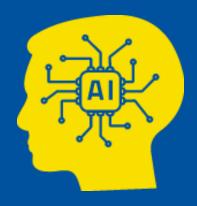


Do you actually know how valuable your data is

– in monetary terms and with regard to information?

Take advantage of opportunities in your Smart Factory from the wealth of your data!



Artificial intelligence (AI) makes this possible!

Motivation



"We collect an **awful lot of data** with our manufacturing IT, but I have this uneasy feeling that we do not make the **most of it**. How can **Al** help us in this undertaking?"

"Everybody is talking about artificial intelligence but how can we benefit in production? We will certainly not invest because it sounds so cool."

"Artificial intelligence sounds **innovative**, but I bet it's also **extremely complicated**, right?"

Your Issue



The Al Suite for HYDRA X & FEDRA ...

- ... provides artificial intelligence in innovative standard applications.
- ... uses data that you already have or collect.
- ... can do without a data scientist.
- ... generates new insights in a flash.
- ... supports you in daily business routines to get even better.
- ... boosts your competitiveness.
- ... safeguards your future viability.







Perfect production results need perfect planning!



Reduce production costs and increase on-time delivery!

- Automatically schedule orders, tools and other resources efficiently according to targets.
- Consider all boundary conditions (e.g. dependencies, bottlenecks of machines, ...).
- Set target values for optimization yourself.
- Get holistic planning results.

Artificial intelligence at work

- Reinforcement Learning
- Optimization



Counteract shortage of skilled labor!



Make optimal use of your available workforce!

- Schedule employees according to their qualifications in the best possible way.
- Automatically create deployment plans as accurate as possible.
- React quickly to changed conditions.

Artificial intelligence at work

- Reinforcement Learning
- Optimization





Realistic planning is only possible with realistic default values!

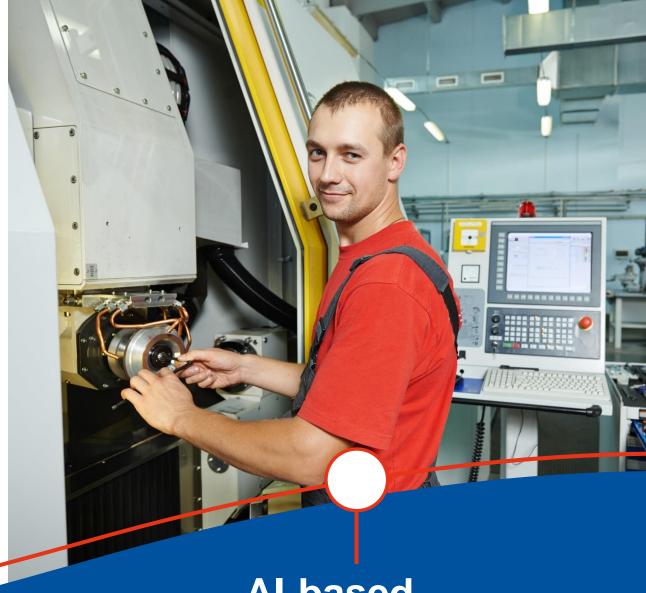


Avoid the "master data hell" and use realistic default values!

- Calculate production times (setup, cycle, ...)
 based on historical data.
- Analyze diverse influencing factors.
- Provide (automatic) planning with realistic default values.

Artificial intelligence at work

- Unsupervised Machine Learning
- Pattern Recognition



Al-based Setup Time Prediction



Only if you know where it's stuck, you can fix it!



Understand correlations for fluctuations in capacity utilization!

- Analyze and recognize diverse influencing factors.
- Show and analyze developments over time.
- Take and validate measures.

Artificial intelligence at work

- Unsupervised Machine Learning
- Pattern Recognition



Al-based
Capacity Utilization Analysis



Yes, setup times are unproductive, but can't be avoided!

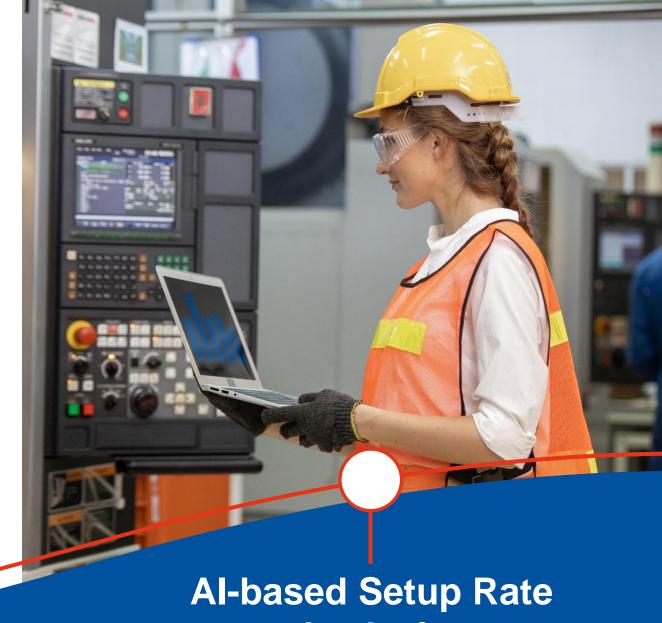


Understand correlations for high setup rates!

- Analyze factors influencing the setup rate.
- Optimize setup processes.
- Save time and costs.

Artificial intelligence at work

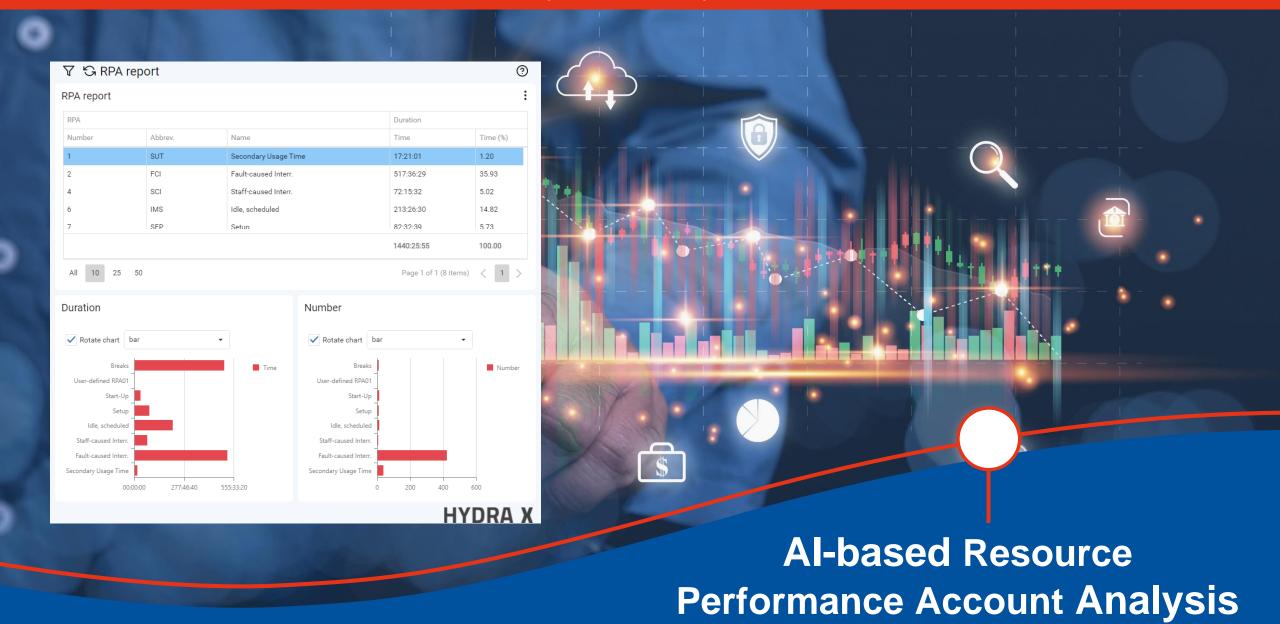
- Unsupervised Machine Learning
- Pattern Recognition



Analysis



How, what, when and why - the more you know, the better it runs!



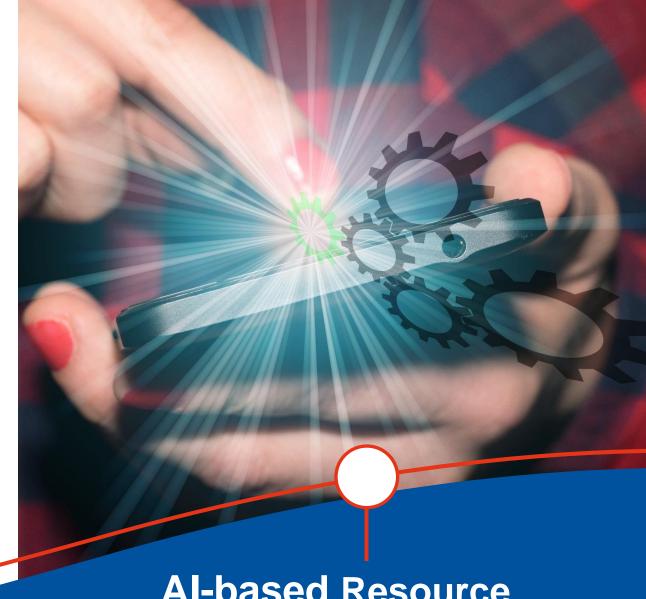


Understand correlations why specific events occur!

- Uncover hidden dependencies.
- Recognize influencing factors and make them transparent.
- Reduce unproductive times.

Artificial intelligence at work

- Unsupervised Machine Learning
- Pattern Recognition



Al-based Resource Performance Account Analysis



Learn from your mistakes and increase your quality!



Understand the cause of scrap!

- Analyze diverse influencing factors.
- Recognize dependencies.
- Gain new insights and build knowledge.
- Gradually improve quality.

Artificial intelligence at work

- Unsupervised Machine Learning
- Pattern Recognition





You can't predict the future? No worries – AI does it for you!

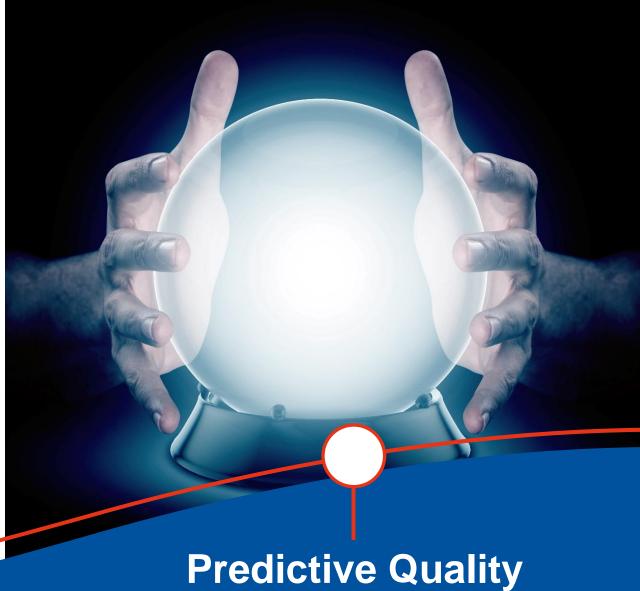


Predict quality and evaluate workpieces without inspection!

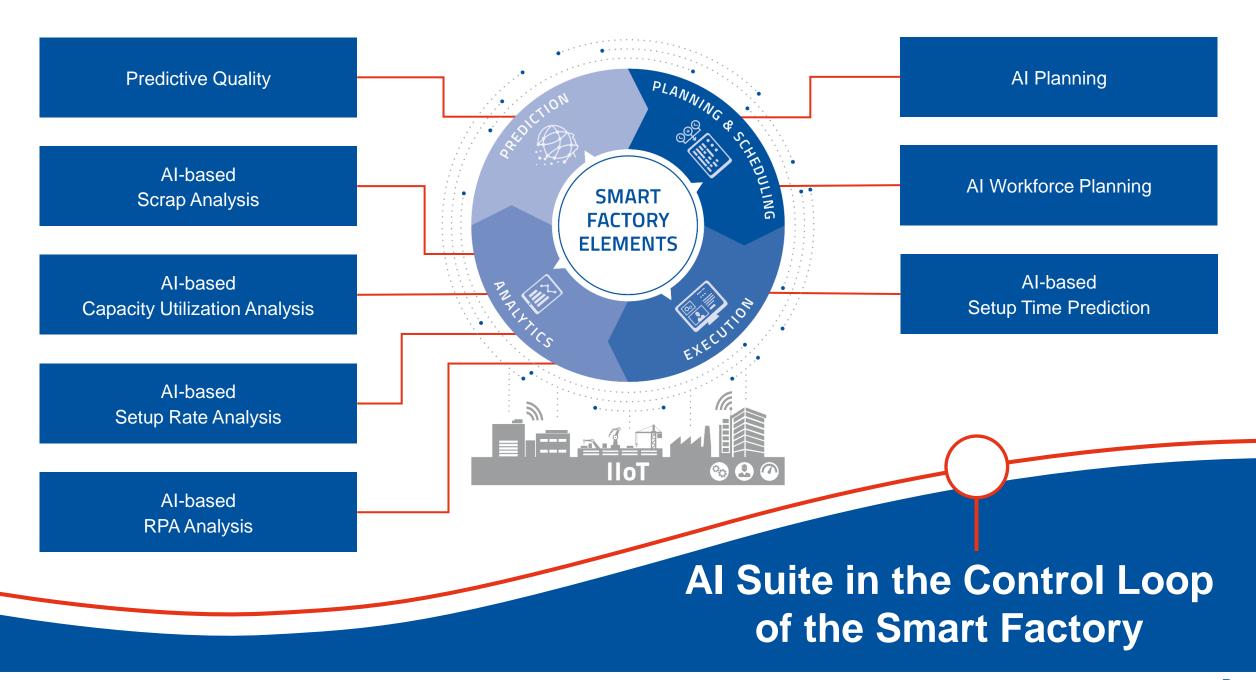
- Use historical process & quality data
- Evaluate quality of semi-finished products at an early stage.
- Evaluate products non-destructively.
- Reduce inspection efforts.

Artificial intelligence at work

- Unsupervised Machine Learning
- Real-time prediction model









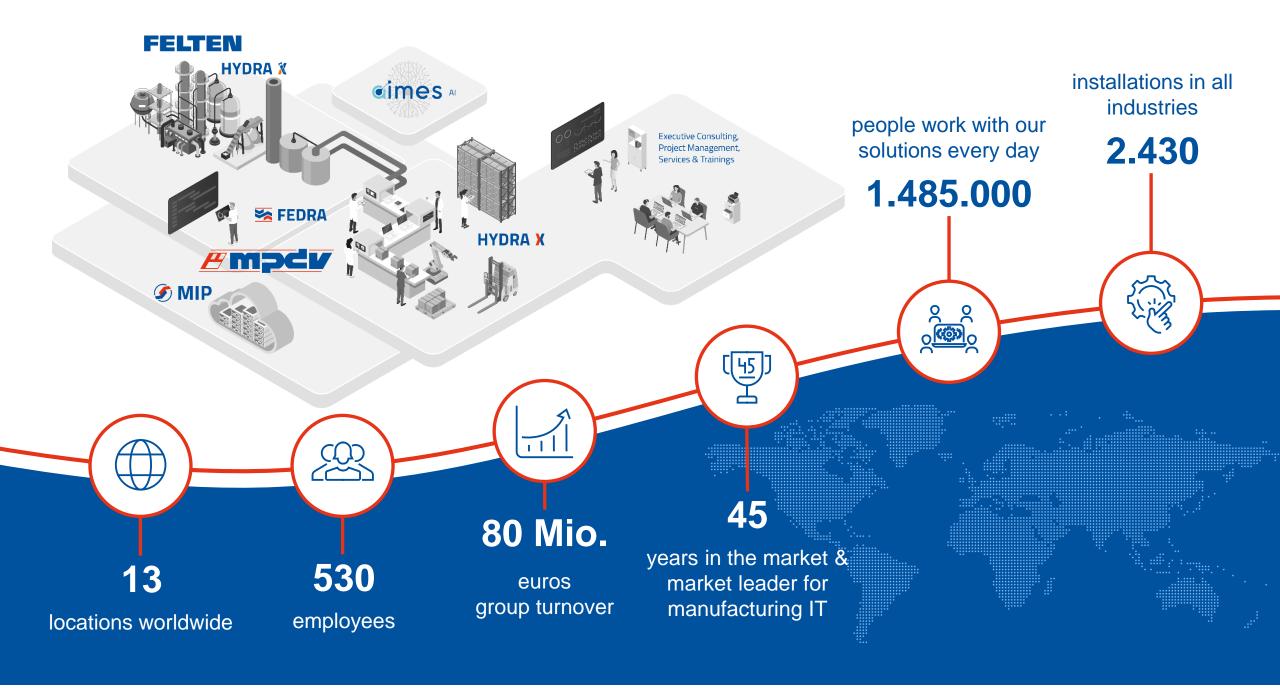
Profit from your most valuable asset – your data!

With the AI Suite for HYDRA X and FEDRA you safeguard your competitiveness!









Would you like to find out more about the AI Suite for HYDRA X and FEDRA?















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