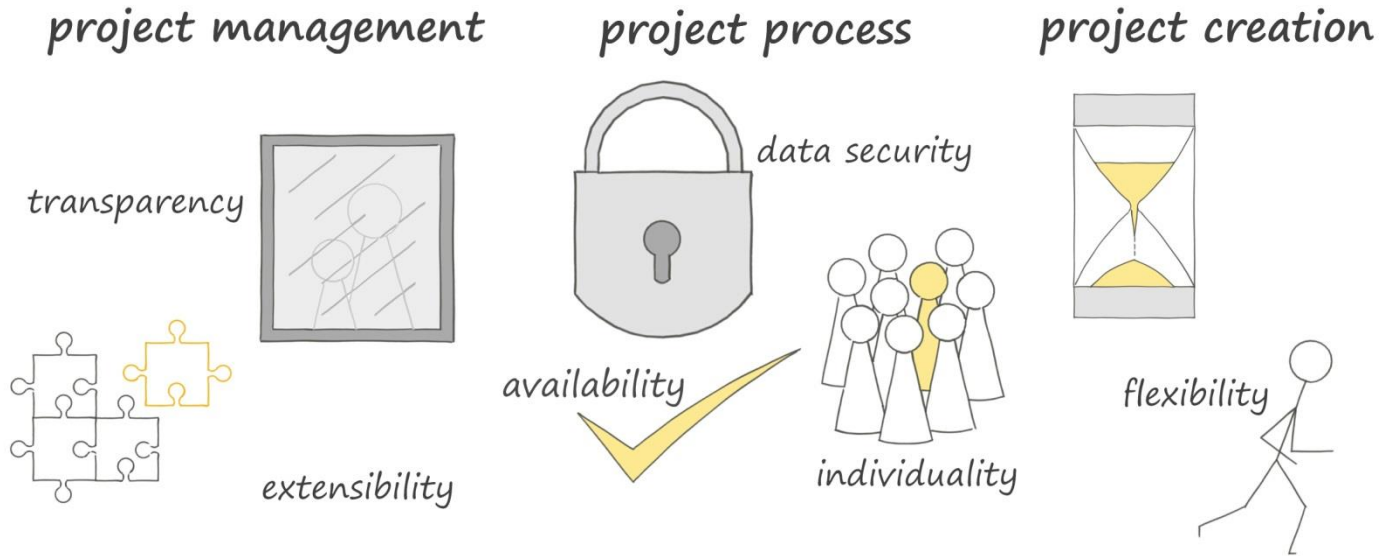GEFASOFT

GraphPic
SCADA System

Ingenious Engineering

Requirements and Features

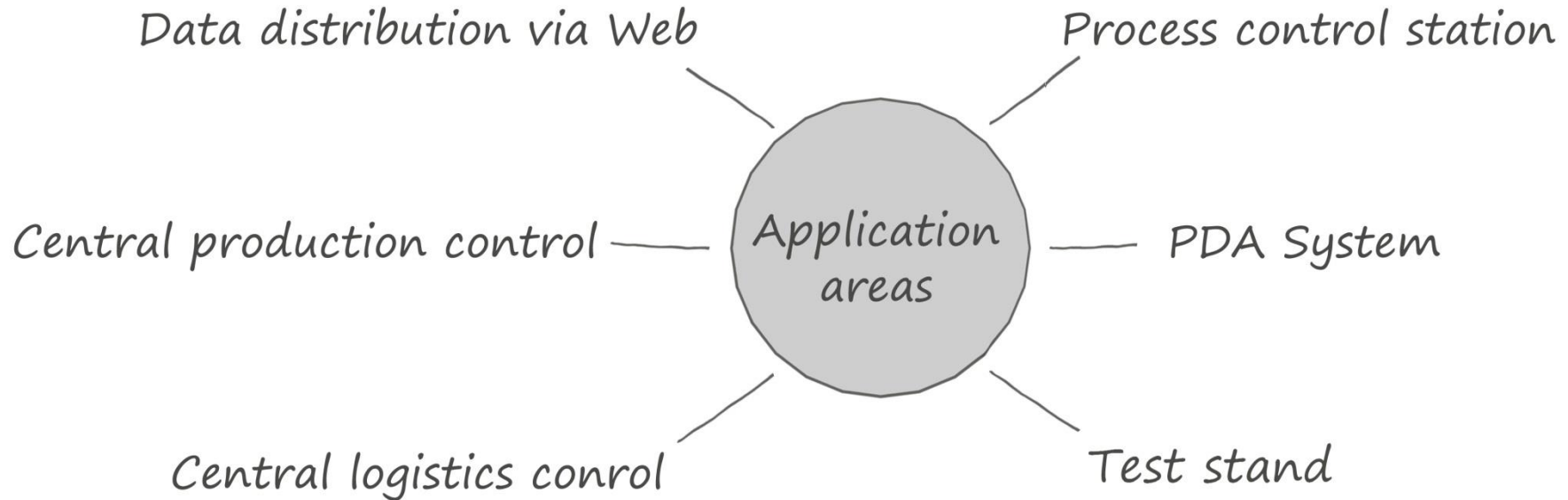It is not only the function of a SCADA-system to provide the usual performances, but also to generally provide assistance for an efficient working.

⇨ *High efficiency* during each phase of the project via perfected architecture:

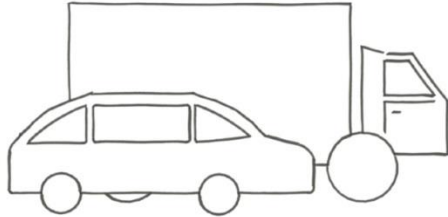project management   project process   project creation

transparency

data security

extensibility

availability   individuality

flexibility

2

Applications

Depending on the main task, GraphPic is in use for most different areas of application:

Data distribution via Web

Process control station

Central production control — Application areas — PDA System

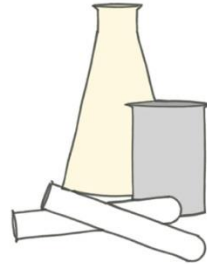Central logistics conrol

Test stand

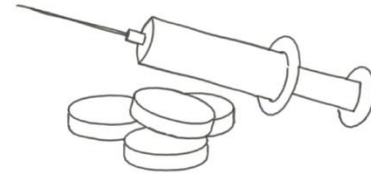# Sample Projects

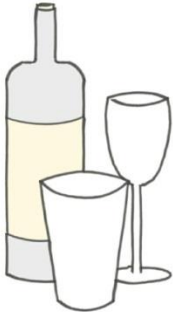## GraphPic is industry-independent.

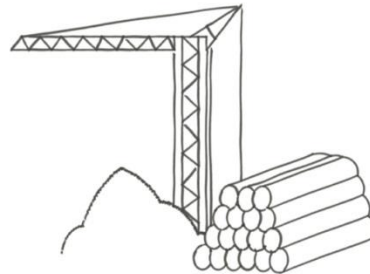Automotive Industry & Supplier

Chemical Industry

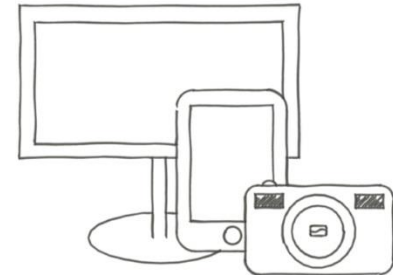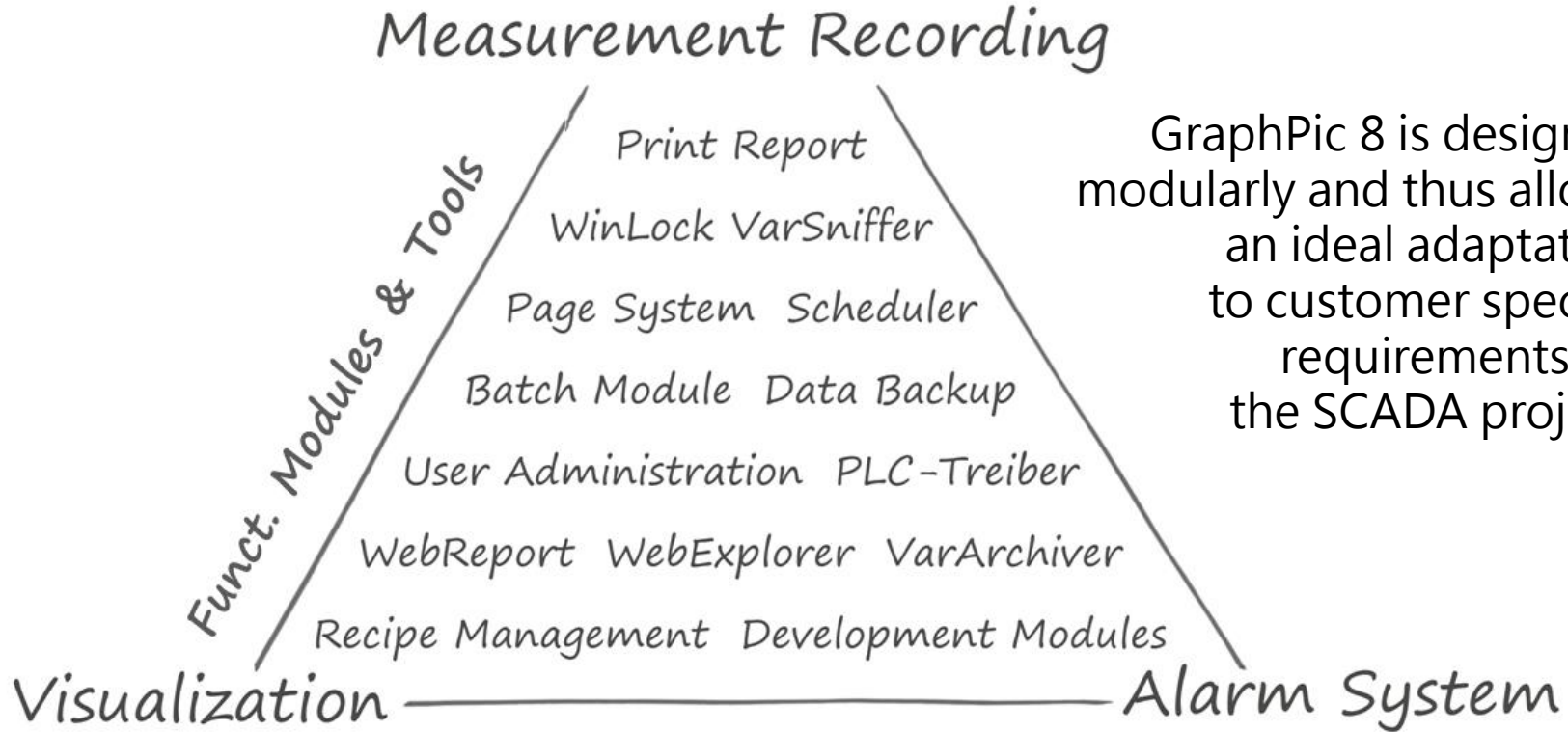Pharmacy

Beverage Industry

Green Technology

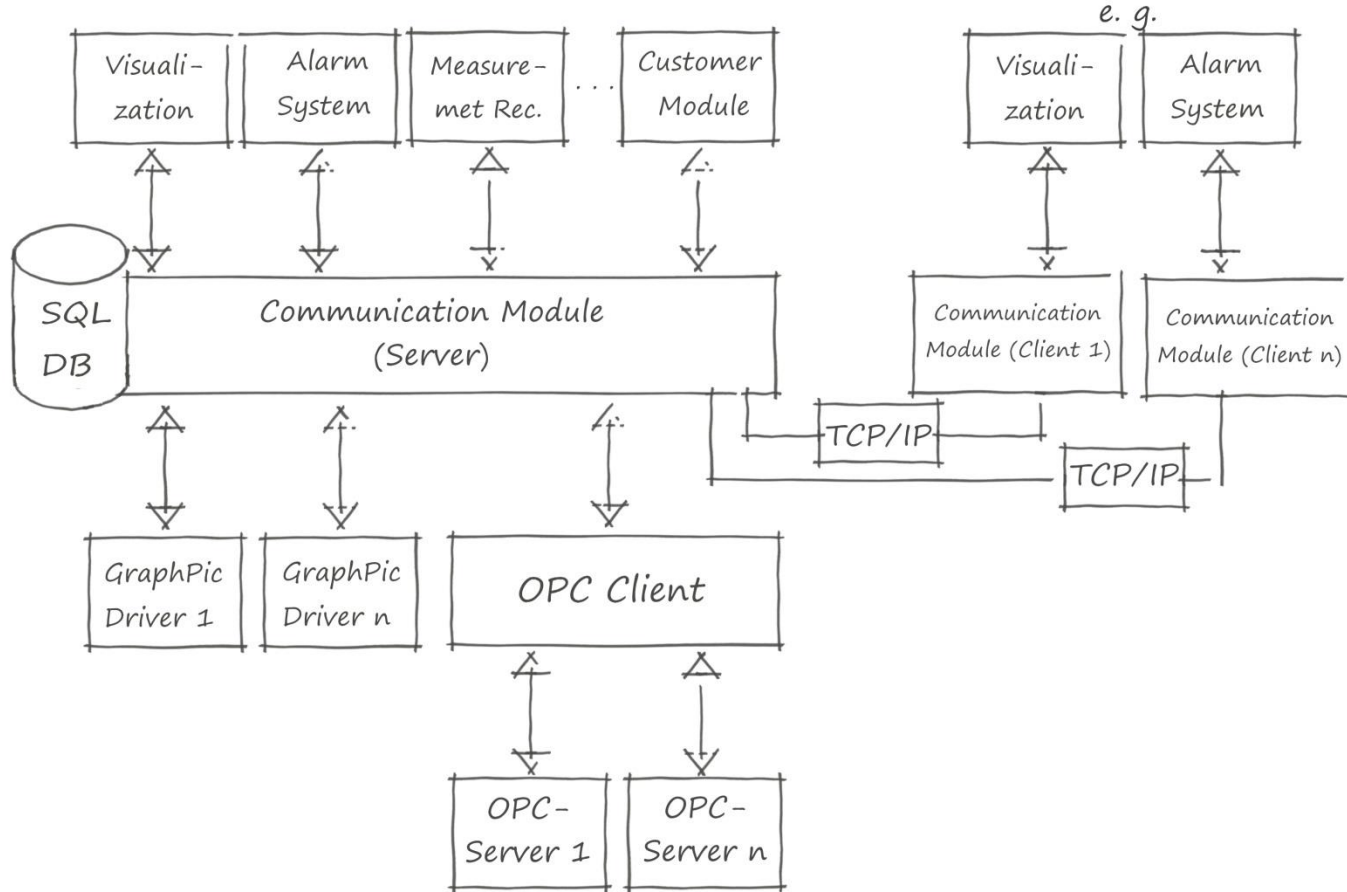Building Materials Industry

Media Technology
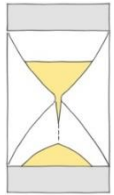
Modular Structure

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GraphPic 8 is designed modularly and thus allows an ideal adaptation to customer specific requirements for the SCADA project.

Architecture

Visualization

The visualization allows a graphical operation and navigation of the projected surfaces and displays variables and process images.

enormous time saving during project planning via real object orientation

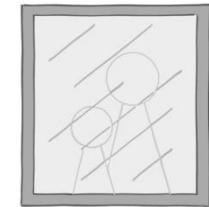detailed analysis of script processing via realtime debugging

flexible software control through extensive script performance

perfectly suited for international application due to multi-lingual posibility of project planning (e.g. Russian, Chinese)

clear structure and easy system maintenance through integrated version management

GEFASOFT

Alarm System

Displays current messages and archives these in the SQL-DB.

- logging messsages and statistics
- significant messages through displaying the report reasons and online-support for the occuring problems
- easy text maintenance through import functions
- high machine availability through detailed analysis via filter operations, tables ad charts
- exact calculation of downtime periods via defined work hours scheme
- fast reaction time possible through effective paging transfer of e.g. problems via voice

Display
Enter
Record
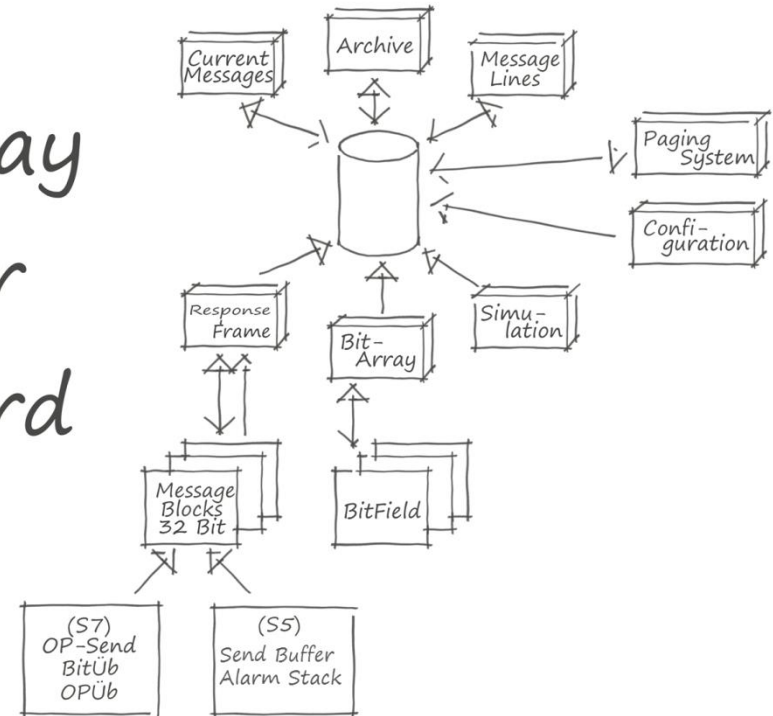
Measurement Recording

Displaying trend charts as well as archiving measured values, both are realized through the module measurement recording.

- detailed display via continuous zoom- and scroll functions
- ideal adjustment of the trend chart via automatic scaling of the axis
- creating individual layouts incl. Several trends
- different filling- and export functions for the measured data
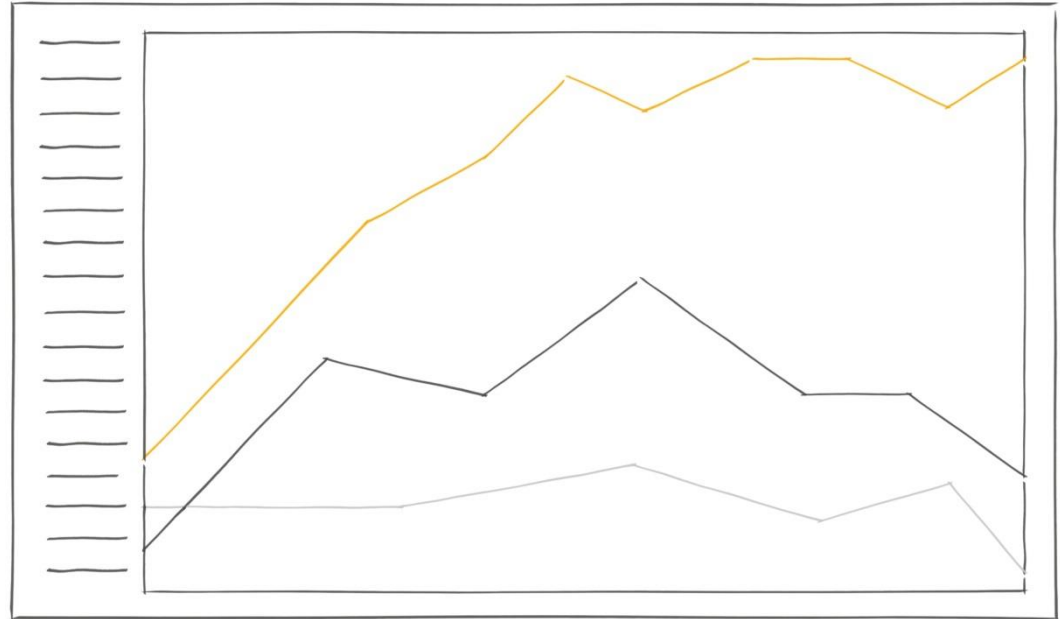
Data-Coupling and Data Management

Data-coupling is done via special driver units for most different driver units. A SQL-database is available for data storage.

- all common interfaces for the communication to PLCs or serial couplings

- flexible data connection via OPC interface

- data management and -handling through memory driver via local variables

- comfortable processing of variables via import and export functions

- recording and maintaining of data via MS SQL server incl. Comfortable DB management

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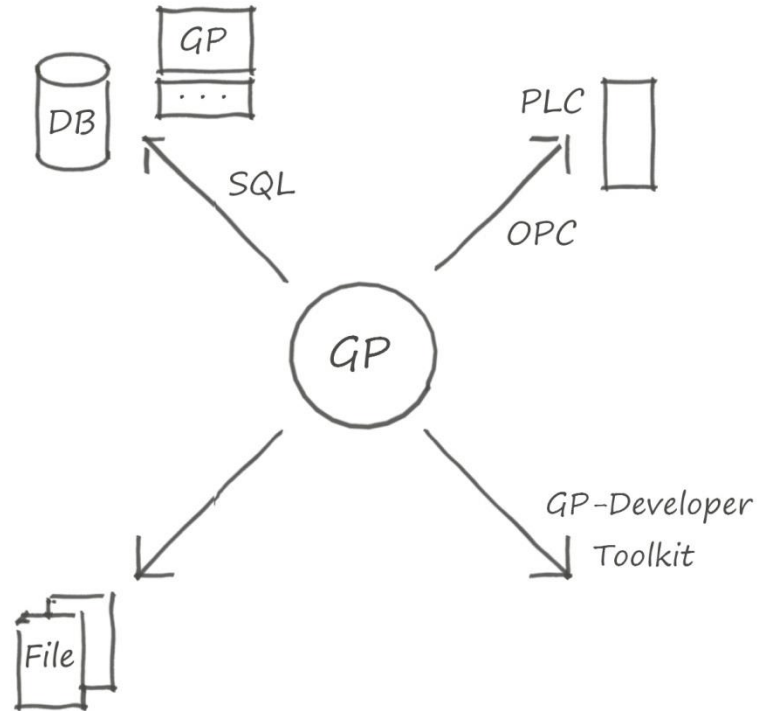
Additional Modules

A large number of additional modules extend the functionality of GraphPic 8:

scheduler- or time-controlled switching commands / processes
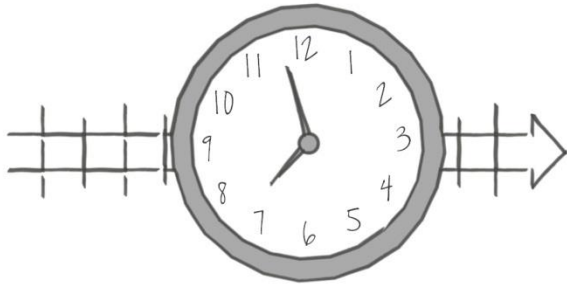
WebExplorer to integrate html-based functions
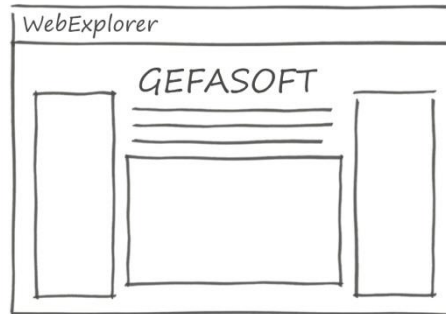
print and web reports for logging and for statistical analysis
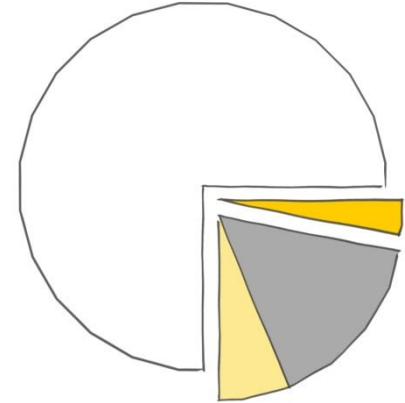
Features

With GraphPic 8, the GEFASOFT GmbH presents a fully developed product, which benefits from *more than 20 years of experience* in SCADA systems. Continuous further development, integration of customers requirements (.net, SQL-DB) characterize this product:

Efficiency – Flexibility – Price-Performance
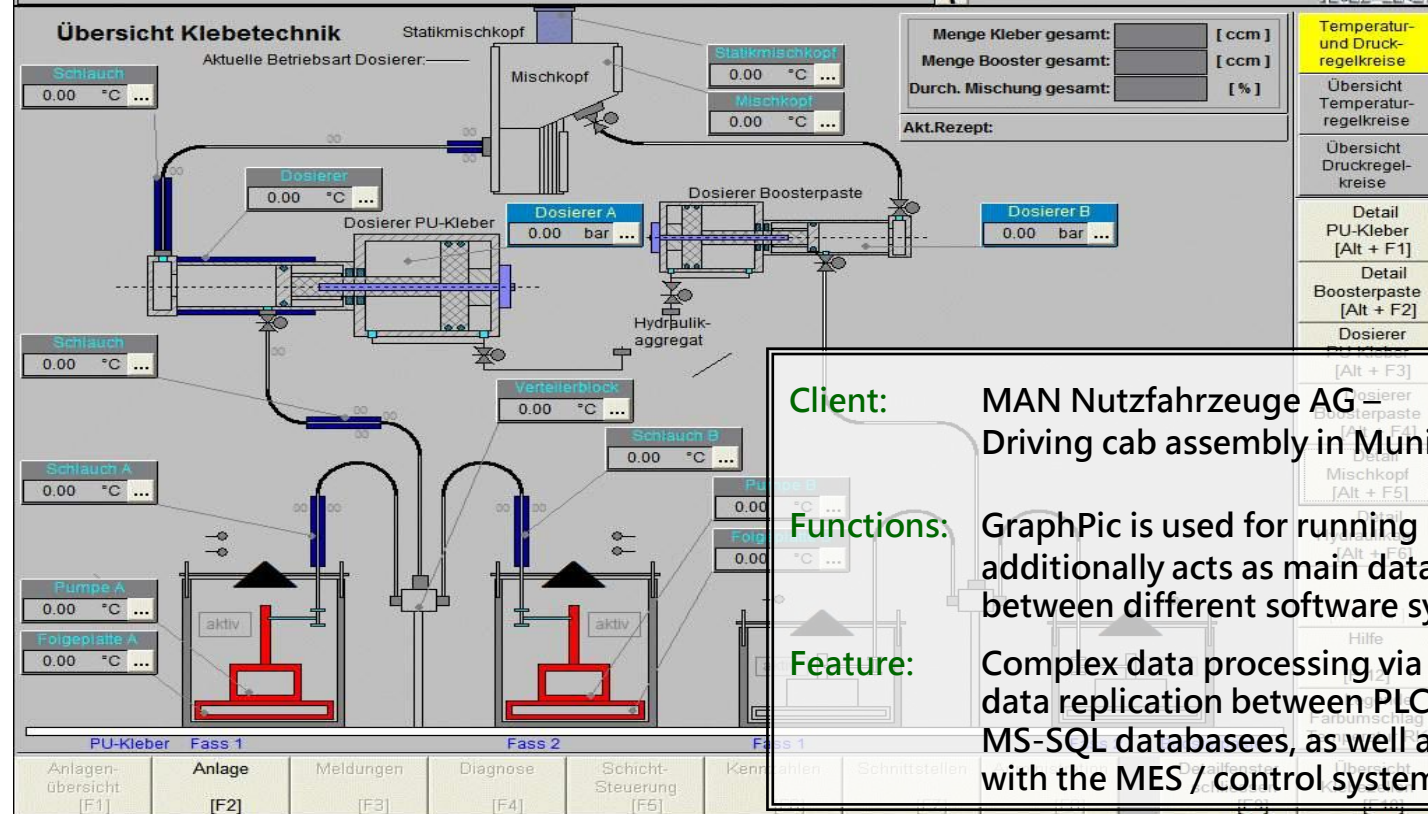
- standardization through real object-orientation (up to 60% time saving)
- transparency of the visualization application through versioning tools and central library
- easy project extension through modular design and open programming interface ("Developer Toolkit")
- unlimited amount of variables

Automotive Industry and Supplier

**Client:** MAN Nutzfahrzeuge AG – Driving cab assembly in Munich

Functions: GraphPic is used for running machines and additionally acts as main data interface between different software systems

Feature: Complex data processing via scripts for data replication between PLCs, Oracle and MS-SQL databasees, as well as communication with the MES / control system Legato

Chemical Industry

GEFASOFT
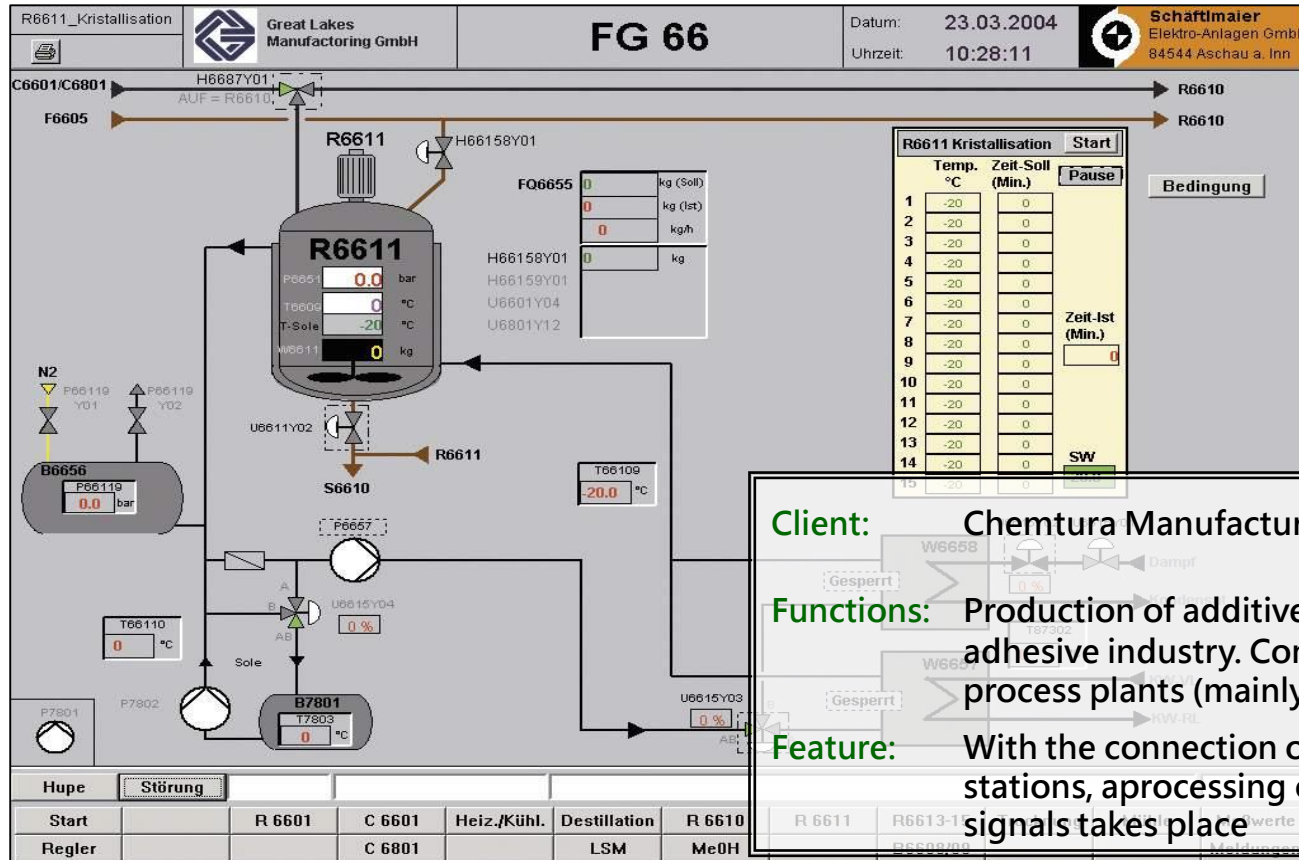
Client: Chemtura Manufacturing GmbH – Waldkraiburg

Functions: Production of additives for plastics, rubber and adhesive industry. Controlling and monitoring of process plants (mainly EX operation)

Feature: With the connection of 5 plants via 18 control stations, aprocessing of more than 5.000 signals takes place

14

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Pharmacy

Client: Roche Diagnostics GmbH – Werk Penzberg

Functions: Validated operator alarm system for recording and archiving highly significant system problems

Feature: Monitoring of 2.000 signals in 8 buildings with 32 control stations

Beverage Industry

GEFASOFT

Client: Ziemann Group – Ludwigsburg: TurnKey-projects for breweries – worls-wide applied

Functions: Controlling and monitoring of complex Batch processes of breweries

Features: Controlling the operations with up to 800 actuating elements; formulation management of more than 2.000 step sequences ans 12.000 set parameters

Green Technology

Client: Wurzer Umwelt – Composting Plant Eiting

Functions: Controlling and monitoring of the entire waste process

Feature: Controlling 15 partitions, recording of 90 process values

Building Materials Industry
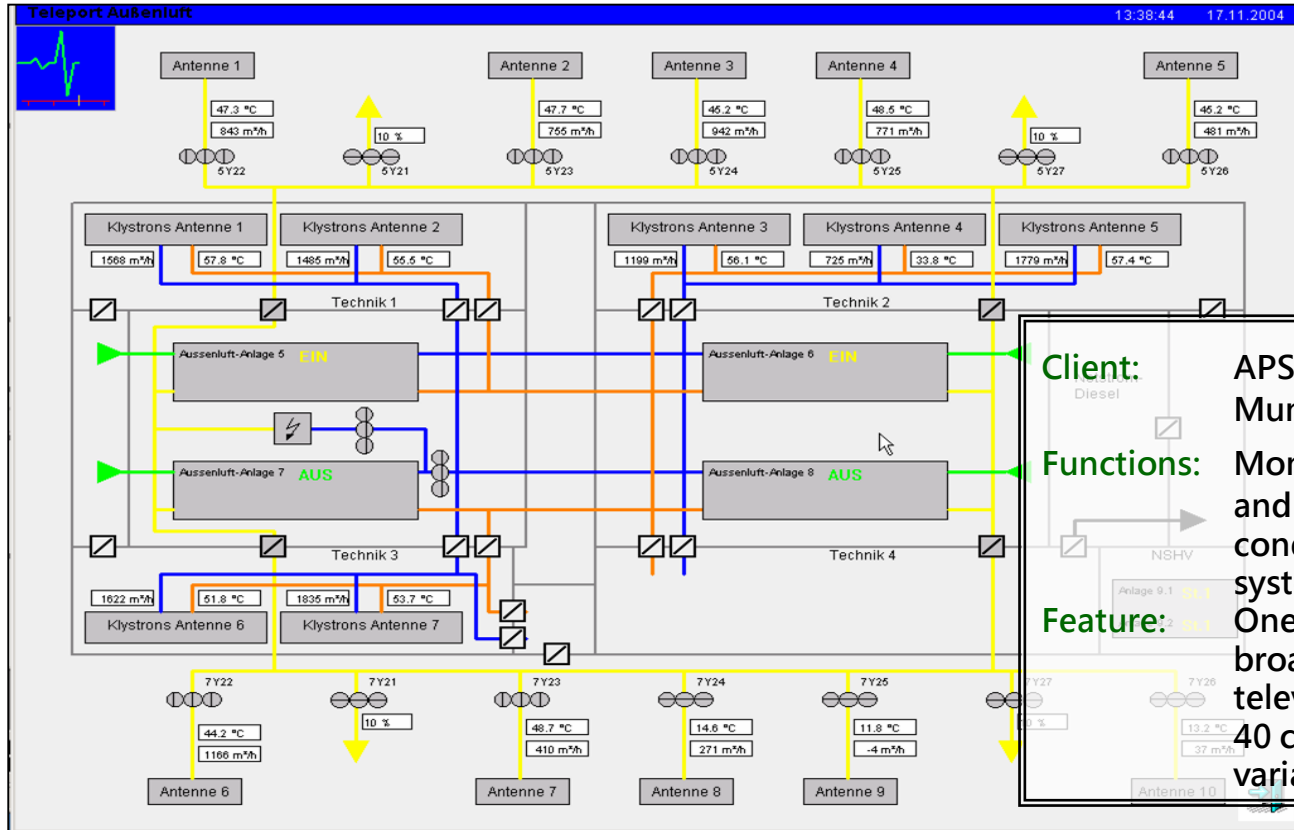
GEFASOFT

Kunde:	Xella Baustoffe GmbH
Aufgaben:	World-wide visualization standard in more than 20 plants
Merkmal:	Visualization and control of the entire production

Media Technology

Client: APS-ASTRA Platform – Munich

Functions: Monitoring the bus sytem and PLCs; control of air conditioning and ventilation systems (GLT)

Feature: One of the latest European broadcast center; editing and televising of sound and vision; 40 couplings (S7/S5); 3.500 variables via 25.000 messages

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Thank You for
Your attention.