

explitia

SOFTWARE

tailored to your production

explitia.com | we produce it

Why **explitia**



we combine consulting,
implementation and
system maintenance in one
cooperation model,



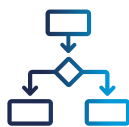
we use the Industry 4.0
practices and combine it with
the know-how of everyday
production,



we design environments that
can be gradually developed
in stages,



we focus on automated
data flow, from machines to
business outcome,



we work flexibly: with self-developed
solutions and technologies from
leading vendors,



we support clients from
concept through development
and service,



we match solutions to the
specific challenges of each plant.

explitia supports manufacturing plants at every stage of digital transformation, tailoring the scope of activities to their needs and challenges. Our offer responds to the specific needs of modern production. It covers consulting, advanced IT system implementation, and maintenance services.



Our offer responds to the specific needs of modern production. It covers consulting, advanced IT system implementation, and maintenance services. We can offer complete products or separate modules and solutions that align with the company's production strategy. We offer a choice between our proprietary platform, Production Portal, or solutions from trusted partners.



Offer

Technology Consulting

We help manufacturing companies make decisions related to digitalization, automation and software development. We begin by identifying the needs and problems of the plant, then recommend solutions with business and operational justification.

Production Portal

An explicit proprietary platform that combines business logic development, data representation and diagnostic tools in one environment. It provides greater transparency, better control over production and easier access to data. The system can be implemented gradually or modularly, growing with the needs of the plant.

Digital Engineering

As independent technology consultants, we support manufacturing plants in designing, implementing and developing solutions adjusted to the specifics of their processes and infrastructure. We work with both proprietary solutions and systems from renowned vendors (including AVEVA). The unique combination of programming and understanding of manufacturing processes allows us to operate at all stages of digital transformation.

Quality and Maintenance

We help companies maintain, develop and securely service IT systems in the plant. We provide ongoing handling of requests, specialist support and the ability to take over servicing of existing solutions – from environment analysis and knowledge transfer to full support in daily maintenance of systems. Depending on company's needs, a 24/7 model with a dedicated team is available.

Digital Product Passport

A digital record of product information: its origin, quality parameters, selected product life-cycle data. We organize the data, link it to the traceability system and prepare it for sharing, e.g. via QR code. It helps you take care of formal requirements and build a competitive advantage based on data transparency.

AI for Production

With AI-based solutions we help companies with failure prediction, error detection, optimization of energy and raw material consumption, and production planning. We aid in assessing where AI can realistically bring value, then implement solutions gradually and safely.

ERP

A proprietary system for service and project companies (approx. 10–200 employees), available in cloud or on-premise model. It facilitates management of projects, sales, finances, resources and information flow, replacing scattered spreadsheets and tools with one coherent environment.



9⁺

**SECTORS OF
EXPERTISE**



30⁺

**OFFERED
SOLUTIONS**



60⁺

SPECIALISTS
programmers, automation
engineers, project managers,
application architects



300⁺

**WORKING
APPLICATIONS**



1000⁺

**IMPLEMENTED
PROJECTS**



explicitia in
numbers



We meet the industry
standard requirements

TISAX AL2

We hold the TISAX Assessment Level 2 (AL2) certificate, confirming our compliance with international information security standards (based on ISO/IEC 27001). The certification covers consulting activities, analyses, and the delivery and maintenance of IT systems for manufacturing plants.

Audit conducted by TUV Nord Polska. Result available on the ENX platform under the identifier: Scope ID: S2X5NX, Assessment ID: ANKP34-1.

- » confidentiality and integrity of information, GDPR compliance
- » risk and security incident management, critical infrastructure protection



Production Portal



Production Portal is an explicit manufacturing platform that builds a central environment for managing data, processes and information in the factory. It brings together data from machines, ERP systems, operator forms and other sources in one place, making daily work easier, improving process transparency and supporting better operational decisions.

Production Portal goes beyond the classic approach to MES systems, as it combines functions related to production management, data analysis, quality, maintenance and information flow. Companies can start with a selected area and gradually expand the Production Portal with additional modules, which makes the implementation more predictable and fit to the reality of the plant.

The aim of Production Portal is to enable companies of all sizes to benefit from the Industry 4.0 possibilities. Thanks to complete, customizable modules and platform, the Production Portal-based project can deliver a ROI in under 12 months.



TRY A FREE
DEMO

Production Efficiency

explitia.OEE

monitor your production efficiency



The module enables real-time monitoring of quality, availability and performance. The system automatically collects data from machines and lines, analyzes downtime and presents indicators in real time. It enables faster response to deviations and more informed management of plan execution without waiting for final reports.

SAMPLE INDICATORS AND DATA:

- » production plan execution
- » downtime and minor stoppages
- » current process deviations, current status of lines and machines

explitia.Orders

plan and distribute production orders



The module facilitates planning, dispatching and ongoing control of production order execution. It integrates with ERP or works as a standalone order management source. The planner gains a full overview and the ability to react quickly, while the operator gets clear information for execution and progress reporting.

EXAMPLE FEATURES:

- » splitting orders into operations and assigning to resources
- » execution and reporting in real time

Media Management

explitia.EMS

monitor your media consumption



The system enables real-time monitoring of energy and other media consumption (electricity, water, gas). It collects data in real time, converts it into costs taking tariffs into account, and presents it in a clear format. It also handles ESG reporting and carbon footprint tracking.

BASIC FUNCTIONS:

- » analysis of energy parameters, anomaly identification
- » allocation of media costs to orders and products



explicitia.Andon

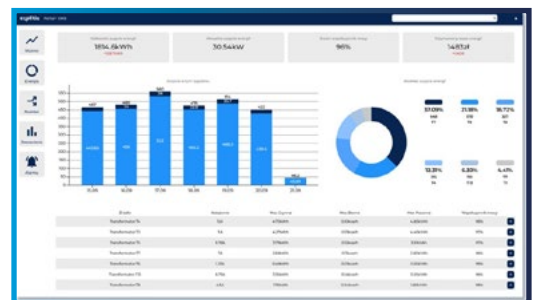
improve information flow
on the manufacturing
shop floor



The system supports rapid response to failures, quality problems, material shortages and the need for assistance at workstations. It enables event reporting by the operator or automatically from machine and sensor signals. Each report can be assigned, escalated and analyzed.

BENEFITS:

- » immediate visibility of problems on the production line
- » standardized response, reduced downtime
- » historical data for process analysis and improvement



Production Quality

explicitia.SPC

ensure process
stability



The module enables real-time monitoring of process stability and early detection of quality deviations before the problem transforms into defects, rework and complaints. It handles statistical process control with data from machines, ERP, MES and Excel files. If a deviation is detected, it can generate notifications or forward the event to CMMS.

RESULTS:

- » reports, trends and data for quality, operational and audit actions



Logistics

explitia.Qsystem

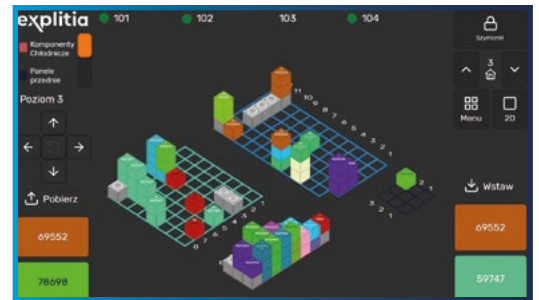
streamline internal production logistics



The module facilitates management of material flow between the warehouse, buffers and production, where delays, mistakes and time losses occur most frequently. It allows real-time tracking of the materials, palletes and batches location.

BENEFITS:

- » operation according to FIFO and LIFO principles, automatic location selection
- » fast search of material units and inventory levels
- » reduction in the number of errors and better control over material flow



Workflows

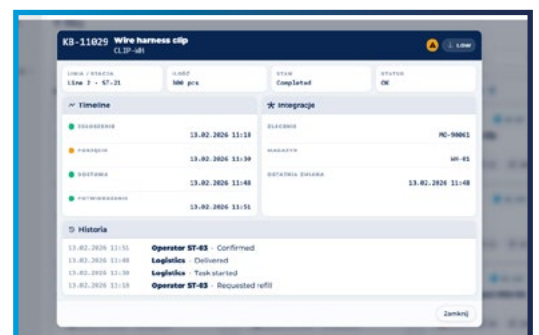
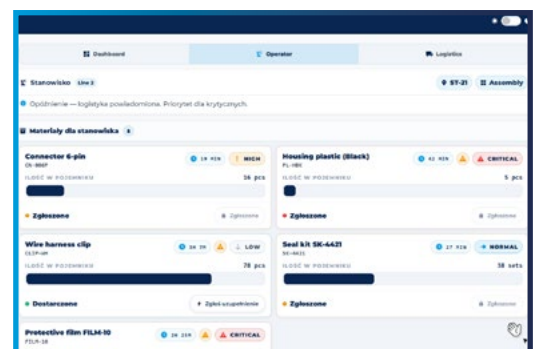
explitia.eKanban

streamline material flow between departments

Digital handling of material call-offs: the operator reports a need via interface, QR or RFID, logistics immediately receives a task with information about the delivery location and priority. It replaces paper Kanban with a digital flow of statuses and requests.

EXAMPLE FEATURES:

- » task queue for logistics, real-time status tracking
- » dashboard with active tasks, delays and execution time



Maintenance

explitia.CMMS

control maintenance and failures

A scalable solution organizing failure reports, inspection planning, intervention history and accountability for completed actions. Reports registered manually, via a QR code or automatically after integration with OEE.

BASIC FEATURES:

- » planning of inspections and cyclic activities, maintaining machine history
- » step-by-step checklists, MTTR and MTBF analysis
- » formal handover of responsibility between production and maintenance

explitia.PDM

support for predictive maintenance

The system monitors machine condition (including vibration analysis), analyzes consumption trends and helps plan maintenance activities based on real data. Instead of rigid schedules you have service based on the actual condition of devices.

CORE FEATURES

- » real-time condition monitoring, notification generation
- » prediction of the time for inspection or replacement, access to reports and alarm history

Operator Support

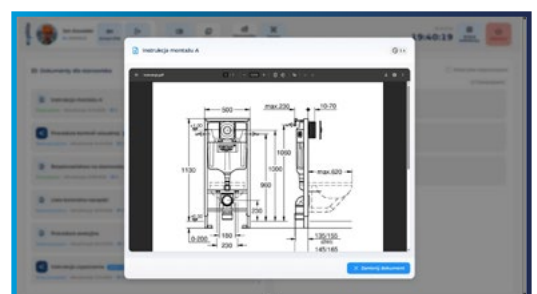
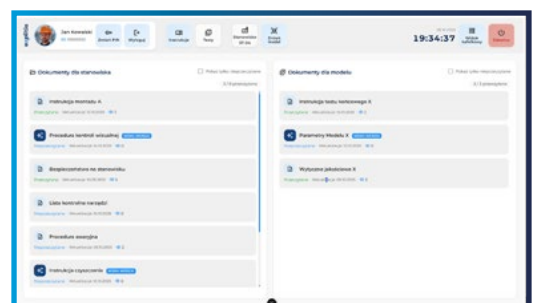
explitia.E-Instructions

facilitate access to up-to-date instructions at the workstation

The module facilitates digital management of workstation instructions and organizes knowledge flow on the production floor. The operator always uses the current version of the document, without searching for paper procedures. Documents are available from the browser and operator panels.

EXAMPLE FEATURES:

- » assigning instructions to workstations, machines and processes; version management
- » interactive guidance through work stages, knowledge tests, reporting
- » support for operator training, onboarding new employees and quality audits



We Build Dedicated Solutions

explitia.TRC

track the product at every stage of production

The system supports product traceability throughout the entire production process. It enables quick reconstruction of the history of a specific item, batch or serial number – what materials the product was made from, what stages it went through and what machines it was associated with.

BENEFITS:

- » integration with ERP, warehouse, orders and SPC
- » faster handling of complaints, batch recalls and quality audits

explitia.Forms

digitize data collection on the production floor

The system transfers manual data collection (cards, sheets, notes) to digital forms tailored to a specific workstation or plant area. The collected data can then be used in reports, analyses and visualizations.

IMPLEMENTATION CONTEXT:

- » works everywhere where data cannot be collected automatically from the machine

We Integrate Production with Logistics

explitia.Production

eliminate manual production reporting

The system enables the collection, presentation and analysis of data on the manufacturing process – quantities, parameters, orders, operators, OK/NOK statuses. Data collected automatically from machines or entered manually where the process requires it.

BENEFITS:

- » works where recording quantities and parameters is important, without full traceability of each item

explitia.WMS

organize warehouse operations and material flow

The module organizes receipts, issues, material statuses and the flow of raw materials, semi-finished products and finished goods. It integrates warehouse operations with the production rhythm, reducing delays and ad-hoc actions.

BENEFITS INCLUDE:

- » handling of production supply, buffer replenishment, warehouse rules
- » possible just-in-time support, integration with planning and reporting

explitia.Lims

gain full control over quality and testing

The module organizes tests, results, specifications, samples, documents and laboratory resources in one place. It facilitates the planning of analyses, conformity assessment and oversight of what happens in the laboratory and in quality areas related to production.

MOST IMPORTANT FEATURES:

- » scheduling of test orders, comparing results against specification
- » calibration control of instruments, management of samples and certificates

explitia.APS

optimize production planning and scheduling

The system enables advanced production planning and scheduling taking into account constraints, dependencies and priorities. The planning logic is designed around the specifics of a particular plant, thus responding to the real needs of the organization.

RESULT:

- » optimization of order sequences, reduction of changeover losses
- » integration with production execution, warehouse and reporting

explitia.Integration

integrate existing systems

The module organizes data flow between ERP, production, automation, warehouse, laboratory and sensors. It enables automatic exchange of information about orders, plans, execution, quality and efficiency – reducing manual data re-entry and the risk of discrepancies between systems.

BASIC FEATURES:

- » order retrieval, progress reporting, data return to superior systems

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MORE INFORMATION: [EXPLITIA.COM](https://www.explitia.com)

Digital Engineering





We help manufacturing companies organize and develop their technological environment by designing a coherent approach to data, processes, device communication and tool integration. We combine programming knowledge with an understanding of production processes, making technology a practical support for production.

As independent technology consultants, we do not start with the tool, but with the need. We analyze the current situation, data flow and process course, then recommend specific solutions. We guide the client through the entire change process, from identifying needs, through design and implementation, to development and service.

WE WORK WITH **AVEVA**, **COPA-DATA**, **SIEMENS**, **MPDV** AND OTHERS.



SCHEDULE A DISCOVERY
MEETING



We Tailor IT Solutions to Your Needs

MES-class Systems

Through analyzing the needs of the organization, we help select and implement a MES system tailored to the specifics of the plant – from modernizing an existing environment, through implementing a new system, to creating a dedicated solution.

A MES CLASS SYSTEM ENABLES:

- » operation registration, performance monitoring, downtime and failure tracking
- » operational documentation management, traceability, reporting
- » automatic data collection from machines and devices

SCADA Systems

We select, design and implement SCADA solutions adjusted to the specifics of the process and infrastructure. The SCADA system becomes a real tool supporting the safety, efficiency and quality of production.

A WELL-IMPLEMENTED SCADA ALLOWS FOR:

- » integration with machines, sensors and PLC controllers
- » operator visualizations, alarming and data archiving

Reporting

Automatic, historical and cross-sectional reports adapted to the reporting structure and standards of the factory. Data in the appropriate context (machine, operator, order, process) supports operational and business decisions.

A REPORTING SYSTEM ENABLES:

- » efficiency reports, causes of downtime, traceability
- » selection of visualization form to meet user needs

SMS Notification System

Automation of sending information about failures and deviations from standards directed to appropriate persons. Integration with automation devices, configuration of variables and alarm thresholds, sending to designated recipient groups.

Digitization of the Machine Park

We collect data directly from existing devices from various manufacturers and standardize their flow to IT systems. As part of OPC communication, we also implement solutions for secure data exchange between automation and IT systems.

RESULT:

- » standardization of data sharing, integration of automation with IT
- » analysis of electrical documentation, identification of signals and data sources

ERP Data Synchronization

We design and implement a coherent model of information exchange between the ERP system and the production environment – orders, progress, quality, efficiency. Elimination of data duplication and manual data entry.

IT Infrastructure Build

We design the technical environment necessary for implementing and developing IT systems in the plant: infrastructure audit, hardware selection, server architecture, security (OT/IT separation, redundancy, backups), documentation.

Dedicated Software for Industry

Analysis of needs and process specifics, design of functionality together with users, integration with MES/ERP/SCADA, implementation and further development. For places where ready-made solutions do not fully meet the needs of the organization.



AVEVA

We have certified competencies in designing, implementing, developing and integrating AVEVA environments. We work both in an end-to-end model and as project support for integrators, machine manufacturers and operational teams.





AVEVA System Platform

Creating a coherent data and process management environment: designing architecture, organizing application logic, data integration, migrations and modernization of existing solutions.

AVEVA InTouch

Design, development and modernization of HMI/SCADA applications tailored to the specifics of the plant. Creation of operator screens, integration with PLC, adaptation to changes in process and infrastructure.

AVEVA MES

Integrations with ERP and automation, configuration of functional areas, development of the environment supporting daily production supervision.

AVEVA Enterprise Integration

An integration layer organizing data exchange between production and business systems. Data flow analysis, MES-ERP integration design, scenario configuration, stability testing. Handles orders, BOM, production parameters, APIs and message queues, among others.

AVEVA Work Tasks

Creating digital workflows, forms and operational processes in MES systems. Paper and email processes moved to one coherent environment.

AVEVA Historian

Secure collection and long-term storage of process data. Configuration of sources, integration with systems, preparation of the base for reporting and analytics.

AVEVA PI System

An operational data platform connecting SCADA, MES and other sources into one environment. Building PI architecture, resource modeling in Asset Framework, dashboards, KPIs, trends and alerts.

Project Support and AVEVA Subcontracting

InTouch and System Platform development, screen standardization, Wonderware migrations, MES-ERP integrations, architectural consultations – as an extension of the client's team or as a subcontractor for a defined scope.



Technology Consulting

Technology consulting is the first step towards a conscious and well-planned digital transformation of the plant. It covers analysis of the current situation, process and data source flows, and the preparation of a digitization roadmap taking into account budget, ROI and real operating conditions.





Pre-implementation Audit

An analysis stage that allows precise definition of the project scope before implementation or the purchasing process. It organizes requirements, clarifies assumptions and prepares the foundations for an informed choice of solution and estimation of investment costs.

- » project goals, function scope, data sources, cooperation with ERP and machines
- » the outcome may be a requirements document, refinement of the implementation scope or a phased plan

Technology Change Management

Effective transformation requires taking into account the human aspect, not just the technical one. We support companies in preparing the organization for the implementation of new technologies, training, onboarding and monitoring of adaptation.

- » communication of the purpose and scope of change, engaging employees
- » change leaders, adaptation monitoring, increasing acceptance of new tools





Quality and Maintenance

We focus on ensuring that IT systems in the plant operate stably, are properly maintained and can develop along with the needs of the organization

IT Service

We provide ongoing handling of requests, specialist support, failure resolution and technical consultations. Clients receive a dedicated team familiar with the specifics of their production environment. In every model we guarantee at least one person on stand-by. 24/7 support is available.

We tailor the scope, availability time and level of involvement to the requirements of a specific organization.

Outsourcing

We provide staff augmentation, giving you access to experts without the need to maintain a full-time team. We support environment analysis, knowledge transfer, documentation supplementation, procedure preparation, and a gradual takeover of system service responsibilities.



Industries

We work with international and domestic manufacturing companies from various industrial sectors, adapting solutions to the specifics of the process, quality requirements and the method of organizing work. We work with both continuous and discrete production.

OUR EXPERIENCE INCLUDES, AMONG OTHERS:

- » automotive and foam seat production
- » food: dairy, bakery-confectionery, grain-milling
- » glass and ceramic
- » furniture and cosmetic
- » electronics and home appliances
- » defense and chemical industry

The starting point is not the industry itself, but the business needs, the method of running production and the goals related to digitalization. We aid in diagnosing the waste causes, and then select the optimal software implementations to address the identified issues.



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know more?

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explitia

Do you want to eliminate production waste and visibly reduce the production costs?

Are you looking for a reliable system for your production plant?

Are you searching for an experienced partner for digital transformation of your production?



CONTACT US

OFFICE:

Bytomska 88
41-940 Piekary Śląskie
Poland

HEADQUARTERS:

Pod Lipami 29
41-940 Piekary Śląskie
Poland
TAX ID: 498-02-75-942
DUNS (989508578)

+48 794 795 745
contact@explitia.com
explitia.com