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FIVE PILLARS AI

The Enterprise AI Platform for the Entire Agricultural Value Chain

Prepared for	Top Decision Makers — Agribusiness Firms & Agricultural Cooperatives
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Agricultural trade is being rewritten by regulation, transparency, and speed.

- **EUDR is enforceable now.** EU buyers require GPS-verified, deforestation-free proof for every shipment of cocoa, coffee, soy, palm oil, rubber, timber, and cattle. No documentation → no market access.
- **AfCFTA opens 1.3 billion consumers.** Cooperatives and agribusinesses with digital trade infrastructure will capture disproportionate share.
- **Buyers demand real-time traceability.** From farm polygon to bill of lading, in one click — not one quarter.
- **Boards and DFIs require live governance data.** Quarterly PDF reports are no longer acceptable.

The question for every agribusiness leader is no longer *"Should we digitize?"* It is:
"Can we afford another season without it?"

What Five Pillars AI Is

Five Pillars AI is an enterprise-grade agricultural operating system covering the entire value chain — from farm planning to export compliance to board-level intelligence.

It is not a collection of apps. It is not a dashboard bolted onto a spreadsheet.

It is **one data layer, one command center, one strategic engine** — purpose-built for agricultural operations at scale, in any geography, in **15 languages**.

What it replaces

Today (typical)	With Five Pillars AI
4–7 disconnected software tools	One integrated platform
Compliance assembled manually per shipment	Compliance generated automatically per batch
Board reporting: 2–4 weeks per cycle	Live KPI dashboards, real-time
Smallholder data in paper / WhatsApp groups	GIS-mapped, AI-guided, contract-orchestrated
Trade documents drafted in Word / email	Trade Document Vault with AI translation in 15 languages
Disease risk assessed by guesswork	AI-driven Disease Risk Maps with 50 km radius scanning
Budget tracking in spreadsheets	Integrated budget approval, monitoring & overrun alerts
\$300K–\$1.5M over 5 years on fragmented SaaS	One platform. One license.

The Five Pillars

Each pillar maps to a stage of your value chain. Together, they eliminate data silos and give leadership a **single pane of glass**.

Pillar	Domain	What it governs
①	Sustainable Production & Contract Sourcing	Farm→Block→Plot GIS hierarchy, 5-phase biological pipeline, contract farming orchestration, AI agronomy, Disease Risk Maps
②	Agro-Industrial Processing & Value Addition	Field-to-factory integration, transformation tracking, yield/grade consistency, pesticide & MRL compliance, certification management
③	Digital Trust: Traceability, Quality & Compliance	GPS deforestation-free proof (EUDR), QA/QC & MRL logs, Compliance Vault, cold-chain monitoring, zero-delay customs
④	Global Market Penetration & Trade Orchestration	Agri-CRM Kanban pipeline (12 statuses), Trade Document Vault, 15-language AI translation, commissioning engine, lead analytics
⑤	Executive Intelligence & Strategic Governance	Web Command Center, decision workflow, budget monitoring, KPI dashboards, AI strategic advisory, cross-department Data Scans

One data layer. Not five systems. A cultivation record in Pillar ① flows automatically into processing ②, compliance ③, trade ④, and the executive dashboard ⑤. You operate one system — not five.

The 13 Modules

Full platform access across thirteen integrated modules:

ID	Module	Pillar
M01	Lead generation & CRM	④
M02	Farm management & contract farming coordination	①
M03	Crop production planning	①
M04	Manufacturing & processing operations	②
M05	Inventory management	②
M06	Quality assurance & quality control (QA/QC)	③
M07	Product traceability & supply chain visibility	③
M08	Sustainability reporting	③/⑤
M09	Export documentation & international trade compliance	③/④
M10	Customs readiness	③
M11	Logistics & shipment management	④
M12	Market intelligence & business analytics	④/⑤
M13	Financial reporting & performance dashboards	⑤

All thirteen modules are available from Day 1. Activation is phased (P1 → P2 → P3) based on your operational priorities — but **none are withheld or paywalled**.

Pillar ① Detail: Sustainable Production & Contract Sourcing

Digital twin of your land (GIS polygons) · 5-phase biological pipeline · contract farming orchestration across thousands of smallholders · AI agronomy advisories

GIS Hierarchy: Farm → Block → Plot

- Import boundaries via **GeoJSON / KML** — up to 50 features per batch
- Every entity geo-referenced with GPS polygons, area in hectares, and deep-linkable slugs
- Multi-level drill-down: Farm overview → Block detail → Plot-level operations

5-Phase Biological Pipeline (per plot)

Phase	Steps	Logic
1. Pre-Planting	Land Prep → Soil Test → Seed Selection → Resource Planning	Sequential
2. Bio Development & Input Application	Seed Treatment · Fertilizer · Pest Control · Growth Tracking	Concurrent
3. Harvest	Readiness → Harvesting → Yield Measurement	Sequential (sets actual MT)
4. Post-Harvest	Cleaning → Grading → Packaging → Storage	Sequential
5. Market Distribution	Domestic Path OR Export Path	Divergent

AI Recommendations Engine (5 categories)

1. **Weather & Climate** — Forecast + optimal planting windows
2. **Soil & Nutrients** — Fertilizer recommendations per plot
3. **Pest & Disease** — Risk alerts + treatment timing + AI-driven Disease Risk Map (50 km radius, 6 categories, severity 1–5)
4. **Market & Price** — Commodity trends, selling windows
5. **Operational** — Resource allocation, labor planning

Contract Farming Orchestration

- Manage contract-farming organizations, their staff, and department assignments from one interface
- Coordinate 500, 5,000, or 50,000 smallholder members — every plot mapped, every input tracked, every harvest attributed

Pillar ② Detail: Agro-Industrial Processing & Value Addition

Transformation tracking (Cassava→Starch, Soybean→Oil, Cocoa→Butter, Palm→CPO) · yield & grade consistency · smart-plant logic · ISO / HACCP / GMP alignment

Quality & Certification Tracking (per plot / batch)

- **Pesticide Applications:** Product, date, rate, method, operator, Pre-Harvest Interval (PHI), label & SDS attachments
- **Quality Tests:** Lab, parameters (moisture, aflatoxin, etc.), results, pass/fail, certificate upload
- **Certifications:** GlobalG.A.P., Organic, Rainforest Alliance, and more — with certificate numbers, issuers, issue/expiry dates, scope

Pest & Disease Records

- 6 categories: Fungal / Viral / Bacterial / Pest / Nutritional / Environmental
- Severity scale 1–5, color-coded
- GPS coordinates (auto from plot centroid or manual entry)
- Attachments for field evidence

For processors: Know your yield variance by batch, by line, by shift — in real time.

Pillar ③ Detail: Digital Trust, Traceability, Quality & Compliance

GPS-verified deforestation-free proof (EUDR-ready) · MRL & lab logs · Compliance Vault · audit-ready transparency in minutes, not months

EUDR Compliance Checklist (per traceability lot)

Requirement	Captured Automatically
Geolocation (GPS polygon)	✓ from Farm/Block/Plot GIS
Harvest date	✓ from Pipeline Phase 3
Quantity (MT)	✓ from Yield Measurement step
Operator	✓ from user assignment
Due Diligence Statement reference	✓ linked document

Cold Chain Monitoring

- Temperature logs with timestamp, °C reading, GPS/facility location, logger ID
- Configurable alert thresholds per crop

- Full audit trail for pharma-grade and food-grade shipments

Shipping Document Management

- Bill of Lading · Phytosanitary Certificate · Certificate of Origin · Insurance
- Document type, file attachment, issue date, validity tracking

Export Compliance (per market)

- Market-specific checklists (EU, US, China, AfCFTA, etc.)
- Regulation requirements, status tracking, evidence upload
- Export certificates with type, issuer, number, validity, covered products/markets

For exporters: Your EU buyer's due-diligence team gets a link, not a 40-page PDF assembled over three weeks.

Pillar ④ Detail: Global Market Penetration & Trade Orchestration

Kanban CRM (Inquiry→Negotiation→Contract) · Trade Document Vault (LOI / FCO / SCO / SPA) · 15-language AI translation · automated commissioning

Lead Management Pipeline (12 statuses, 5 Kanban columns)

Column	Statuses
Requesting	New · Qualified · Contacted
Contacted	Meeting Scheduled · Proposal Sent
Negotiation	Terms Discussion · Commission Setup
Confirmed Buyer	Contract Signed · Awaiting Shipment
Lost / Inactive	Lost · On Hold · Archived

Commission Engine

- Per-MT commission with currency support
- Multi-rep allocation with real-time validation (allocations must sum to total)
- Full audit trail on every commission change

Trade Document Vault

- LOI · SCO · FCO · SPA · Commission Agreement — linked per lead
- AI-powered generation and translation in 15 languages
- SPA contracts access-gated by role (Senior Manager+)

Lead Analytics Dashboard

- Conversion funnel with column progression rates
- Sales trend: $\Sigma(\text{Quantity} \times \text{Target Price})$ over time
- Commission analytics: pool, per-rep breakdown, currency exposure
- Export: Charts → PNG, Tables → CSV

Multilingual Notes & Communication

- Notes written in any of 15 languages → English canonical stored → teammates see in their UI language
- Phase-tagged, with photo/video/PDF attachments
- Lead Messages with read receipts for team oversight

For commercial teams: Close deals in the buyer's language. Generate compliant trade documents in seconds. Track every opportunity from first email to final payment.

Pillar ⑤ Detail: Executive Intelligence & Strategic Governance

Single-pane Web Command Center · structured approval workflow · live KPI dashboards · AI strategic advisory · cross-department Data Scans

Submissions & Decision Workflow

- Create Reports or Decision Requests (with budget option)
- Structured approval chain: Manager → Senior Manager → Org Admin
- Actions: Approve / Reject / Approve with Budget → auto-creates budget record

Budget Management & Monitoring

- Track expenses against approved budgets in real time
- Overrun alerts at 100% ("Budget Exhausted" warning)
- Drill-through: Department → Date Range → Over-Budget Only
- Summary cards: Total Budget, Total Expenses, Remaining, Over-Budget Count

AI-Powered Data Scan & Recommendations

- **Agriculture scope:** Scans crops, plots, blocks, farms, pipelines → AI-generated report with executive summary, top issues, recommendations
- **Cross-department scope (Senior Manager+):** Adds GMS (leads) + Finance (payments, coupon earnings) → full organizational health scan
- Reports stored, versioned, and retrievable from Scan History

Confidential Analytics (Senior Manager+ / Board)

- Revenue per hectare
- Margin by crop / block
- Input cost trends
- Profitability forecast
- Commission totals (full org), rep performance rankings, margin analysis per lead

Smart Farming Analytics Dashboard

- Farm Overview: count, total area, status distribution
- Block Analytics: average 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

For boards & DFIs: One login. Every metric. Real time. No more waiting for the quarterly report.

Role-Based Governance & Security

Five Pillars AI enforces **enterprise-grade role-based access control (RBAC)** with organizational isolation at every query.

Role Hierarchy

Role	Smart Farming	CRM / Trade	Confidential Data	Budget Authority	Data Scan Scope
Agriculture Staff	Edit plots, update harvest	—	✗	Submit requests	—
Agriculture Manager	Full CRUD (Farm/Block/P lot/Pipeline)	View/Edit leads	✗	Own approved	Agriculture only
Marketing Manager	✗	Full CRUD + analytics	✗	Own approved	—
Senior Manager	Read-only (5 pages)	Full org + SPA view	✓	All budgets	Cross-department
Organization Admin	System config	System config	✓	System-wide	System-wide

Security Stack

Layer	Specification
Authentication	Enterprise-grade WebAuthn Passkeys (passwordless, biometric)
Access Control	RBAC with position-level + org-authorization-level gating
Data Isolation	All queries filtered by orgId — zero cross-org leakage
Audit Trail	Every status change, note edit, commission update, and approval logged with author + timestamp
SPA Protection	sanitizeLeadSPA() strips contract data from unauthorized API responses

Technical Architecture & AI Infrastructure

Layer	Specification
Frontend / Framework	Next.js 16 — engineered for speed and multi-tenant scale
Database	MongoDB — document-native, schema-flexible for agricultural entities
Caching / Performance	Redis — AI recommendation caching (1 hr TTL), job queues, rate limiting
Authentication	Enterprise-grade WebAuthn Passkeys (passwordless)
Access Control	Role-based access control (RBAC)
AI Architecture	Hybrid AI — leading open-source models + premium commercial AI models
Localization	15 languages with built-in AI-powered translation

Layer	Specification
Deployment	Multi-tenant; hosted on Deko AI Data Center or client-preferred infrastructure

Hybrid AI — Why It Matters

The platform is **not locked to a single AI vendor**:

- **Open-source models** handle high-volume operational tasks at near-zero marginal cost
- **Premium commercial models** (e.g., Gemini) deployed where they add measurable strategic value — multilingual trade negotiation, video/PDF analysis, complex agronomic reasoning

This protects you from vendor pricing changes, model deprecation, and single-point-of-failure risk.

Context-Aware AI (built into every operational page)

- Farm / Block / Plot pages → AI receives entity data, notes, photos, GPS polygons
- Pipeline pages → AI receives stage data for stage-specific recommendations
- Lead pages → AI receives lead info, notes, documents, commission data
- Content-type selection: Notes (always) + Photos + Videos + PDFs (model-dependent)

15-Language Localization

English · French · Spanish · Italian · Brazilian Portuguese · German · Polish · Indonesian · Simplified Chinese · Arabic · Hindi · Korean · Japanese · Turkish · Vietnamese

The AI Data Center

Five Pillars AI runs on Deko Group's purpose-built AI Data Center or your own AI Servers:

Capability	Description
AI computing & cloud	Run enterprise models without building your own infrastructure
Cybersecurity & secure storage	Enterprise-grade protection, managed 24/7
Disaster recovery & HPC	Business continuity; high-performance computing for peak loads
Optical fiber & 5G	Low-latency connectivity
Data sovereignty	Your operational data resides in a controlled environment — not in a third-party cloud on another continent

Why this matters: Simplifies GDPR / local data-residency compliance. Reduces latency for real-time processing decisions. Eliminates the capital expenditure of building your own AI infrastructure.

Why Decision Makers Choose Five Pillars AI

Strategic concern	How Five Pillars AI addresses it
EUDR & export compliance risk	GPS-verified, deforestation-free proof built into every batch record — audit-ready in minutes
Fragmented systems & data silos	One data layer across production, processing, compliance, trade, and governance
Smallholder coordination at scale	Contract farming orchestration + AI agronomy across any number of members
Board & DFI reporting burden	Live KPI dashboards, AI Data Scans, and budget monitoring — one click, not one quarter
Vendor lock-in & escalating SaaS costs	Hybrid AI architecture; no per-seat fees; perpetual license model
Speed to market (AfCFTA / global)	Trade Document Vault + 15-language CRM + logistics integration
Multilingual operations	Native 15-language support with AI translation — no separate localization project
Data sovereignty & security	On-premises or controlled-cloud deployment; WebAuthn; RBAC; full audit trail
Crop loss & disease outbreaks	AI Disease Risk Maps (50 km radius, 6 categories, severity-scored) + automated alerts
Budget overruns & opaque spend	Integrated approval workflow + real-time monitoring + overrun alerts
Decision-making latency	Cross-department AI Data Scans with executive summaries and actionable recommendations

Commercial Model & Service Commitment

Pricing

Deployment Option	Price	Details
Using Our AI Data Center	USD 10 / user / month (min. 5 users)	Annual subscription includes 2 months free — pay 10, receive 12
Using Your Own AI Infrastructure	USD 20,000 / year (on-site training and on-site installation exclude)	Includes all updates & upgrades. Unlimited users — scalability determined only by your compute capacity

What's Included (both options)

Item	Status
All 13 modules	✓ Included
Platform updates & new modules	✓ Included
Implementation & integration	✓ Included
Data migration from existing systems	✗ Excluded
Team training & change management	✓ Included
Standard cybersecurity & storage	✓ Included
Premium dedicated AI compute (beyond standard)	Preferential rate
Custom third-party integrations	Scoped separately

Service Commitments

Commitment	Standard
Workspace provisioning	Within 10 business days of agreement
Data migration support	Included; scoped per existing systems
Team training	Customized program at Deko Training Center or on-site
Platform availability target	99.5%
Support channel	Dedicated Platform Lead + helpdesk
Updates & new modules	Deployed at no charge
Governance review	Quarterly executive review

Net position: A six-figure annual enterprise-software benefit — a structural advantage that improves the return on every other investment you make.

Next Steps & Final Note

Activation Roadmap

Step	What happens	Timeline
1	Discovery call — 45-minute strategic session with your leadership team	This week
2	Operations mapping — we map your value chain to the Five Pillars	Week 1–2
3	Customized proposal — tailored roadmap, activation sequence, commercial terms	Week 2–3
4	Agreement & activation — workspace provisioned, data migrated, team trained, live	Week 3–6

Five Pillars AI is free for tenants of Deko Agro-Industrial Park.

The future belongs to the documented and the transparent.

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