

Related Software

MRP Water integrates with SynerGEE Water, GL's world-leading modelling tool. SynerGEE allows you to run a host of analyses such as fire flow, reliability or water quality to add to the decision-making variables available within MRP. Replacement results from MRP or other 'what if' scenarios can be also be quickly evaluated in SynerGEE to provide a complete assessment of the replacement program.

The GL Advantage

Industry-leading Experts Delivering World-Class Solutions

GL's comprehensive knowledge and experience in the water industry is unmatched around the world. Not only do we supply you with software products tailored to your individual needs, but we also offer comprehensive services relating to all safety and efficiency aspects of managing, maintaining and investing in a distribution network.

Technical Support

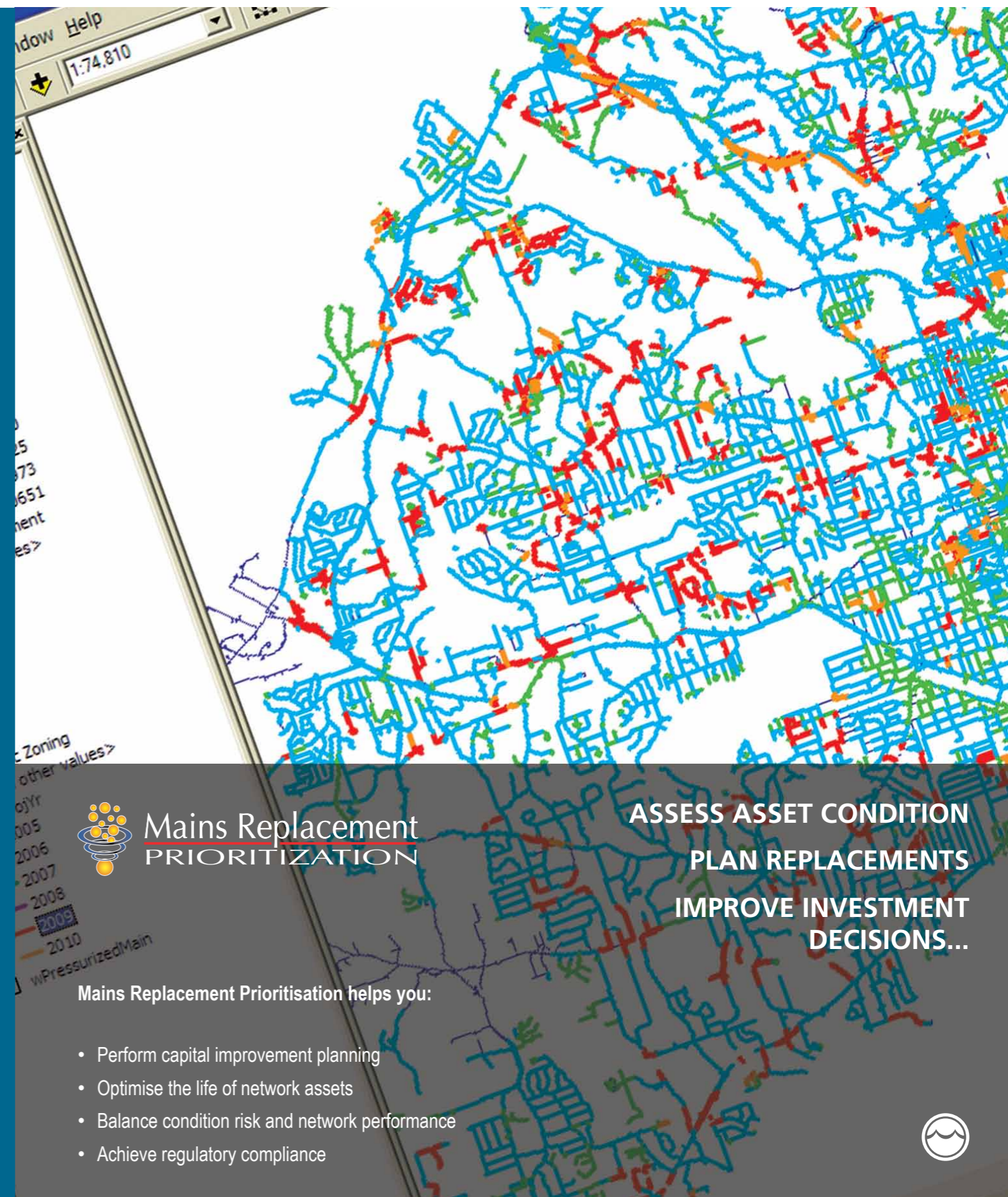
When you choose GL, you're not just getting the world's best asset performance knowledge capability, you're also getting the most obsessive technical support in the industry. Our team of professional engineers is committed to delivering world-class support, training and education to you. Rest assured that our technical support team is ready to help you get the most out of your solution.

Strong Integration and Partnerships

GL's MRP Water solution is unmatched in providing you with complete information on the condition of your assets as a result of your asset management efforts as well as its ability to integrate with other GL products and GIS systems. MRP runs on top of ESRI ArcView and the underlying ESRI ArcGIS distribution data model. GL proudly partners with ESRI and other GIS and technology leaders to bring you the most powerful and comprehensive solutions available.

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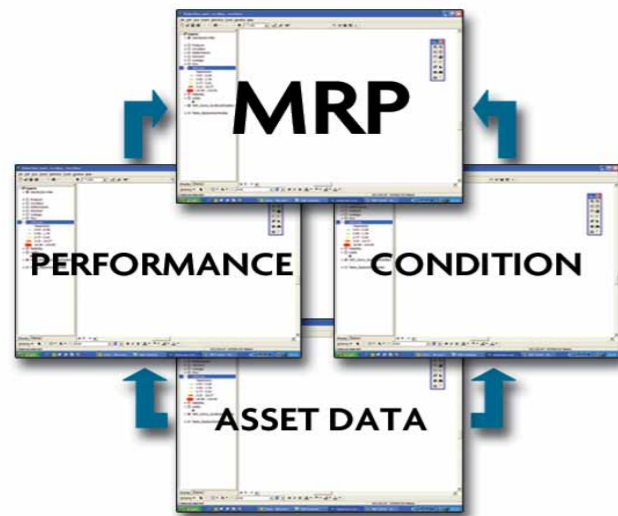
The Challenge

Your company's operations and engineering staff are responsible for the integrity of your water distribution mains. You face pressure to plan a capital improvement program that will ensure replacement and rehabilitation are targeted for best value. You need to improve customer service levels and minimize repairs while meeting the demands of regulators and stakeholders. GL's MRP solution can help you achieve this and more.

Our Approach

MRP is a strategic decision support tool designed to give you a comprehensive pipeline asset management solution. This allows you to assess condition and network performance, and devise effective replacement and rehabilitation programs. MRP provides you with a geospatial tool that:

- Computes the future condition of water mains
- Predicts the rate of change in condition and performance over time and future deterioration
- Allows for the evaluation and comparison of different multi-year replacement programs
- Facilitates the development of replacement strategies based on capital expenditure budgets or regulatory requirements for replacement or leak reduction

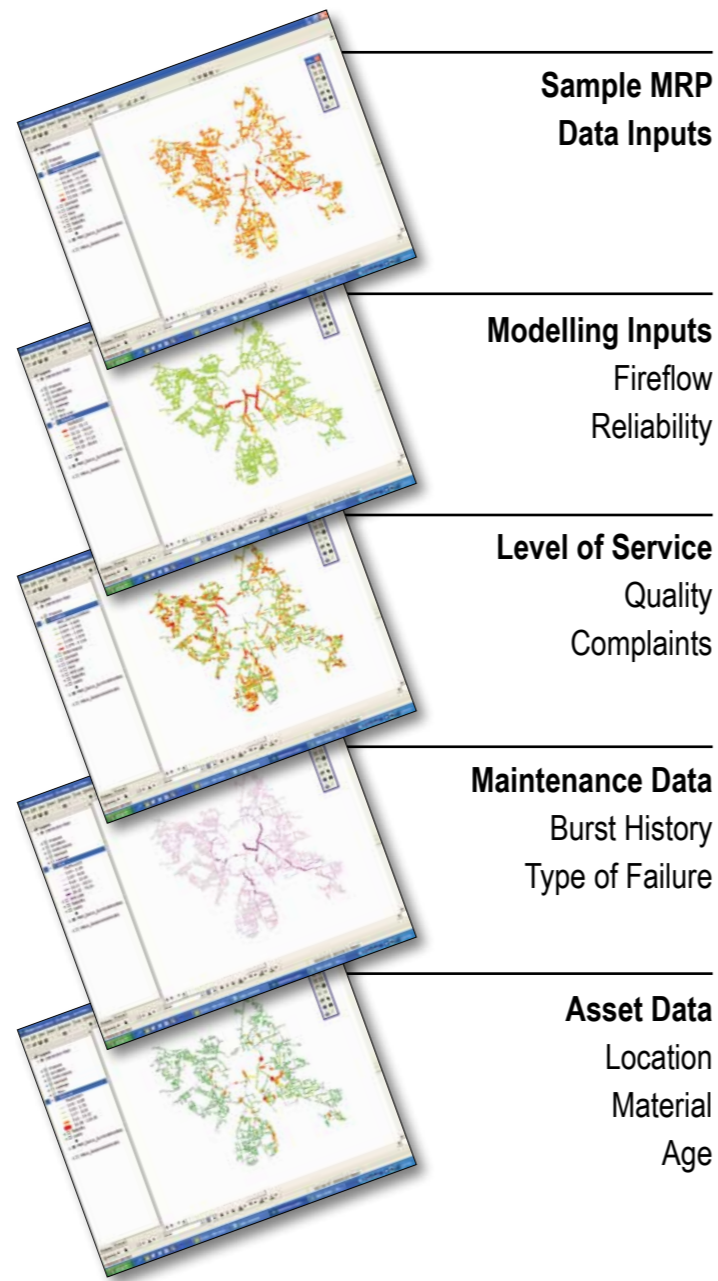


Data Sources

MRP takes data inputs from sources including:

- Asset data (location, material and age)
- Deterioration and maintenance data including repair history and failure type
- Level of service data on water quality and complaints
- Hydraulic model input, such as reliability and fireflow
- External data from other utilities

Data from any or all of these sources may be used by MRP. The system is designed to work with multiple data sources for best accuracy, although even modest data will yield worthwhile results.

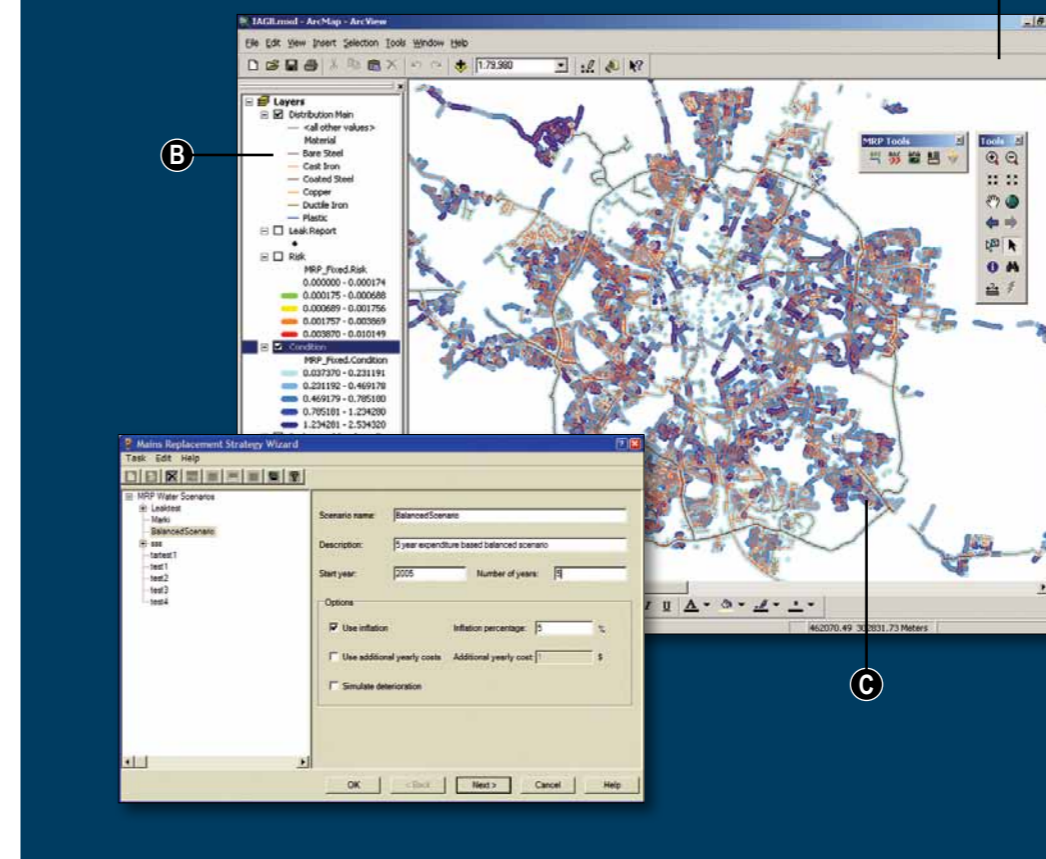


The Benefits

GL's Mains Replacement Prioritisation solution will help you:

- Optimise capital investments, both short- and long- term by targeting replacement and rehabilitation
- Improve operational planning and customer service levels by reducing leaks, unplanned repairs and water quality incidents
- Balance condition and network performance and optimise the life of network assets by predicting future reliability
- Manage and demonstrate regulatory compliance by establishing proactive, transparent and auditable asset management.

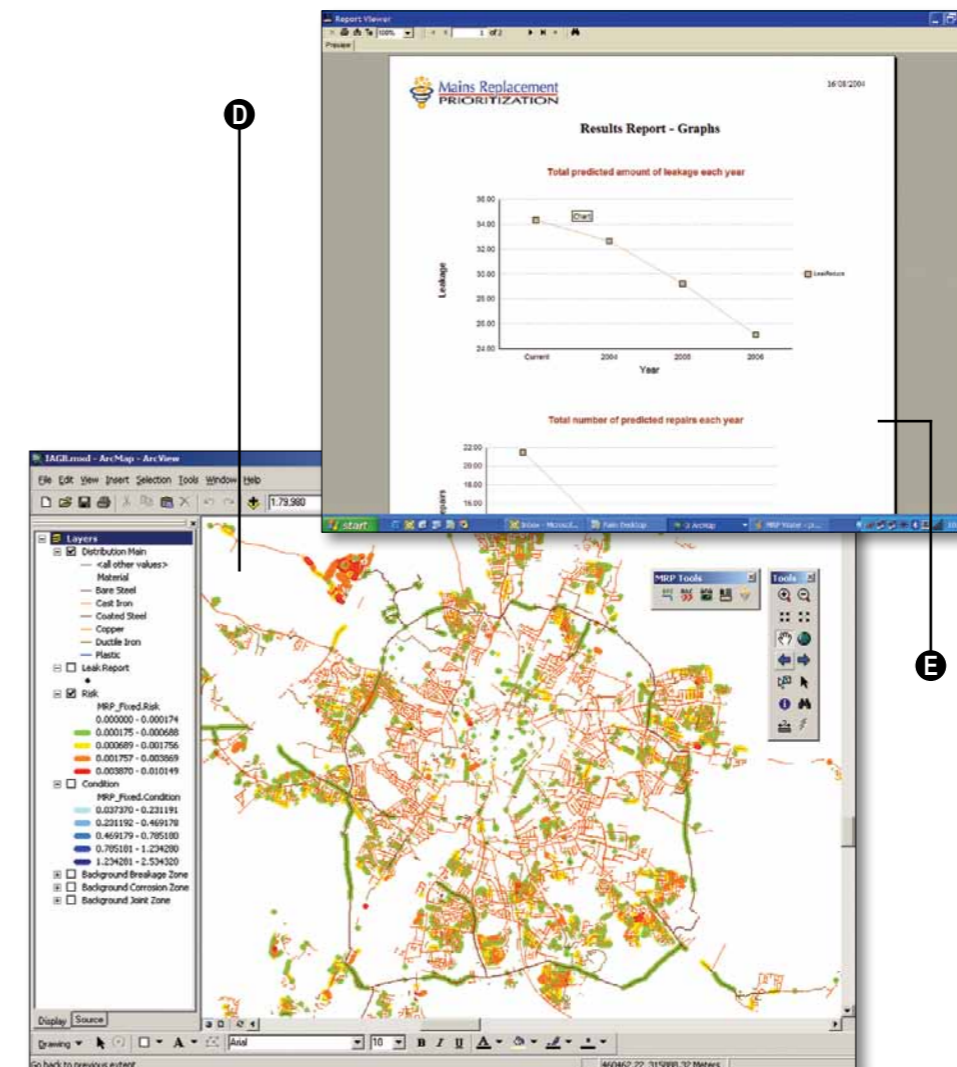
Productivity, Power and Performance



A Analysis
The Toolbar provides access to MRP's features that allow you to calculate condition and performance scores. It also provides access to the replacement management wizard to let you explore scenarios based on different replacement criteria (such as total spend or replacement length).

B Interface
MRP runs on top of ESRI® ArcView® 9.x and the underlying ESRI ArcGIS® Water Distribution Data Model. This enables thematic mapping of condition, performance, leakage and projected replacement year, as well as inherent spatial analysis.

C Mapping
Thematic mapping of performance and condition scores highlights hotspots where replacement is required to improve the asset integrity and performance.



D Modelling integration
MRP provides more powerful decision-making when used alongside modelling results from SynerGEE or other systems. For example, you can consider planning data when selecting mains for replacement and evaluate the operational impact of shutting down certain mains during replacement.

E Reporting
Comprehensive reporting enables you to evaluate and compare replacement strategies, including a ranked list of mains for replacement, cost benefit analysis and overall system performance over the duration of the replacement program.