



developments in dynamic, continuous and automated water quality monitoring



content

. 8

- overview
 - ENMO[®]hydro
 - co-operation
- conception
 - software & hardware
 - features
- future

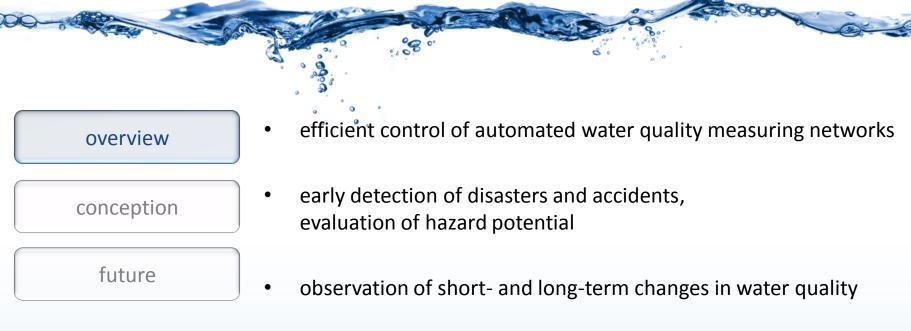


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ENMO[®]hydro



- innovative software environment
- a contribution to the compliance of the EU WFD





co-operation



- result of a co-operation project
- start: 2009
- live: 2011

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Gateway Hamburg Portal: data is made accessible to the public



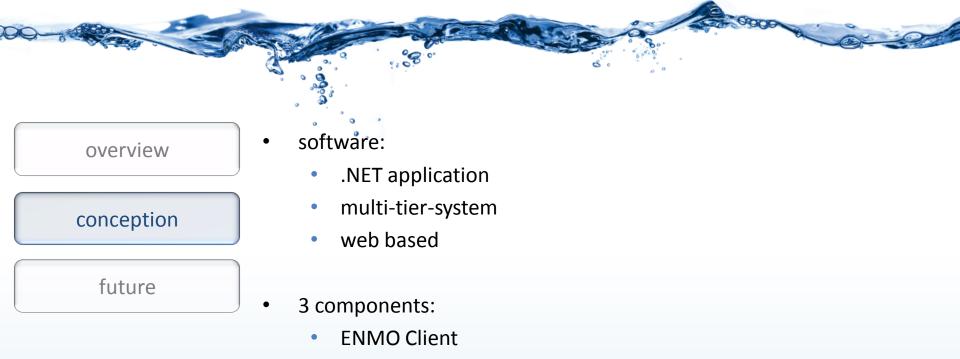
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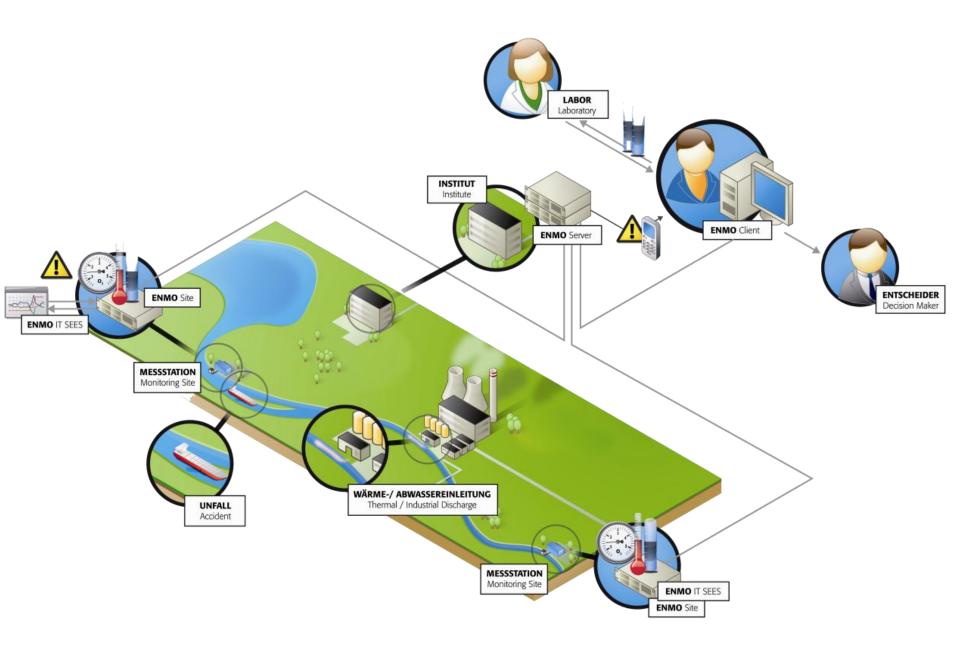


software & hardware



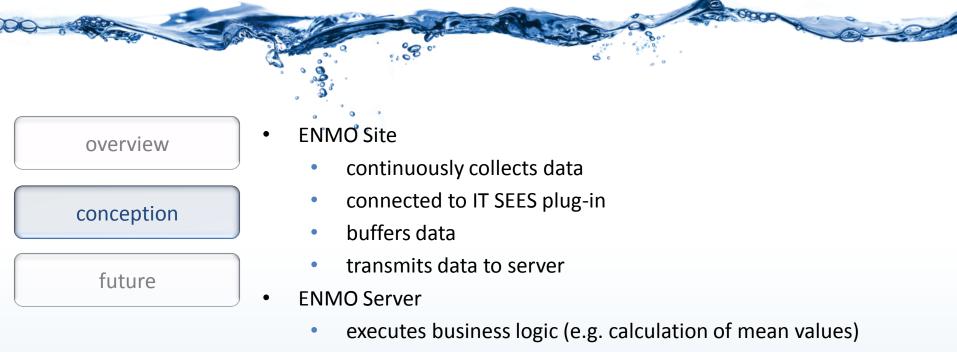
- ENMO Server
- ENMO Site







software & hardware

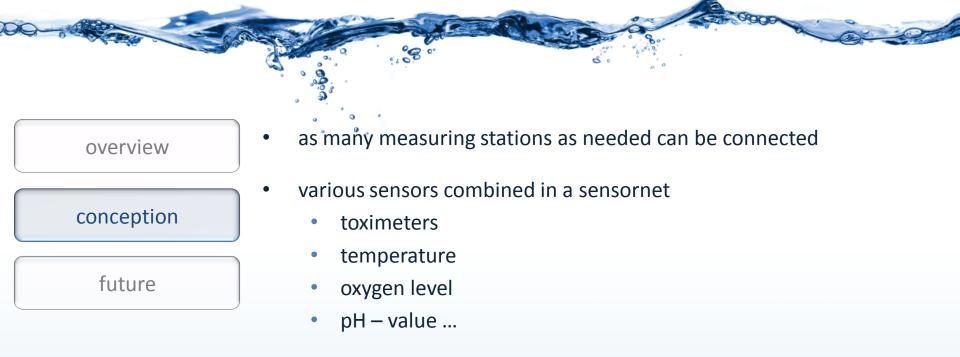


- collects data
- evaluation of incoming data
- performs actions such as sending SMS
- ENMO Client:
 - presentation, evaluation and validation of transmitted data
 - modern Windows GUI





software & hardware



 Matricon OPC Server standardizes all incoming data via MODBUS TCP





features



- effectiveness/promptness
 - works with emission-oriented alarm thresholds
 - early detection of anomalies
 - notification system
 - numerous options for data evaluation, illustration and export
 - unlimited access to data
 - online data transfer in scalable intervals



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- defined access rights per user
- integration
 - easily integrates to existing systems (web services)
 - visualization of measured data via web browser





features



- advantages
 - high information content of data: continuous measuring
 - up-to-date data: permanent data transmission
 - high quality data and reliability: remote monitoring
 - permanent availability of measured data
 - early detection of disasters, accidents, hazard potentials
 - reduction of personnel costs for measurements
 - reduction of costs of control in measuring stations
 - new tasks: e.g. device monitoring
 - monitoring and administration of devices / stations, data acquisition, data evaluation, data illustration, data export, quality control, notification and alarm system in ONE system





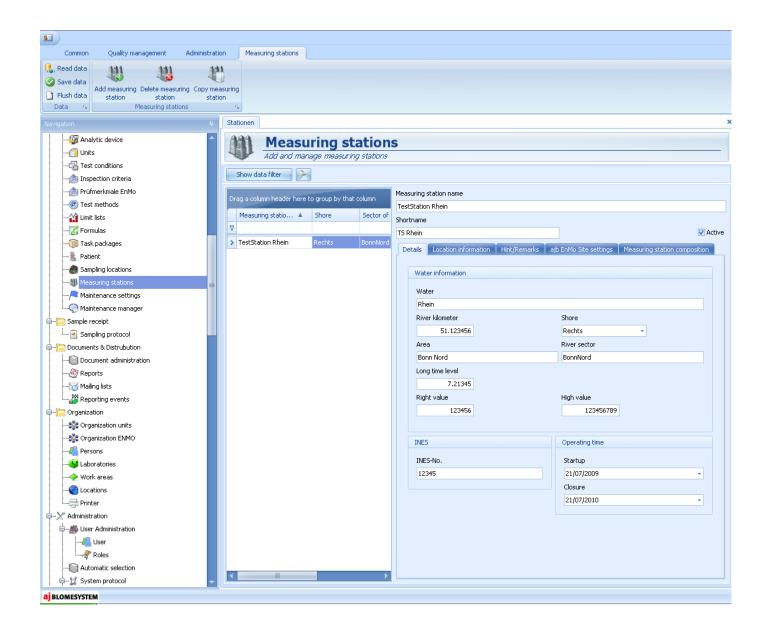
features

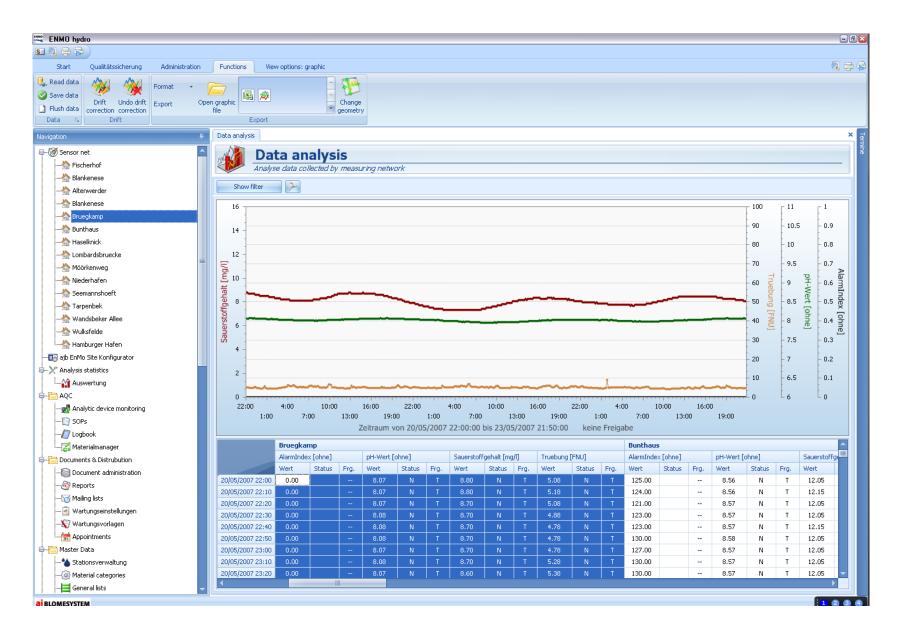
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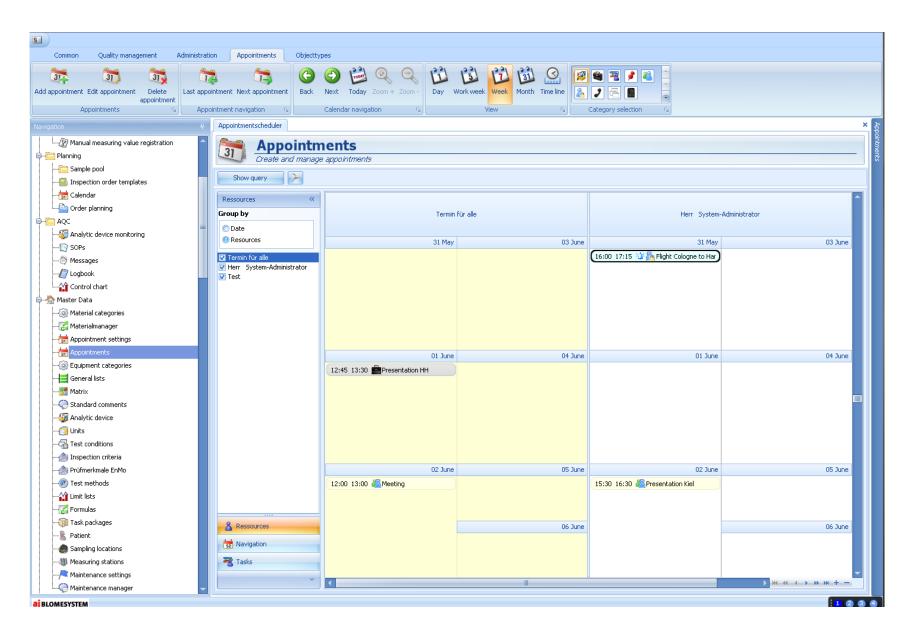
- possible applications: monitoring networks
 - countries
 - federal states / provinces
 - municipalities
 - rivers
 - dams
 - lakes
 - groundwater
 - water supply companies
 - industrial enterprises
 - ...

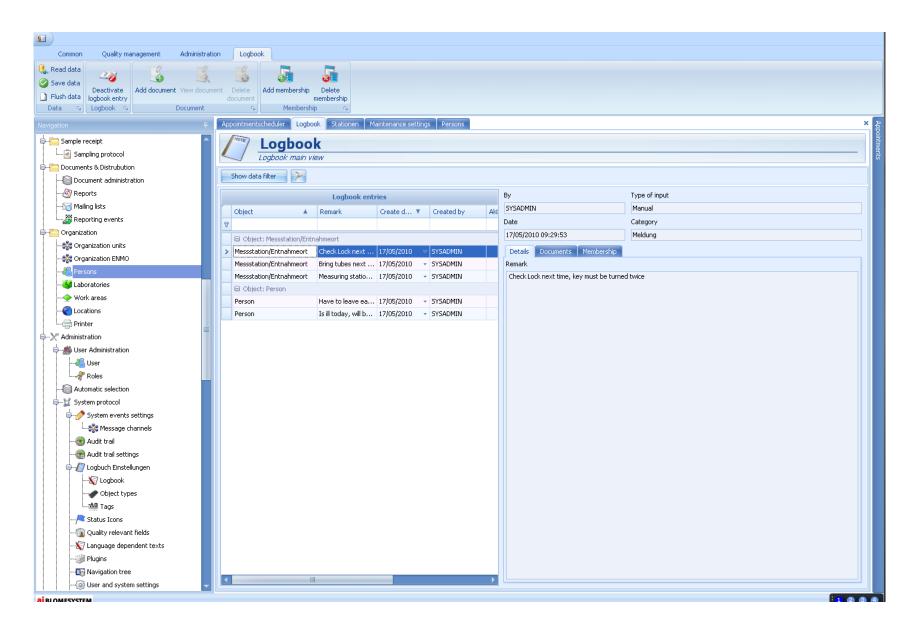


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- - GIS-connection
- environmental monitoring:
 - ENMO[®]air
 - ...





Questions?

Thanks for your attention.

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ADDITIONAL INFORMATION

schematic

