

# Your WebGIS for the Oil & Gas Industry



## Customer requirements

Starting from initial design via contracting, construction, operations, maintenance all the way to decommissioning and final dismantling: Those workflows are interconnected and require planning and documentation throughout the whole life-cycle. This will succeed using a centralized information system that is capable of displaying all data (e.g. pipelines, anomalies/coating defects, splitters, sensors, also sites, leases, parcels, easements) in its spatial context. It will assist you in monitoring fulfillment of regulatory frameworks or environmental constraints plus help you document measures and precautions taken to ensure the safety of your staff.

Using Weboffice you screen and edit geodata in a web-based and simple to use UI. A suite of productivity tools supports all tasks: From editing into a central data repository via service generation for rapid information dissemination to spatial analysis and high-end output as maps and reports. It is just a few steps to create a project that combines role based usermanagement, process-oriented workflows, tight data-security and individually configured clients for office use, public information access or field-crew enablement. Integration of third-party systems like a Mining Mapping Application or document management software is easy using the supplied programming interfaces.

# Features and Workflows



## Create and maintain your assets

- Capture and display objects and their attributes with a spatial location: pipelines, registered defects, splitters, sensors, ...
- Link objects to photos, pdf-documents or plans
- Make use of open data (e.g. WM(T)S, WFS, OSM®, BING)



## Be current on all statistics/trends and monitor them in one central location

- Visualize spatial data, query it, create statistics
- Use full-text-search to find and retrieve element details
- View and analyze sensor information, supply chains and sites in near real-time



## Plan ahead for maintenance and future development

- Know about the „wheres“ of your resources
- Appraise effects of action taken
- Check on permitted emergency procedures to solve a malfunction
- Find all objects (e.g. safety devices, hookups) meeting certain criteria within a given perimeter
- Trigger activities for affected people/elements (e.g. serial letter, report, work order)



## Integrated Pipeline Management System

- Life-cycle management of pipeline-projects, overview of pipebooks, cathodic protection, ...
- Extended features like pipeline profiles, action tracking or class location analysis.
- Minimize environmental hazards by pipeline loss prevention
- Access your proprietary pipeline database schema, APDM or WebOffice PODS Spatial Enabled data model (based on PODS 6.1)



## Accurately locate objects/events

- Linear Referencing: Locate positions along a segment by its distance from a reference point
- Retrieve 3D-distances taking terrain changes into account



## Field work mobile solution and enhanced routing for enterprises

- Data entry of attributes and editing of geometry via mobile touchscreen device
- Document damages/accidents/maintenance needs using geo- or object-related photos
- Offer extended ad-hoc routing



## Fine-grained control of user-rights

- Detailed control of access and read/write/create rights (e.g. via LDAP-Integration)
- Define collaboration and sharing



## Create first-class reports

- Make use of predefined reports to document chronicle data, measurements, records, damages,...
- Adjust objekt-labels according to the current need by using multiline free labeling



## Create first-class reports

- Plot series: Select an extent that will result in a series of pages with the same scale
- Index plot: Maintain scale for linear features across multiple pages



## Integrate third party systems

- Use existing APIs to link to other software
- CartoPac, One Call, CCTV Leak Detection, Maximo, WebGEN or SCADA

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