

for managing urban water



eWater Source is flexible and extensible to meet future needs including modelling urban water supply.

Source can be used for urban water supply management at the town, city, and regional scale. It can assess a full range of supply and reuse options including desalination. This allows users to incorporate towns and cities into water management models for river systems.

Source can be linked to existing models that operate at whole of city or local scale, allowing evaluation of alternative options for decentralised water supply and demand management.

Source helps water managers and consultants to manage rural to urban water sharing as well as planning infrastructure to secure water supplies in the face of increased demand, climate variability and change.

It also allows them to examine options for more efficient use of water, including optimal configuration of infrastructure and demand management solutions. They can also strike a balance between human and environmental needs for water, as well as to manage the impacts of cities on water quality entering coastal waters.

BENEFITS:

Using Source to manage urban water:

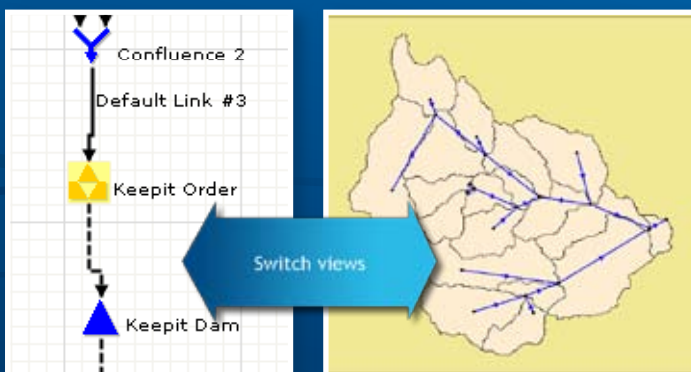
- develop scenarios for integrated water supply for urban areas
- consider centralised and decentralised supply infrastructure
- evaluate demand management options
- protect environmental assets
- manage uncertainty and risks
- use with existing models or develop plug-ins
- extend models as needs change.

Coming soon

Technical features

- Simulate the full urban water cycle.
- Distinguish between surface water catchments, water supply zones, and waste water catchments (sewersheds).
- Partition flow through separate infrastructure allowing representation of schemes such as “third pipe” recycling systems.
- Represent and distinguish infrastructure such as wastewater treatment plants, balance storages, and reservoirs.
- Define regression-based urban demand models.
- Logically represent resource demands and their links to multiple supply sources.
- Represent multiple supply paths (from single demand to multiple supplies).
- Create feedback or recycling loops to represent reuse and recycling strategies.
- Define and run simple monthly to daily river system and water supply headworks models.
- Define major storages and operating rules.
- Supports multi-objective simulation, and can link to other tools to undertake uncertainty/risk analysis.

eWater Source is Australia's first truly integrated, river basin-scale water modelling system. It is an enterprise platform which enables organisations to make a step change improvement in their approach to integrated water resources management. Its groundbreaking capability links science, policy and management allowing decision makers to consider future scenarios and alternative management options for catchments, urban environments and rivers systems.



Source uses a node-link structure to represent a real water network. Users can choose between views of a schematic system or a spatially distributed system.

Source is customisable, and brings together the features and strengths of existing tools while providing enhancements that allow the user to deal with the complexity of urban scale modelling.

Want to know more?

Go to our website at www.ewater.com.au

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