

## **AFRICAN INTELLIGENCE COMPANY**

### **Agriculture Intelligence MVP Charter**

#### **1. Purpose**

Build a functional MVP that simulates a full agricultural intelligence system for Tanzania, covering production, storage, prices, and consumer workflows using synthetic data.

The MVP will demonstrate data ingestion, analytics, visualization, and basic prediction.

#### **2. Vision**

Create a unified intelligence layer for Tanzania's agricultural sector—enabling visibility, prediction, and actionable insights for farmers, buyers, markets, and policymakers.

#### **3. MVP Objectives (Delivery by Jan 1)**

- Ingest synthetic agricultural datasets (production, prices, storage).
- Build a dashboard showing trends, insights, and regional analytics.
- Implement simple prediction models for production and price trends.
- Simulate real-time data flow using replay scripts.
- Prepare research documentation: sector map, risks, data sources, pilot plans.

#### **4. Scope of the MVP**

##### **Core Features:**

- Data ingestion: CSV upload + simulated real-time streaming.
- Dashboard: production, prices, storage levels; crop & region filters.
- Analytics: monthly summaries, averages, KPIs.
- Predictive model: simple forecast using baseline algorithms.

##### **Out of Scope (for now):**

- Real sensor integrations.

- Real market API integrations.
- Mobile data collection app.

## 5. Team Roles and Leads

CEO/ AI and data engineer - Eliabu John Mpuya

- Final decision-maker on product direction
- Defines features, system architecture, and roadmap
- Ensures alignment with the company vision
- Build data ingestion (synthetic data)
- Create analytics, dashboards, and predictions
- Lead technical decisions on AI and data

WE WILL OPERATE WITH TWO TEAMS FOR NOW :

### A. TECHNICAL TEAM

#### **Responsibilities:**

- Build the MVP
- Develop backend + frontend
- Implement data pipelines
- Create dashboards & visualizations
- Integrate prediction models
- Roles inside the Technical Team:
  - Software Developer / Engineer
  - UI/UX Designer
  - Any supporting technical roles

### B. RESEARCH TEAM

#### **Responsibilities:**

- Collect information on Tanzania's agricultural data ecosystem
- Understand data collection processes in the country
- Research requirements from NBS, ministries, and relevant authorities
- Identify existing agricultural data sources
- Identify stakeholders (ministries, markets, co-ops, farmers, storage operators)
- Prepare documentation for real data acquisition after MVP

The **TECHNICAL TEAM** will be led by @Gmo 3

AND Team members , @Benard Ian -software engineer @Richard Clavery - software engineer ,  
@Eliabu - data & ai engineer

while the **research team** will be led by @Fundisimon  
and @Benard Ian - APPLIED research Engineer

## 6. Deliverables

- MVP Dashboard (Streamlit or React).
- Synthetic agriculture dataset (complete).
- Ingestion & real-time simulation scripts.
- Prediction model prototype.

- Research Packet (sector map, data inventory, risks, pilots).

## **7. Success Criteria**

- System runs end-to-end on synthetic data.
- Dashboard shows production, price, and storage insights.
- Predictions generate output consistently.
- Research dossier provides clear direction for real data collection in January.

## **8.TIMELINE**

**Now → December 30**

- Build a real, working MVP using synthetic data
- Technical team executes
- Research team maps the data ecosystem

**Starting January**

- Begin the real data collection process
- Start partner outreach and field validation
- Expand the system based on real data

This is our now our structure.

This is our timeline.

And this is our shared goal

## **8. Risks & Assumptions**

- Real data availability may be limited—synthetic data used initially.
- Team bandwidth varies—MVP focuses on essentials only.
- Internet and infrastructure constraints considered during planning.

## **9. Conclusion**

This MVP demonstrates the foundation of Africa's first intelligence layer for agriculture—a system capable of tracking, understanding, and forecasting nationwide agricultural data.