

# HYDRA X Functions

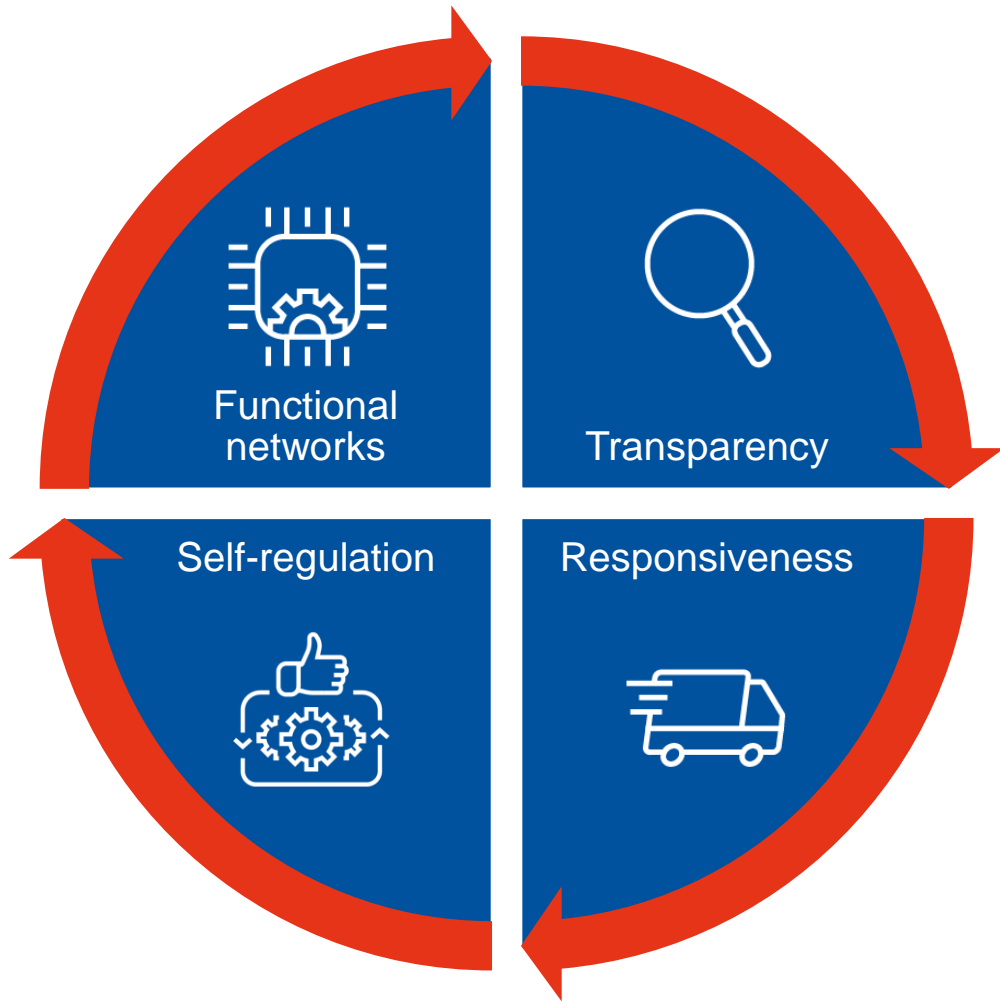
Innovative manufacturing IT for your way to the Smart Factory



The **Smart Factory** is not only a vision, but also your guarantee for more **productivity** and **competitiveness**.



Motivation




**Transparency** is the foundation of everything.

**Responsiveness** provides the necessary dynamic in the shop floor.

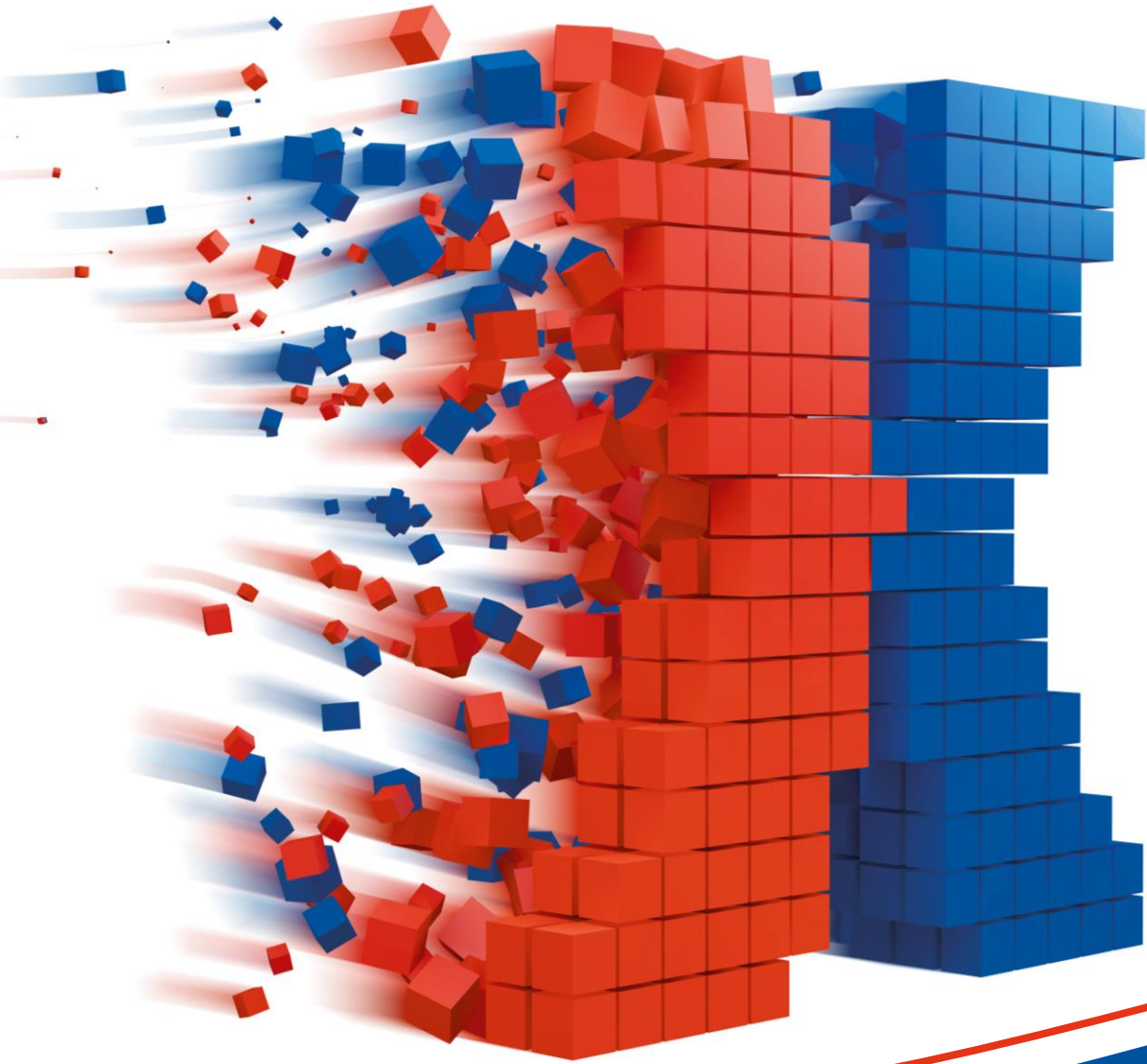
**Self-regulation** takes on routine tasks and makes simple decisions.

**Functional networks** is the next step for more transparency.



## Success Factors of the Smart Factory





HYDRA X enables you to use **cutting-edge technologies** to meet the demands of manufacturing.

- Industrial Internet of Things (IIoT)
- Software as a Service (SaaS)
- Cloud connectivity
- Edge computing
- Artificial Intelligence (AI)
- Machine learning
- Responsive web client
- Low code

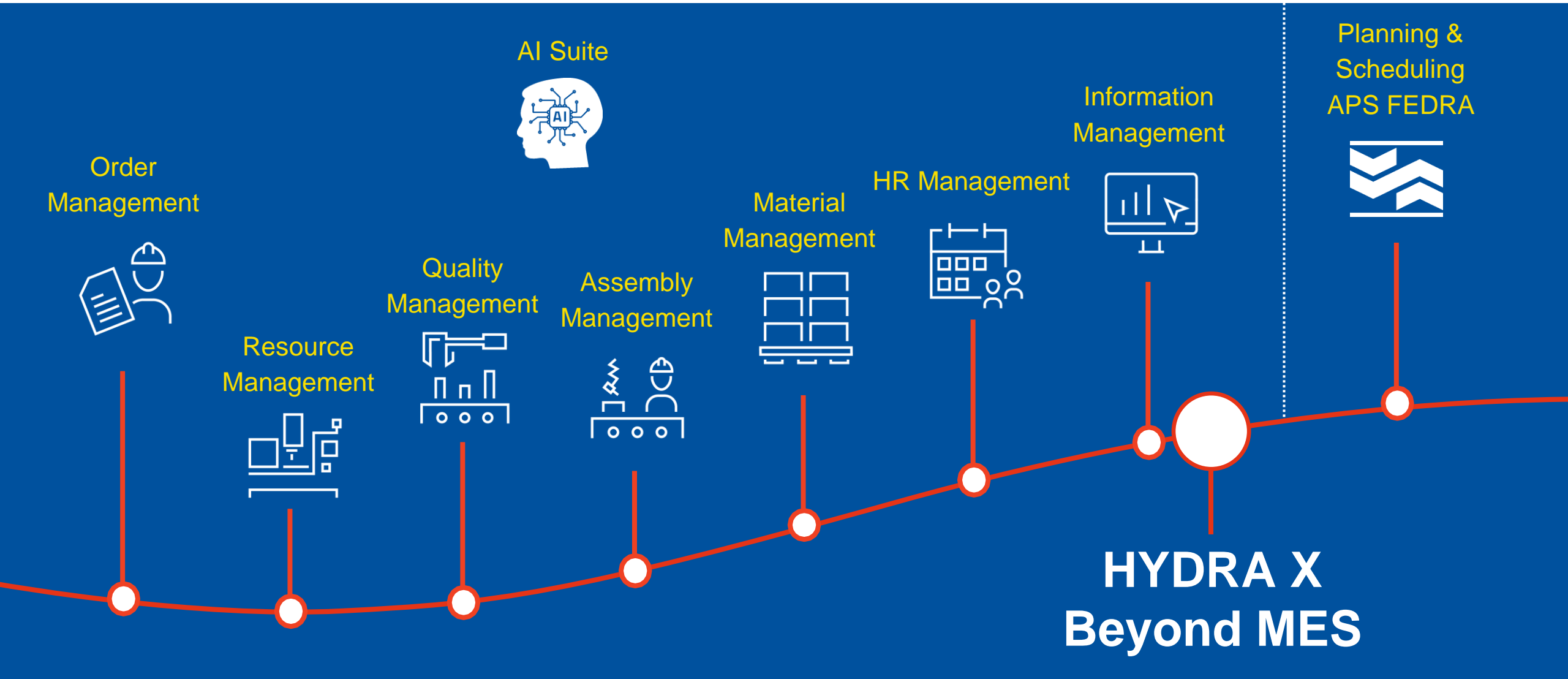
## Cutting-Edge Technologies





# HYDRA X: mApps for Your Smart Factory

HYDRA X is composed of many **mApps** that you can **combine** with each other. mApps provide collectively a **range of functions** that goes far beyond a classic Manufacturing Execution System (MES).







**In the Smart Factory, there is no such thing as waste.**

**HYDRA X** manages all resources digitally and can therefore monitor them continuously.

**HYDRA X** documents the use of machines, tools, material and energy rigorously.

**HYDRA X** offers flexible evaluations showing where further cost-saving opportunities can be found.



## Efficient Resource Management

**In the Smart Factory, everything runs according to plan and can be tracked at any time.**

**HYDRA X** creates the highest level of transparency in production with key figures and configurable evaluations.

**HYDRA X** provides real-time information with applications such as the Information Dashboard and Shop Floor Monitor - both at the workplace and mobile or on shop floor monitors.

**HYDRA X** accesses a wide range of historical data for analyses and optimization measures.



# Global Production Controlling





**The Smart Factory aims at zero-defect production.**

**HYDRA X** consistently records deviations to ensure that defects are avoided.

**HYDRA X** supports targeted measures to identify, prevent and eliminate deviations.

**HYDRA X** reduces scrap - from goods receipt to shipment to the customer.

**Reliable  
Quality Management**

**In the Smart Factory, any necessary maintenance measures are carried out at the most favorable time.**

**HYDRA X** provides transparency utilizing machines, tools and test equipment by consistent process monitoring.

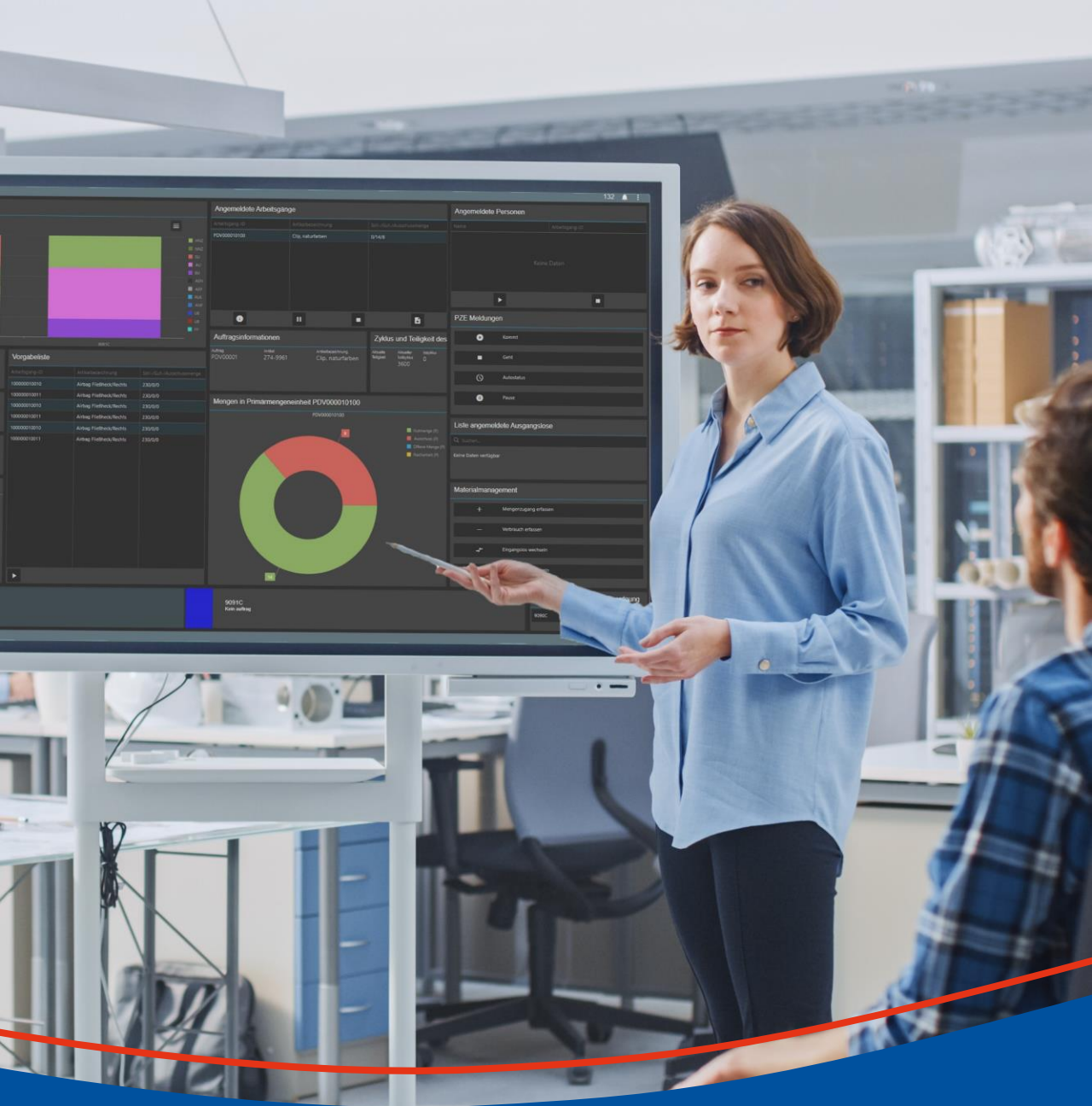
**HYDRA X** identifies the best time for maintenance and servicing measures.

**HYDRA X** documents all measures completely.



## Optimal Maintenance Strategies





**In the Smart Factory, transparency and efficiency are paramount.**

**HYDRA X** maps all processes digitally. This includes production meetings, checklists and information overviews.

**HYDRA X** always provides information in real time and wherever it's needed.

**HYDRA X** unites lean methods and manufacturing IT.

# Digital Shop Floor Management



**In the Smart Factory, production and intralogistics work hand in hand.**

**HYDRA X** keeps WIP (Work in Progress) low by networking directly with the ERP and Warehouse Management Systems (WMS).

**HYDRA X** completely documents the use of materials in terms of traceability to meet regulatory requirements.

**HYDRA X** consistently monitors and optimizes inventories during ongoing production (WIP).



**Interlinked  
Intralogistics**





**In the Smart Factory, there are no media disruptions.**

**HYDRA X** records data digitally at the point where data is generated and this data enters the system directly.

**HYDRA X** displays information digitally and makes it available wherever the information is needed.

**HYDRA X** makes paper superfluous in manufacturing.

**Systematic  
Digitization**

**In the Smart Factory, the focus is on employees and their needs.**

**HYDRA X** reliably records working and break times and compares them with operating data on request.

**HYDRA X** makes it easier to coordinate shift patterns, plans leave, and calculates performance-based pay.

**HYDRA X** uses an access control system to ensure that rules are adhered to and specifications are met.



**Personnel Management  
Focused on Employees**





**In the Smart Factory, everything runs according to plan.**

**HYDRA X** provides operators with precise instructions and information required for the current work step.

**HYDRA X** monitors and controls complex assembly lines.

**HYDRA X** supports multi-variant series production and the JIT/JIS principle.



**Operator Guidance  
Focused on Processes**

We ...

... show you how to increase your production **efficiency**.

... assist you to choose ideal **solutions**.

... are at your side on the way to the **Smart Factory**.



**Build your factory smart.**



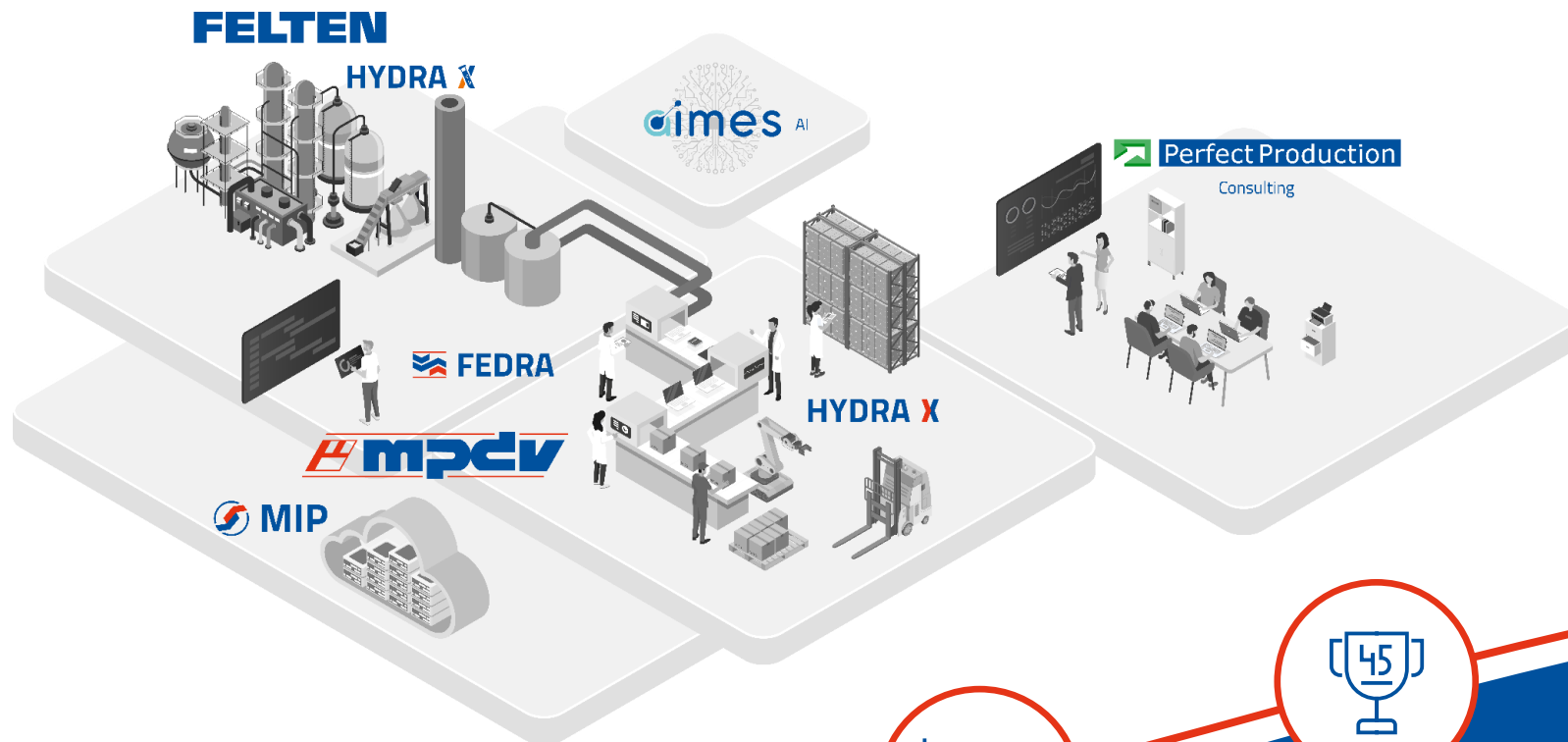
A photograph of a modern industrial building complex. The main building is white with blue accents and a large glass facade. A blue sky with white clouds is visible in the background. A red line graphic runs across the bottom of the image, ending in a white circle.

## About MPDV

WE CREATE SMART FACTORIES







people work with our solutions every day

**1.100.000**

installations in all industries

**1.750**



**13**

locations worldwide



**520**

employees



**73 Mio.**

euros group turnover



**45**

years in the market & market leader for manufacturing IT

# Would you like to learn more about the functions of HYDRA X ?



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