AgriShield AI

Smart Farmer Risk & Productivity Platform

with Climate Early Warning | Built for Nigeria's 36M+ Smallholder Farmers

36M+	■4.2T	60-70%	2026
Farmers in Nigeria	Agric GDP at stake	Income gap vs national avg	Launch year

UNDP timbuktoo AgriTech Hub Applicant

CONFIDENTIAL — INVESTOR DECK 2026

The Problem

Nigeria's smallholder farmers face a crisis no platform has solved

01 **No Early Warning System**
36M+ farmers across Nigeria — especially in the climate-vulnerable Northeast — face annual flooding, drought, and irregular rainfall with zero community-level alert infrastructure.

02 **Inaccessible Extension Services**
Extension worker-to-farmer ratio exceeds 1:3,000 in most states (recommended: 1:400). Farmers make decisions based on tradition, not data — yields are 40-60% below potential.

03 **Crop Disease Devastation**
Cassava mosaic, rice blast, and maize streak virus regularly destroy harvests. Without diagnostic tools, diseases are identified too late. Entire seasons lost to preventable failures.

04 **Farmer-Herder Conflict**
Nigeria loses thousands of lives and billions of naira annually to farmer-herder conflict. No digital boundary or early warning system exists to prevent intrusions before damage occurs.

05 **Market Access Failure**
Even when crops survive, middlemen extract value at every point. Farmers earn a fraction of true market price with no visibility into commodity prices or direct buyer connections.

Result: Farm incomes 60-70% below national average | Food insecurity affecting millions | No integrated platform exists

Our Solution

Five integrated modules — one unified platform

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CONNECT

End-to-end value chain: farmer onboarding, KYC, input financing, harvest collection & market linkage

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WEATHERGUARD

Real-time flood & drought early warning via NASA POWER, satellite data — 48-72hr advance alerts on SMS, WhatsApp & USSD

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CROPSCAN

AI crop disease detection — farmer photographs affected crop, diagnosis returned in seconds with treatment recommendations

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FARMGUARD

Nigeria's first geo-fence farm boundary protection — real-time intrusion detection, farmer-herder conflict prevention

AgriShield
MARKETWATCH

Live commodity price feeds, direct buyer connections, cooperative aggregation for bulk selling power

Offline-first Flutter architecture | Works on any device | Mobile App + WhatsApp + SMS + USSD

No internet required — built for low-connectivity environments across all of Nigeria

Market Opportunity

Nigeria — Africa's largest agricultural economy

36M+
Smallholder farmers in Nigeria

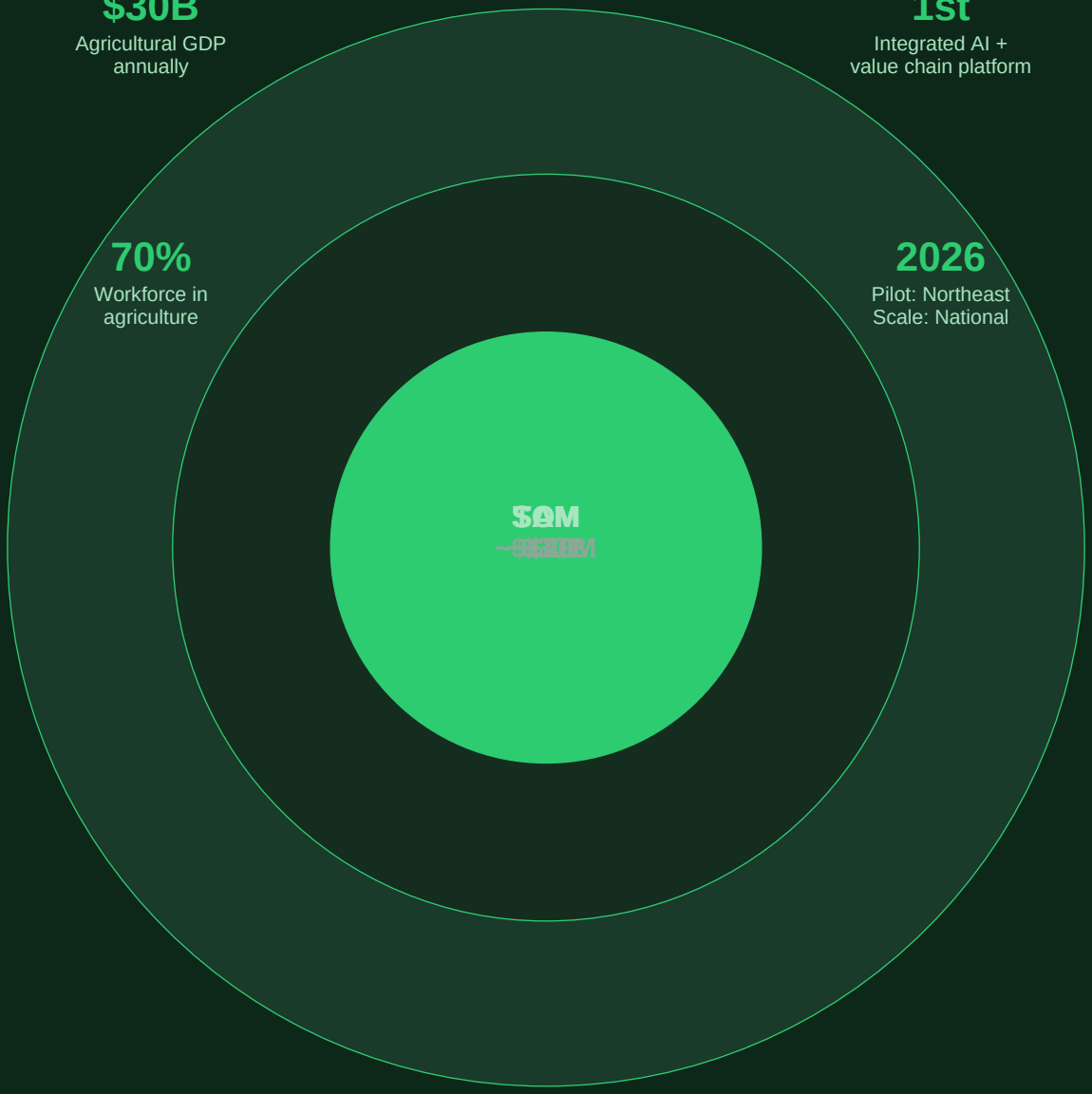
6
Geopolitical zones — full coverage

$30B
Agricultural GDP annually

1st
Integrated AI + value chain platform

70%
Workforce in agriculture

2026
Pilot: Northeast
Scale: National



Business Model

Dual revenue — no farmer subscription fee

Value Chain Revenue (B2C)

Input Financing Margin
3-8% markup on seeds & fertilizer disbursed as loans

Commodity Commission
2-4% on crop volume sold through platform

Warehouse Storage
Per-tonne monthly fee at partner warehouses

Market Linkage Fee
1-2% on buyer-farmer commodity contracts

B2B SaaS Revenue (Institutional)

NGOs (USAID, WFP, FAO, GIZ)
Annual dashboard license — farmer monitoring & analytics

State Government Agencies
Gov portal — conflict hotspot mapping, farm census

Agri-Finance Companies
Per-farmer risk API — climate score, flood probability

Agricultural Insurers
Satellite-verified farm risk data for policy pricing

One NGO partnership = institutional revenue + 50,000 farmers reached simultaneously

Proven model: ThriveAgric value chain approach adapted for Northern Nigeria's unique context

Roadmap

From Maiduguri to a national platform

Phase 1
Q1-Q3 2026

Northeast Pilot

- MVP: App + WeatherGuard + CropScan + FarmGuard
- 500 farmers in Borno State (BOSADP partners)
- First flood alerts deployed
- UNDP timbuktoo cohort participation

Phase 2
Q4 2026 - 2027

National Expansion

- Expand to all 6 geopolitical zones
- NGO partnership agreements active
- 50,000 farmers target
- B2B SaaS clients onboarded

Phase 3
2028

Scale & Integrate

- 100,000+ farmers nationwide
- Agri-finance API live
- Insurance data partnerships
- Government analytics portal

Phase 4
2029+

West Africa

- Lake Chad Basin expansion
- Niger, Chad, Cameroon
- 500,000 farmer target
- Pan-African timbuktoo network

Technology

Production-grade stack built for Nigeria's infrastructure realities

Mobile App	Flutter (offline-first)
Backend API	Laravel (PHP) + PostgreSQL + Redis
AI / ML	Python + FastAPI + TensorFlow / PyTorch
Geospatial	PostGIS — point-in-polygon < 5ms
Climate Data	NASA POWER + OpenWeather + NiMet
Satellite	Google Earth Engine + Sentinel-2
Messaging	Africa's Talking SMS/USSD + WhatsApp Business API
Queue	Laravel Horizon + Redis — async job processing
IoT (Phase 2)	LoRaWAN/GSM GPS collars — MQTT protocol

Key Technical Differentiator: Offline-first architecture works without internet

FarmGuard geo-fence intrusion confirmed in under 5ms | Farmer alert dispatched in under 30 seconds

The Team

Built by Maiduguri — for the communities we grew up in

Our unfair advantage:

Unlike teams building from Lagos or Abuja with no connection to the Northeast, every founding member of AgriShield AI has direct personal experience of the floods, the farmer-herder conflict, and the agricultural challenges we are solving. This is not a market opportunity to us — it is our community.



[Lead Founder]
Software Engineer & Technical Founder

Platform architecture, backend, AI systems.
Maiduguri-born. Deep roots in Northeast Nigeria.



[Co-Founder]
Operations & Field Partnerships

Agricultural value chain operations, extension services, cooperative networks.



[Co-Founder]
Business Development & NGO Relations

USAID, WFP, GIZ partnership development.
Humanitarian sector expertise.



[Advisor]
Agricultural Development Expert

Advisory on agri-finance, climate resilience,
and NGO program design.

SDG Alignment: SDG 2 Zero Hunger | SDG 13 Climate Action | SDG 9 Innovation | SDG 16 Peace & Justice | SDG 10 Redu

Join Us in Transforming Nigerian Agriculture

The technology is ready. The team is ready. The farmers are waiting.

What we're seeking:

- Incubation support & mentorship (UNDP timbuktoo AgriTech Hub)
- Seed funding for MVP development and Borno State pilot
- NGO and institutional partnerships (USAID, WFP, FAO, GIZ)
- Technical advisory on AI/ML and satellite data integration
- Market access — connections to Nigerian agri-finance ecosystem

AgriShield AI

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