

Regarding to future mega-trends...

- Accelerated climate change,
- Increasing land consumption
- Growing spread of pollutants in hydro- and atmosphere
- Unmistakable species extinction
- Pollution by light or noise

...the importance and urgency are growing to act soon ...

- due to nature conservation,
- to assure a comfortable life in our cities,
- to guarantee water safety and sanitation
- to reach better sustainability
- to protect revenue
- and to identify non-revenue constellations



The good news - There's a powerful tool at your disposal: **GFM®Visu Environmental IoT**. So - why hesitate?

Your Benefits using GFM®Visu Environmental IoT

- Solve your pressing questions – as soon as possible
- Save time in tracking and integrating data
- Simplify workflows by maximum consolidation of applications
- Reduce cost in emergency maintenance

- More and more inexpensive Smart Sensors are available which allows to apply flexible measurement-arrangements in the field and leads to an integrated analysis of high-density-data-streams combined with remote sensing data and modelling.
- A broad internet-coverage allows an integrated near-time information gathering and fast delivery of data-driven management information for providing processes in planning, maintenance and operation,
- furthermore to include modelling for high quality forecasts to provide risk- or disaster management, immediately in case of emergency, or related to prevention and adaptation to climate change.

What you can expect

- Integrated Data Analysis Management by GFM®Visu provides actionable insights as an advanced pure web-based solution that leverages your existing system portfolio combined with ad-hoc-measurements based on a tailored complex event processing – the intelligent eye on the entire system and environment.
- You will reach a new level of online data visibility and analysis which helps to prioritise tasks, to reduce operational risks, to identify improvements, to lean planning and assure permission procedures - additionally this new digital transparency can be worked out for enhanced acceptance and to reduce legal risks.

Open and Scalable Connectivity

- Integrated Data from any third-party system (GIS, SCADA, Smart Sensors, web-Services, mobile sensor platforms and rovers) into one single time-space related, pure web-based management application that allows to deliver unified analytics and visualizations throughout your digital-collaborative-network in a secure and use-sensitive manner.

Visualization-Tools and Build-In Analytics

- Digital transparency and operational overview are driven by easy to use and big-data-proof Chart-Analysis, GIS-Features and Online-Monitoring on Data Streams. Specific Knowledge and Decision Gates will be defined to build tailored operators which are permanent monitored inside a Complex Event Processing, for anomaly-detection and documentation related to any online Sensor-Type, like pressure, discharges, quality, field alerts and derived key-values.

Intelligent Alerts

- Dashboards and Alarm-Systems will inform personalized via Email, SMS, visual by screen or enforced by acoustic signals, inhouse or external involved institutions and business partners. Each specific notice handling can be documented with additional comments.

Digital collaboration

- Team-working is provided by a agile user rights management and secure data-exchange using cryptographic-block-technology

Sensor-and Network Control

- The connectivity performance of the sensor network can be observed and any data stream can be checked for sensor-drift and -failures.

Open Source, maximum flexibility and future proof

- We offer a maximum flexible platform prepared for nearly any environmental use case we could imagine. Therefore we are able to extend our features into many applications, for example water-network performance and water-loss-detection, stormwater management, Environmental and River Quality Monitoring in regional and national scales.

Get in touch and describe your challenges – we are looking forward to find your solution!

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**German Water
Partnership**

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