

FIVE PILLARS AgriAI

Last update: August 15, 2026

Five Pillars AgriAI is an enterprise-grade, multi-tenant AgriAI platform designed to digitize agricultural operations and transform agricultural data into actionable intelligence. Five Pillars AgriAI connects agricultural production, quality management, traceability, logistics, compliance, communication, sales, and executive intelligence within one digital ecosystem.

THE WEB COMMAND CENTER

For Export Managers & Global Marketing & Sales Teams The Five Pillars AgriAI Web Platform acts as your central nervous system for export operations.

Specialized Agri-CRM

- **Pipeline-style Kanban boards** — track every deal from initial LOI → Contacted → Negotiation → FCO → Signed SPA
- **Document vault** — LOI, FCO, SCO, SPA, NCDA, and Commission Agreements linked per lead
- **12 internal lead statuses** mapped to 5 pipeline columns with color-coded progress
- **No-Progress alerts** — 72-hour inactivity flags catch stalled deals before they go cold
- **One-click lead conversion** — transform incoming buyer messages into tracked pipeline leads instantly
- **Detail analytics of your sale performance**
- **Useful Information panel** (Confirmed Buyer stage) — SPA Sign Date, First Shipment Loading Date, First Shipment Arrival Date (primary date for commission analytics)
- **Drag-and-drop pipeline management** — move leads between columns with automatic status updates
- **Bulk status updates & CSV export** for pipeline reporting

Lead Messages — Real-Time Communication Hub

- **Threaded conversations per lead** — keep every buyer interaction organized and searchable
- **Rich text + attachments** (images, PDFs) for document exchange inline
- **Push notifications** (web + mobile) — never miss a buyer response
- **Message status tracking** — Sent / Delivered / Read receipts
- **Filter by lead, date, unread** — zero in on what needs attention
- **Three message categories:**
 - globalMarketingAndSales — Internal team coordination
 - buyerCommunication — Direct with lead
 - documentExchange — Contract/document sharing
- **Team oversight** (Manager+) — view all team conversations, step in on stalled deals

Automated Compliance Dashboards

- Generate the exact **Due Diligence Statements (DDS)** and polygon-mapping traceability reports required by EUDR, GACC, and FDA authorities — with a single click
- **Per-market compliance checklists** with item-level tracking (EU · USA · China)
- **Export certificate management** with expiry alerts and status tracking
- **EUDR Compliance Checklist per lot** — Geolocation polygon, Harvest Date, Quantity, Operator, Due Diligence Statement Reference

Multilingual Collaboration

- **AI-powered auto-translation** across 15 languages — break down language barriers between local farm managers and international buyers
- **Per-phase threaded notes** stored in both canonical English and the author's native language
- **MediaSchemaTranslationControls** — multi-language translation with model selection; supports translations from English or French to any target language; waiting spinner shows provider and model info; failed languages can be retried individually
- **Public/Private note visibility** — control what buyers see vs. internal-only
- Seamless communication without losing nuance or audit integrity

Commission & Analytics

- **Multi-currency sale commission allocation** across global sales teams (USD, EUR, GBP, JPY)
- **Real-time validation** — sum of per-rep allocations must equal total commission/MT; green check on match, red highlight on mismatch
- **Analytics dashboards** — sales performance, lead distribution, commission trends, top performer rankings
- **Monthly/yearly toggles** with Chart.js visualizations (doughnut, line, funnel)
- **Conversion Funnel** — Requesting → Confirmed Buyer progression rates
- **Sales Trend** — $\Sigma(\text{Quantity} \times \text{Target Price})$ over 12 months / 5 years
- **Currency conversion** via organization exchange rate
- **Confidential analytics** (Senior Manager+) — full org commission totals, rep performance rankings, margin analysis per lead

Reports & Decisions

- **Unified submission workflow** — Reports, Decision Requests, and Budget Requests in one place
- **Kanban board + threaded notes** with AI translation
- **Multi-level approval routing** (Manager → Senior Manager)
- **Budget Request toggle** — attach amount/currency to any Decision Request
- **Approval actions** — Approve / Reject / Approve with Budget (auto-creates budget record)
- **Approved Budget Management** — track expenses against budgets; "Budget Exhausted" warning at 100%; negative amounts for corrections

Budget Monitoring

- **Summary cards** — Total Budget, Total Expenses, Remaining, Over-Budget Count
- **Filters** — Department, Date Range, Over-Budget Only
- **Drill-through** to individual budget detail
- **Role-scoped visibility** — Managers see own approved budgets; Senior Managers see all

User & Organization Management

- **Role-based access control** across 4+ role levels (Basic User → Sales Rep → Manager → Senior Manager)
- **Department-scoped permissions** — Agriculture, Global Marketing & Sales, Administration
- **HR Manager tools** for cross-department staff management
- **Contract Farming organization & staff management** — dedicated CRUD for isContractFarming orgs with locked org assignment
- **Full org isolation** — your data is never visible to other organizations (orgId enforced on every query)
- **Activity Log** — 90-day history with geographic map heatmap + table view (Platform, URL, timestamp, location)

Quiz Management & Training

- **Create/manage quizzes** — multiple choice, 2-4 answers, drag-drop reordering
- **Private quizzes with passcode** (bcrypt-hashed) — rate limited to 5 attempts per 15 min per IP
- **Performance tracking** — paginated results, sort by score/name/date, CSV export
- **Use cases** — Product knowledge certification, compliance training, market regulation updates, Incoterms certification

Agricultural Features

For Agronomists & Field Agents Export compliance starts in the soil. Our app puts enterprise-grade traceability tools directly into the hands of your field staff and smallholder aggregators.

GPS Polygon Mapping

Walk the perimeter of your farms to capture the precise geolocation data mandated by the EU, proving zero deforestation post-2020. Every plot boundary is recorded as a GPS polygon linked to your traceability records. Supports **GeoJSON/KML import** with multi-farm batch parsing (up to 50 features per batch).

Agri-AI Vision Assistant

Snap a photo of a diseased leaf or pest. Our integrated Vision-AI instantly analyzes the image and provides localized treatment recommendations to protect your MRL (Maximum Residue Limit) compliance.

Cold Chain & Quality Logging

Record temperature, humidity, and quality test results directly at the packhouse and loading dock to prove cold-chain integrity to buyers. Every data point is timestamped, GPS-tagged, and audit-ready. **Alert thresholds configurable per crop.**

Voice-to-Text Multilingual Notes

Field agents can dictate notes in their local language; the app automatically translates and syncs them to canonical English for your audit-ready compliance records. No typing. No language barriers. No lost information.

Seamless Mobile Integration

- **QR Code login** — scan from web dashboard to pair Android app (QR refreshes every 2 minutes)
- **Passkey biometric registration** on mobile — fingerprint/face for passwordless access
- **Push notifications** for new lead messages and pipeline updates
- **Voice-to-text replies** with photo attachments from the field

THE FIVE PILLARS OF EXPORT SUCCESS

Five Pillars AgriAI doesn't just store data — it actively guides your operation through the five pillars demanded by modern importers:

#	Pillar	What It Delivers
1	 Production Planning & Volume Consistency	Forecast yields, manage forward-booking agreements, and align harvest calendars with buyer procurement schedules to guarantee shelf availability.
2	 Quality Management & Compliance	Digitize pesticide applications, track MRLs, manage phytosanitary certifications, and log Pest & Disease records (6 categories, 5 severity levels, GPS-tagged) to avoid catastrophic border rejections.
3	 Traceability & Due Diligence	Link every harvested lot back to a specific GPS-mapped plot, ensuring 100% audit readiness for EUDR and FSMA 204.
4	 Logistics & Documentation	Manage cold chain logs, shipping documents (Bill of Lading, Phytosanitary Cert, Certificate of Origin, Insurance), and export certificates in one secure, easily accessible vault.
5	 Digital Communication & Export Readiness	Transition from reactive problem-solving to proactive buyer collaboration via Lead Messages, sharing transparent, real-time data that builds trust and secures long-term contracts.

Smart Farming — Full 5-Pillar Integration

- **Farm → Block → Plot hierarchy** with GPS polygon mapping (Leaflet), auto-generated slugs for deep linking
- **GeoJSON/KML boundary import** — multi-feature parsing with name, area, and polygon extraction
- **5-Pillar Detail Panel per plot** — tabbed interface:
 - Pillar 1: Seasonal Forecast, Contract Farming, Forward Booking
 - Pillar 2: Pesticide Applications, Quality Tests, Certifications, Pest & Disease Records
 - Pillar 3: Traceability Lots (EUDR checklist, harvest lots)
 - Pillar 4: Cold Chain Logs (temp, timestamp), Shipping Docs
 - Pillar 5: Export Compliance (per market), Export Certificates
 - Pillar 6: Pest & Disease — Manual records (Category, Severity 1-5, GPS, Description, Attachments)
- **5-Phase Pipeline per plot:**
 - Pre-Planting (Land Prep → Soil Test → Seed Selection → Resource Planning) — *Sequential*
 - Bio Dev & Input Application (Seed Treatment, Fertilizer, Pest Control, Growth Tracking) — *Concurrent*
 - Harvest (Readiness → Harvesting → Yield Measurement) — *Sets actualQuantityMT*
 - Post-Harvest (Cleaning → Grading → Packaging → Storage) — *Sequential*
 - Market Distribution (Domestic path OR Export path) — *Divergent*
- **Pipeline Board** — Visual Kanban per plot; advance steps to update plot pipelineStage
- **Disease Risk Map** — interactive Leaflet map with plot boundary (green polygon), 50km radius circle (blue dashed), color-coded AI + manual markers by category (Fungal/Viral/Bacterial/Pest/Nutritional/Environmental), sized by severity, with popup details and legend
- **Crop & Crop Category management** — hierarchical categories → crops, multi-language names, used in plot crop assignment
- **Context-Aware AI** on every Farm/Block/Plot/Pipeline page — entity data automatically fed to AI for stage-specific recommendations
- **"Include content from notes" control** — on Farm/Block/Plot pages, choose which note content (Photos / Videos / PDF) is sent to AI; Videos/PDF auto-disable unless Gemini model selected

Contract Farming

- **Organizations** — CRUD for isContractFarming orgs with isBuyer/isSeller/isSupplier flags
- **Staff Management** — org dropdown + department radio filter; locked orgId on add/edit
- **Use case** — manage outgrower schemes, producer groups, and contract supply chains



AI-POWERED INTELLIGENCE

Feature	Capability
AI Recommendations	5 types: Weather & Climate 🌤️ · Soil & Nutrients 🌱 · Pest & Disease 🐛 · Market & Price 📈 · Operational ⚙️ — with 1-hour Redis smart caching
Vision AI	Snap a photo → instant localized treatment recommendations using Ollama vision models
AI Translation	15 languages — notes, fields, and interface labels auto-translated; model-selectable; retry failed languages individually
Ask AI (Text Mode)	Full model selection across 6 groups; attach images/PDFs for vision analysis; streaming responses; Copy or Export to Word
Ask AI (Voice Mode) NEW	Toggle Voice switch → configure Gemini model → record via microphone → AI responds with streaming text AND spoken audio (auto-played); replay any response via speaker button
Context-Aware AI	On Lead/Farm/Block/Plot/Pipeline pages, AI automatically receives full entity data — ask "Analyze disease risk for this plot" with zero manual context entry
Data Scan & Recommendations NEW	Org-wide AI-powered data scan: Agriculture scope (crops, plots, blocks, farms, pipelines) or Cross-Department scope (Agriculture + GMS leads + Finance); generates executive summary, top issues, and recommendations; stored in scan history
Disease Risk Mapping	Seeded crop-disease database with deterministic AI markers per crop type; 50km radius analysis
Automated DDS Generation	One-click EUDR-compliant Due Diligence Statements with polygon-mapping traceability
Credit Exhaustion Fallback	When external provider credits run out, system automatically falls back to built-in Ollama model — zero downtime

Ask AI — Model Groups

Group	Models	Access
Gemini Free	gemini-2.5-flash, gemini-3.5-flash-lite, gemini-3.6-flash	API key required (free tier with daily quota)
Gemini Pro	gemini-2.5-pro, gemini-3.5-flash, gemini-3.6-flash	Subscription/paid API key
OpenRouter Free	google/gemma-4-26b, nvidia/nemotron-3-nano	Free models via OpenRouter
OpenRouter Paid	qwen/qwen3.5-flash, bytedance-seed/seed-1.6-flash, google/gemini-3.6-flash	Credits required (badge shows balance)
NVIDIA NIM	nvidia/nemotron-3-nano, meta/llama-3.1-8b-instruct	API key, supports reasoning mode
Built-in (Ollama)	qwen3.5:cloud, qwen3-vl:8b	Local, no API key required

Voice Mode Requirements

- Browser: Chrome, Edge, or Safari (recent versions with MediaRecorder support)
- Microphone permission granted
- Google AI Studio API key configured in organization settings (Gemini Live API)
- Voice model selected in Voice Model row

Smart Farming Analytics Dashboard

- **Farm Overview** — Count, Total Area, Status Distribution
- **Block Analytics** — Avg Area, Crop Distribution, Pipeline Stages
- **Plot Analytics** — Land Utilization, Yield Trends (Actual vs Planned)
- **Pipeline Analytics** — Phase Duration Averages, Bottleneck Detection
- **Crop Performance** — Yield by Variety, Input Efficiency
- **Confidential Section** (Senior Manager+) — Revenue per Hectare, Margin by Crop/Block, Input Cost Trends, Profitability Forecast
- Charts: Chart.js + react-chartjs-2, Monthly/Yearly toggle, Export PNG/CSV

SECURITY & AUTHENTICATION

Feature	Detail
Passkey Authentication	WebAuthn biometric (fingerprint/face) registration for passwordless login
QR Code Mobile Login	Scan from web dashboard → pair Expo app → register device biometric
Multi-tenant Org Isolation	Every query filtered by orgId — zero cross-org data leakage
Role-Based Access Control	5+ authorization levels with department-scoped permissions
JWT + NextAuth v5	Secure session management with token rotation
Audit Trail	All lead status changes, note edits, commission changes, and submission approvals logged with author/timestamp
SPA Contract Gating	canViewSPA — only Lead Author or Senior Manager+ can view Sale Purchase Agreements; sanitizeLeadSPA() strips SPA from unauthorized responses

BUILT FOR GLOBAL TRADE

15 Languages Supported

العربية · Deutsch · English · Español · Français · हिन्दी · Bahasa Indonesia · Italiano · 日本語 · 한국어 · Polski · Português · Türkçe · Tiếng Việt · 中文

Multi-Market Compliance

- EU **EU** — EUDR Due Diligence Statements, GPS polygon traceability, deforestation verification
- US **USA** — FSMA Section 204 documentation, FDA compliance
- CN **China** — GACC compliance checklists, export certificates

Multi-Brand Ecosystem

One platform, many brands:

- Five Pillars AgriAI (primary) · Adalidda · Deko Group
- Your own brand and platform

Five Pillars AI Academy offers free, accessible training courses for everyone involved in the agricultural value chain, empowering professionals and stakeholders with the knowledge and skills to leverage AI and digital technologies.

ENTERPRISE-GRADE TECHNOLOGY

Layer	Technology
Frontend	Next.js 16, React 19, TypeScript, Tailwind CSS v4, Framer Motion
Mobile	Expo / React Native (Android Field App)
Database	MongoDB
Cache	Redis dual-instance (master + replica) — job queues, rate limiting, AI caching
Auth	NextAuth v5, WebAuthn passkeys, JWT
AI/LLM	Multi-provider: Ollama (local), Gemini (Google AI Studio), OpenRouter, NVIDIA NIM
Voice AI	Gemini Live API (real-time speech-to-text + text-to-speech)
Maps	Leaflet with GPS polygon mapping, 50km radius analysis
Analytics	Chart.js + react-chartjs-2 dashboards
Email	Resend (transactional)
i18n	15 languages with AI auto-translation (model-selectable)
Data Scan	Redis-backed job polling (~3s refresh), org-isolated aggregation
Rate Limiting	Redis-backed (quiz passcodes, API quotas)

WHO IS THIS FOR?

Audience	Value
Agricultural Cooperatives	Digitize member farms, prove compliance, access premium EU/US/CN markets
Agribusinesses & SME Exporters	End-to-end export pipeline management from lead to shipment
Export Managers & Sales Teams	CRM, Lead Messages, commission tracking, document management in one place
Agronomists & Field Agents	AI-powered crop advice, disease mapping, GPS traceability, pipeline management in the field
Compliance Officers	EUDR, FSMA, GACC checklists with GPS-verified traceability and automated DDS
Smallholder Farmers	Enterprise-grade tools at smallholder-friendly pricing
Senior Leadership	Cross-department analytics, confidential financials, org-wide data scans, budget oversight

ROLE-BASED ACCESS AT A GLANCE

Capability	Basic User	Sales Rep	Marketing Mgr	Agriculture Mgr	Senior Manager
Reports & Decisions	✓	✓	✓	✓	✓ + Approvals
Budget Management	✓	✗	✓	✓	✓ (All)
Lead Management	✗	View/Edit	Full CRUD	View/Edit	Full + Delete
Lead Messages	✗	✓ (primary)	✓ (oversight)	✗	✓ (oversight)
Smart Farming	✗	✗	✗	Full CRUD	Read-Only
Pipeline Management	✗	✗	✗	Full CRUD	View
Contract Farming	✗	✗	✗	Full CRUD	✗
Quiz Management	✗	✗	✓ Full	✓ Full	✓ Full
Data Scan	✗	✗	✗	Agriculture scope	Cross-dept
Confidential	✗	✗	✗	✗	✓

Capability	Basic User	Sales Rep	Marketing Mgr	Agriculture Mgr	Senior Manager
Analytics					
Ask AI (Text + Voice)	✓	✓	✓	✓	✓
Staff Management	✗	✗	✗	Own dept	✗

ENTERPRISE-GRADE COMPLIANCE. SMALLHOLDER-FRIENDLY PRICING.

We believe that world-class traceability, compliance, and export intelligence should not be reserved for multinational agribusinesses. Smallholder farmers, producer cooperatives, and emerging exporters deserve access to the same digital infrastructure that helps global suppliers win international contracts and reduce commercial risk.

That is why Five Pillars AgriAI has been designed with a pricing model that removes financial barriers while supporting sustainable growth.

FIVE PILLARS AgriAI LAUNCH OFFER

Offer	Detail
 6 Months Free	Zero Upfront Risk. Begin your export-readiness journey at no cost. Map your farms, onboard producer groups and cooperatives, digitize your compliance records, train your team, and prepare for your first internationally compliant shipments. No credit card required.
 Affordable Growth	After the free period, continue for just USD \$10 per user per month — making enterprise-grade compliance accessible even for growing agribusinesses.
 Save with Annual Billing	Choose the annual plan for only USD \$100 per user per year — the equivalent of two months free compared with monthly billing.
 Cooperative Team Discount	Organizations enrolling 10 or more users automatically receive a 10% team discount , making it even easier to digitize entire cooperatives and export teams.
 Impact Sponsor Program	Farmers, producer organizations, and agricultural cooperatives that demonstrate strong compliance, active platform engagement, and a proven agricultural track record may become eligible for the Impact & Adoption Sponsor Program

Offer	Detail
	— through which participating sponsors can cover all or part of their annual subscription fees. This initiative accelerates digital adoption while reducing the cost of compliance for high-performing agricultural communities.

PARTNERSHIP & SPONSORSHIP OPPORTUNITIES

Tier	Slots	Benefits
 Exclusive Sponsors	3 max	Full-width banners, rotating hero, LinkedIn posts, "Powered By" QR watermarking
 Gold Sponsors	5 max	Premium app carousel, web footer logo, partner directory, social media spotlight
 Silver Sponsors	10 max	Logo in sponsor grid, web directory listing, event branding
 Impact & Adoption Sponsors	Open	"Adopt-a-Cooperative" model, subsidized subscriptions, ESG impact dashboard

Enterprise Deployment for Mid-Size Agribusinesses & Agricultural Cooperatives

For organizations seeking a dedicated, enterprise-grade solution, we offer a comprehensive deployment package that includes:

- **Private deployment** of Five Pillars AgriAI on your own dedicated Ubuntu server with GPU acceleration for AI workloads
- **Worldwide onsite implementation and training** covering both the Five Pillars Framework and the Five Pillars AgriAI platform
- **One year of online coaching**, mentoring, and technical support
- **One year of software updates** with access to all new releases and feature enhancements
- **Annual maintenance and support plans** available after the first year

Deploy your own secure AI-powered agricultural management platform while maintaining full ownership and control of your data.

Five Pillars AgriAI isn't just a platform. It's the digital infrastructure that helps agricultural organizations achieve compliance, build buyer confidence, and compete successfully in global markets.

Contact Information

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 LinkedIn Group: "Five Pillars AgriAI" — <https://www.linkedin.com/groups/37080204/>

YouTube Channel <https://www.youtube.com/@FivePillarsAgriAI>

Five Pillars AI Academy <https://academy.adalidda.com>

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