

The logo consists of two blue curved lines, one above and one below the word "CORVIAN".

CORVIAN

Agricultural Portfolio Intelligence **at Scale**

Solution Brief for Agricultural
Financial and Insurance Providers

The background of the entire page is a composite image. It shows a satellite with gold-colored solar panels in the upper right, emitting a bright blue beam of light down onto a patch of farmland on the Earth's surface. The Earth's horizon is visible, with a layer of white clouds. In the upper right corner, a large, detailed image of the Moon is visible against the starry background of space.

corvian.com

What Is **Really Happening** Across Your Agricultural Portfolio?

Every growing season, the same problems repeat across agricultural portfolios.



The wrong crop was planted, or nothing was planted at all



The grower missed the planting window and skipped the season to avoid poor yields



Yield performance dropped early, but no alert was triggered until harvest



The financed land overlaps indigenous territory, embargoed zones, or environmentally restricted areas

None of this information surfaces until field agents arrive at year end, by which point the season is over, the exposure has materialized, and the options are limited.

These are not unique cases. They happen every season, across portfolios of every size. And most institutions only find out once the financial impact has already hit their portfolio.

Corvian's technology changes this. This brief explains how, and what it means for institutions that carry agricultural risk.

“If you can't see what's happening in the field, you're not managing risk, you're reacting to it.”

How Corvian **Enables Portfolio Management** at Scale

Lenders and insurers send their field boundaries to Corvian. They get back verified intelligence at two critical moments:

Phase 1 — Before Credit or Coverage is Approved

- A five-year history of what has actually been grown on that land — or not grown
- Verification that the land is clear of legal, environmental, and social restrictions
- Results available within 48 hours of submitting field boundaries — no manual processing

Phase 2 — Throughout the Season (30 / 60 / 90 / 120-day monitoring)

- Satellite monitoring and predictive models showing what is planted, how it is developing, and whether it matches what was declared
- Early alerts when something looks wrong — wrong crop, no crop, late planting, yield underperformance
- Automated compliance reports, ready for regulators
- Custom alerts for weather, crop health, and predictive model outputs

Key Capabilities

Land History Verification

Five years of satellite vegetation data identifies consistent cultivation vs. pasture, native vegetation, or atypical land use.

Planting Date Estimation

Verifies planting occurred within government mandated windows. Over 80% accuracy.

ESG Verification

Cross-referenced against indigenous territories, embargoed zones, conservation areas, and labor registries — including surrounding areas, not just the financed plot.

Crop Confirmation

AI-powered classification confirms whether the declared crop — soy, corn, wheat — is what's actually growing.

Yield Prediction

In-season forecasts flag underperforming areas before claims arrive.

Automated Compliance Reports

Regulator-ready reports generated automatically. Structured for submission to your local regulatory framework. Nothing to build.

Measurable Impact

Institutions working with Corvian see documented improvements across their operations:

70%

Faster underwriting
cycle times

3X

FTE productivity via
automated workflows

50%

Faster compliance
reporting

15%

Fewer losses
paid out

Why Corvian?

What Sets Us Apart

Proven at enterprise scale

Full history, not a snapshot

One integrated output

Built into your systems

Regulator-ready

ESG without guesswork

20 years of agricultural data

Configurable to your workflows

Why It Matters

24M+ hectares processed to date. Not a pilot — production infrastructure running at scale.

Five years of satellite data on every field. Know what was actually grown there — before you commit to credit or coverage.

Crop verification, planting dates, yield outlook, compliance reports, ESG checks — all in one.

Outputs flow directly into core banking, BI platforms, and client portals. No new tool to manage.

Compliance reports generated automatically, structured for submission. Nothing to build.

Six independent data sources per field, including surrounding areas, not just the financed plot.

25M hectares of model-ready data. 250+ weather stations globally. 3.3B data points processed per hour. 95% accuracy across 159 trials.

Accommodates internal risk rules, credit workflows, and proprietary client models.

How It Works

Corvian provides a fully integrated data service. No new platforms to learn. No manual processes to manage.

01
You Send

Field boundaries
via API

02
We Process

Satellite data, models,
ESG checks

03
You Act

Verified intelligence
back into your systems

Proven at Scale

24M+

Hectares processed to date
across agricultural finance and
insurance portfolios

95%

Model accuracy rate across 159
independent trials

20

Years building agricultural data
infrastructure. Trusted by
leading banks and insurers.

Corvian's tech stack is not a proof of concept. It runs at production scale, integrates into enterprise systems, and handles millions of hectares per season — processing 3.3 billion data points every hour to keep your portfolio intelligence current.

Stop Reacting After Risk is Already Realized.

Talk to our team to see how our technology runs on a portfolio like yours. We'll walk you through the outputs, show you what your fields would look like in-season, and answer your questions — no commitment required.

Talk to our team: partners@corvian.com



Partnership in action:

corvian.com