

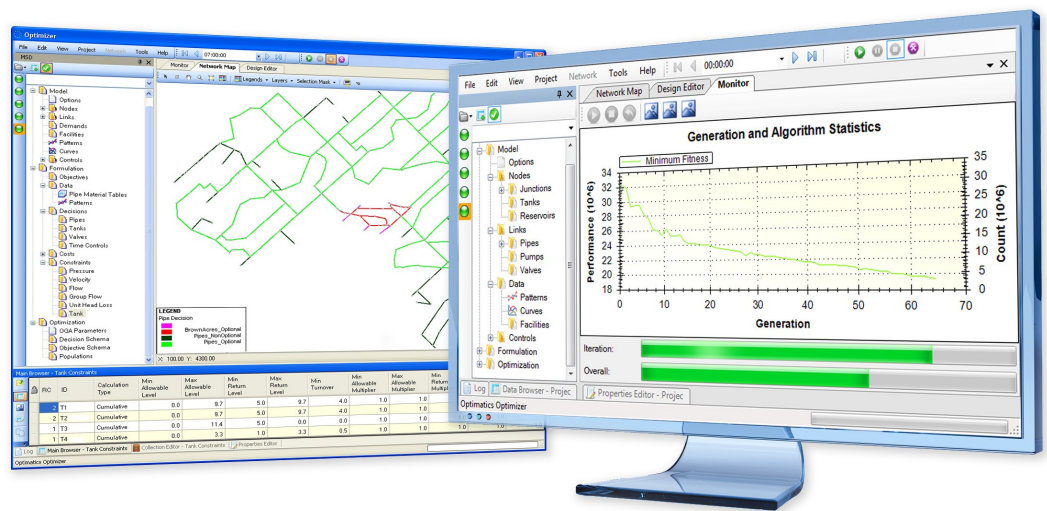


**Optimatics**  
optimizing water systems

## Optimizer WDS

A powerful software tool for optimal capital infrastructure planning and pipe renewal programs for water distribution systems.

Optimizer WDS interface  
water system optimization



*"It was amazing the number of options and alternatives we were able to consider using Optimizer WDS. We got value for money, and are confident that we can defend our final design choice no matter what. The combination of the right people, the right process and the right technology were the key to this project's success. Optimatics staff were responsive and engaged throughout the project, and integrated seamlessly with our team. There is no way known the project could have progressed this far in such a short amount of time without Optimatics' involvement. Everything went extraordinarily well."*

Roger Perry,  
Head of Planning &  
Infrastructure, SA Water

### OPTIMAL WATER SERVICES

Optimizer WDS enables you to make planning decisions for optimal water services that best meet your customer and regulatory demands at least environmental and overall cost.

### WHAT OUTCOMES ARE ACHIEVED THROUGH OPTIMIZER WDS?

Optimizer WDS solutions have typically resulted in a 10-30% decrease in capital and operating costs and helped our clients to:

- Meet projected water distribution demands
- Reduce energy use and greenhouse gas emissions
- Meet regulatory and environmental standards
- Incorporate complex design criteria
- Achieve greater transparency of investment and planning decisions

- Reduce risk while achieving a significant return on investment (ROI).

### WHAT ARE THE BENEFITS OF OPTIMIZER WDS?

Optimizer WDS provides you with benefits that include:

- Objective approach
- Significant cost savings
- Rapid options analysis
- Transparency, reassurance and defensibility.

Optimizer WDS can be run using a standard desktop PC. For complex models, Optimatics' cloud computing capabilities can be used to reduce analysis time.

### OPTIMATICS SUPPORT SERVICES

Established in 1996, Optimatics is committed to meeting your optimization needs through provision of world-leading optimization software, consulting

and support.

#### Software Updates and Support

Optimatics offers a maintenance program that includes software updates and technical support to meet your optimization challenges.

#### Training and Education

Optimatics offers software training workshops at your facilities to assist you in setting up your system model in Optimizer WDS.

#### Professional Services

Optimatics optimization professionals offer consulting, software development and implementation services as well as assistance in optimization methodologies and processes.

#### OPTIMATICS

##### ASIA PACIFIC

Dr. Paul Smith,  
Regional Manager Asia Pacific  
Tel: +61 8 8379 7353  
paul.smith@optimatics.com

##### NORTH AMERICA & EUROPE

John Cowan,  
Regional Director North America  
& Europe  
Tel: +1 206 779 2082  
john.cowan@optimatics.com



# Optimatics

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## APPLY OPTIMIZER WDS FOR PIPE RENEWAL PROGRAMS

Optimizer WDS enables you to optimally program and schedule your pipe renewals programs. It reduces the amount of time to undertake a study while providing a better overall solution.

Optimizer WDS works with the hydraulic model, to search for a near-optimal replacement program. For each pipe reviewed, a decision is made as to replace or rehabilitate the pipe. In the case of replacement, the optimal pipe diameter, material, construction technique and proposed year of replacement is selected.

Optimizer WDS identifies the combination of replacement and rehabilitation decisions to minimize the net present value cost of the overall replacement program.

The cost of not replacing pipes—the risk associated with failure over the given planning period, is included in the optimization process. The solutions must result in a hydraulic network that satisfies customer demands for each staging period, while achieving service levels that meet minimum allowable pressure, maximum allowable velocity, hydrant flows and other specified constraints.

## SOFTWARE FEATURES

Optimizer WDS supports a range of capital improvement and planning options. Constraints are used to ensure that optimized solutions meet your specific design criteria and social, environmental and political objectives.

## OPTIMATICS

*The Optimatics Vision is for optimal water services throughout the world.*

*Optimatics enables decision makers to optimize the planning, operations and management of their water systems with its software, consulting and computer processing solutions.*

*The Optimatics mission is to empower its clients to be outstanding contributors*

