



SMART AGRICULTURE

maximizing yields and sustainability
through the ELMS

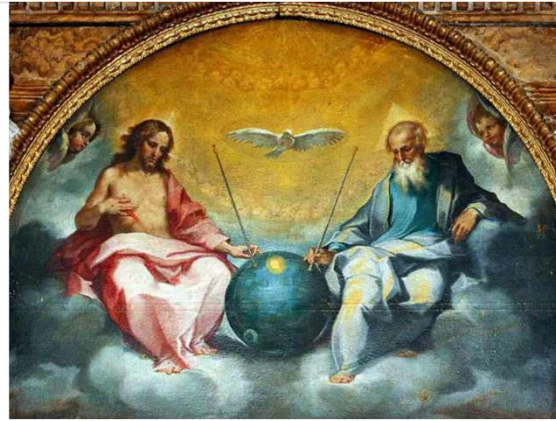
A MapStory-style roadmap: from satellite
monitoring to shared decisions

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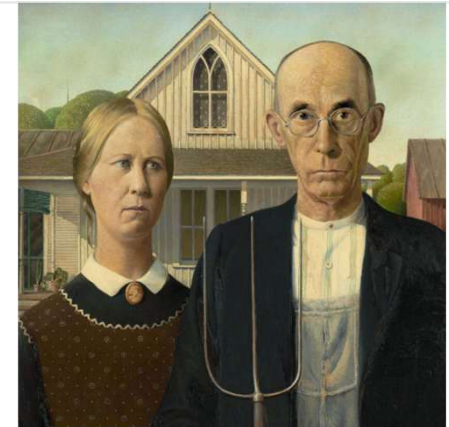
From control to prevention – AMS 1.0



Classic controls
after-the-fact verification



Satellite monitoring
area, activity and
compliance signals



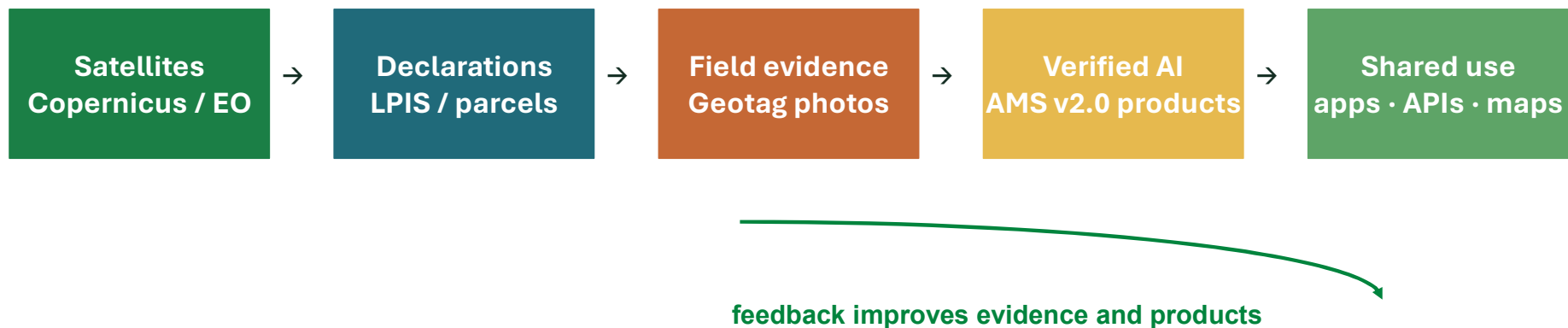
Prevention
early warning and
correction before deadlines

AMS 1.0 changed the control process: fewer unnecessary field visits, fewer surprises for farmers, but still limited feedback loops.



From AMS to shared intelligence – AMS 2.0

The data itself is not the value — the value is a shared decision loop.



LAND

soil, water and biodiversity signals

PROFIT

yield zones and risk planning

SUPPORT

fewer surprises, fewer reductions

Core principle: publish what can be safely shared; govern what could be misused.



AMS 2.0: products that can change decisions



Reusable decisions for farmers, agencies, certifiers, business and science.



Organic parcels

Certification bodies

Risk-based inspections

Preliminary crop

Paying Agency

Earlier advance payments

Soil moisture / health

Farmers

Field operations &
resilience

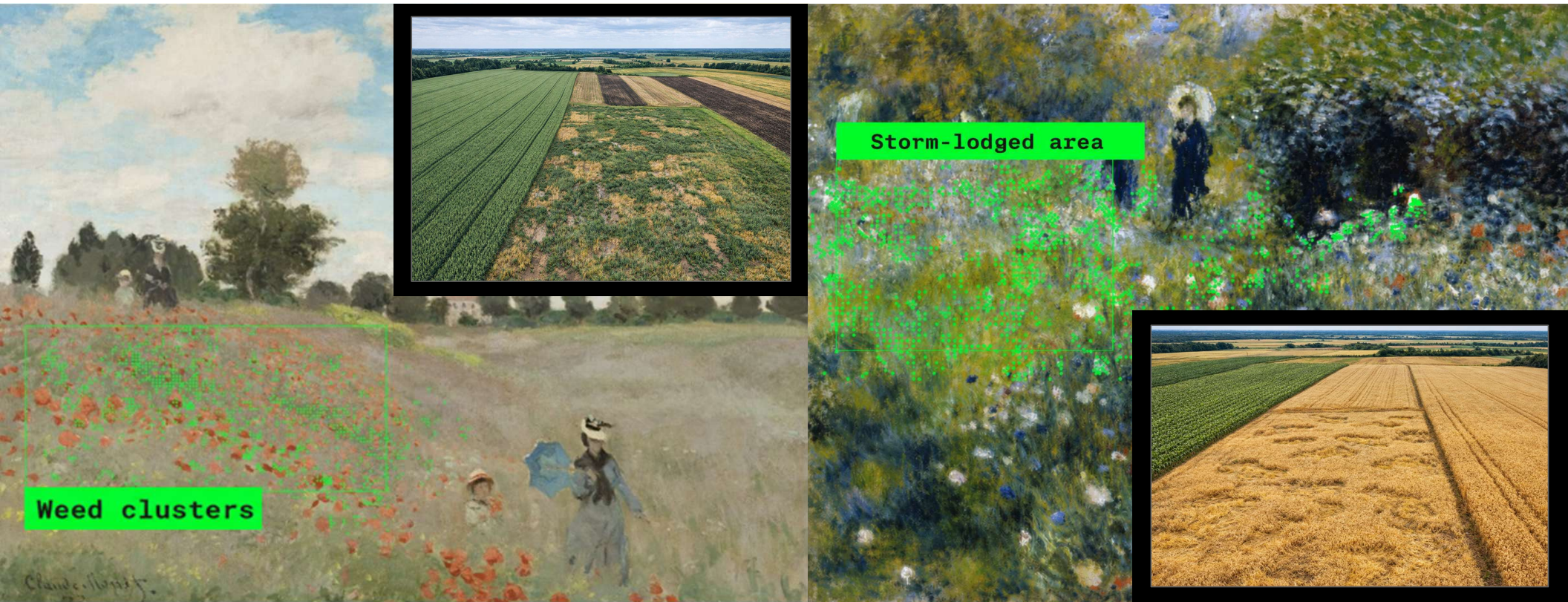
Yield zones

Farmers / advisers

Variable-rate inputs



Evaluation of crop quality and Estimated damage of storm-lodging



Soil health and moisture status



Factors of reduced yield and Stubble identification



Significant crop heterogeneity

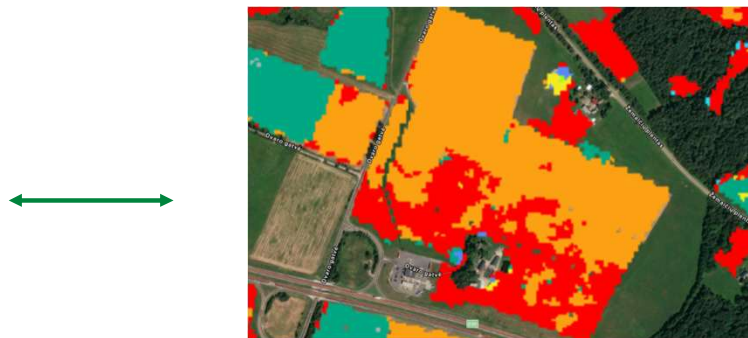


Integrated NPA ecosystem: the front door

Everything lands in one place that farmers and institutions can actually use.



GeoTag Photo
farmer → NPA evidence



38k+ GTP app
users

14k+ AMS v2.0
visits

ALNSIS 2.0 / NMA Agro
NPA → farmer · public layers

**NPA
information
portal**



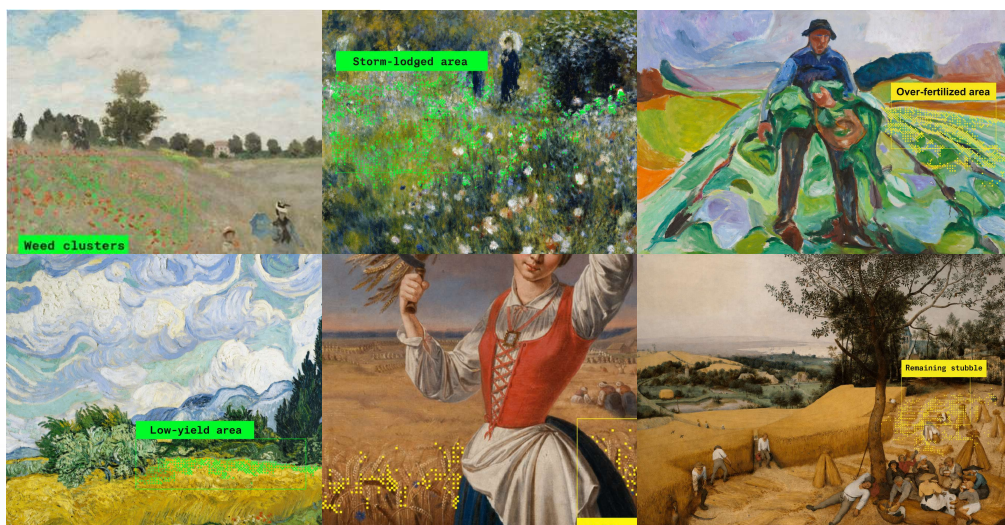
Portal
farmer ↔ NPA ↔ institutions

From one-way monitoring to a two-way data ecosystem.



Communication and trust

Data sharing works only when users understand the benefits and the safeguards.



“Which marker detects the low-yield zone here?”

Conferences

public explanation of the data

Demos

practical farmer-facing examples

Podcasts

a lighter channel for trust

Art campaign

memorable entry point to AI products

Open where useful. Protected where necessary.

OPEN

public maps ·
aggregated analytics

SHARED

institutional data
exchange

PROTECTED

farm-level sensitive
data



Future roadmap: towards AMS 3.0 and ELMS

From maps to reusable services — and from individual projects to one decision ecosystem.



Farmers
plan before problems
become sanctions

Institutions
integrate instead of
requesting screenshots

Policy
target measures with
evidence

Markets
verify activities and
credits



www.alnsis.lt



Scan for AMS 2.0



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Ministry of Agriculture



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