



WATER PIPE REPLACEMENT PRIORITISATION SOLUTION

Water Pipe Replacement Prioritisation and Management Platform

WATER PIPE REPLACEMENT PRIORITISATION MODULE

The IMQS Water Pipe Replacement Prioritisation (PRP) module provides a comprehensive platform for proactively managing the replacement and risk related to a city's water reticulation network. Our solution provides vital information empowering you to effectively plan maintenance activities and prevent catastrophic failure of your critical assets.

Our platform enables a proactive approach to the preventative maintenance of your infrastructure resulting in time and money savings. IMQS provides critical asset condition data including risk factors such as the Likelihood of Failure (LF), Frequency of Failure (FF), and Consequence of Failure (CF). These additional risk factors empower you with important information concerning the pipes in your network with the highest risk of failure, allowing you to effectively prioritise replacement.

Limited funds prohibit the continuous replacement of any water network. Therefore, the effective management of funds is paramount and replacing the most critical pipes at the right time needs to be managed effectively. The IMQS Water (PRP) module reports on the risk analysis results conducted on each pipe in a network and displays a clear list of prioritised pipes to be replaced, including replacement costs. The IMQS Water (PRP) module digitises and centralises your water reticulation network onto an easy-to-use platform, 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

SCENARIOS



Our platform allows users to effortlessly differentiate between individual or rolled up areas, such as suburbs, regions, drainage areas or wards. These areas can further be displayed by bulk or network pipes on a spatially enabled map. This functionality allows you to view the most critical areas requiring pipe replacements.

THEMES & LAYER MANAGEMENT



IMQS 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 land use, zoning and ward. 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.

RISK FACTORS



Our solution goes beyond analysing the current condition of your assets by also analysing and providing critical information regarding risk factors such as Likelihood of Failure (LF), Frequency of Failure (FF), and Consequence of Failure (CF), Remaining Useful Life and Pipe Replacement Priority. These risk factors empower clearer decision-making in the maintenance and replacement of your assets.

TECHNICAL AND REPLACEMENTS COST DETAILS



Detailed properties of each pipe such as assessed risk factor results, Geometric Data, Area, Pipe Age and Pipe Material is displayed on our platform. Future planning and budgeting are enhanced by displaying the replacement cost of each pipe and the Remaining Useful Life. Our reporting solution provides a prioritised list of pipes for replacement empowering you to make informed decisions on how to allocate funds.

GPS COORDINATES OF FAILURE LOCATIONS



GPS coordinates of past failure locations are spatially displayed on a map. IMQS provides map functionality to display these coordinate points, along with the replacement priority of the water pipes in a city's system.

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.

KEY FEATURES

GRAPHS



The graphical representations within properties provide an interactive interface for users to view analysed risk factors. Each graph is selectable and provides a view of the contributing percentage of the individual sub-factor for each risk.

INTEGRATIONS



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

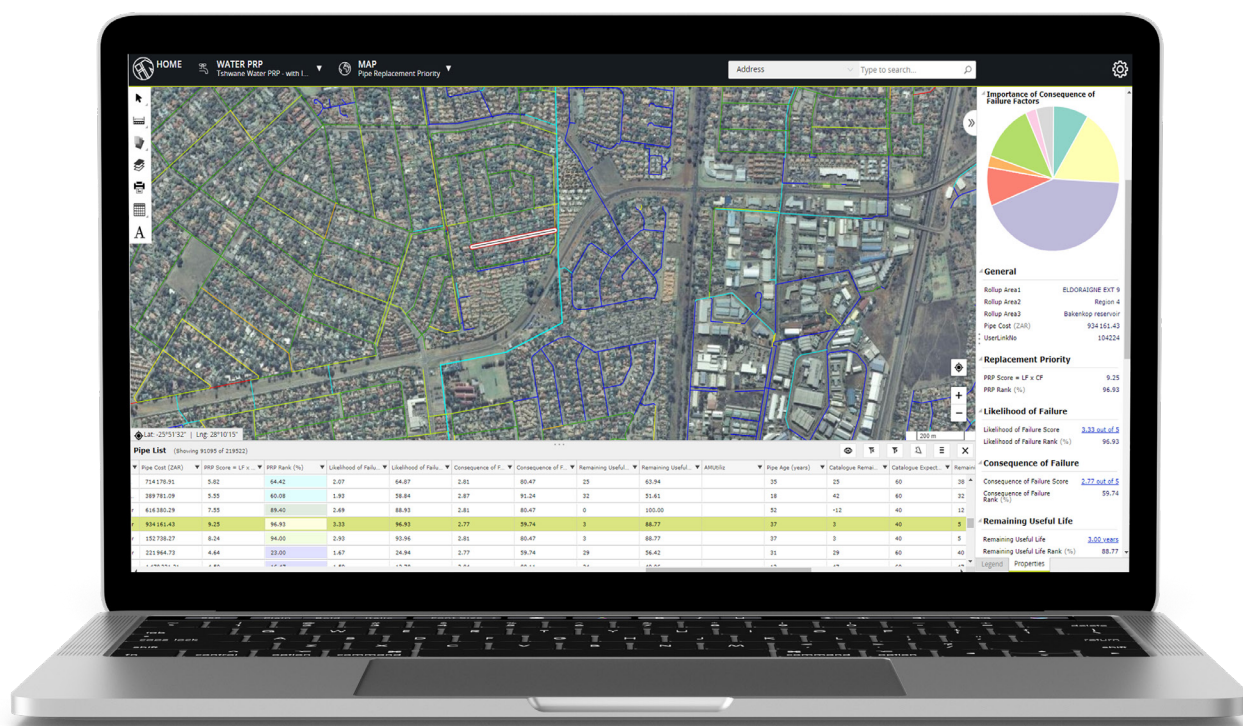
- Manage your water network on one central platform
- Quickly view the condition of your assets
- Easily determine the most critical areas requiring replacement
- Prioritise assets requiring replacement with our risk analysis results
- Quickly access the replacement costs of your asset
- Effortlessly view technical information regarding your water pipe network
- Spatially view past failure locations with GPS coordinates
- 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