SWIFT

Swift™

Overview

Swift™ performs statistical analyses of municipal billing databases and provides important information to the municipal infrastructure manager. Swift™ also links with the water distribution, effluent collection and electricity distribution models for accurate demand prediction.

Our software is designed by engineers for engineers. We aim to simplify the modelling process during every step and make the power of GIS available to the modeller.

DATA MODEL LIVES IN GIS

The Swift™ model is embedded in Albion™ which is our in-house GIS platform.

The power of GIS can now be applied to the engineering data model, allowing the modeller to directly harness GIS tools when creating and editing datasets.

An example would be to select part of the data model using a spatial query, then refine the selection using a SQL text query. Finally the resulting filtered dataset can be populated interactively with data. This works directly on the engineering data model.

The more advanced modeller can create extensive selections or update queries using SQL, and see the effect immediately rendered in the GIS-based model.

Swift™ gives the infrastructure manager simultaneous access to accurate financial, spatial, and consumer information. This helps the utility to optimize its service delivery and income model.

Learn more about Swift here:

Swift™ Overview

Swift™ is the engineering interface between utility billing systems and GIS-based engineering models. It allows spatial analysis of utility treasury data including water and electricity consumptions, customer information, land use and zoning data, tariff analysis as well as the payment history per customer or rolled-up per suburb.

Swift™ allows the user to obtain accurate demands for modelling purposes and also report non-revenue water/electricity, for the prioritization of revenue enhancement interventions.

Key features of Swift™

Swift™ produces statistics used in the following:

- Water/electricity demand management initiatives
- Water/electricity audits
- Non-revenue water/electricity calculations
- Consumption profiles for user defined categories
- Water, sewer and electricity master plans
- Identification of faulty meter readings
- Water balance calculations according to IWA
- Designing of water/sewer/electricity tariffs
- Performing revenue enhancement

Watch videos on YouTube here:
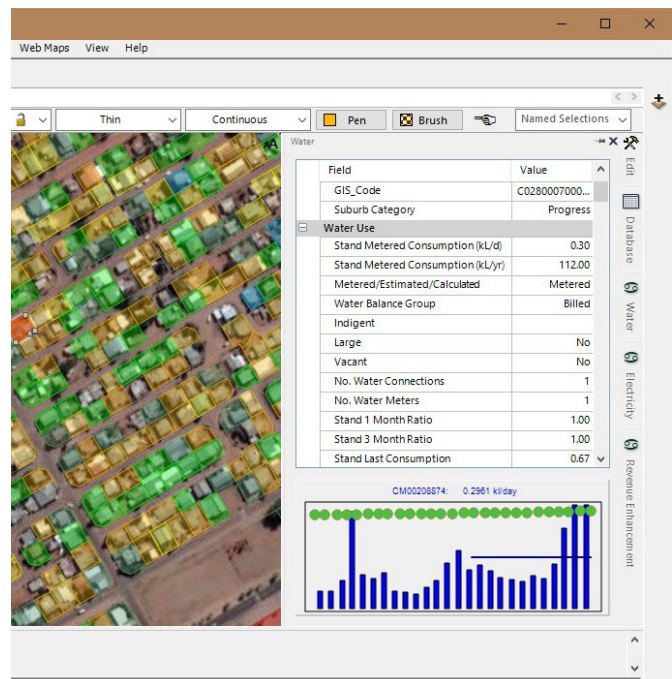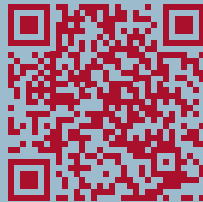
GIS, imagery and statistical data integration

GIS themed views of data model

A wide selection of predefined themes are available to render the model in the GIS, for example by parcel land use or occupancy. These can be customized by the user or new ones can be created.

Tabular views of data model

Model tables are dynamic, synchronized, fast and practically unlimited in size. The modeller can have multiple user customizable layouts with field groupings in colour.

Interaction with web services

Vast amounts of information are available on the Internet. Accessing Internet based resources through web services, allow Swift™ to display background maps from sources like Google™, Mapbox™, Bing™ or OpenStreetMap™. In addition Street View is now integrated in the software.

Extensive model reporting system

A new SQL-based reporting system provides access to predefined reports. These reports can be customized by the user.

Swift™ ensures productivity by providing the modeller with access to user customizable GIS based themes and an extensive model reporting system.

Geospatial and tabular reports