



# WorkSys – Open Standardized Interoperable IIoT platform



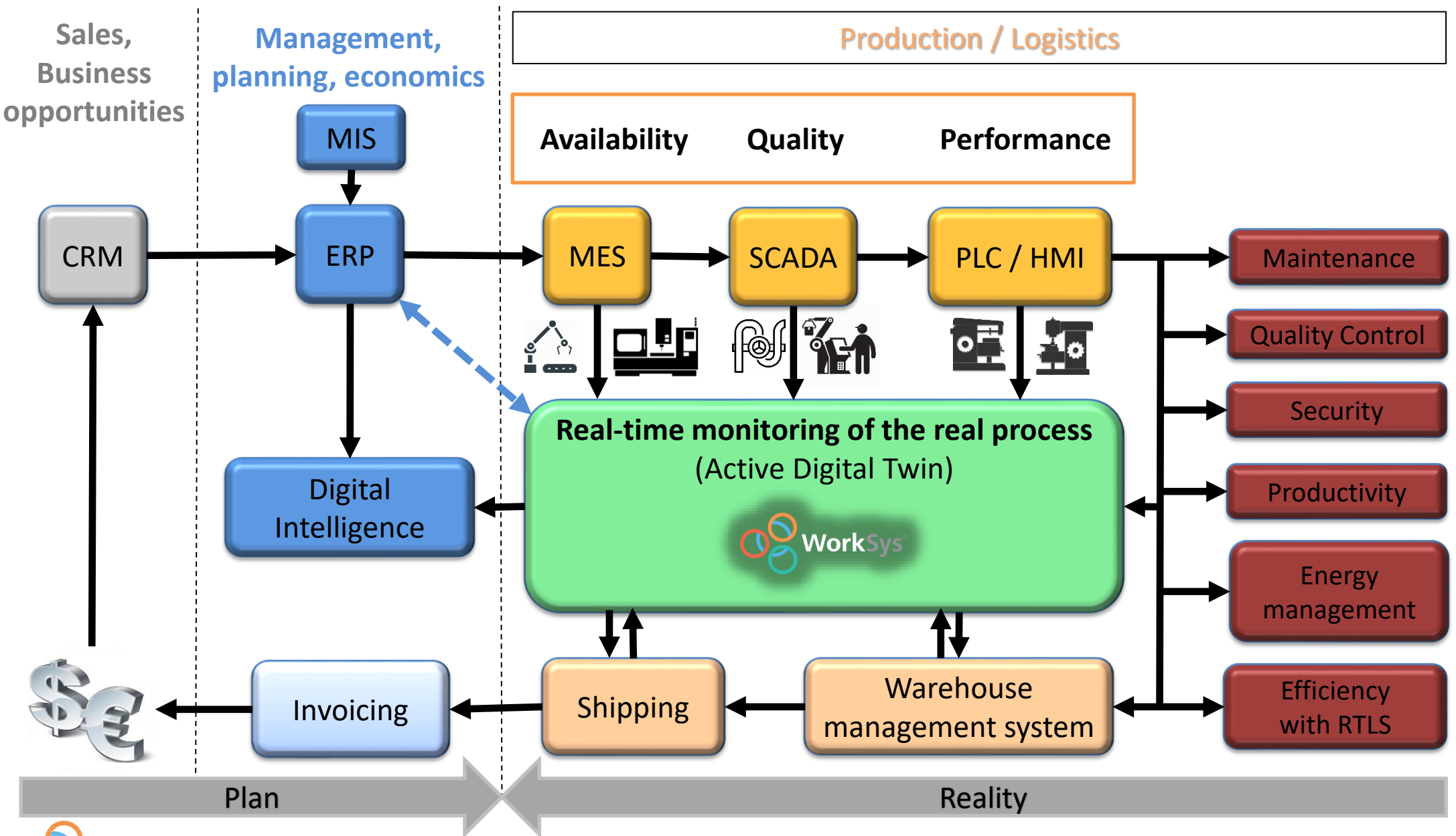
**WorkSys**<sup>®</sup>

Open Standardized Interoperable IIoT platform

WorkSys  
Open Standardized Interoperable IIoT platform

# WorkSys is an excellent digital IIoT tool for truly connecting and optimizing all existing systems in factories

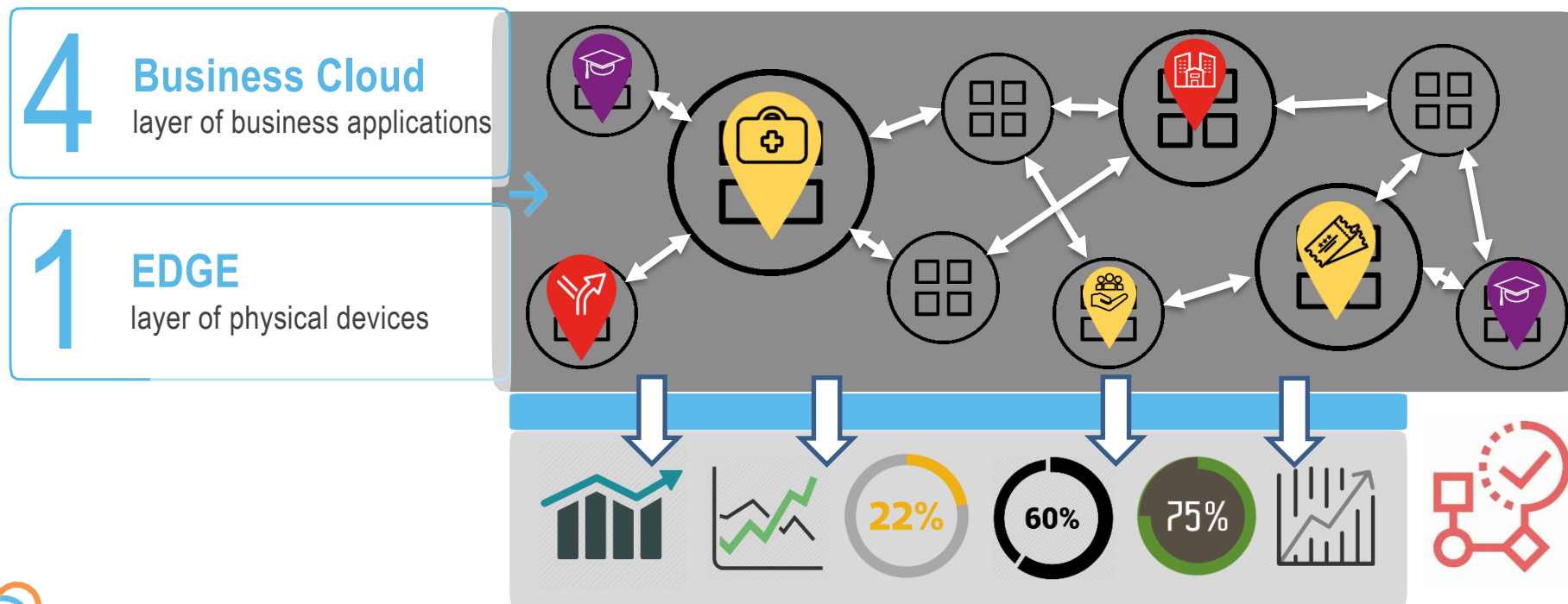
Digitization is already a necessary step



# WorkSys - EDGE layer as a basis for interoperability

Digitization is already a necessary step

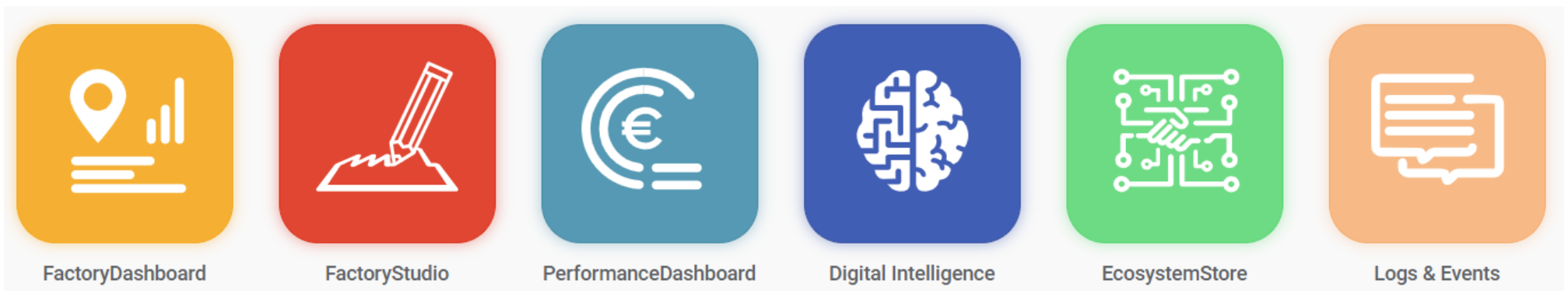
- O**  
**S**  
**I**
- The IoT components and EDGE devices we use guarantee **OPENNESS** and thus easy connectivity of third-party solutions, full-fledged communication between devices, data collection and transmission of automatically collected or calculated data at the platform.
  - Connectivity and integrability is based on the ability to use existing **STANDARDS**, whether technological, communication or IT.
  - Thanks to the interconnection already at the level of the EDGE layer, the communication time is reduced (to the level of ms) and also thanks to this it is possible to realize full application **INTEROPERABILITY** as the highest principle of the whole digitization process.



# WorkSys – what is it?

## Digitization is already a necessary step

- **WorkSys** is pro-integration, data, aggregation, monitoring, visualization platform with control and automation functions.
- It's a whole set of tools for automated data collection, from the EDGE level to the application layer with clear and structured visualization.
- It enables data management and analysis from simple graphical interpretation to complex data analysis.
- The platform enables continuous monitoring of selected parameters with the possibility of their involvement in automated scenarios and control flows.
- The IIoT platform allows you to connect individual systems, machines and other devices into one unit, thus creating mutual communication between them.
- It contains several moduls when all important data is concentrated in one place and it's available through one login.
- It brings you an absolute overview of what is happening in the company in **real time**.



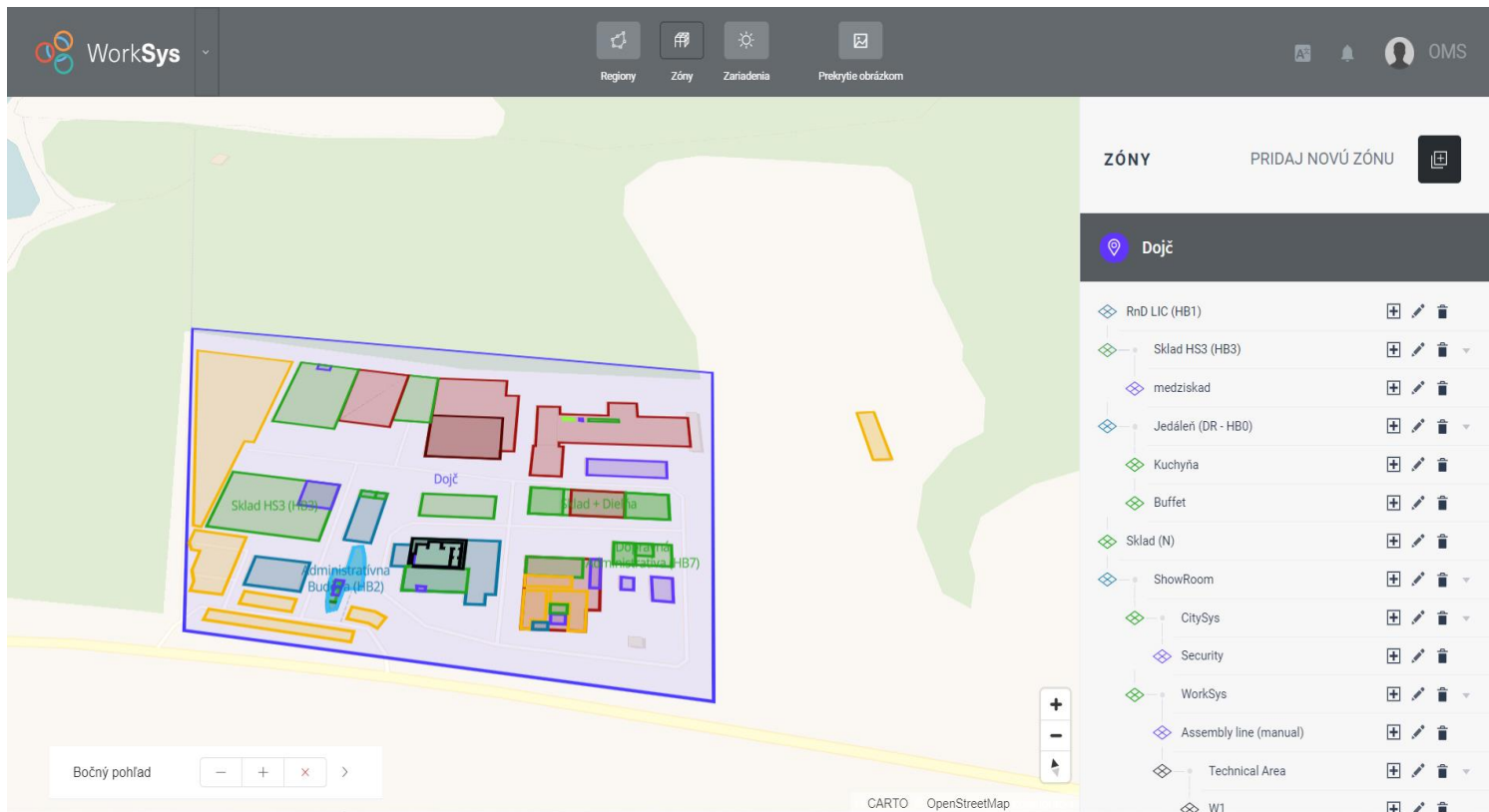
## FactoryDashboard

Clear, easy to use and graphically clean environment, where you will find everything in one place. An overview of all digital points included in understandable categories, a detailed overview of their parameters, status, measurements, performance, all in one place with support for graphical display of key parameters (KPI).



## FactoryStudio

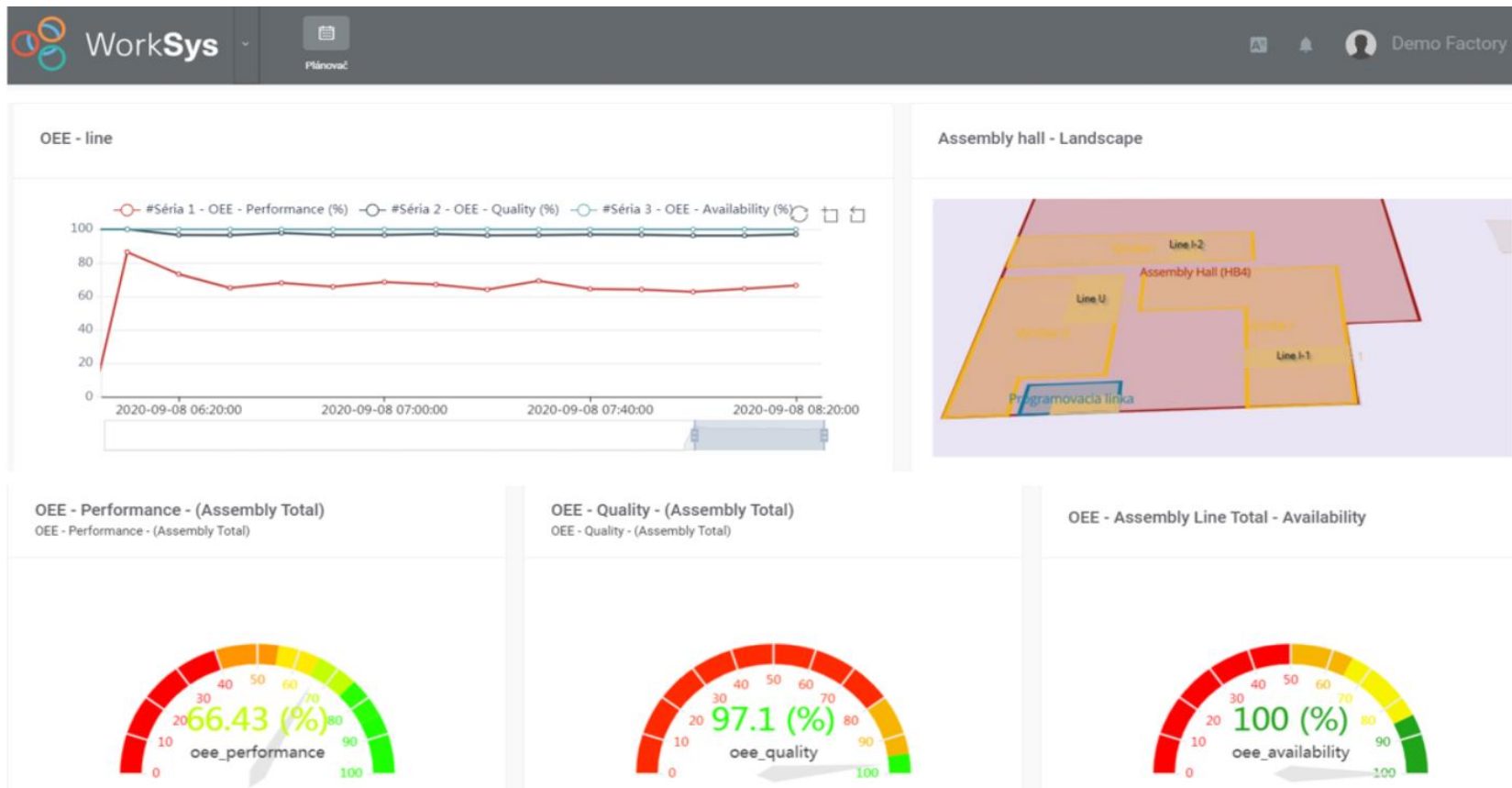
A very user-friendly and efficient tool that will help you at the very beginning of the process of digitizing the company. It allows you to comfortably and efficiently create a digital image of a company with automatic data collection for easy understanding of how things and processes work in context based on the data collected.



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## PerformanceDashboard

A supportive analytics tool that is ready to view KPI data in terms of digital business performance and efficiency management. It's a unique tool with supporting of OEE and simply the best metric for identifying losses, benchmarking progress and improving the productivity of manufacturing equipment.



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## Digital Intelligence

It brings a complex of digital and analytical tools. In the digital world, digital intelligence is the ability to present digital data to realistically oriented, user-centered information. The analysis of data and information makes it possible to understand the current situation very clearly and to point out the trends that condition further prediction.

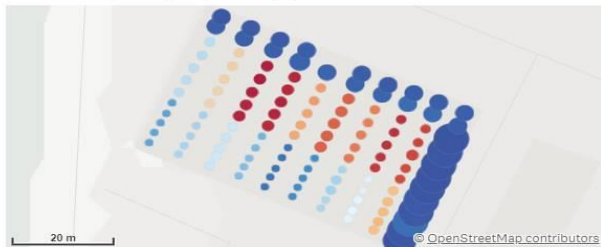
Lighting data | 46 305 records total, analyzing 46 305 records

Data by  Intelligent Solutions

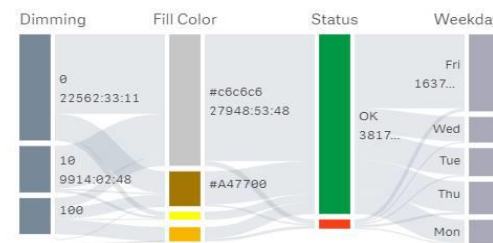
 WorkSys

Analytics by  emark  Qlik

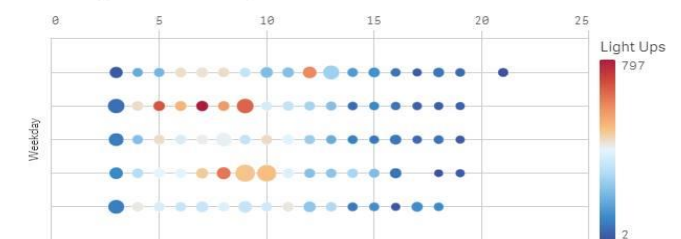
Duration (size) and Light Ups (color) by Location



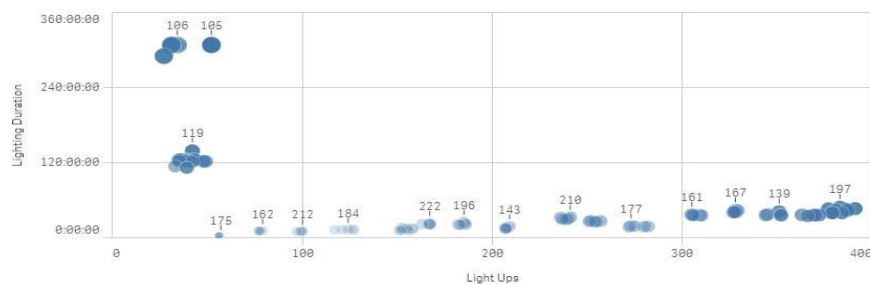
Duration Breakdown



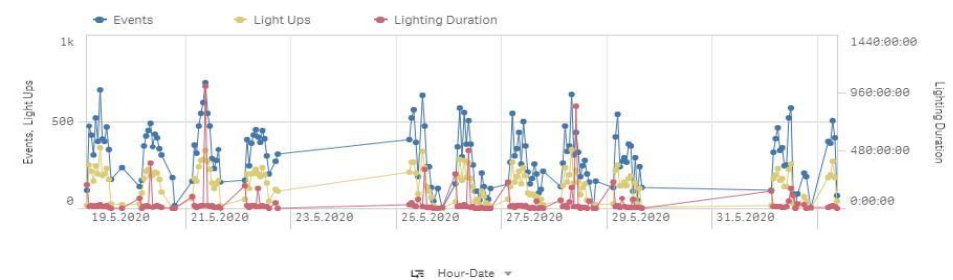
Duration by Hour and Weekday



Light Ups vs. Lighting Duration



Hour-Date Timeline

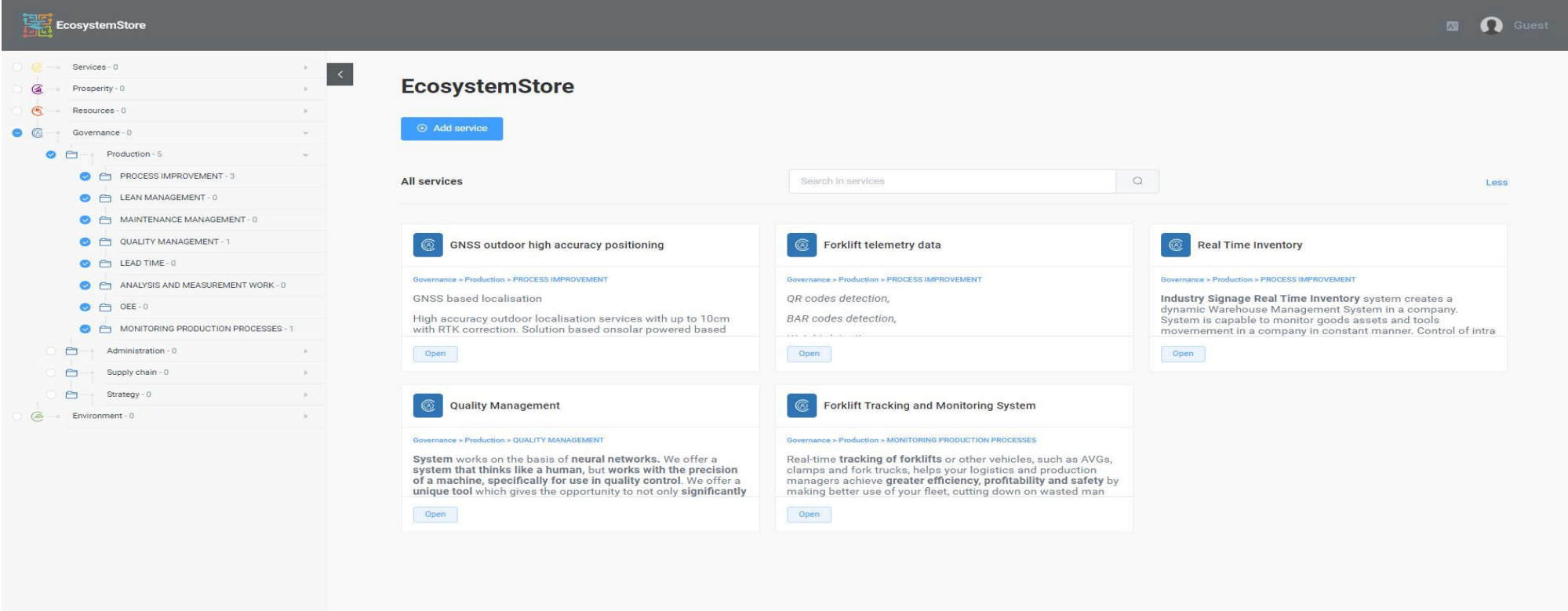




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## EcosystemStore

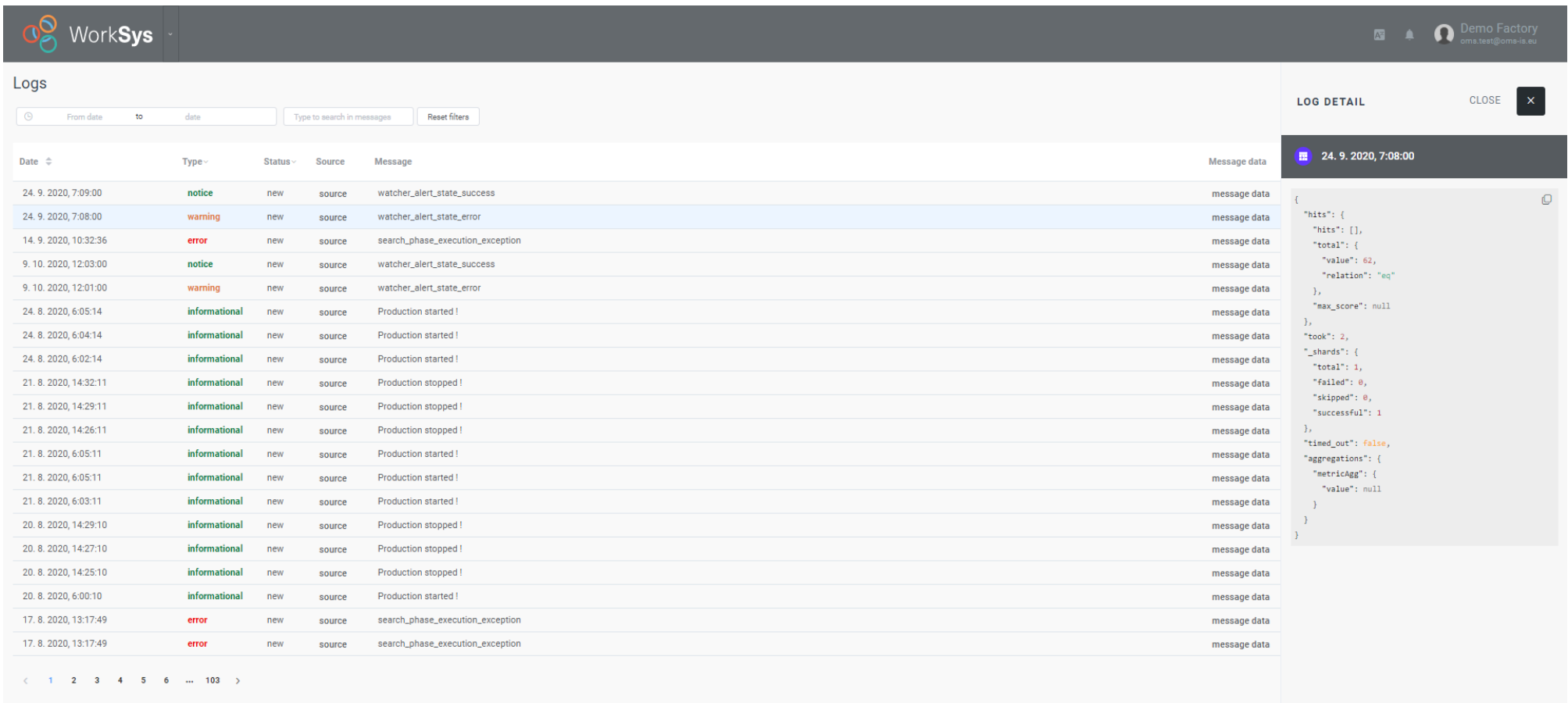
Convenient storage of the most advanced proven intelligent solutions in its field, so that you can comfortably and efficiently search for new missing solutions to gain a competitive advantage over slower competition with regard to sustainable development. Thanks to this, it is very easy to build a functioning ecosystem.



The screenshot displays the EcosystemStore web application interface. On the left, a navigation sidebar lists various categories: Services, Prosperity, Resources, Governance, Production, Administration, Supply chain, Strategy, and Environment. The 'Production' category is expanded, showing sub-items like PROCESS IMPROVEMENT, LEAN MANAGEMENT, MAINTENANCE MANAGEMENT, QUALITY MANAGEMENT, LEAD TIME, ANALYSIS AND MEASUREMENT WORK, OEE, and MONITORING PRODUCTION PROCESSES. The main content area features a search bar and a grid of service cards. Each card includes a title, a breadcrumb trail, a brief description, and an 'Open' button. The services shown are: GNSS outdoor high accuracy positioning, Forklift telemetry data, Real Time Inventory, Quality Management, and Forklift Tracking and Monitoring System.

## Logs & Events

Advanced, but due to the overall complexity of the digitization process, not a difficult system of reporting, which is a necessary article in the puzzle of a professional solution.



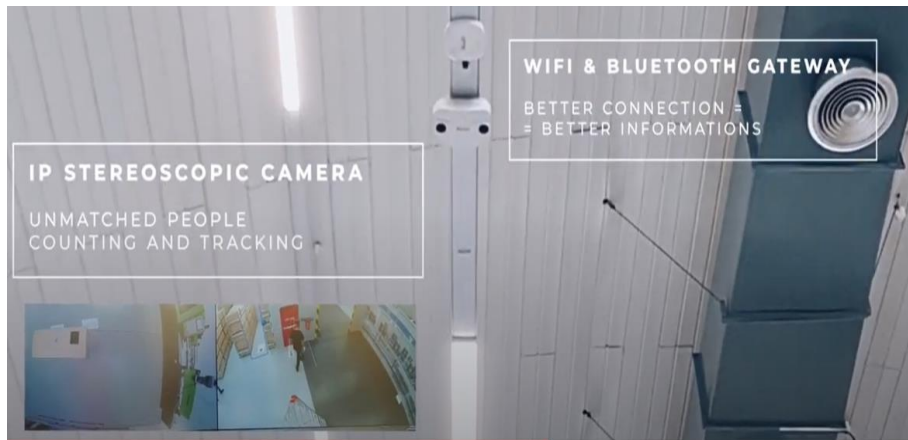
The screenshot displays the WorkSys Logs interface. The top navigation bar includes the WorkSys logo and user information for 'Demo Factory' (oms.test@oms-ia.eu). The main content area is titled 'Logs' and features a search and filter section with fields for 'From date', 'to date', 'Type to search in messages', and a 'Reset filters' button. Below this is a table of log entries with columns for Date, Type, Status, Source, Message, and Message data. The table shows various log types such as 'notice', 'warning', 'error', and 'informational' with corresponding messages like 'watcher\_alert\_state\_success' and 'Production started!'. A 'LOG DETAIL' panel on the right is open for the entry dated '24. 9. 2020, 7:08:00', displaying a JSON message structure.

Date	Type	Status	Source	Message	Message data
24. 9. 2020, 7:09:00	notice	new	source	watcher_alert_state_success	message data
24. 9. 2020, 7:08:00	warning	new	source	watcher_alert_state_error	message data
14. 9. 2020, 10:32:36	error	new	source	search_phase_execution_exception	message data
9. 10. 2020, 12:03:00	notice	new	source	watcher_alert_state_success	message data
9. 10. 2020, 12:01:00	warning	new	source	watcher_alert_state_error	message data
24. 8. 2020, 6:05:14	informational	new	source	Production started !	message data
24. 8. 2020, 6:04:14	informational	new	source	Production started !	message data
24. 8. 2020, 6:02:14	informational	new	source	Production started !	message data
21. 8. 2020, 14:32:11	informational	new	source	Production stopped !	message data
21. 8. 2020, 14:29:11	informational	new	source	Production stopped !	message data
21. 8. 2020, 14:26:11	informational	new	source	Production stopped !	message data
21. 8. 2020, 6:05:11	informational	new	source	Production started !	message data
21. 8. 2020, 6:05:11	informational	new	source	Production started !	message data
21. 8. 2020, 6:03:11	informational	new	source	Production started !	message data
20. 8. 2020, 14:29:10	informational	new	source	Production stopped !	message data
20. 8. 2020, 14:27:10	informational	new	source	Production stopped !	message data
20. 8. 2020, 14:25:10	informational	new	source	Production stopped !	message data
20. 8. 2020, 6:00:10	informational	new	source	Production started !	message data
17. 8. 2020, 13:17:49	error	new	source	search_phase_execution_exception	message data
17. 8. 2020, 13:17:49	error	new	source	search_phase_execution_exception	message data

```
{
  "hits": {
    "hits": [],
    "total": {
      "value": 62,
      "relation": "eq"
    },
    "max_score": null
  },
  "took": 2,
  "_shards": {
    "total": 1,
    "failed": 0,
    "skipped": 0,
    "successful": 1
  },
  "timed_out": false,
  "aggregations": {
    "metricAgg": {
      "value": null
    }
  }
}
```

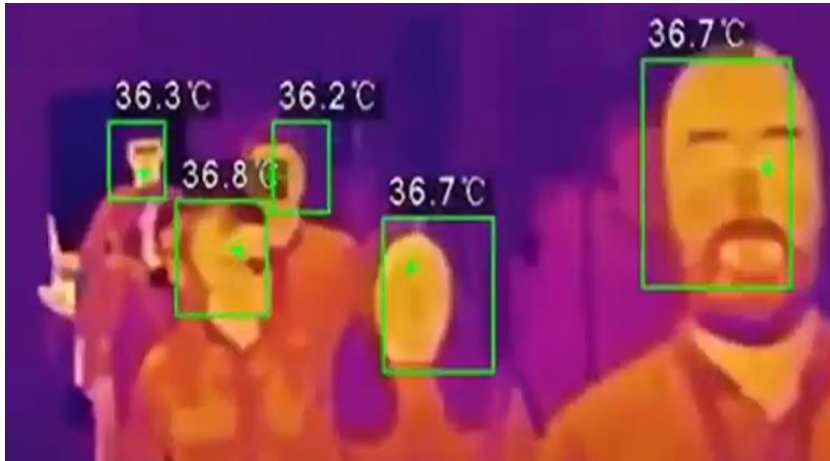
## Digitization is already a necessary step

Easy integration of devices (sensors, cameras, radars, etc.) into a newly created or existing infrastructure. [https://www.youtube.com/watch?v=oL\\_rQleAAFU](https://www.youtube.com/watch?v=oL_rQleAAFU)



Digitization is already a necessary step

Light, sound signaling, interconnection and communication between devices.



## Digitization is already a necessary step

What does the system **WorkSys** brings?

- Real-time information and monitoring
- Ability to create user alerts
- Early warning of crisis scenarios
- Easy creation of your own KPIs and graphical analysis
- Easy integration of existing and new third party systems
- Possibility of visualization of static or moving objects on the map
- The shape and color of objects helps to understand their current status
- Analytical tools for data collection
- Machine learning and detection of data anomalies
- Ability to use without the need for local IT resources
- Ability to implement as many IoT devices and as many users as you need

If implemented, **WorkSys** will help to make timely and right decisions.

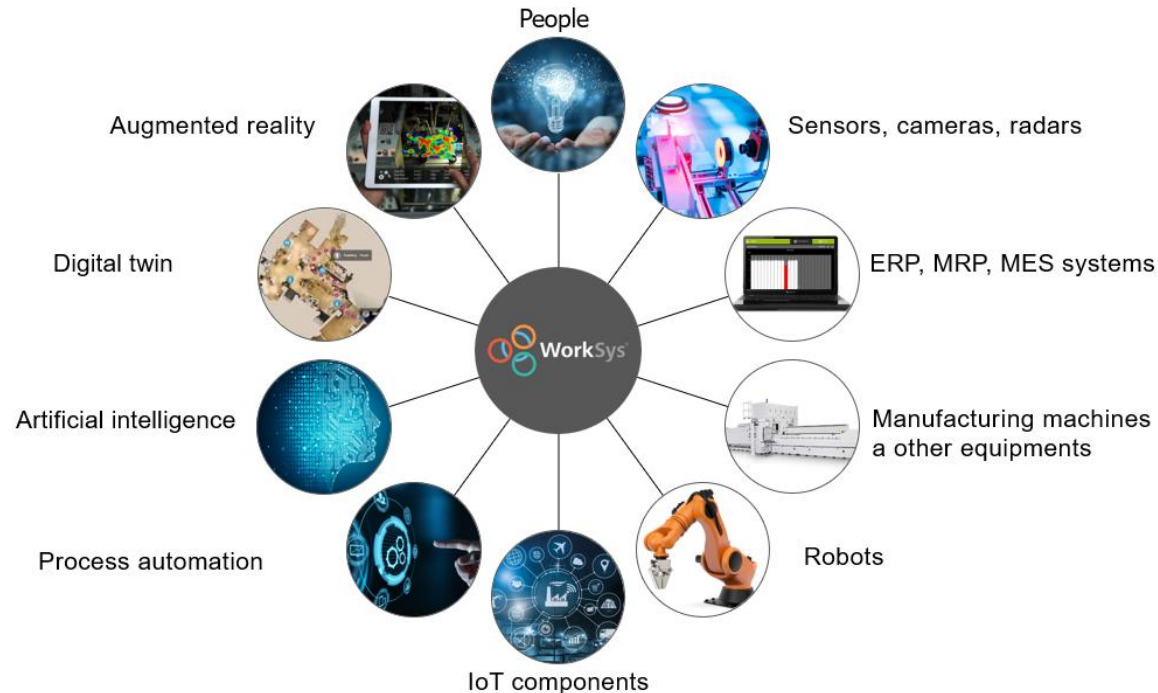
What company gains by deploying the system?

*An absolute overview of what is happening in the company in real time.*

# WorkSys – Ecosystem as a guarantee of long-term sustainability

Digitization is already a necessary step

**WorkSys means a well-functioning Ecosystem.**



**It's possible to choose a solution that suits in the logic of the price / performance ratio.**

**Implementation despite short sprints still guarantees long-term sustainability and conceptuality of the solution.**

**Thanks to the Ecosystem, high implementation professionalism and extensive experience are guaranteed.**

# WorkSys is the most comprehensive IoT systems for industry

## Unique Selling Points

- WorkSys IoT platform is based on excellent IoT architecture and fully fulfills the role of:
  - pro-integration platform
  - data platform
  - aggregation and visualization platform
- Whole WorkSys IoT system is based on HW and SW standards
- It offers excellent and effective ratio between Edge and Cloud computing
- Its bandwidth connectivity is excellent combination of PLC, RF Mesh and PLC/ RF Mesh
- It's open, interoperable IoT system for Smart Factories based on standards
- Helps to create and control different Digital Ecosystems in Smart Factories
- Is ready to help you to build the most effective IoT infrastructure and communication bus of Smart Factories using intelligent lighting grid
- Offers you a lot of advanced IoT solutions for Smart Factories EcoSystems – Production, Logistics, Maintenance, Energy, Security, Transport, Environment ....
- It has a disruptive way of presenting of Smart Factories via platform on user friendly GUI based on several moduls and modules help you in an intuitive, user-friendly and ergonomic organization of Digital Ecosystems of Smart Factories
- It includes predictive analytics, digital intelligence tools, allows creating own KPIs, alerting, early warnings and much more features what are integrated as part of WorkSys IoT system
- It uses TOP digital technologies integrated as supporting tools directly in the WorkSys IoT Ecosystem - AI, ML, DL, Advancements, Predictive Analytics, Immersive media - AR, VR ....



Thank you for your attention.



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