

Your WebGIS for Utilities & Disposal use



Customer requirements

(Municipal) Utilities & Disposal need to be aware of the underlying infrastructure at any time. In case of an incident reaction has to be swift and efficient. Any staff involved should have access to centralized information - yet anywhere at any time – including maps of all objects and their current states. By integrating maintenance plans and real-time sensor data your activities turn proactive instead of reactive. Life-time of assets can be prolonged. At the same time you fulfill and document legal requirements (e.g. environmental), and ensure job safety for your most valuable asset – your staff.

Using WebOffice you will screen and edit your data in a browser based GUI that is easy to use. At your fingertips a customizable suite of productivity tools will assist you in any task: Capture data in a central data repository, publish services or offer results as maps, plots, elaborate reports. Share what the teams in your enterprise need. It is only a few steps to define a project including a role-based user model, process-oriented tasks, a tight security-framework and individually configurable clients for your use in the office, on public websites or on a workers mobile device.

Features and Workflows



Create and maintain infrastructure

- Location-aware, attributed and mappable trenches, ducts, manholes, building connections, valves, wells, pumps, waterworks, treatment plants, water preserves, real estate, buildings, transformers, switchyards, ...
- Link additional data (e.g. wiring schemes, pdf-documents, photos) to your assets
- Make use of other public sources (e.g. WM(T)S, WFS, OSM®, BING)



Supply information systems for up to date status retrieval and analysis

- Use a map-based interface to view, query and analyze any data (e.g. ducts, manholes, gate valves, length, invert, owner, temperature, ...)
- Visualize sensor data and incidents/warnings in real-time
- Built a register for water pipes and drainage
- Search through all attributes of all layers with the configurable full-text-search



Plan ahead for maintenance

- Find assets quickly when excavating
- Immediately have all permitted countermeasures at hand, when an incident occurs
- Find all objects (e.g. safety devices, hookups) meeting given criteria within a defined perimeter
- Trigger activities for affected people/elements (e.g. serial letter, report, work order)



Estimate effects of measures taken

- Appraise effects of action taken (e.g. network effects when closing a valve)
- Perform traces on a geometric network using GeoNIS



Accurately locate objects/events

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



Fine-grained control of user-rights for editing, viewing, querying

- Detailed control of access and read/write/create rights for authorization processes (e.g. LDAP)
- Define collaboration and sharing while insuring data integrity and safety



Field work mobile solution

- Data entry of attributes and editing of geometry via mobile touchscreen device
- Document objects as photo and retrieve them via the map



Use extended print/plot features

- 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



Create first-class reports

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



Integrate third party systems

- Use existing APIs to link software packages (e.g. BI, external databases, ...)

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