



WATER INFRASTRUCTURE MANAGEMENT SOLUTION

Water Infrastructure Planning and Operations Management Solution

WATER INFRASTRUCTURE MODULE

The IMQS Water Infrastructure Module is a planning and operations solution enabling easy and effective water infrastructure management, centralising and digitising your entire water reticulation network on one easy-to-use online spatially enabled platform, accessible from anywhere.

Our water infrastructure module integrates with specialist hydraulic software packages to offer a geographically linked, infrastructure-lifecycle focused representation of your water reticulation network.

We centralise information, that links directly to a city's asset register, enabling users to easily access asset information such as performance, utilisation, criticality and replacement value. Technical information regarding your water network such as pipe connectivity, length, material and diameter are also easily accessible.

IMQS empowers your municipality to better plan, develop and manage your water systems helping you to achieve greater levels of service to your customers. The IMQS water infrastructure module digitises and centralises your water network onto an easy-to-use platform and offers geographic insight into a city's hydraulic system, empowering data-driven decision-making.

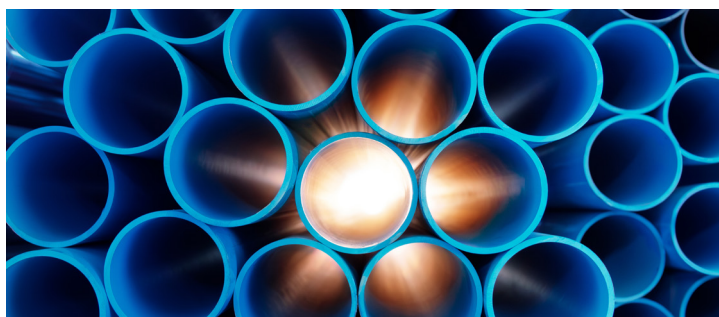
WHO WE ARE

IMQS constructs business management solutions for owners of infrastructure asset portfolios, to effectively realise their strategic objectives.

Our team of management consultants are committed to conceptualising solutions that enhance the value of your organisation's physical assets, while you focus on the work that matters – delivering key services to your valued customers.

We believe that healthy assets create a healthy society and impacts the lives of people, at all levels, from all communities, on a daily basis.

IMQS has provided proven Infrastructure Asset Management (IAM) Solutions & Services to government and private organisations for more than 20 years, locally and internationally.



KEY FEATURES

MASTERPLAN



The IMQS platform provides a comprehensive and strategic planning tool for establishing masterplans outlining the design, development, and management of your water reticulation network, helping you to plan for a sustainable future. Our solution offers a spatial representation of current and future water-network related projects. Designed to provide engineers with a powerful tool to spatially visualise projects and their effect on the Future Model.

OPERATING SCENARIOS



Operating scenarios enable users to spatially view various scenarios related to the planning and management of your water network. These alternate scenarios may represent theoretical or actual scenarios related to your current and future (planned) water infrastructure. IMQS enables engineers to easily model the effects of changes to a water network over time in the form of a Future Network Model, which offers real insight to future project planning and budgeting.

TELEMETRY



Keep track of the operational status of your water network by receiving regular live updates from our implemented telemetry solution. By gathering data from sensors linked to your reticulation network we empower you with valuable information to enhance your operations management. Each cluster of sensors is represented by a symbol on the map and provides users with intelligence to make effective decisions.

PIPE ISOLATION TOOL



The IMQS pipe isolation tool provides a spatial view of all valves linked to a section of a water pipe or pipeline system enabling the effortless isolation of pipes for maintenance, repairs, or other operational purposes. This powerful tool helps save time during emergencies by helping users to quickly find and close the right valves in order to minimise water losses. The functionality, moreover, supports planned maintenance on water pipes by ensuring that all valves are closed to avoid the unnecessary loss of water.

UPSTREAM / DOWNSTREAM TOOL



Easily determine the source of the water flow in any part of your network by using our upstream tool, such as a reservoir feeding into a selected pipe segment. With downstream tracing a user can determine the most immediate pipe network that is supplied by a selected pipe segment. Importantly, this functionality allows users to determine the impact on the downstream network when the flow of water to a selected pipe segment is cut off.

CONNECTED STANDS



IMQS enables you to identify all stands that are connected to a pipe segment. This tool can be used in conjunction with Pipe Isolation and Upstream/Downstream to quickly identify all stands that will be affected when a pipe is isolated or when the downstream flow is cut off. This tool is ideal to use during emergencies or planned maintenance, and to identify all customers linked to a selected stand in order to inform them of any interruptions.

KEY FEATURES

REPORTS



IMQS allows you to generate and access reports that facilitate planning, tracking and transparency. All reports are configurable and accessible on the IMQS platform. The reporting system is based on standard engineering reports that can be viewed on the IMQS reporting platform. Reports facilitates effective and transparent internal and external communication and allows for better interdepartmental cooperation, customer communication and stakeholder presentation.

THEMES AND LAYER MANAGEMENT

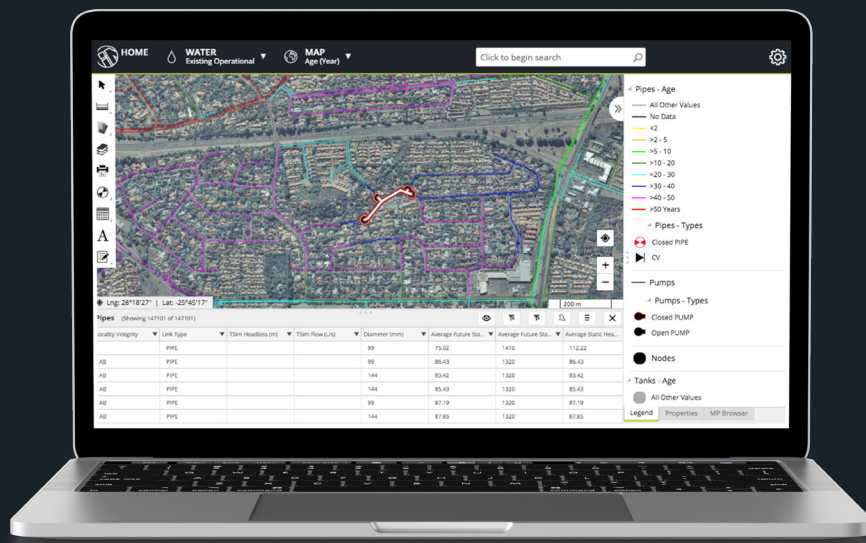


Our platform allows users to navigate between multiple themes and layers, enabling users to easily interpret data by spatially displaying map objects in the form of shapes, symbols and colours. A theme comprises multiple layers, where each layer contains data of the same type like water pipes, valves or water sources. Each layer in turn uses one field within the dataset. This means that values contained in the field are grouped into ranges and each range is then reflected as a specific colour on the GIS Map.

INTEGRATION



While IMQS maintains its own powerful GIS system, the module integrates with other GIS ERP systems. This offers users the freedom to work on their preferred GIS platform without having to waste time by switching between systems.



BENEFITS

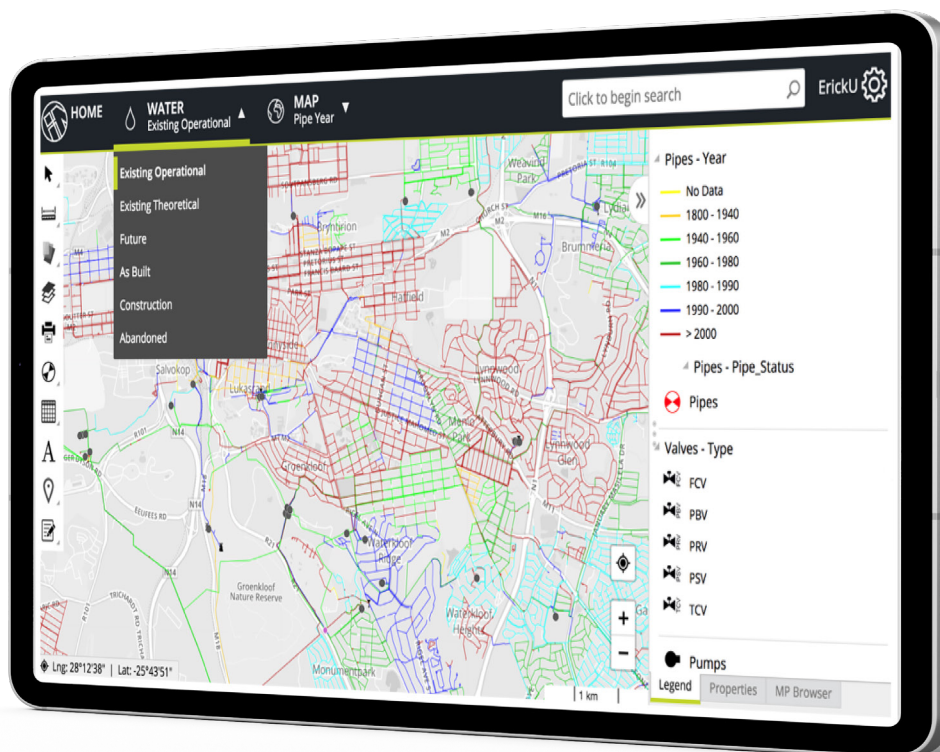
- Manage your water reticulation network on one central platform
- Effectively plan for a sustainable future with our masterplan capabilities
- Easily model the effects of changes to your water network
- Enhance your operations and decision-making with live telemetry data
- Save time and minimise water losses during emergencies
- Effortlessly determine any source of water flow in your network
- Quickly access asset information such as performance, criticality and replacement value
- Dynamic reporting for enhanced visibility and communication

TECHNOLOGY

The IMQS web-based platform is highly flexible and enables effective infrastructure lifecycle asset management. Due to its high level of configurability, IMQS offers a highly flexible platform able to produce tailor-made solutions. Digitally transform your organisation with IMQS.

TECH BENEFITS

- Configurable
- Customisable
- Cloud-based
- User-friendly
- Fast and secure
- Seamless deployment



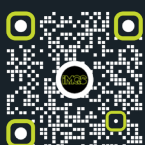
CONCLUSION

The IMQS Water Infrastructure Module empowers municipalities to better manage their water infrastructure network. By implementing our online platform, municipalities can achieve significant improvement in customer satisfaction, data dissemination and communication.

Our system facilitates current and future planning, streamlines proactive and reactive maintenance and empowers informed decision-making. The visualisation of information, as well as innovative reporting functionalities, makes IMQS a key node in the communication between municipal stakeholders, departments and the public.

TO GET IN TOUCH, SCAN THE QR CODE

Email: info@imqs.co.za



IMQS