

School of Civil and Environmental Engineering

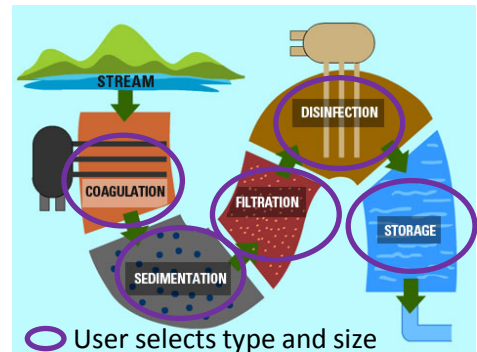
A triple-bottom line tool for water supply decision-making

The Sustainability Assessment Program (SAP)

A tool for water suppliers

Our team has developed an innovative software tool capable of quantifying the triple bottom line impacts of a wide range of fully customisable water treatment and supply options. The user specifies the type and size of each unit process and assigns priority weights for each of the selected criteria. The tool is being trialled in the US and in Australia.

- **Based on Hybrid Life-Cycle Assessment methodology**
- **Can be tailored to any country**

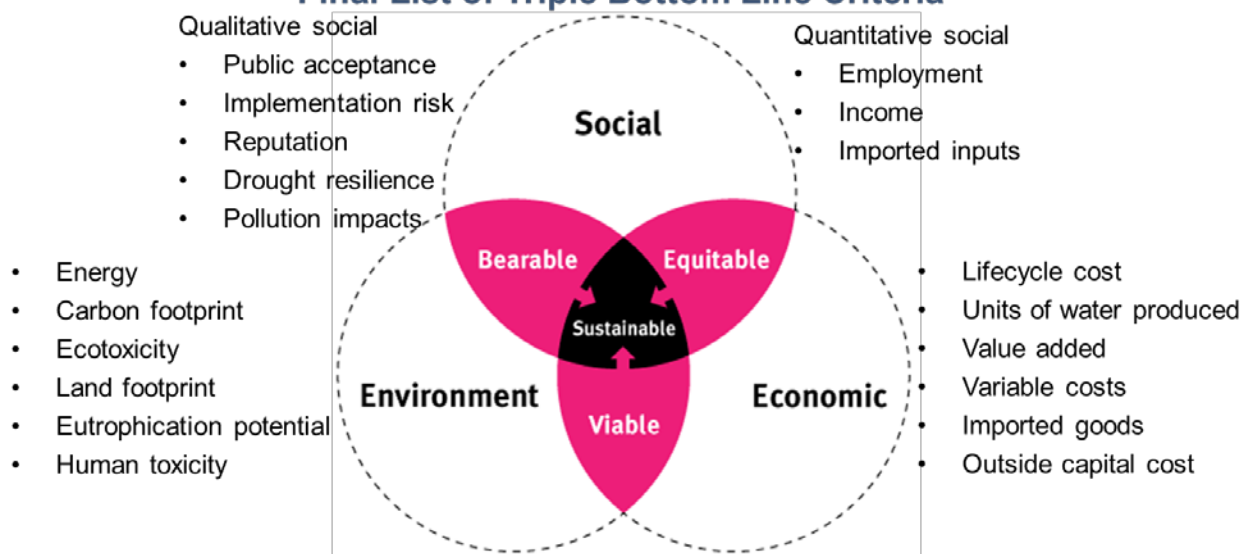


- **Scale and scenario flexibility**
- **Multi-criteria decision analysis**

Assessable Water Supply Options

- Direct Potable Reuse (DPR)
- Indirect Potable Reuse (IPR)
- Desalination
- New dam (reservoir)
- Groundwater pumping
- Stormwater harvesting
- Extension of an existing supply
- Demand management
- **Recycled water (non-potable)**
- Water imports

Final List of Triple Bottom Line Criteria



Acknowledgements: The TBL tool was developed by SAP at UNSW Australia in collaboration with Hazen and Sawyer with funding from the [US Water Environment & Reuse Foundation](#), the Australian Water Recycling Center of Excellence, and other utility and industry partners.