aspects, but especially those triggered by the Covid pandemic and the conflict in Europe.
- Prices of most commodities, as well as, national and international freight charges, insurances and several other aspects are skyrocketing.
- It is known that countries with large populations such as: "China, India and other major economies are taking precautionary measures to ensure that they have enough food to feed their populations. That is triggering a run for food in countries with excess production for export.

1.2. A big threat to Africa's food security.

- While Africa has adequate land available to produce enough food to feed its population and export the excess, it is currently a major importer of grains, which poses a great threat as well as an opportunity to Africa.



Cereal Import Dependency Ratio, 2016 - 2018 (%) according to UN Data ([Reference Link](#))

■ 44% Kenya ■ 31% Africa ■ 21% Sub-Saharan Africa

2. The Opportunity

The market conditions offer an opportunity for Africa to finally enter the market of commercial production on a medium and large scale.



Smallholders farmers (SHF) produce the bulk of food that is consumed in Africa. Kenyan small farmers produce around 63% of the food in the country. (Ref. FAO 2015 [Link](#))



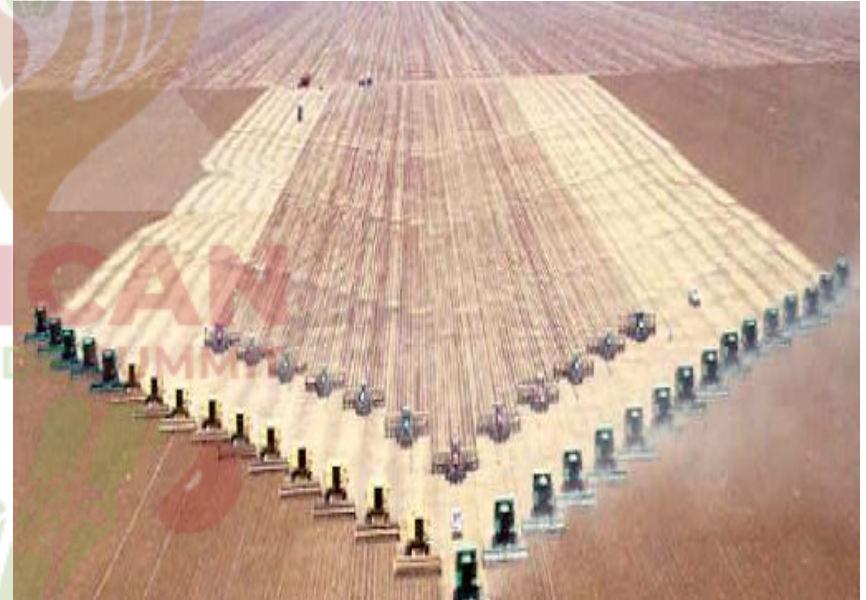
We propose full mechanization and use of modern technologies and innovations to all sizes of farmers; from small, medium to large scale.

3. The Solution

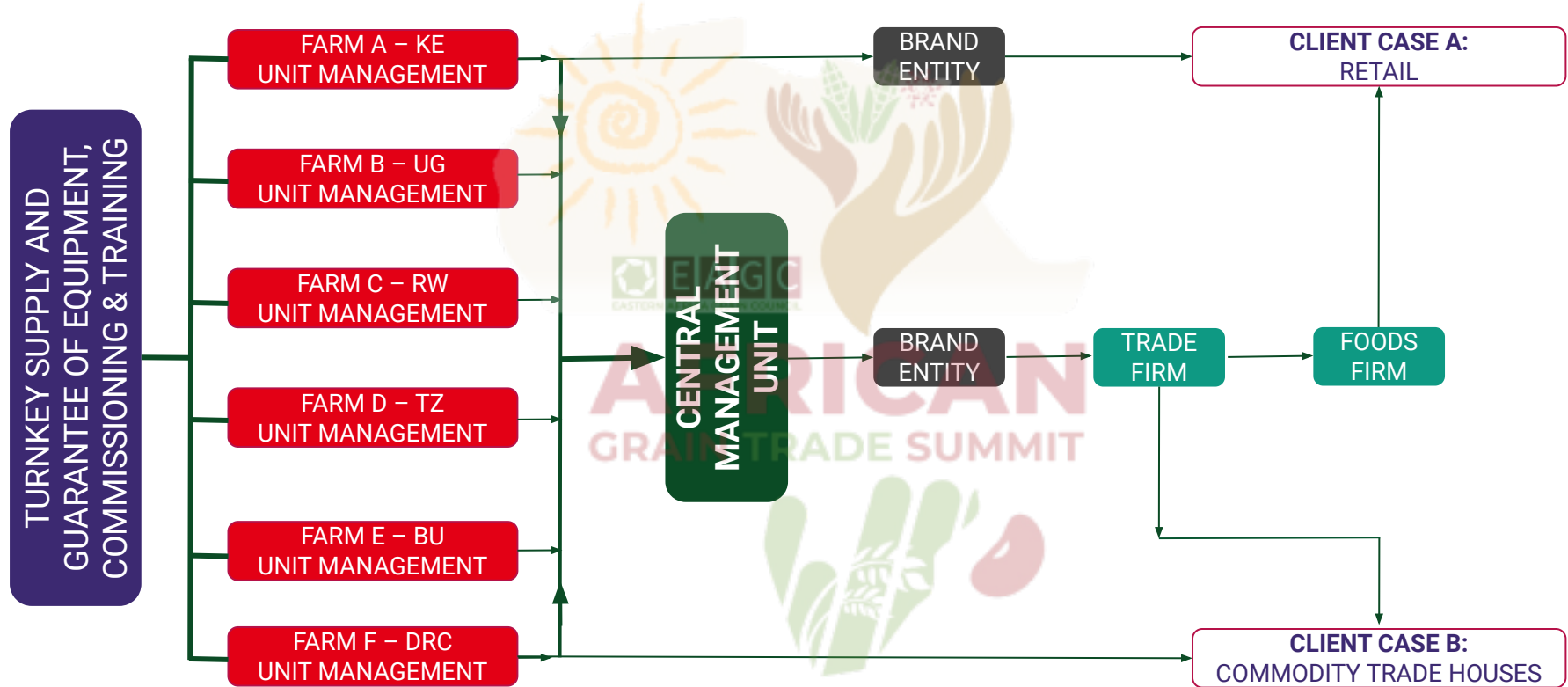
Presented by LEAF Africa and its Consortium

IAMF unique approach is mainly aiming at:

- **Production at lower costs**, resulting in a price below the price of imports - modern agriculture with emphasis on environmental conservation and regenerative agriculture.
- **Production of a high quality food**, ensuring high nutritional value of end-product and lower food loss – post harvest crop protection.
- **Production in large quantities**, directly available for processing in-country - commercial farming and value addition.
- **Linking our Commercial nucleus farms to a network of Smallholder Farmers**, resulting in economic benefits for the broader farming population in Africa through fair prices, lower costs and repositioning the middleman role – positive effect on the whole production chain.
- **Progressively replacing chemicals on all the production phases.**
- **Maximizing renewable energy in each production unit.**



3.1 Offering a Whole Solution



4. Who are we?

A genuine African Agribusiness solution provider based in Nairobi, Kenya, offering innovative agricultural solutions from Brazil and other successful agriculture countries.

***Syntropic Agroforestry
Timau, Central Kenya***

5. Our Experience with farming

LEAF's backbone in tropical farming is based on a partnership with CAMPO-Brazil as well as LEAF and its partner's agricultural experience in Africa.

CAMPO Prodecer

Initiated in Brazil in the late 70s

LEAF PARTNERS

Over 30 active Partners

6. Our Approach

Our primary goal is to produce high-quality food in Africa by utilizing modern technologies and techniques, largely based on tropical agriculture practices that helped Brazil to become a powerhouse in the production of a wide range of crops and animal value chains.

Our approach employs:



Conservation Agriculture
Zero Tillage



Mixed Farming
Livestock, cereals,
pastures etc...



Other Possibilities
Agroforestry and
Pastures



Irrigation Options
Central Pivots



Post-Harvest Solutions
Grains, dryers, silos and
value addition.



Renewable Energy
Solar, Biofuels, etc...

All our projects envision: SHF integration, training, and mechanization.

"Corporate, social, and environmental responsibility."

6.1. Main Components

1. Sustainable Agriculture

- **Conservation Agriculture** (zero tillage)
- **Multi-cropping** (traditional existing crops & addition of new high value crops)
- **Intercropping** (crops and pastures)
- Proven **modern and fully mechanized** farming
- **Irrigation** through water reservoirs, drip, ...
- **Grain** handling, drying and storage.

2. Environmental Conservation

- **Soil conservation** and recovery
- **Agro forestry**, reforestation & pastures
- **Sustainable use of water**: water harvesting, water recycling ...
- **Renewable energies**: solar, biomass, wind ...
- Full utilization of **bio waste**

3. Technology Transfer

- **Hybrid crops and animal breeds** adaptable to the tropics
- Partnership with reputable international & **local schools, research institutes**: student exchange programs, ...
- **Training students** from local communities on equipment operation, maintenance, farming methods
- **Agroshop** – one-stop shop for the farmer

4. Agro- Industry

- **Modern post-harvesting processing** techniques
- **Value addition** to crops & animal products
- **Brand creation**

6.2. Project Goals

1. Economic

- **Optimize resource use** for sustainable wealth creation to project investors and small holder farmers
- Bring **agro-industries to rural areas**, ensuring **full purchase of out-growers produce** and **eliminating middlemen**
- Avail **ready market** for the project's outputs (local, regional & international)
- **Diversify income & increase profitability** via multi cropping and value addition)

2. Technological

- **Transfer appropriate technology**, knowledge & technical back up assurance at competitive price (BrazAfric)
- **Train farmers** on mechanization, improved farming practices & techniques
- **Supply farmers** with improved seeds, farm inputs & equipment
- **Advance farmers** with appropriate animals, embryos & semen suitable for tropical conditions

3. Social

- **Discourage rural urban migration** - rural area development
- **Alleviate poverty** by improving farmers' earnings & generating value employment
- **Facilitate potential finance** to smallholder farmers - enhance their productivity
- **Improve food security and nutrition** in rural areas

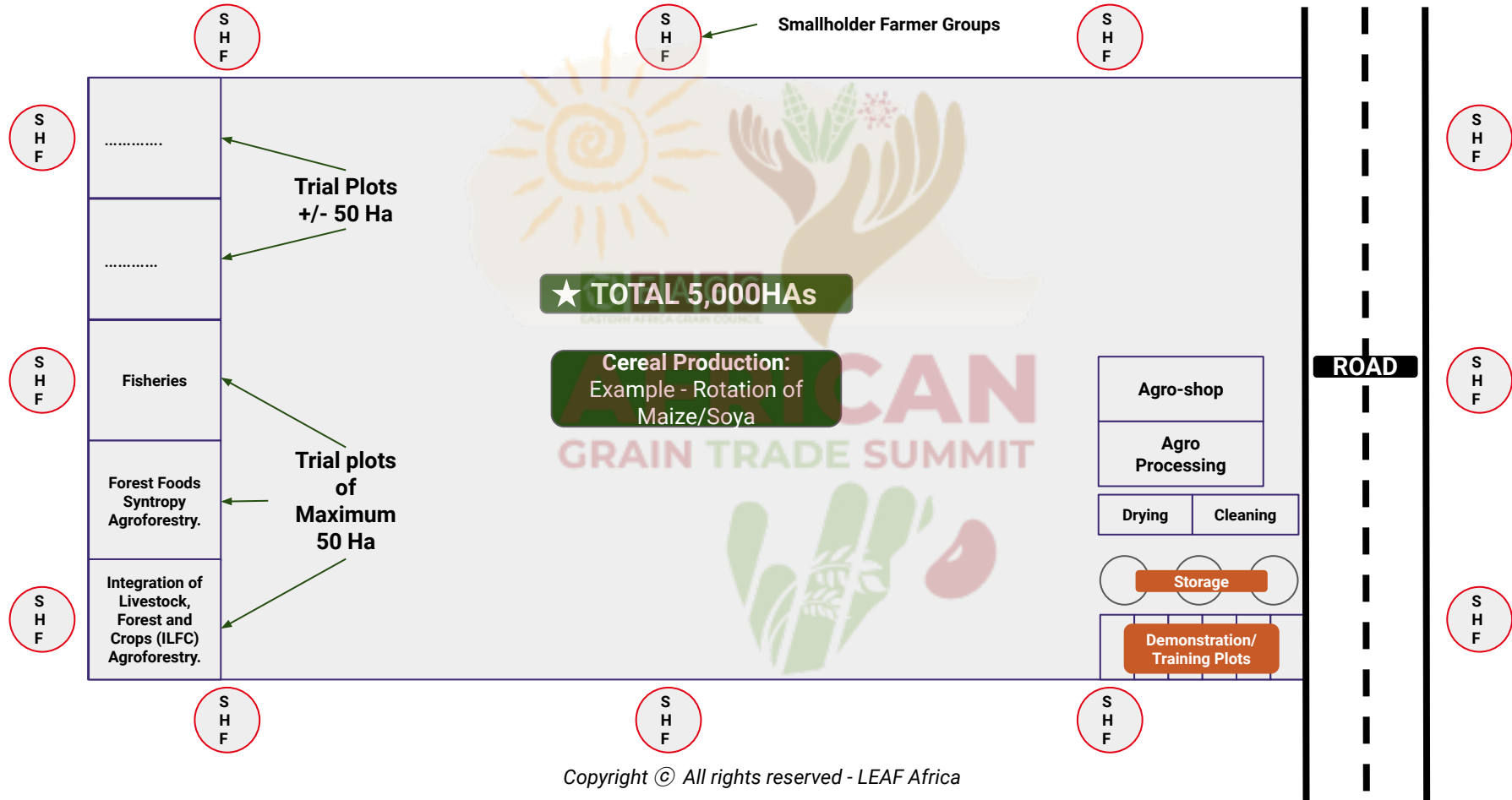
4. Environmental

- Promote **renewable energy** use in the project and by out-growers.
- Encourage tree planting (**reforestation & afforestation**) and discourage deforestation
- Support **soil conservation** and recovery through conservation agriculture
- Support **water conservation** through water reservoirs

6.3. Main Benefits of IAMF

1. **Development** to underdeveloped rural areas.
2. **Positive socio-economic impact** (organized out grower schemes & extension services).
3. **Food security & nutrition** (quality & increased productivity).
4. Sustainable **environmental conservation**
5. **Wealth creation** to investors and communities of farmers.
6. **Creation of quality jobs** (value employment) and opportunities to communities.

7. IAMF Potential Design



7.1. Project Requirements

1. Land

- **Adequate land** (good soils, enough water sources, favorable weather conditions)
- **Good accessibility** (Availability of utilities - electricity and water).
- **Free of conflicts**
- **Minimum of 50 years lease** or contract

3. Finance

- Appropriate **long term finance** at international interest rates
- Accessibility to **grants** for the project
- **Appropriate repayment periods** through crop cycle
- **Grace period on repayments**
- **Affordable financing options to small holder farmers**

5. Technical Assistance

- **Feasibility studies**
- **Free/subsidized expertise** support
- Cooperation with **leading research institutions** (ILRI, WALTON SCHOOL, EMBRAPA, KARI, NGOs ...)
- Other project partners

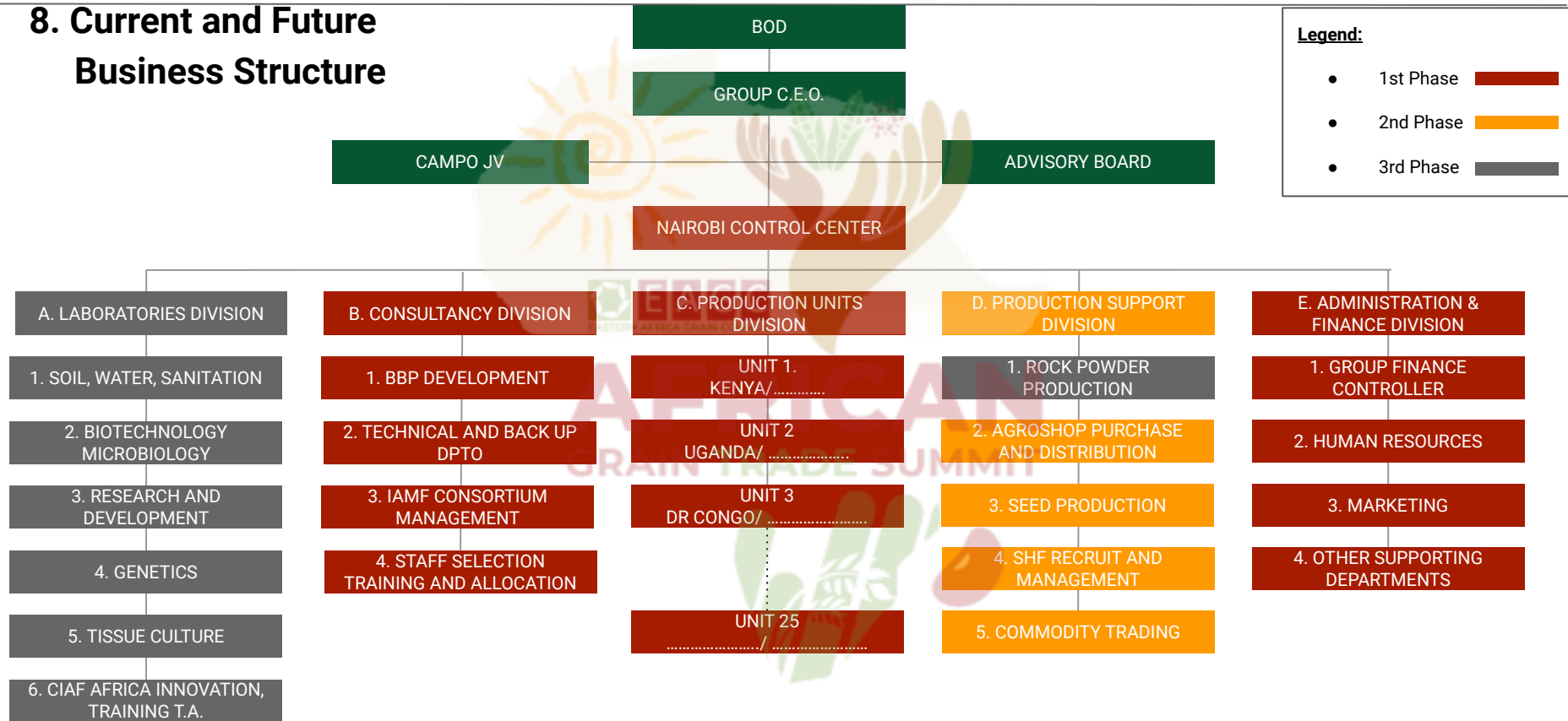
2. Environmental

- **Supply of environmentally friendly machinery & equipment:** Full assurance of quality, competitive prices and back up services
- **Conservation agriculture and other regenerative agriculture practices.**

4. Government Policies

- **Tax exemptions**
- **Finance incentives**
- **Attractive policies** for investors
- **Seeds and genetic material imports facilitation**
- **Concession on importation** of project requirements

8. Current and Future Business Structure



9. Partner Logos by Specialization

Key Consortium Partners



Pre-Harvest Equipment



Western

Post-Harvest Equipment



Seed Experts



Water Experts



Energy Experts



Infrastructure Developers



Financiers



Supporting Partners



THANK YOU

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