

# AUTARK

Industry 4.0

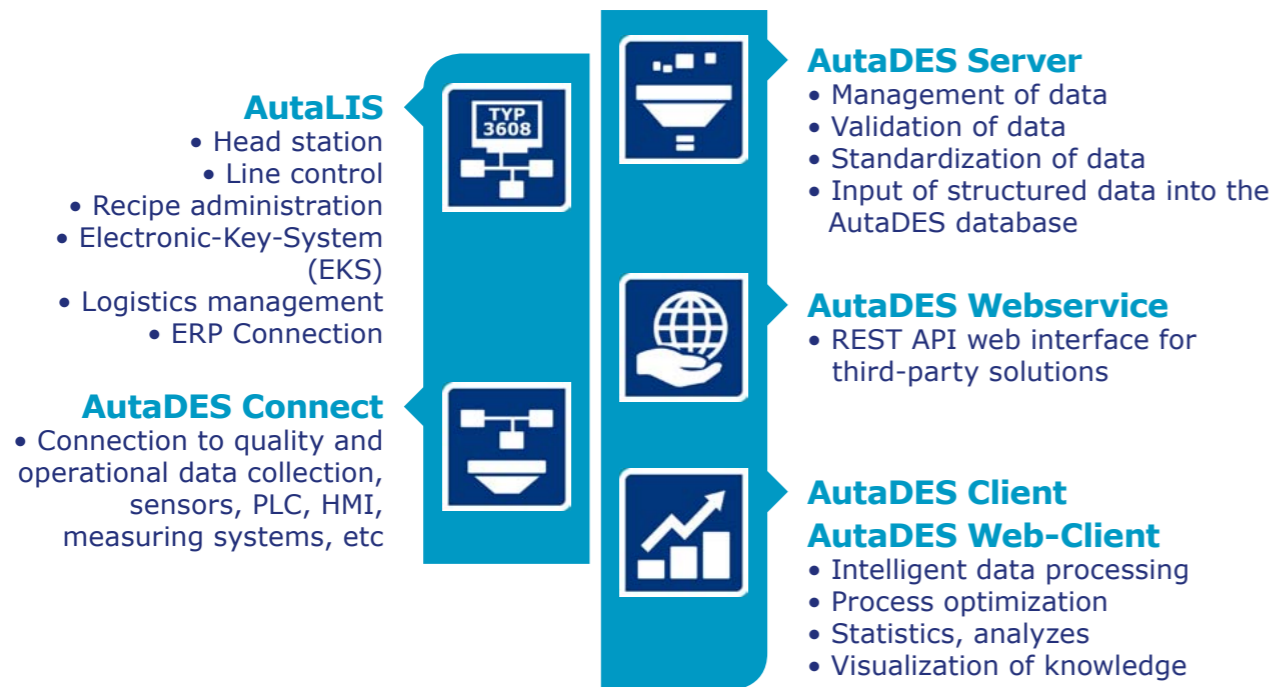


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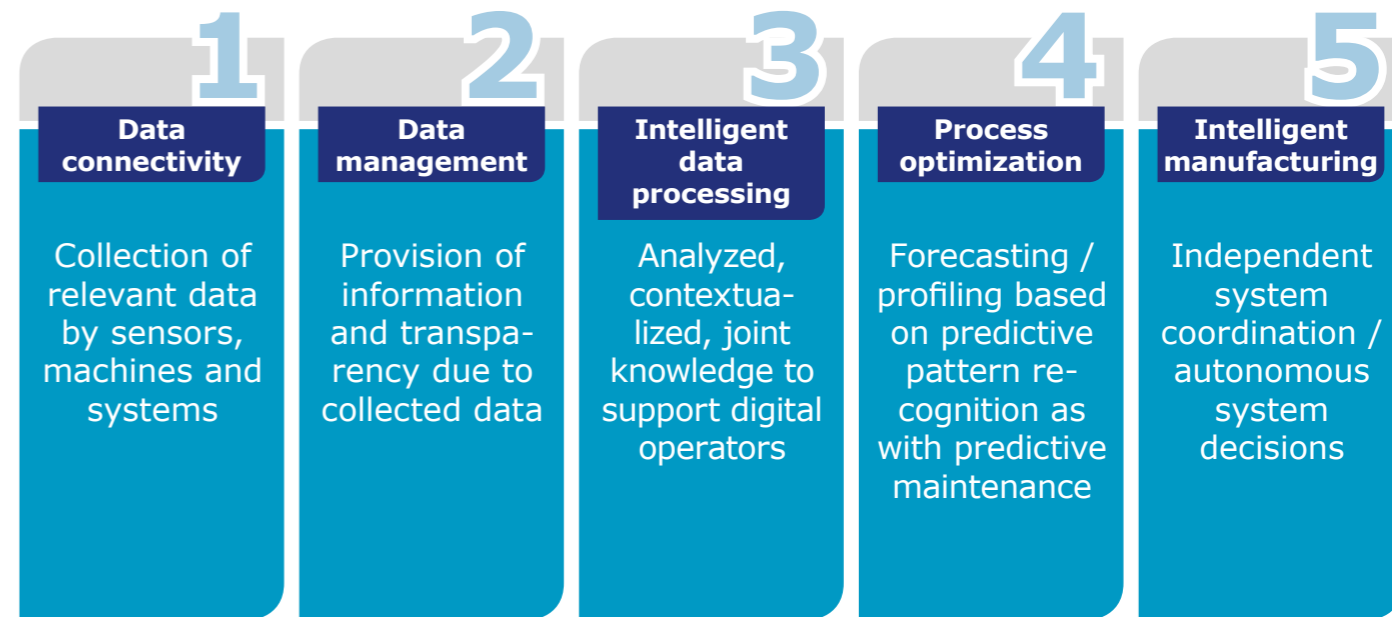
**Computer controlled automation**

## Software development

Your application for transparency throughout the entire production process



## Components



## 1: Data connectivity

- Establishment of communication links
- Collection and transmission of data by PLC, HMI, screwing systems, joining systems, camera systems and sensors (can be supplemented as required)
- High-frequency data collection for database
  - » Data synchronization of customer data with AUTARK data
  - » Precise specification of the required data and network requirements, adapted to the customer processes
- Use of secure protocols, technologies and encryption

### CHALLENGE

- Collection of third-party data
- Different interfaces
- Synchronization of data
- Interfaces to SAP or ERP systems

### RESULT

- Collection of huge amounts of data
- Permanent safe storage
- Authenticity of information
- Use of standard interfaces

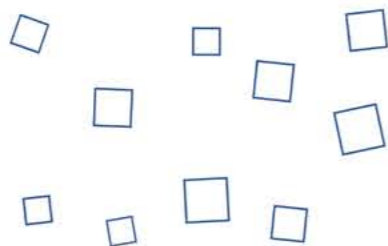
### Required technology

- AutaLIS
- AutaDES Connect



## 2: Data management

- Check data and structure it uniformly
- Lifetime high-availability storage
- Provision of data on different platforms
- Secure access



### CHALLENGE

- Data evaluation
- Data consistency
- Data standardization
- Provision of data using modern interfaces
- Access and deliver the data to various external clients

### RESULT

- Standardized data formats
- Basis for a knowledge-database
- Platform-independent devices

### Required technology

- AutoDES Server
- AutoDES Webservice



## 3: Intelligent data processing

- Analyzing of data
- Application of statistical functions
- Reporting
- Cost analysis
- Traceability

### CHALLENGE

Classification of data by recipient

Generation of management key figures

Process quality assessment

Product quality assessment

Statement on the availability of production

### RESULT

Basics of machine learning and algorithms

Indicators for decision-making in technological and economic processes

Automatic warning functions, alarm generation

Report generation

Inventory and accounting

### Required technology

- AutoDES Server
- AutoDES Client



## 4: Process optimization

- Resource planning
- ERP and control system
- Optimization of production in terms of quality, quantity and availability

### CHALLENGE

Proactive maintenance

Proactive staffing needs

Proactive ERP

Optimization of work processes

### RESULT

Bottleneck analysis

Trendlines

Predictive needs assessment

### Required technology

- Autades Client



2023

2024

2025

2026

2027

2028

## 5: Intelligent manufacturing

- Control of logistics systems
- Connection to Enterprise Resource Planning (ERP) such as SAP

### CHALLENGE

Automatic orders for material

Automatic check of material availability

Automated acceptance of finished goods

Production-related triggering of the automated processes

### RESULT

Connection and control of logistics systems

Connection and control of third-party systems

### Required technology

- AutaLIS



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