



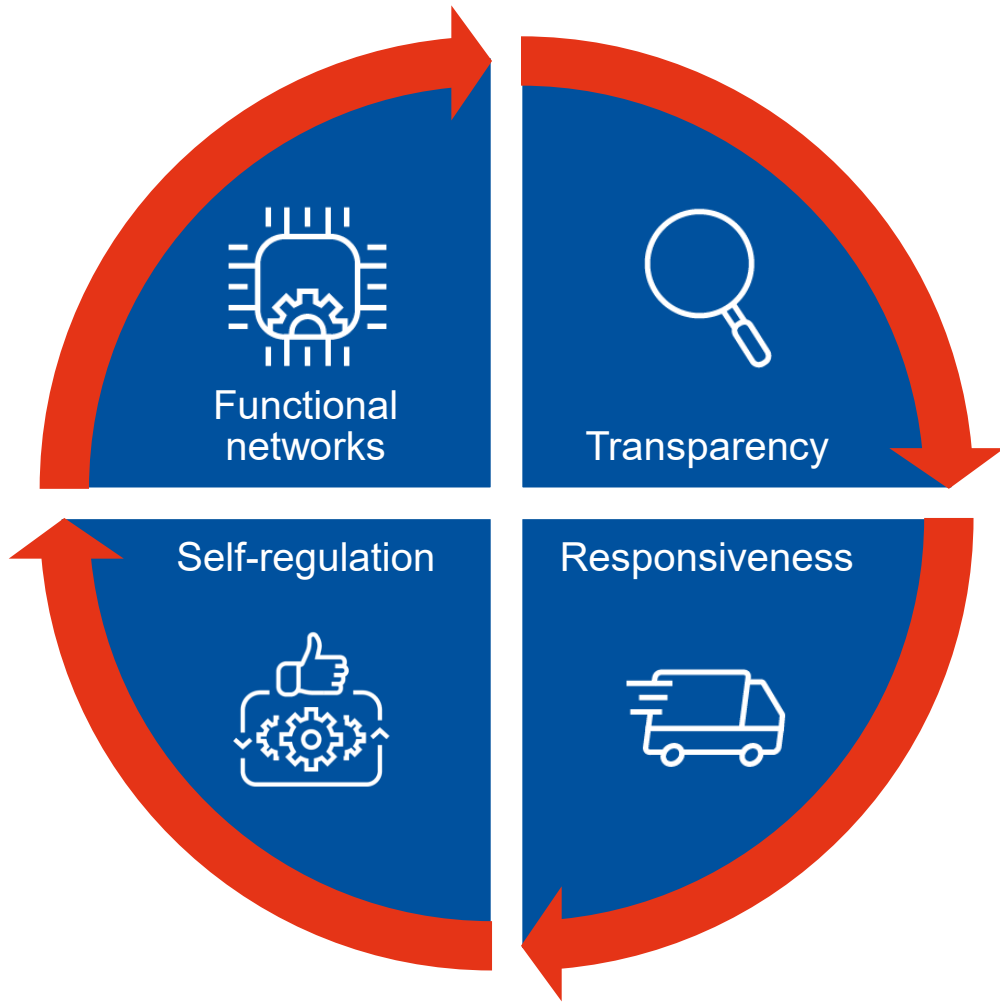
HYDRA X Functions

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.

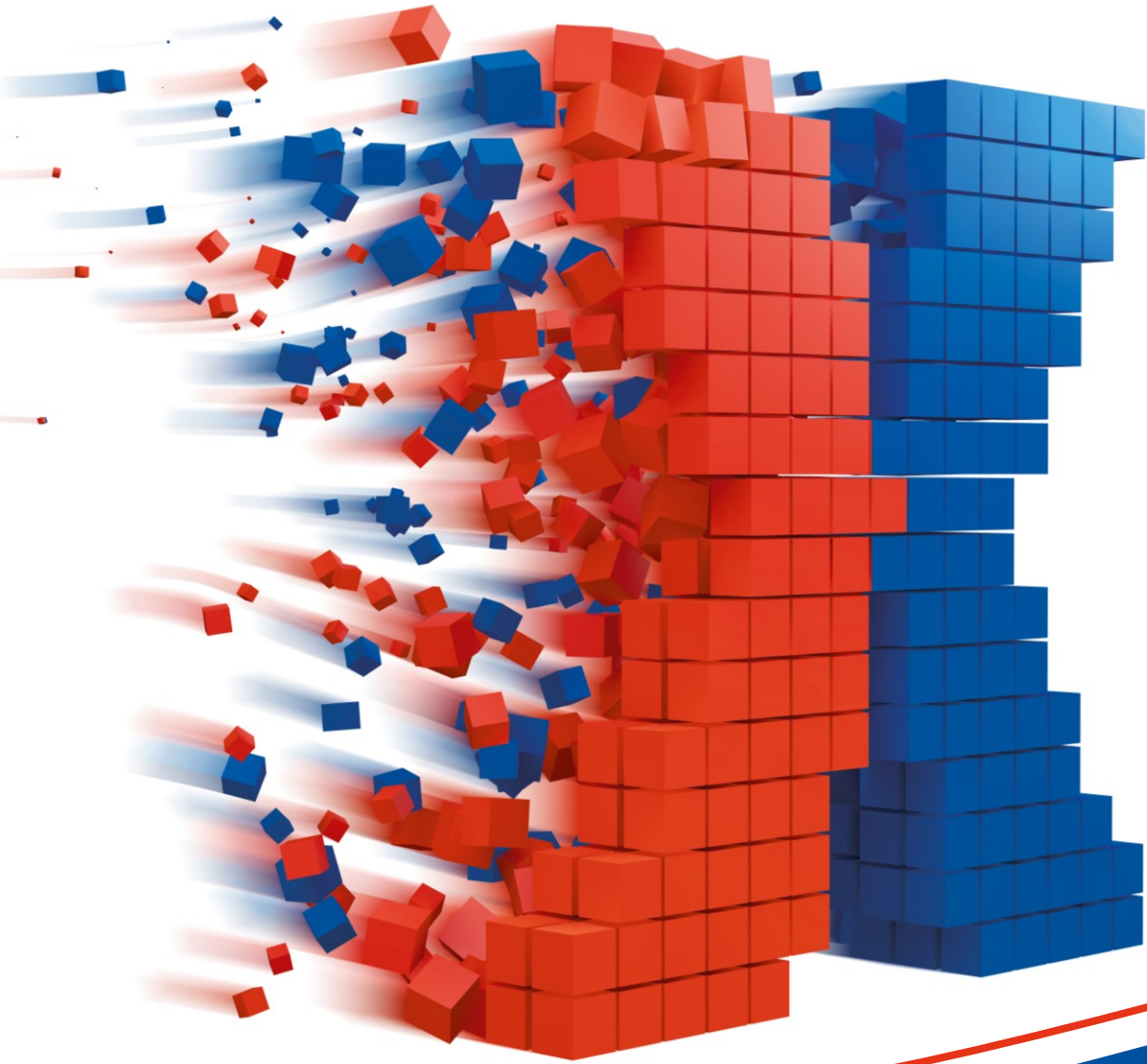
Responsiveness provides the necessary dynamic in the shop floor.

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



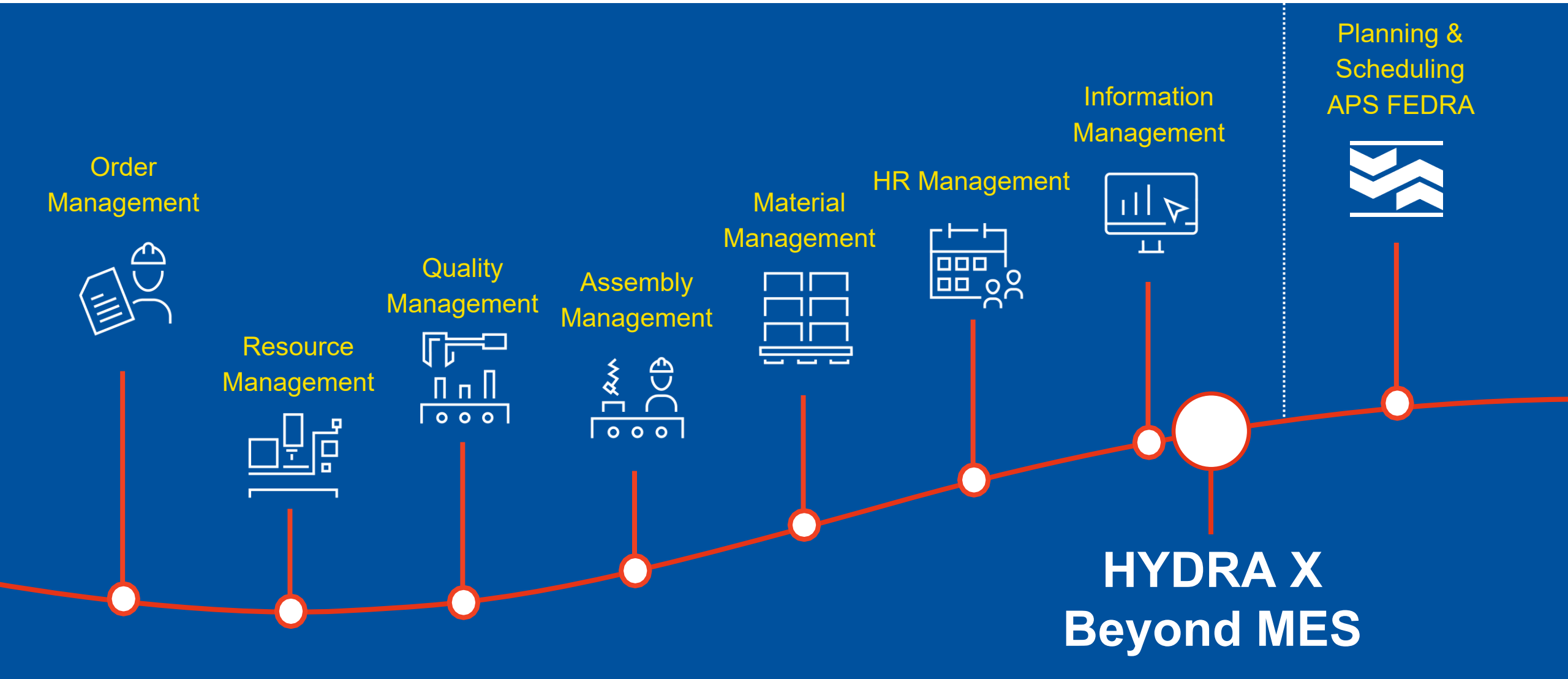
HYDRA X enables you to use **cutting-edge technologies** to meet the demands of manufacturing.

- 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.

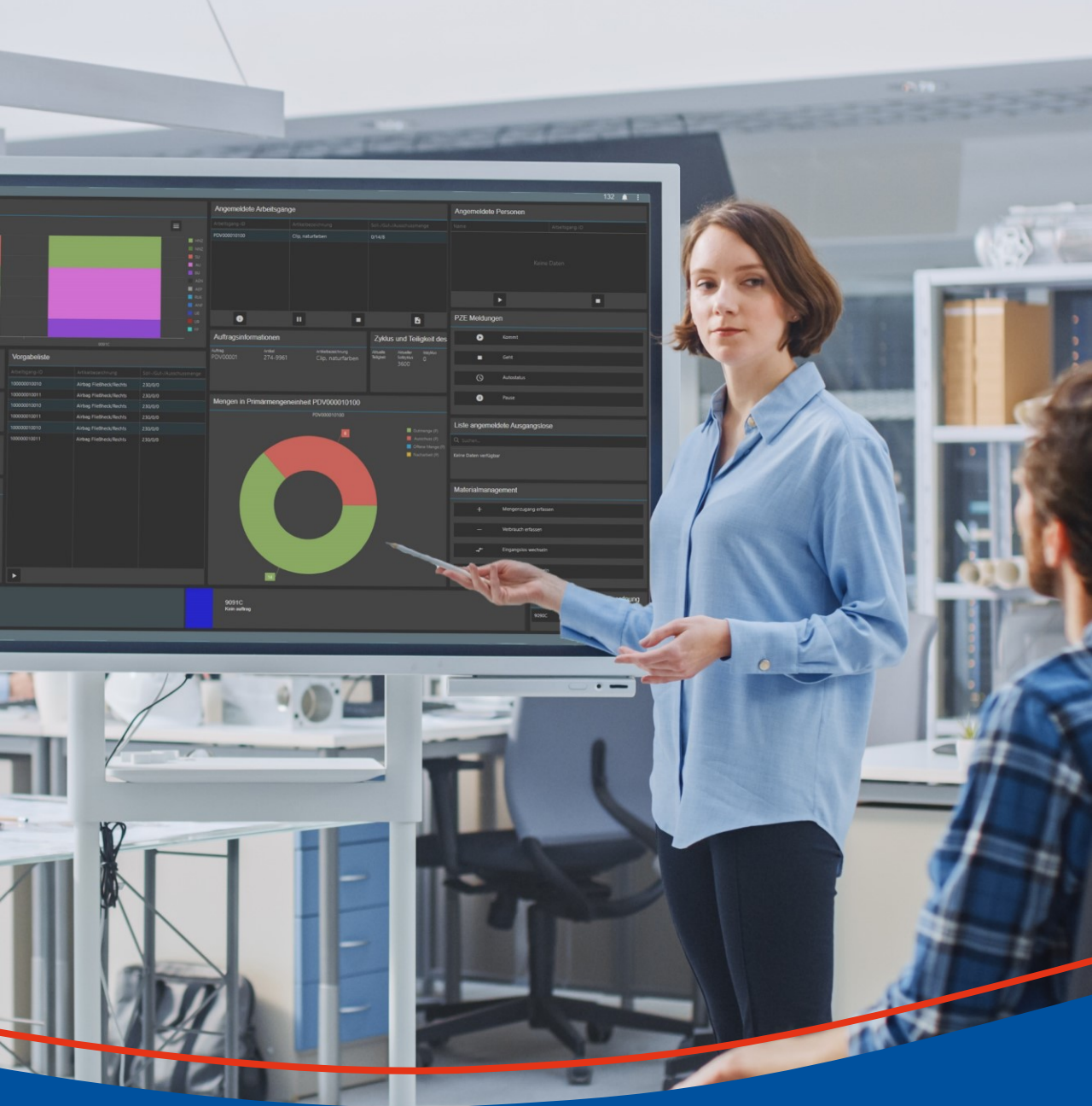
HYDRA X provides transparency utilizing machines, tools and test equipment by consistent process monitoring.

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 'mpdv' logo on the side. To the right, a blue-roofed structure also features the 'mpdv' logo. In the foreground, there is a small pond and a paved area. The sky is blue with scattered white clouds.

About MPDV

WE CREATE SMART FACTORIES





520
employees



13
Locations
worldwide



45
years in the market
& market leader for
manufacturing IT



1.100.000
people work with our
solutions every day



1.750
installations in all
industries



73 million
euros group turnover

MPDV Group in Numbers

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



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