

Agriculture — Farm Operations Technical Overview

Customer-facing technical overview of the Agriculture module: farm hierarchy, agronomic cycles, livestock vaccination compliance, harvest capture, KPI reports, profitability, and integration with procurement, sales, and CRM.





Core Farm Structure



Farm

Legal and production unit representing the primary operational entity.



Field Plot

Parcel or block under a farm designated for crop planning and management.

Production Operations



Crop Cycle

Seasonal production cycle per plot, tracking planting and harvest windows.



Livestock Animal

Animal registry linked to herd management and health tracking.



Vaccination Record

Vaccine events ensuring compliance and traceability requirements.



Harvest Record

Crop output capture forming the basis for yield and profitability calculations.

Integration Points

Connect farm operations with procurement, sales, and customer relationships through seamless workspace links.



Customer

Offtake buyer and aggregator relationships managed through CRM.



Purchase Order

Inputs including seeds, fertilizers, feed, and medications tracked.



Sales Invoice

Crop and side-product commercialization documentation.

Business Flows

01

Farm Structure

Define farm and delineate plots with GIS references.

02

Arable Crop Season

Crop cycle planning, inputs via purchase orders, harvest logging.

03

Livestock Herd Health

Animal registry, vaccinations, regulatory reporting.

04

Profitability

Harvest values combined with cost drivers for margin analysis.

05

Compliance

Vaccination schedules and global farm summary reporting.

Key Personas



Farm Manager

Oversees plots and crop cycles, coordinates field operations.



Agronomist

Focuses on yield optimization and input management strategies.



Veterinary Supervisor

Manages animals and vaccination programs for herd health.



Finance Desk

Handles purchase order to invoice chain and financial reconciliation.



Compliance Officer

Monitors vaccination and compliance KPIs for regulatory requirements.

Implementation Scenarios

1 New Farm Onboarding

Enter Farm master data and subdivide plots as Field Plots with GIS references.

2 Season Planning

Initiate Crop Cycles with sowing and target harvest windows per plot.

3 Harvest Benchmarking

Capture Harvest Records and analyze Crop Yield Report versus historical cycles.

4 Vaccination Program

Maintain Livestock Animal registry, issue Vaccination Records, monitor compliance status.

5 Farm Economics

Combine harvest values with input costs through Farm Cost Profitability analysis.

6 Regulatory View

Leverage Global Farm Compliance Summary for portfolio-level KPI reporting.



Reports & Insights

Crop Yield Report

Output versus area and cycle based on Harvest Record data.

Vaccination Status Report

Compliance tracking and overdue vaccination backlog identification.

Farm Cost Profitability

Margin analysis per harvest cycle with cost drivers.

Global Farm Compliance Summary

Aggregate compliance posture across all farms and operations.

Key Performance Indicators

Yield/ha

Yield per Hectare

Output per plot measurement

Vaccinatio...

Vaccination Coverage

Herd compliance percentage

Cost Ratio

Input Cost Ratio

Cost versus revenue estimate

Timeliness

Harvest Timeliness

Planned versus actual variance

Top...

Customer Value

Top contributors to sales

Delivery Artifacts



Technical Overview

Complete documentation of Agriculture module functionality and architecture.



Field Data SOP

Standard operating procedures mapped to Crop Cycle and Harvest workflows.



Visual Guides

Screenshots demonstrating key processes and user interface elements.

