

PRODUCT OVERVIEW · QUALITY CHANGE PREDICTION

The signs are there before the problem, we identify them in time.

Before most scrap, downtime and customer complaints, there are early warning signs. Omnit's AI-powered Quality Change Prediction identifies these from process, machine and quality data — before the problem occurs.

AI is not a crystal ball: it does not tell you exactly when a failure will happen, but signals the increasing risk in time, so there is time to intervene.

early signal

before the problem

risk indication

not prediction

proactive

time to intervene

human decides

the system only signals

An Implementation Partner, Not a Consultancy

We build systems that solve real business problems — tailored to existing operations, sustainable in the long term, for mid-sized and large enterprises. We do not pursue the most fashionable solution; we pursue the best value for money.

Three Pillars, One Partner

AI Factory

Practical AI for enterprise environments: document processing, automation, customer service, image and video analytics, prediction, intelligent search.

Data Solutions

Reliable reporting starts with well-managed data: ETL, BI, master data management, migration, Data Governance.

Custom Development

Business applications, system integrations, process digitization — from frontend to backend, cloud and hybrid.

What Makes Us Different

- **The team that assesses the project also builds it** — from the first workshop to production.
- **We build systems, not disconnected APIs** — frontend, backend, databases, integrations.
- **We start from real operations, not templates.**
- **Modular approach** — complete systems or individual components.
- **We specialize in projects where the challenge is difficult to define.**

KEY MESSAGE

We start with assessment and finish with a working system — and the same team carries the project from the first workshop to production.

Practical AI with Real Business Value — Not Hype

A generic AI subscription is not the same as AI built around a specific business problem, measured and integrated into enterprise operations. We build the latter: complete AI processing pipeline from your data, testing multiple models on the same dataset and selecting the best value-for-money solution.

Core AI Capabilities

- **Document Processing** — invoices, forms, contracts (typically 80% processing time reduction).
- **AI Automation** — replacing repetitive manual processes.
- **Customer Service & Contact Centers** — AI-assisted responses in Hungarian.
- **Image & Video Analytics** — manufacturing and visual quality control, performance measurement.
- **Predictive AI** — quality and behavioral forecasting.
- **Intelligent Search (RAG)** — enterprise knowledge search with source references.

Ready-Made AI Products

- **AI Invoice Posting** — rule-based, audit-ready coding from images and PDFs.
- **AI Conveyor Monitor** — video analytics for operational performance.
- **Intelligent Chatbot** — hallucination-free, RAG-based knowledge assistant.
- **Intelligent Search Engine (RAG)** — answers from documents, not lists.

Every product and service at a glance

AI Factory brings together AI services; Data Solutions creates order in enterprise data; Development builds custom systems. Every engagement starts with a fixed-price assessment.

AI Factory ARTIFICIAL INTELLIGENCE

ENTRY AND LEVELS

AI Opportunity Check

€1,450 • 1 week

★ ENTRY

AI Compass Audit

From €4,950

ADVANCED

AI Pilot

From €7,950

ADVANCED

CAPABILITIES

Document Processing · AI Automation ·
Customer Service & Contact Center · Image & Video
Analysis · Predictive AI · Intelligent Search (RAG) · AI
Agents & Assistants · Customer Behavior Analytics ·
Anomaly Detection · AI Consulting & Training ·
CRM Solutions

READY-MADE SOLUTION

AI Invoice Posting · AI Conveyor Monitor ·
Intelligent Chatbot · Intelligent Search Engine

Data Solutions DATA MANAGEMENT

ENTRY

Data Assessment

From €1,450 • 2–3 weeks

★ ENTRY

CAPABILITIES

Data Preparation & Processing (ETL) · Business
Intelligence & Reporting · Data Cleansing & Validation ·
Master Data Management · Data Migration Management ·
Data Analytics · Oracle & Database Expertise · Specialized
Data Project Management · Data Governance

READY-MADE SOLUTION

CER — Material Master Data Gateway: SAP master
data framework (45 days → 4.5 days)

Custom Development CUSTOM DEVELOPMENT

ENTRY

Solution Concept

From €1,450 • 2–3 weeks

★ ENTRY

CAPABILITIES

UI/UX Design & Business Application Development ·
System Integration · Document & Workflow Management ·
Cloud & Hybrid Solutions · Data Protection & GDPR
Compliance · Handwriting & Form Digitization

READY-MADE SOLUTION

DOCMAN: Enterprise Document Management (Case
Management, QES, Company Gateway)

Early signals in time — AI is not a crystal ball

The system identifies the early signs of deterioration from process, machine and quality data — playing three roles at the same time.

- 1 Early deviation detection**
Identifies the early signs of deterioration from process and machine data — before the alert threshold is reached.
- 2 Risk indication**
It does not predict the exact moment: it signals increasing risk, so there is time to intervene.
- 3 Human decision**
The system does not decide on the intervention: it signals the risk and provides the relevant context — the decision remains with the human.

IMPORTANT DISTINCTION

The core of this approach is honesty: AI is not a crystal ball. It does not tell you exactly when and what will fail, but signals the increasing risk in time. From process, machine and quality data, it highlights the early signs of deterioration — the intervention is decided by the human.

Three situations where deterioration is only discovered too late

- 1 Only discovered when scrap appears**
The early signs of quality deterioration go unnoticed — the problem only appears as scrap or downtime.
- 2 Unexpected failure**
Machine condition is not continuously monitored — failures happen unexpectedly, and maintenance remains reactive.
- 3 Performance gradually declines**
Performance slowly and unnoticed drifts away — by the time it becomes visible, it is difficult to reverse.

BOTTOM LINE

Scrap, unexpected downtime and customer complaints still cost money today — even though the early warning signs are already there before the problem, often lost in the noise of the data.

Three perspectives, one prediction system — and where the impact can be measured

It is most relevant wherever process, machine and quality data are generated, and where scrap, downtime and customer complaints have a real cost: manufacturing and industry. Decisions are typically made by production management and quality assurance.

Plant / Production Manager

Scrap, downtime and customer complaints are the main pain points — early warning provides immediate value.

Quality / QA Manager

Early identification of quality trends and root cause analysis are the primary benefits.

Maintenance

Early signs of equipment failure make maintenance predictable — instead of unexpected downtime.

Where the change can be measured

Less scrap and downtime

Early warning provides time to intervene — helping prevent scrap, downtime and customer complaints.

Predictable maintenance

Early signs of failure make maintenance plannable — instead of unexpected downtime.

More stable processes

Performance trend monitoring makes deviations visible in time, before they become difficult to reverse.

What it does in practice — the key capabilities

Early deviation detection

Identifying patterns that deviate from the norm in process and machine data — before the alert threshold is reached.

Quality change prediction

Monitoring quality trends: where performance is slipping, which batch or shift is more prone to defects.

Performance trend monitoring

Continuous visibility into key metrics: where performance is stable, where variance increases, where drift begins.

Predictive maintenance

Monitoring machine condition: early signs of failure — planned, not unexpected maintenance.

Root cause analysis

When a deviation occurs, it helps uncover the relationships: which factors appeared together with the deterioration.

Alert and human handover

Signals increasing risk and hands it over to a person with context — the intervention is decided by the human.

— THE DIFFERENTIATOR · THE THREE PRINCIPLES

Three principles — early signal, risk indication, human decision

1 Early signal, not prediction

AI signals increasing risk in time — it does not predict the exact moment, but gives time to intervene.

2 Learns from process data

Works from existing process, machine and quality data — identifying patterns that deviate from the norm and early deterioration signals.

3 Human decides on the intervention

The system signals and provides context — the decision remains with the human.

WHY IT MATTERS

The solution is built on three principles: highlighting early signals (not precise prediction), existing process and machine data, and human decision-making — the system signals, the human intervenes.

Proof of expertise

Core architectural principles

Analyzes time series

It does not look at a snapshot: it identifies early deterioration signals from changes over time in process, machine and quality data.

Works from multiple data sources

It analyzes existing process, machine and quality data together — not based on a single sensor or metric.

Provides context

The system does not only alert: it also shows the relevant relationships behind the signal, so the decision can be well-founded.

ABOUT PRICING — HONESTLY

There is no fixed list price — pricing is project-based, depending on the data sources, use case and integration complexity. The real question is not the price, but how much scrap, unexpected downtime or a customer complaint costs — when the early signals were already there in the data.

What makes QUALITY CHANGE PREDICTION different

Human decides

The system signals and provides context — the intervention is still decided by the human.

Early signal, in time

It identifies early deterioration signals before the alert threshold.

From existing data

It works from existing process, machine and quality data — no new system required.

Honest, not a crystal ball

It does not predict the exact moment, but signals increasing risk — with realistic expectations.

— NEXT STEP

What do the data reveal **before there is a problem?**

In a 30-minute conversation, we review your process and machine data, and show which early signals can be built on. If the solution is not the right fit for you, we will tell you honestly.

Early signal

Highlights early deterioration signals before the problem.

Proof: before the problem.

Risk indication

Signals increasing risk — not the exact moment.

Proof: risk indication, not prediction.

Human decision

The system signals, the decision remains with the human.

Proof: the decision belongs to the human.

WEB

omnit.hu

SERVICE

Quality Change Prediction · anomaly detection ·
predictive maintenance · alerts

COMPLIANCE

ISO 27001 + 9001

[Request a consultation →](#)

