



Towards a sustainable water environment and stable water supply



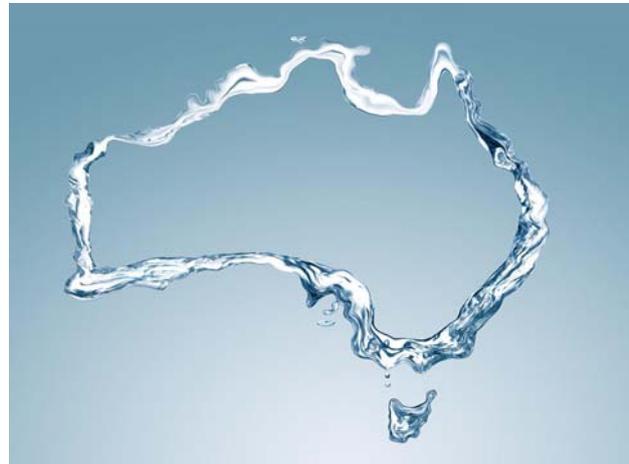
Stuart Wilson
Deputy Executive Director
JWWA International water forum
Saitama, October 2015



A sustainable water supply in Australia

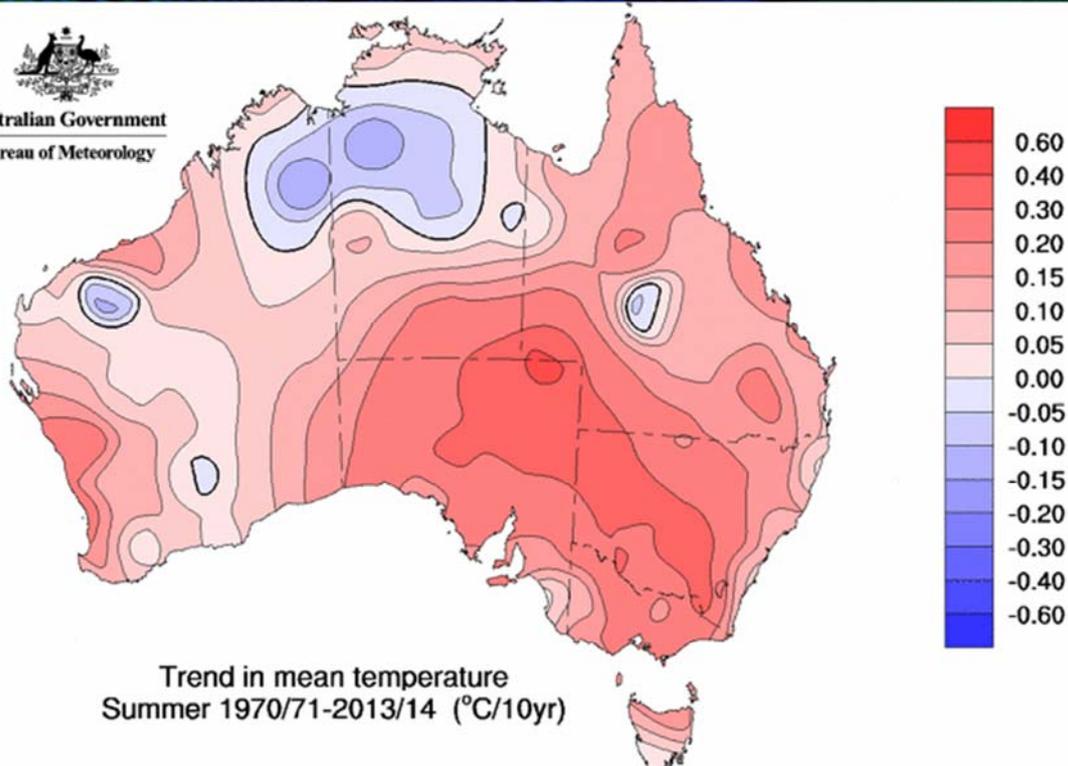
I will discuss four areas:

1. Australian climate change
2. Planning the water supply
3. The role of water efficiency
4. Technology



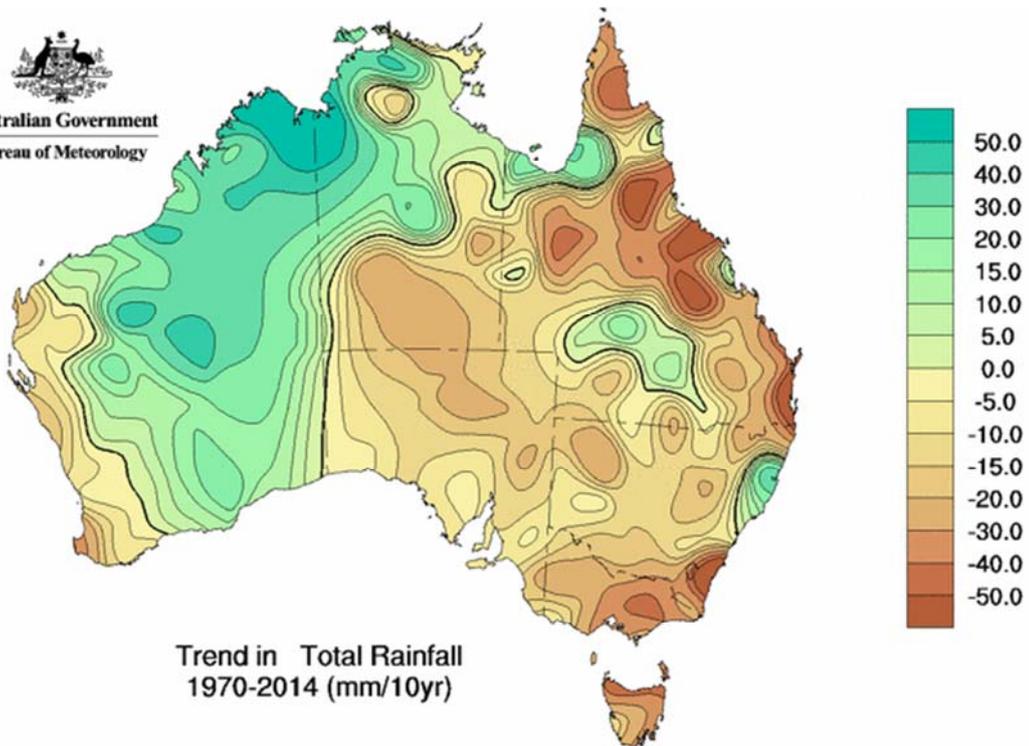
Temperature increase


Australian Government
Bureau of Meteorology



Rainfall decrease (mostly)


Australian Government
Bureau of Meteorology



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Issued: 18/08/2015

Record floods



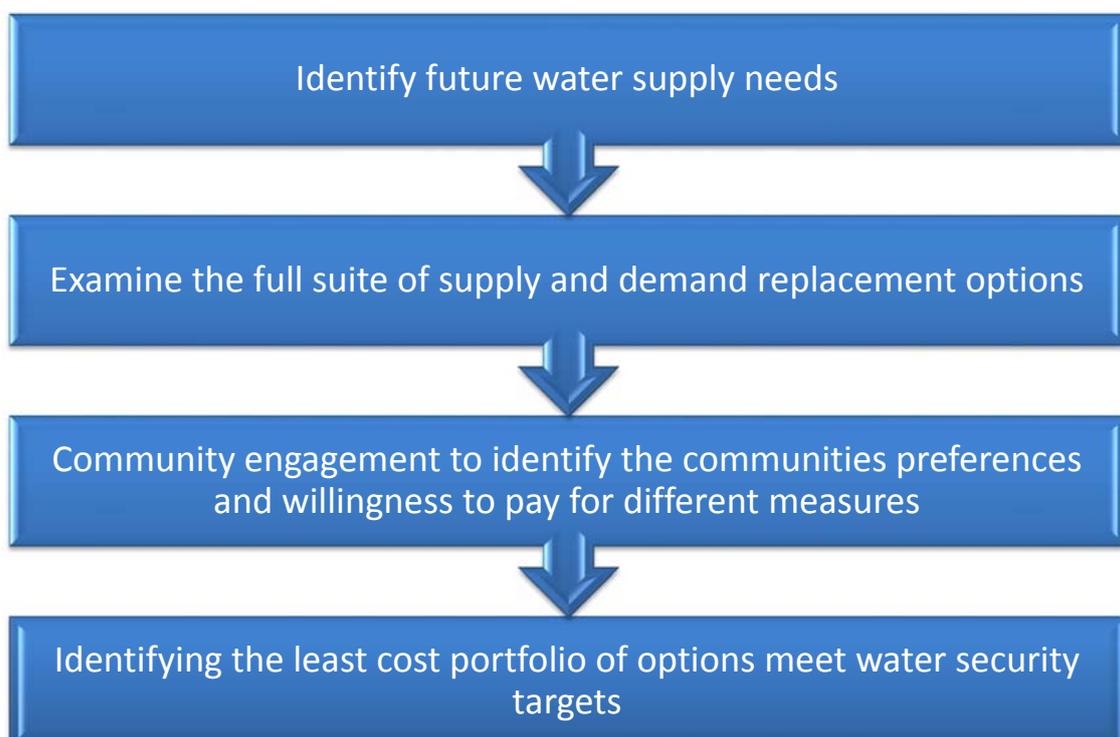
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Water supply planning

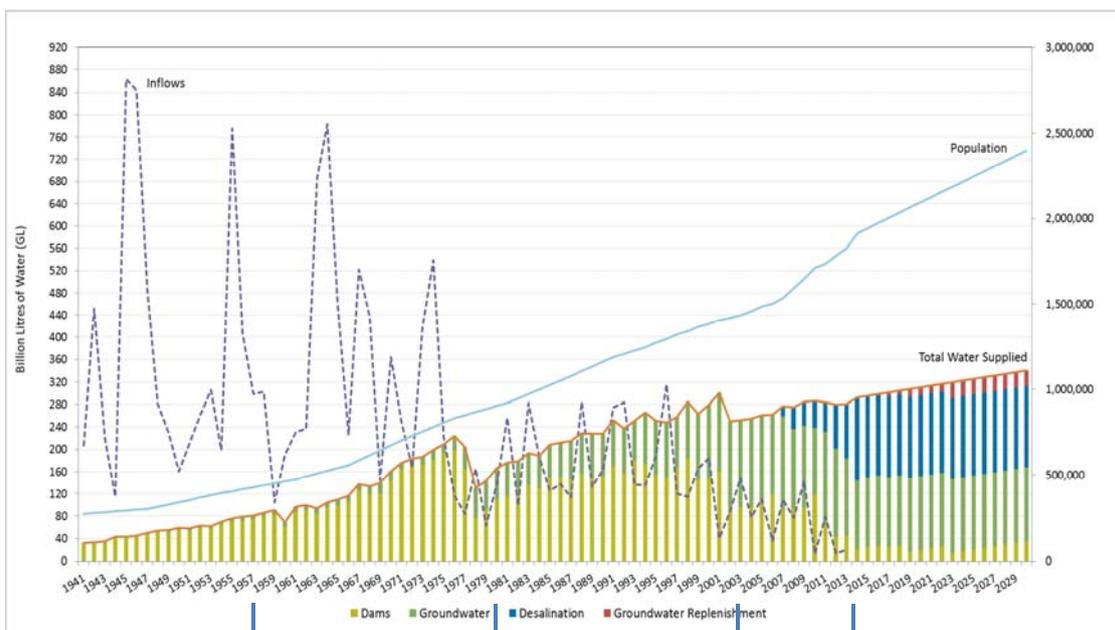


NSW water supply equation

Dams +
 Recycling +
 Desalination +
 Water Efficiency =

Water  life

Perth Metropolitan Water Supply



1958
 92% Dams
 8% G/water

1980
 65% Dams
 35% G/water

2004
 38% Dams
 62% G/water

2014
 7% Dams
 50% Desal
 42% G/water
 1% GWR

Diverse supply

Area	Dams	Groundwater	Desalination	Recycled water
Sydney	93%	0	0	7%
Melbourne	96%	0	0	4%
Southeast QLD	89%	3.5%	0.5%	7%
Perth	17%	42.5%	38%	2.5%
Adelaide	55%	0	41.5%*	3.5%

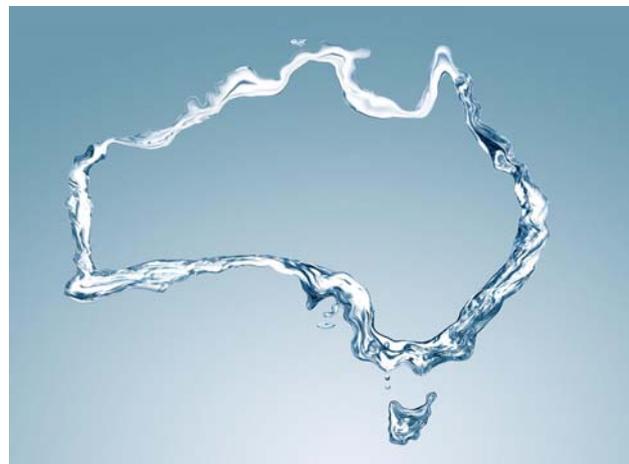
Source: National Performance Report 2013/14

*During the period Adelaide Desalination Plant was operating as part of its proving period

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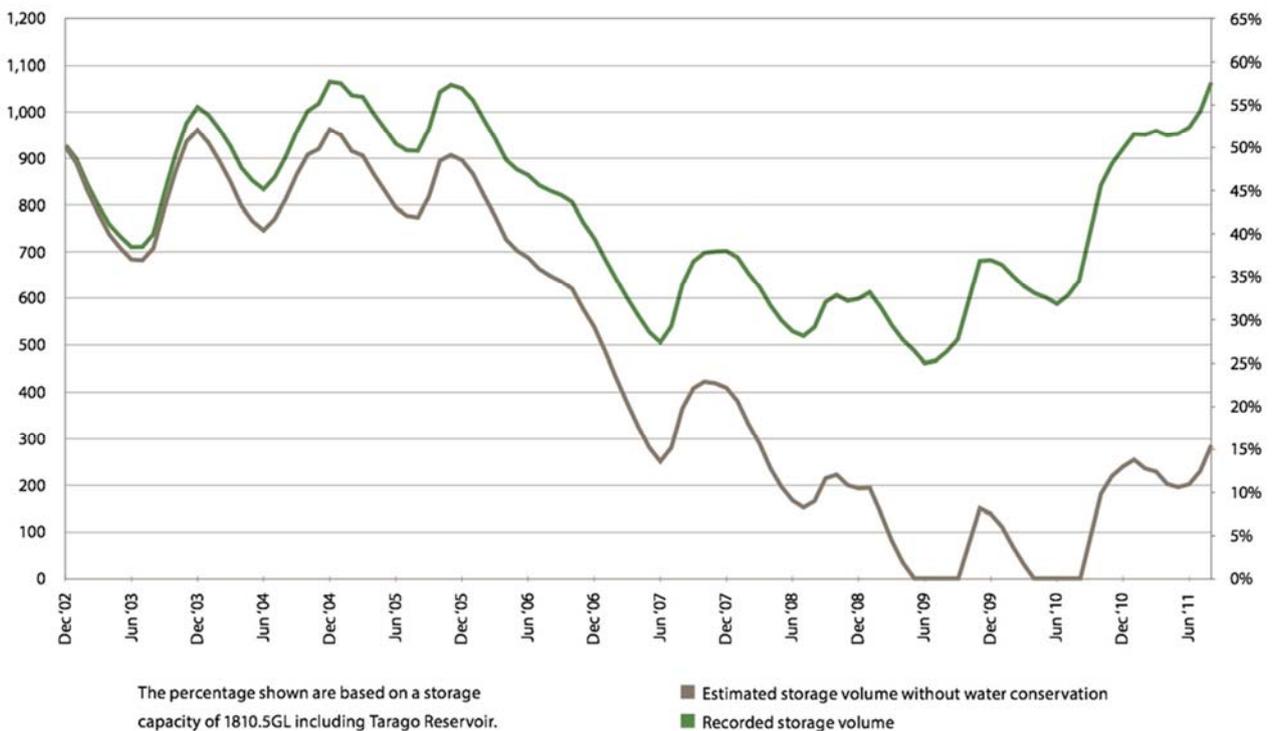


A major shift in water use (Sydney)



Impact of water conservation (Melbourne)

Savings through water conservation in Melbourne 2002-2011



Water Efficiency Labelling and Standards scheme (WELS)

Choosing more efficient products helps Australia save water

The more stars the more water efficient

WATER RATING

A joint government and industry program
Sirrocco Sahara clothes washer Model S5120
Load capacity 8 kg

Water Consumption

70
Litres per wash
using Normal program

When tested in accordance with Standard AS/NZS 6400

For more information and to compare appliances, refer to:
www.waterrating.gov.au



working with utilities Smart WaterMark



smartwatermark.info

- 3-year investment
- 17 Utilities across all states
- Expansion into non-residential

Glasswasher Flow Study and Smart Approved WaterMark

Industry Report

David O'Connell
4 November 2015



Smart Approved WaterMark

Guidelines for Applicants

1. Purpose of the Scheme

2. Eligibility

3. Application Process

4. Testing Requirements

5. Approval Process

6. Ongoing Compliance

7. Commercial Glasswashers

**working with utilities
Smart WaterMark**

Australia's label identifying and certifying products and services that use water efficiently.

Our vision is of an Australian public that is aware of and actively engaged in water efficiency.

Smart Approved WaterMark Certification

The benefits of Smart WaterMark to Australia's water utilities are:

- A national label: Smart WaterMark allows products and services, allowing them to enter water utility markets of their own choosing.
- The scheme provides a national approach to water conservation leading to water efficiency in all government, industry and retail.
- A national approach allows them to reduce their water consumption and improve their water efficiency through the most cost-effective way of achieving water efficiency (product certification).
- The label provides water-saving programs and a pathway to water and energy efficiency water saving products to drive water conservation.
- Energy customers, energy and water meter use and the related revenue management systems.
- Energy saving has been shown to be the most cost-effective demand management strategy.

2020 VISION

Smart WaterMark is proud to be a partner in the 2020 WaterSmart campaign. Visit 2020water.com.au

Supporting innovation in water conservation

Water efficiency programs

- **Leak detection**
- **Every Drop Counts Business Program** (focus on large users)
- **Rebates** (washing machines, rainwater tanks - transformed the washing machine market nationally)
- **Exchange programs** (showerheads and toilets)
- **Water Fix** (low cost service to install efficient fittings in homes)
- **Education campaigns** (TV ads, schools, raising awareness, changing behaviour)
- **WELS** (Water Efficiency Labelling and Standards scheme)
- **SAWM** (Smart Approved WaterMark)
- **BASIX** (Building Sustainability Index)

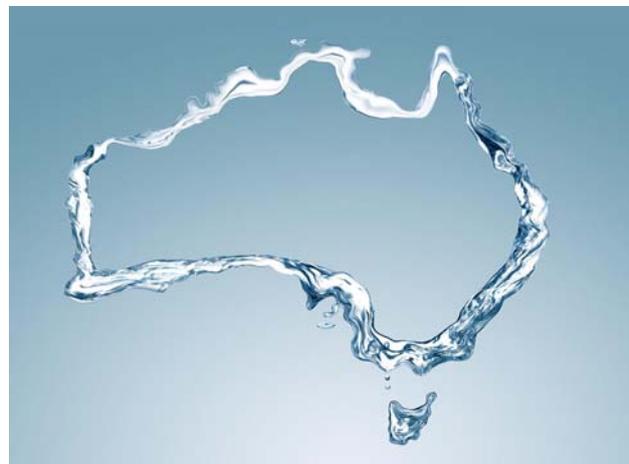
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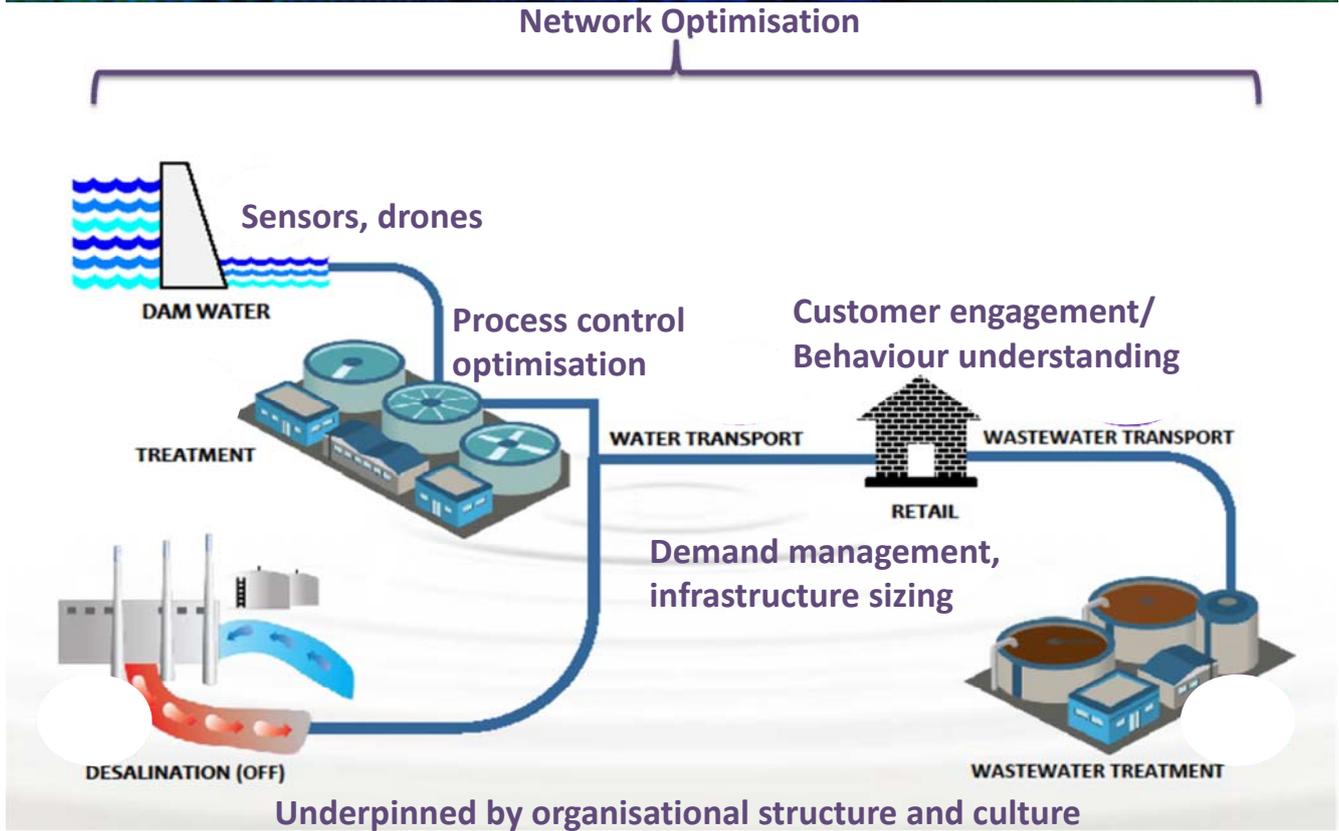
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Technology is the enabler



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of Australia](https://www.linkedin.com/company/water-services-association-of-australia)



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www.wsaa.asn.au