

# Agro-USSD

Dial \*882#

Connecting Farmers Directly to Buyers



**Farmer**

Working hard with traditional tools



**Market Seller**

Multiple middlemen increase prices



**Consumer**

Middle-aged woman in native attire shocked by high prices

Reducing food price inflation in Nigeria through direct market connections

# Food Security Challenges in Nigeria

## Current Situation

### ⚠️ Severe Food Insecurity

Approximately 30.6 million people facing severe food insecurity

### 📈 High Food Inflation

2024 peak reached approximately 40%  
2025 mid-year expected at 22-23%

## Main Drivers

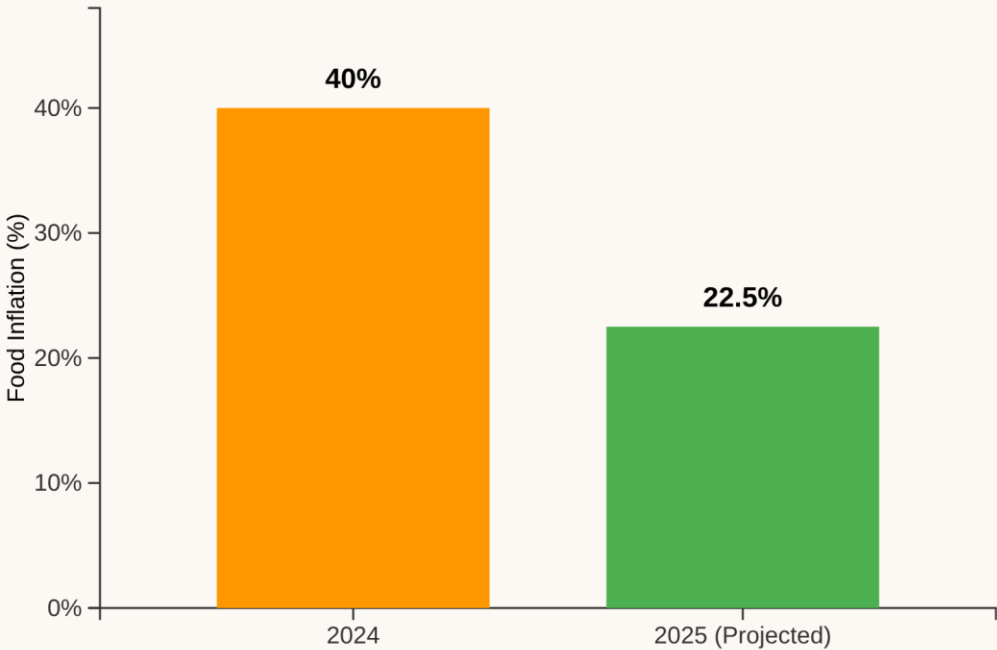
📊 High inflation

☁️ Climate shocks

🛡️ Security issues

🚚 Weak supply chains

Food Inflation Trend



Food price inflation in Nigeria has reached critical levels, affecting both producers and consumers

Thank you for your attention

# Supply Chain Price Inflation Issues

## The Problem

Despite low production costs, farmers only receive a small portion of the final price paid by consumers.

**Consumers pay 2-3 times the farm-gate price**



## How Prices Increase Through the Supply Chain



### Multiple Middlemen Markups

Multiple middlemen between farmers and consumers.

### High Transportation Costs

Fuel subsidy removal, roadblocks, and informal checkpoints

### Post-Harvest Losses

Delays and poor logistics lead to spoilage and higher prices

# The Agro-USSD Solution

## Agro-USSD Platform

**Low-cost, accessible USSD platform** enabling direct transactions between farmers and buyers without internet access.



**Farmers**

### List Products

Price, quantity, location



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### Direct Connection

No middlemen, no internet required



**Buyers**

### Discover Products

Search by product/location



### **Fair Pricing**

Eliminates middleman markup



### **No Internet Needed**

Works on basic phones



### **Simple to Use**

Accessible to all users



# Key Features & Functionality

Agro-USSD platform provides innovative features to connect farmers with buyers efficiently



## Multi-language Support

Supports English, Yoruba, Igbo, Hausa, Pidgin, with plans to add more local dialects to accommodate diverse user needs.



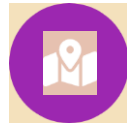
## Farmer PIN Protection

Secure PIN code protects farmers' personal and business information, enabling them to update and track transactions.



## NIN Verification

Verifies user identity through National Identity Number (NIN), reducing fraud and connecting with national registration systems.



## Farm Profiles

Records farm size (hectares), GPS/landmark, production calendar, and product types to create comprehensive farm databases.

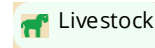


## Support for Multiple Product Categories

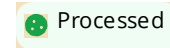
Covers a wide range of agricultural products including crops, livestock, and processed foods.



Crops



Livestock



Processed



## Platform Benefits

- ✓ Direct connection between farmers and buyers
- ✓ Reduced middleman exploitation
- ✓ Lower transaction costs
- ✓ Improved transparency

# User Journey Simulation










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Access Agro-USSD platform










## Farmer Journey

- 1  Select **Language**
- 2  Choose "**New or Existing Farmer**"
- 3  Register/ login
- 4  Create **PIN** for security
- 5  Input **farm size** and **location**
- 6  Provide **farm details** (GPS, products)
- 7  List **agricultural products** for sale



## Buyer Journey

- 1  Select **Language**
  - 2  Choose "**New or Existing Buyer**"
  - 3  Search for **Produce**
  - 4  Filter by **location**, product type, or price
  - 5  View **available products** and details
  - 6  Place **order** and arrange delivery
-  **Additional:** Escrow services and logistics coordination



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Register/Login



Create Profile



Transact

# Farmer Persona



**Name:**Ibrahim Adewale

**Age:**45

**Location:**Ogun State

**Occupation:**Farmer

**Family:**Married with 4 children

## Background

Ibrahim has been farming for over 20 years, cultivating cassava, maize, and vegetables on his 5-hectare farm in Ogun State. He inherited the land from his father and has expanded his operation over time.

## Challenges

- Difficulty finding reliable buyers for his harvest
- Often forced to sell to middlemen at below-market prices
- Limited access to market information and price trends
- Poor internet connectivity in his rural location
- Loses up to 30% of harvest due to inability to find buyers quickly

## Goals

- Get better prices for his farm produce
- Connect directly with more buyers
- Reduce dependence on middlemen and intermediaries
- Use simple technology that doesn't require internet

# Buyer Persona



**Name:**Amina Olatunji

**Age:**43

**Location:**Lagos

**Occupation:**Teacher

**Family:**Single mother with 2 children

## Background

Amina is a secondary school teacher in Lagos who spends a significant portion of her income on food for her family. She shops at local markets weekly and is always looking for quality produce at reasonable prices.

## Challenges

- Rapidly rising food prices have strained her budget
- Limited time to visit multiple markets to compare prices
- Concerns about quality and freshness of produce
- Unreliable supply of certain staple foods
- Food costs now consume over 60% of her monthly income

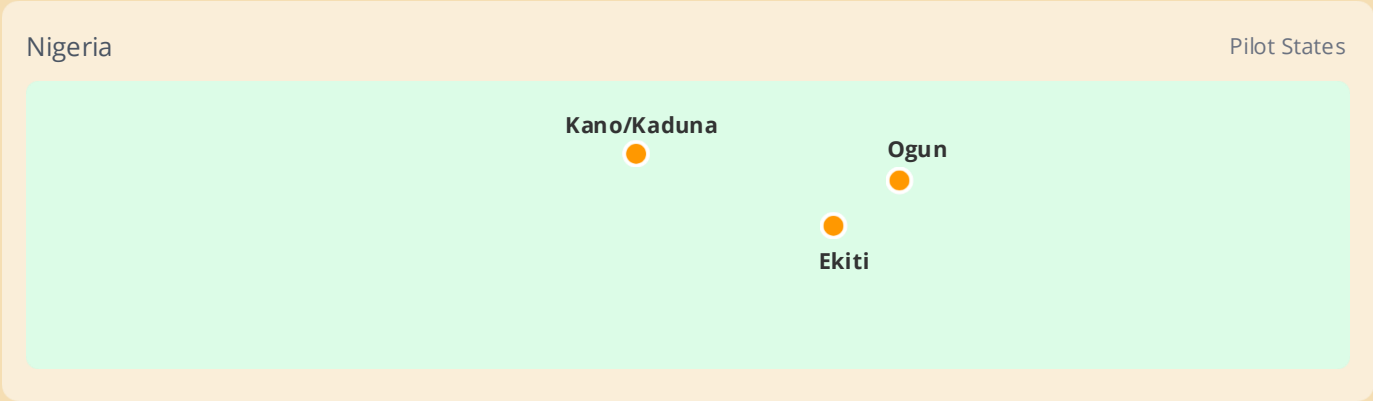
## Goals




- Find affordable, quality food items for her family
- Purchase directly from farmers to save money
- Access fresh produce conveniently
- Use simple technology that fits into her busy schedule




# Pilot Implementation Plan

## Three-State Pilot (6 months)







-  **Ogun State** (Pilot Center)  
AgriConnect project location
-  **Ekiti State**  
Based on field observations
-  **Kano/Kaduna States**  
Representing northern region

 **Target Users**

**5,000-10,000**  
Farmers across three states

(Potentially starting with smaller scale if needed)

### Key Performance Metrics

-  **Market Price**  
Compared to baseline
-  **Farmer Sales**  
Share of total sales
-  **Sales Time**  
Transaction processing speed
-  **Transaction Volume**  
Number of completed sales

Thank you for your attention

# Implementation Roadmap



## Phase 1: Development (0-3 months)

- ✓ Build USSD platform
- ✓ Integrate with telecom partners
- ✓ Design 5 language UX
- ✓ Implement security & NIN integration



## Phase 2: Pilot (3-6 months)

- ✓ Launch pilot in 3 states
- ✓ Conduct training
- ✓ Monitor KPIs
- ✓ Establish logistics partnerships



## Phase 3: Scale (6-18 months)

- ✓ Platform optimization
- ✓ Secure scaling funding
- ✓ System integration
- ✓ Nationwide rollout

### Key Milestones

● 3-month: Platform ready

● 6-month: Pilot completion

● 18-month: National coverage

Thank you for your attention

# Resource Requirements & Partnerships



## Resource Requirements

### Platform Development

- ✓ One-time development fee
- ✓ USSD short code acquisition
- ✓ Multi-language support (5 languages)

### Operational Costs

- ✓ Support center establishment
- ✓ Training team deployment
- ✓ Promotion agents
- ✓ Monitoring & Evaluation (M&E)






## Key Partnerships

### Strategic Partners

-  **Telecom Companies**  
USSD service provision
-  **MTN Foundation**  
Support services
-  **Huawei**  
Supplementary technology


### System Integration

-  **State Agriculture Departments**  
Local coordination
-  **AgriConnect**  
Platform integration
-  **National Registration System**  
NIN verification



## Funding Sources

### Government Support

-  **Federal Government (FG)**  
Core funding source

### Development Partners

-  **World Bank**  
Financial support
-  **IFAD**  
Rural development focus
-  **FAO**  
Agricultural expertise

### Private Sector & Impact Investors

-  **Corporate Social Responsibility (CSR)**  
Private sector funding
-  **Impact Investors**  
Sustainable growth

# Expected Impact & Next Steps

## Expected Impact



### For Farmers

- Increased income through direct market access
- Reduced post-harvest losses
- Improved pricing for agricultural products



### For Buyers

- Consistent supply of fresh produce
- Quality products at fair prices
- Reduced price fluctuations



### For Food Security

- More stable food prices
- Reduced food inflation
- Improved access to quality produce

## Next Steps



### Short-term (0-3 months)

- Complete USSD platform development
- Integrate with telecom partners
- Design multi-language user experience
- Implement security and NIN integration



### Medium-term (3-6 months)

- Launch pilot in three states
- Train users and collect feedback
- Monitor key performance indicators
- Establish logistics partnerships



### Long-term (6-18 months)

- Platform optimization
- Secure scaling funding
- System integration
- National rollout

Thank you for your attention and support



# Thank You

**"Connecting farmers to markets is not just business—it is building bridges to food security."**

*- Quantum Quads*

## Team Members



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