

AUTOFARM™

Inspired by life, for life.

The Vision

Toward a Global Cognitive Protocol for Agricultural Standardization

*Beneficiary of an Innosuisse Mentoring Voucher (Swiss Innovation Agency)
Project N° 136.046 IMIA-ENG*

*Version : 1.25 - 2026-05-17
Background IP : Jan Affolter ITS (CHE-104.801.264), owner of the AUTOFARM project.*

The Vision

A vision that opens a possible future

There are projects that do more than provide a solution. They reveal a possible future. They show what a system could become if we choose to make it evolve rather than endure it. This document belongs to that rare category.

It does not merely describe an architecture or a protocol. It outlines the contours of a world where agriculture, health, and nutrition no longer operate in silos, but as a living organism — capable of learning, adapting, and protecting the populations it serves.

As you read these pages, you will discover a system that connects farms to one another, that lets field data converse with market signals, and that transforms every local observation into collective knowledge. What you are about to read is not an abstraction: it is a concrete, possible trajectory, already in motion.

Imagine...

Imagine an agriculture where every decision — sowing, irrigating, treating, harvesting — enriches a collective intelligence that improves with every cycle. An agriculture where soil data, climate data, yields, markets, and even the nutritional and health needs of populations no longer remain isolated. They become living knowledge — shared, connected, immediately actionable.

Imagine a system where every farm progresses thanks to the others, where every territory gains resilience, and where every data point strengthens collective performance. A system capable of anticipating risks, optimizing resources, and aligning agricultural production with real nutritional and health needs.

This is the vision carried by AUTOFARM.

A project that does not seek to replace what exists, but to reinforce it. A project that offers a path to secure food resources, support farmers, anticipate crises, and align production with the real needs of populations.

Some projects are important. Others are necessary. And then there are those that, by their very nature, call to be understood, supported, and extended — because they touch what underpins the stability of a society: its ability to nourish, protect, and anticipate.

AUTOFARM is one of those projects.

Toward a Global Cognitive Protocol for Agricultural Standardization

An Emerging Global Protocol

AUTOFARM is not limited to optimizing farms or aggregating data. By orchestrating distributed technologies, evolving ontologies, sovereign knowledge graphs, and an antifragile cognitive learning system powered by frugal cycle capture and field tools (IoT sensors, robots, drones used both for measurement and operational execution), the system gradually creates a **shared language** between farms, regions, financial institutions, and actors across the food chain.

This shared language — built from definitions, invariants, cycles, responses to shocks, and operational standards — becomes, in practice, a **reference protocol**. It enables different regions to compare their situations **without sharing their data**, to align their practices **without standardizing their contexts**, and to synchronize their decisions **while preserving full sovereignty**.

As the network expands, this protocol acquires a rare property: it becomes **self-reinforcing**. Each new region enriches the global knowledge base, each cycle improves the precision of recommendations, and each actor progressively adopts the same standards of measurement, evaluation, and remediation.

Without ever imposing it, AUTOFARM creates the conditions for the emergence of a **global protocol for agricultural standardization**, grounded in sovereignty, interoperability, and collective learning. A protocol capable of unifying practices, reducing systemic risks, and aligning agricultural production with real nutritional and health needs.

This is not a platform. It is a **cognitive infrastructure** from which a global standard emerges.

A Lean Enterprise by Design

AUTOFARM was conceived from the outset to be **extremely lean** in every dimension. Operations rely on standardized, reproducible processes; the technological architecture is distributed and modular; and each region operates its own instance without central overhead. Data does not circulate: only **learning** propagates, reducing costs, risks, and regulatory constraints.

Governance remains lightweight, based on standards rather than complex structures, and development follows a modular, iterative logic focused on **direct value for farms and territories**.

This (extremely) lean approach is not an aesthetic choice: it is a **structural requirement** for a global protocol to emerge, spread, and remain sovereign, effective, and economically viable.

Project Ownership

Owner & Founder: Jan Affolter — jan.affolter@autofarm.global

Intellectual Property Holder: Jan Affolter ITS (CHE-104.801.264)

Location: Lausanne, Switzerland

Web site : <https://autofarm.global>