

thyssenkrupp is a globally diversified industrial company within a portfolio of very heterogeneous business models operating within 12 key industries

Automotive



Civil Works & Infrastructure



Minerals & Mining



Chemicals



Power Generation & Distribution



Household Appliances



Food & Beverages



Aerospace



Systems Engineering



Oil and Gas



Ship Building



Special-purpose Vehicles





The deep integration into the corporate-wide data and process harmonization program provides the administrative and infrastructural framework necessary for the operationalization of industry 4.0

Improvement and automation of business processes

Standardization through adaproh

Support for operative steering

Contribution to compliance assurance



Increasing volume, velocity and variety of data



Growth of computational power and storage



Fallen costs of data management



Sophisticated algorithms and analytics capabilities

Cost reduction

Improvement of the efficiency of operations

Improved decision making

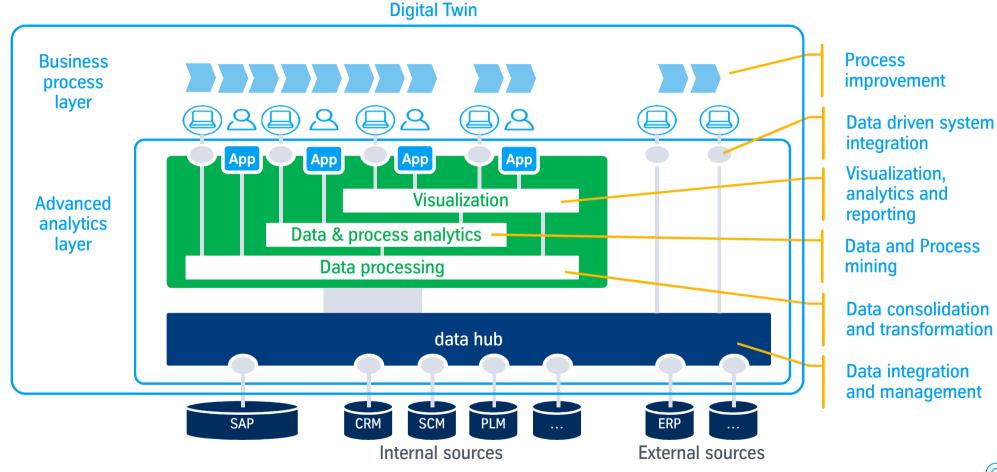
Providing insights on the impact of different variables in enterprise processes

New products and services

Enabling data driven data intensive business models

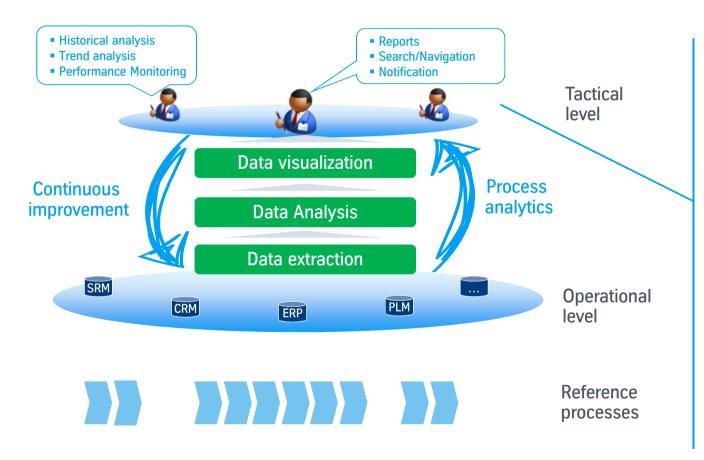


A virtual suite serves as integrated service platform combining data extraction and managing with extensive data analytics and visualization capabilities



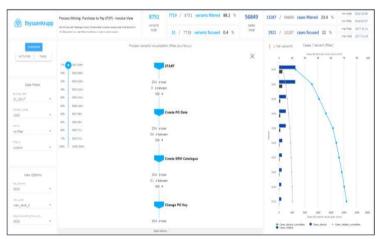


Decision makers on tactical level need appropriate data provision from different sources and support by the analysis of business processes and simulation of measure implementation



daproh big data cockpit blueprints

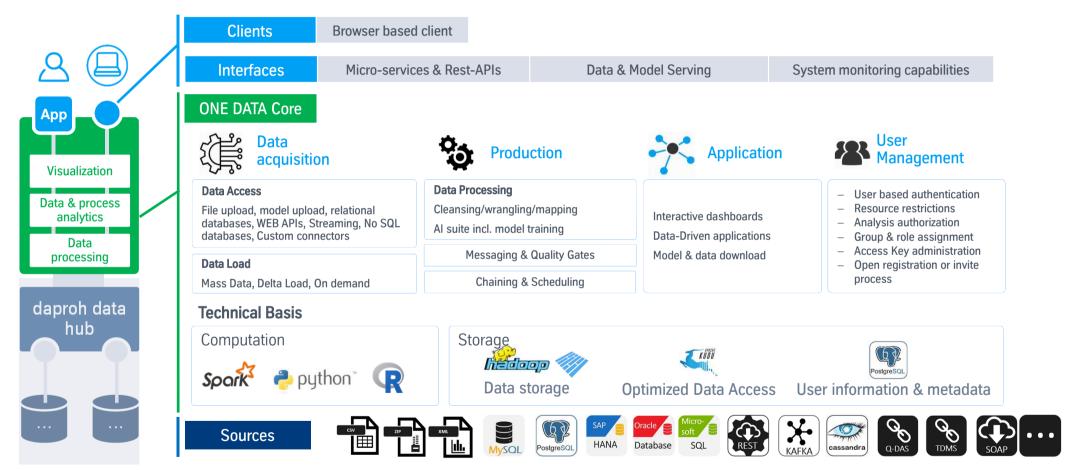
Intuitive and user centric user interface which avoids the complex process of data acquisition and allows different roles to access, to integrate, and to analyze enterprise data within a comprehensive cockpit.



e.g. Purchase-2-pay cockpit



Based on a modern Apache Hadoop and Spark architecture, the allows the processing and analysis of all thyssenkrupp's data formats and works within as well as non-daproh environments





Central element of our architecture is a multi-client capable Data Hub that centralizes data access, data processing and quality assurance and provides role-specific access to published clean data

Areas with high necessity for action

Data

- Access to different data sources via a central instance
- Transparency of data sources and their quality
- Quality assured and documented data

Models

- Flexibility and efficiency in building models
- Reproducibility and reusability
- Transparent stock of models and workflows

Flexibility & Quality

- Balance between flexibility and efficiency in conducting data science projects
- Clearly defined quality criteria

Accountability Clear roles and responsibilities in the field of data governance

Solution

Core elements of the architecture

