RESISTANCE CROPS FOR DROUGHT

PROBLEM

Climate change is intensifying droughts,threatening food security-especially in regions that rely heavily on maize as a stable crop.Traditional maize varieties require high water input,leading to crop failure,farmer loss and rising food prices during prolonged dry seasons.

INNOVATION

Our innovation focuses on developing and scaling drought resistant maize and companion crops using a combination of:

- Improved seed varieties bred for deep root systems and efficient water use.
- Climate-smart farming techniques,including soil moisture conservation and precision planting
- Data-driven irrigation and forecasting.

These crops mature faster,survive longer dry periods and maintain high nutritional value.

IMPACT POTENTIAL

- Up to 40% improved yield stability during drought conditions.
- Reduced water usage by 30-50%
- Increased farmer incomes and stronger rural economies.
- Enhanced food security and resilience against climate shocks.

We envision a future where farmers do not fear drought seasons,where maize fields stay green,communities remain fed,and agriculture thrives despite climate change.

COMPETITIVE ADVANTAGE

Our competitive advantage lies in combining locally adapted drought-resistant maize with low cost,climate -smart farming systems that deliver reliable yields where conventional seeds fail.

Locally Adapted Seeds

Designed for local soils,heat and rainfall patterns,not imported one size fits all varieties.

Low Water Perfomance

Up to 40% yield stability in drought conditions using 30 – 50 % less water.

Faster Maturity

Shorter growing cycle avoids peak drought periods and ensures quicker farmer income.

Affordable and farmer first

Lower costs,replantable seeds,minimal inputs built for smallholder realities.

Seed and system model

Seeds bundled with climate-smart practices and farmer training competitors do not offer.

Result: Higher adoption,lower risk.Reliable harvests,even in dry seasons.

The Team

- Technical experts,to design and maintain the solution
- Business and finance members to manage budgets,revenue,and long term viability.
- Operations staff to implement and monitor the solution on the ground.

- Community or social engagement members to work with users and ensure adoption.
- Leadership to co-ordinate the team,manage risk and drive impact.

The team combines technical know-how,financial management and local understanding to deliver reliable drought solutions.

Financial Stability

Reliable and diversified funding revenue streams.

Costs that are predictable and controlled.

Enough cash reserves to operate during drought cycles and delays.

Business model that remains viable despite climate variability and seasonal demand.