

# DIGIT.IO

Explore an integrated **Manufacturing Operations Management**, platform that will help you take full control of your business.





## Advanced scheduling, statistical analysis and production forecasting. Introducing the digital twin of your factory.

Digital Twin is a faithful digital reflection of reality in a selected area. In the case of the Digitio Factory system, it is a reflection of the production process. By applying this concept, it is possible to simulate alternative production scenarios in such a way as to select the best possible one, without the need for real-world testing under production conditions. Our system consists of an invisible but crucial backend layer and a visual representation of the production floor, which is also the user interface.



- Supervision of equipment in the automation area such as sensors, readers and other measuring devices that analyze production processes autonomously.
- Ongoing control of the work of operators who operate machines.
- The basis of the Digitio Factory system's operation is the production schedule, supporting the manufacture of products.
- Full scalability of the system - work on any device.
- The possibility of implementing AI algorithms.



## Modern management of your warehouse. Here is a new quality of organization for all key logistics processes.

The primary purpose of the WMS is to support the efficiency of the most important stages of warehouse operations, such as the processes of receiving, storing, picking and releasing goods. WMS software bases its operation on automatic identification technologies( bar code technology, 2D code, or contactless RFID), for fast and error-free identification of products, areas, processes or equipment in the warehouse.



- Efficiency gains of a minimum of 40%.
- Reduction of operator errors to virtually zero.
- Giving up paper documentation.
- Order and transparency in the warehouse.
- Adaptability to the changing environment and needs and scalability to the size of the organization.
- Competitive working conditions - it is simply better to work in a warehouse supported by a WMS system.



COMING SOON

**DIGIT.IO**  
/ control

Manufacturing process analysis, which is based on data extracted online from processes related to product manufacturing and material flow.

**DIGIT.IO**  
/ label

A great suite of solutions with varying degrees of sophistication to streamline the design and printing of self-adhesive barcode labels and even more.

## Joint forces, **new opportunities.**

HKK Group, being the leader of the consortium, has obtained a grant from the National Center for Research and Development for the implementation of a research project entitled "The Future of the HKK Group". Development of an information system for active production control using the Digital Twins concept. The project is implemented under Measure 1.1 of the Operational Program Intelligent Development 2014-2020, co-financed by the European Regional Development Fund.

The aim of the project is to develop a new innovative product in the form of an IT system that enables active production control through dynamic production scheduling and ongoing monitoring of material flow parameters and manufacturing processes. Operation of the system will be based on analysis and decision-making using simulation and decision support methods. The work will be carried out by a consortium consisting of: HKK Group and Consortium: Faculty of Mechanical Engineering of Poznan University of Technology. The project is divided into 5 phases.

The result of the project will be: an information system in line with the Digital Twins concept. The system's functional solutions will allow digital reproduction of real production processes.

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## We just **know how.**

**For 30 years now**, we have been supporting the optimization of logistics and production processes.

We work with Customers in almost every industry and every organization size. Numerous and successfully completed implementations around the world, have allowed HKK Group to create a „one-stop shop” concept, i.e. such an organization of services that customers can achieve a complete optimization effect in their business. It consists of a WMS-class information system, the provision of Auto ID equipment as well as consistent labeling and other materials that are essential information carriers used in logistics and production logistics.

**Explore the 4 main areas of our business:**

### 01/ **IT Systems**

- Warehouse management system - Digitio WMS.
- Production management system - Digitio Factory.
- Blue Yonder solutions for the Retail sector.
- Voice picking optimization.
- Mobile device fleet management.
- Management of code design and printing.
- Codes quality management systems.
- WebSentinel image analysis software.
- Digitization of business processes.

### 02/ **Auto ID devices**

- Automation for logistics and manufacturing.
- Vision systems, image analysis.
- Terminals, tablets, code readers.
- Label printers, code verifiers.
- RFID identification solutions.
- Cubiscan dimensioning devices.
- WiFi networks for warehouses.
- Panel computers for industry.
- Self-adhesive label applicators.

### 03/ **Labels & marking**

- Wayfinding, space branding.
- Interior and exterior signage.
- Warehouse and production labeling.
- Self-adhesive labels.
- Tags and adhesive-free labels.
- Large-format printing.
- Solutions for logistics and e-commerce.
- Health and safety signage.
- Rollups, banners, advertising signage.

### 04/ **Consulting & services**

- Consulting for logistics and production processes.
- Configuration and service of Auto ID equipment.
- Consulting and training for the Retail sector.
- Design and installation of signage systems.
- Design of WiFi networks in large facilities.
- Supporting start-ups of 3PL logistics centers.
- Dimensioning of products and packaging.
- Optimization of production processes.
- Label design, material consulting.



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