



Perth: Transitioning to a World-Leading Water Sensitive City

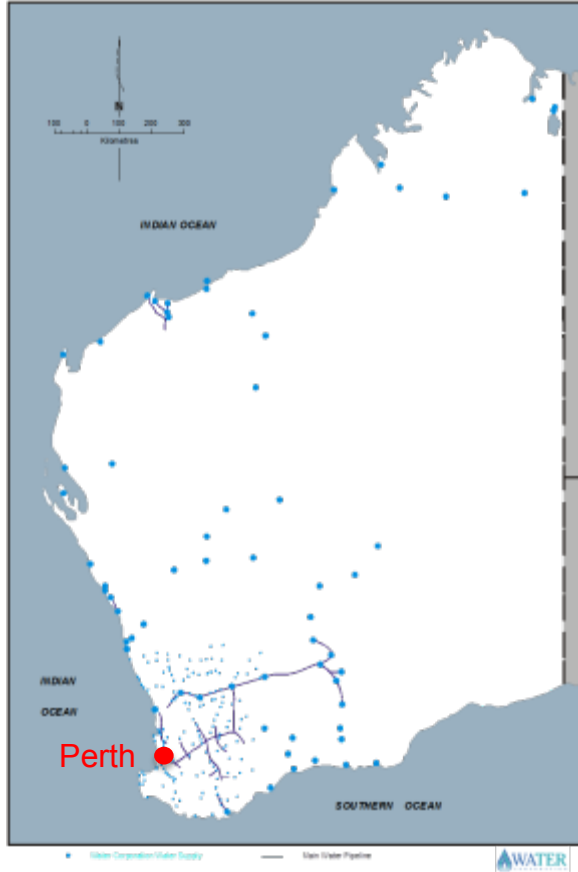
Dr Steve Capewell

Water Corporation, Western Australia

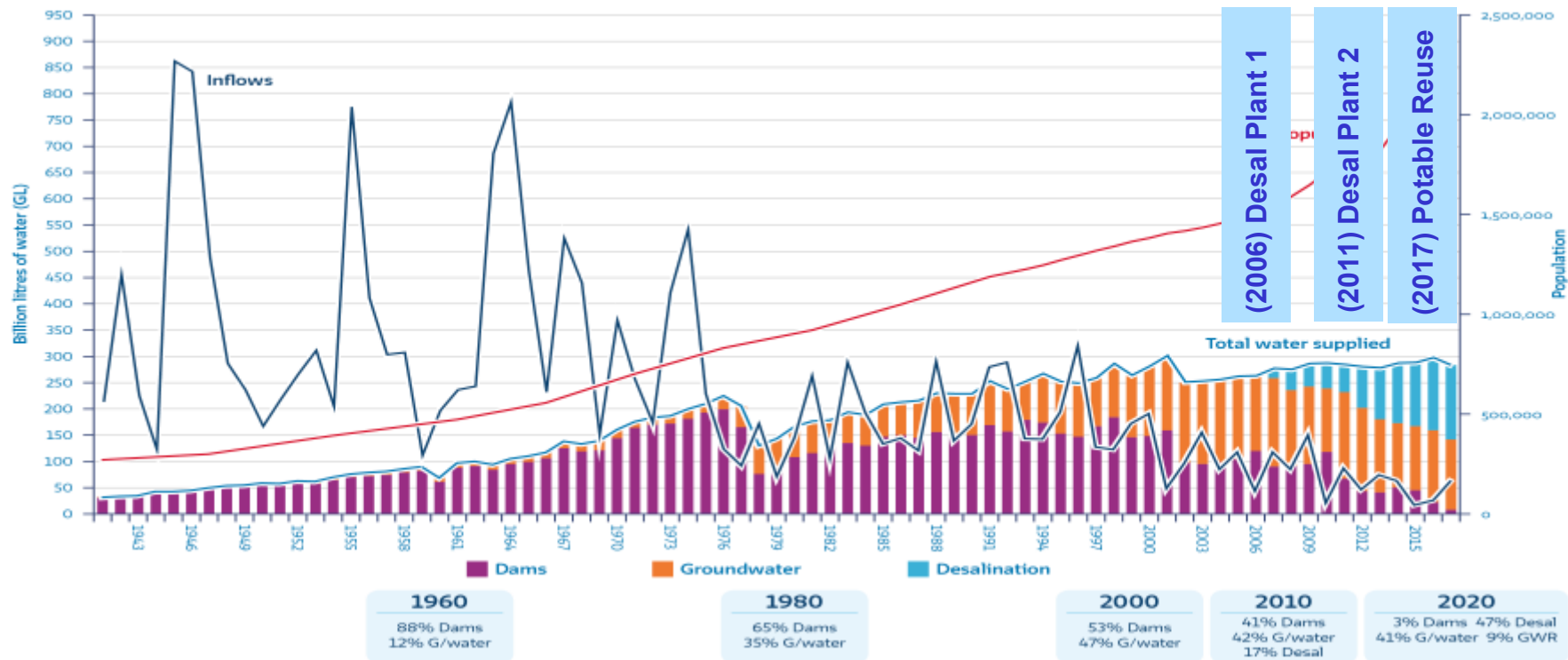
Water as a resource in Western Australia



Western Australia - Water Supply



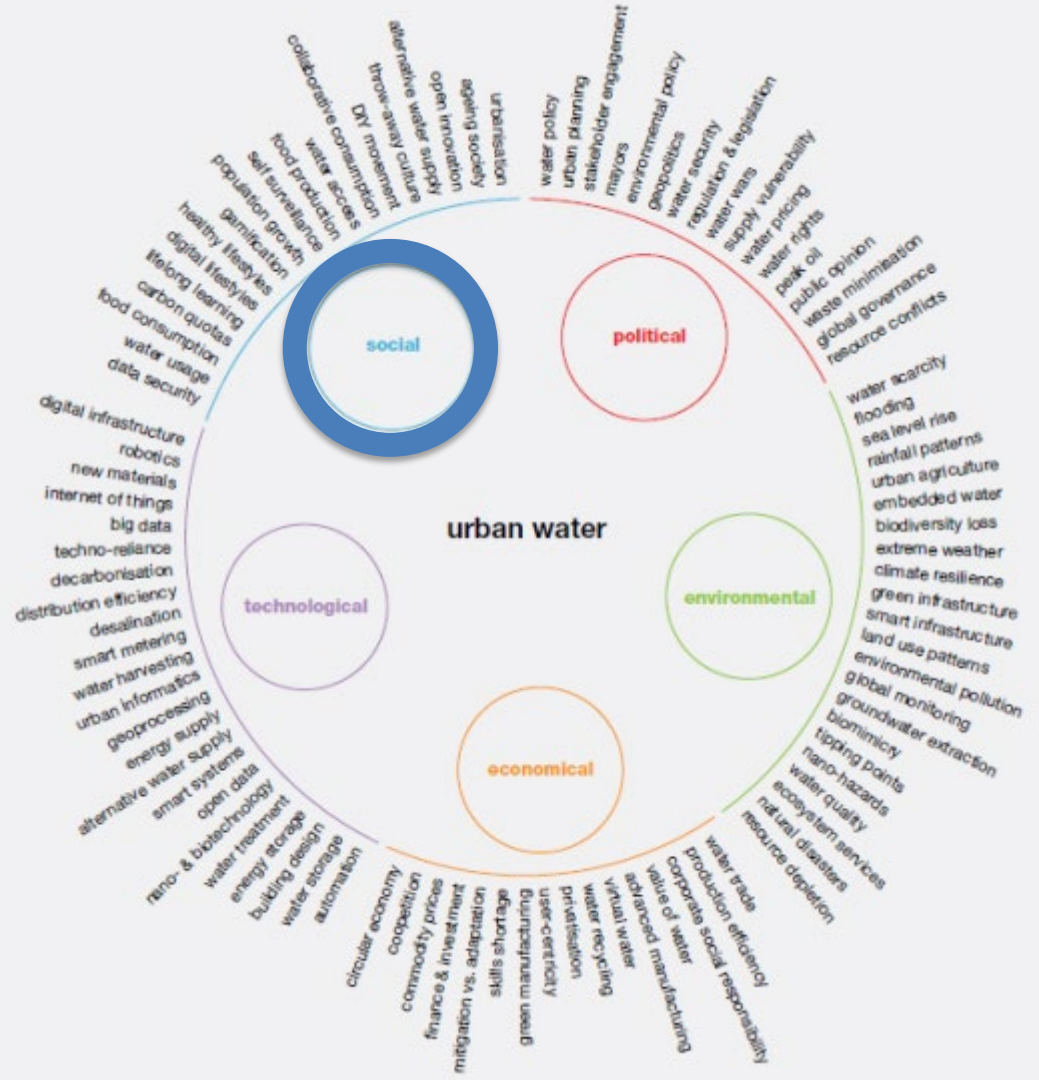
Perth's Water Supply



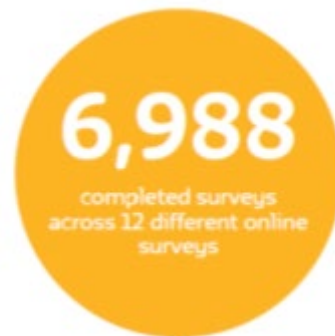
Resilience through climate independence



The future is much more complicated.....



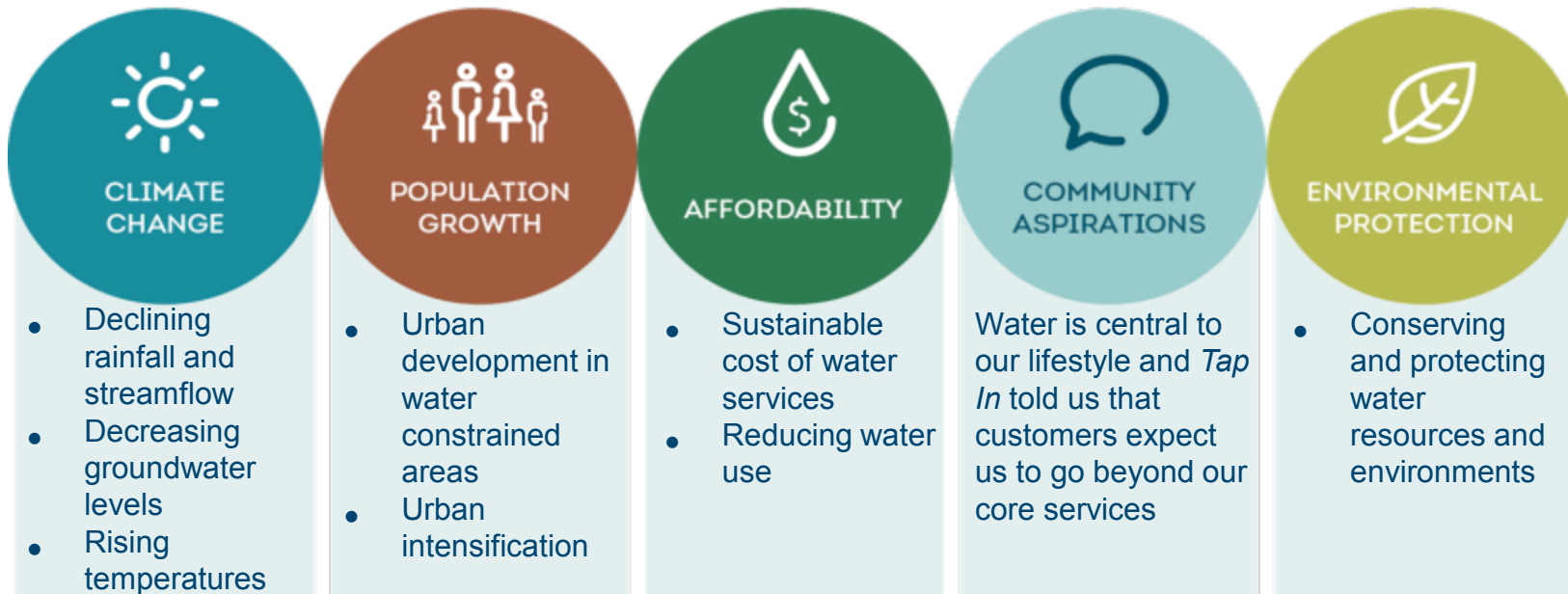
Perth customer engagement



A water-sensitive city?



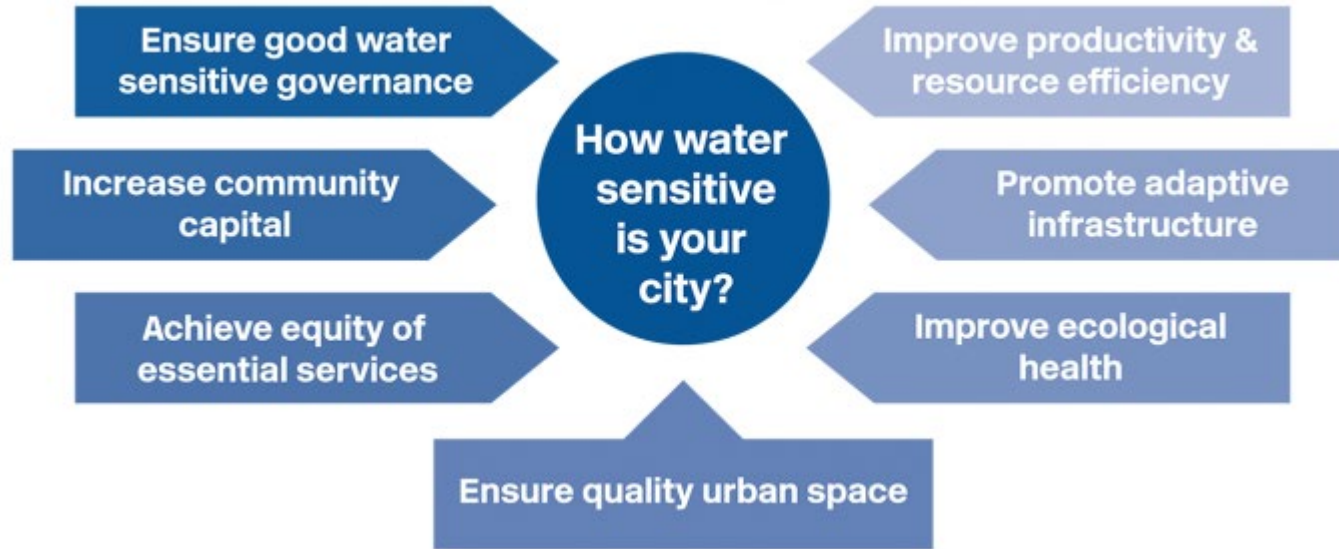
Confirming the need for Perth



OUR AMBITION IS FOR PERTH TO BE A LEADING WATERWISE CITY

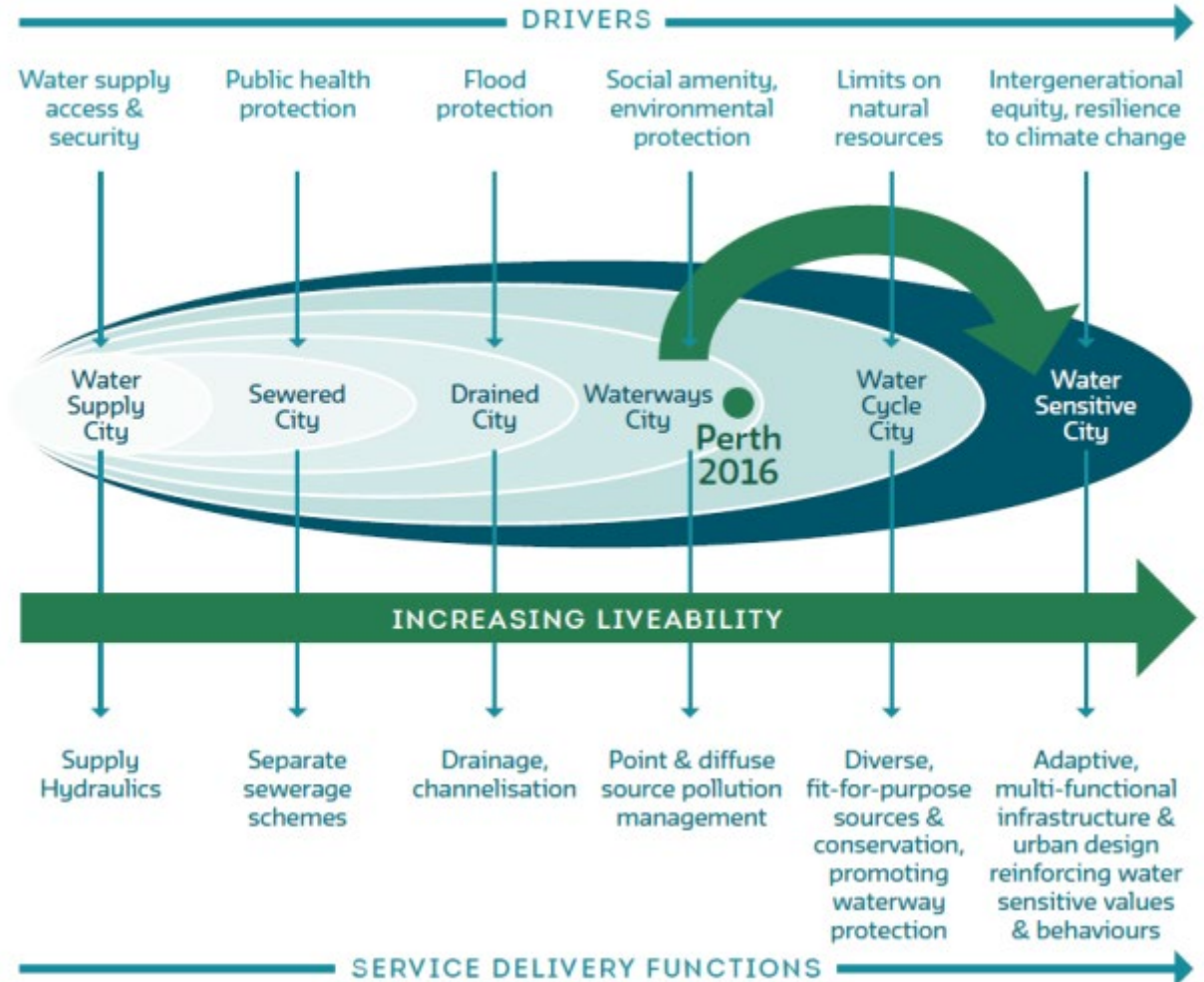
How do we measure progress?

Water Sensitive Cities Index



Urban water transitions continuum

(based on T. Wong and R. Brown, 2009)

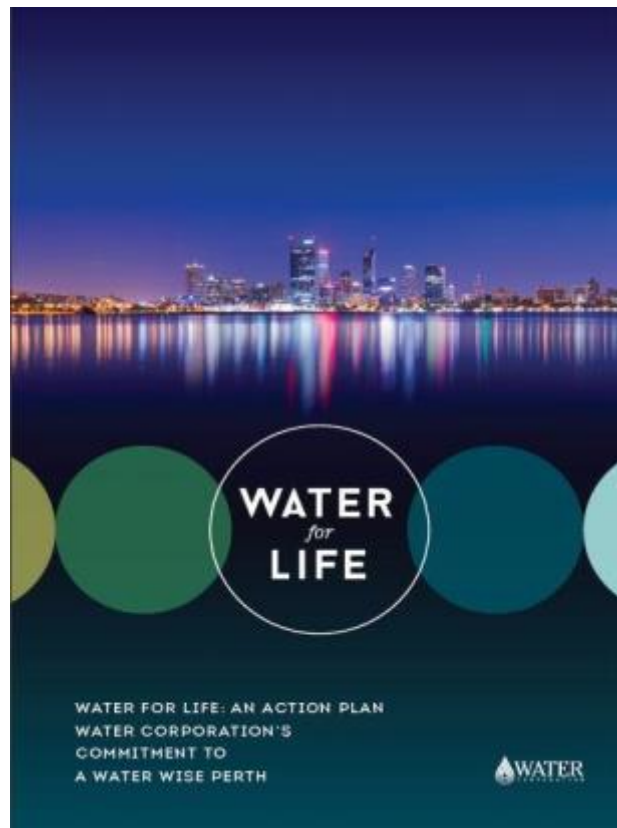


Benchmarking results for Perth

Water Sensitive City	5%
Water Cycle City	44%
Waterway City	79%
Drained City	100%
Sewered City	100%
Water Supply City	100%



Our plans



Collaborate and form partnerships

Engage our customers to reduce demand

Reuse, recovery and recycling

Optimise water and energy and reduce carbon footprint

Enhance assets to improve liveability outcomes

Targets to 2030



Objective 1

Collaborate and form partnerships to deliver waterwise outcomes

- Increase innovation and industry collaboration
- Embed waterwise city principles in strategies, policy, planning and decision making frameworks
- Waterwise infrastructure planning and operation
- Sustainable use of groundwater



Targets to 2030



Objective 2

Engage with our customers
to improve water knowledge
and reduce demand



Water efficiency: Reduce scheme water use (110 kilolitres per person per year)



Increase community water knowledge



Water wise Gold councils



Targets to 2030



Objective 3

Increase reuse, recovery and recycling



Water recycling: Triple recycled and alternate water use



Recover non-revenue water: Decrease non-revenue water (including water losses from pipes and inaccurate meters) to a maximum of 10% of total water demand



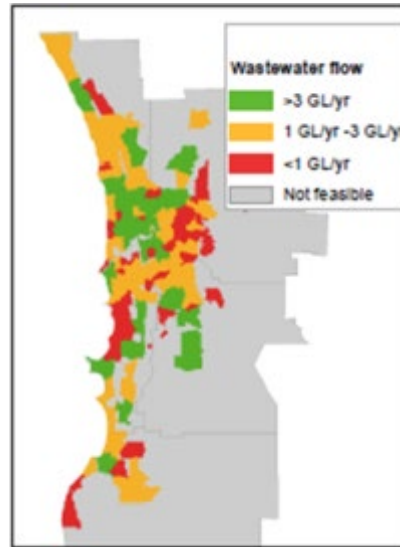


Objective 3

Water Research and Innovation Precinct



Water Research And Innovation Precinct in Subiaco



Identifying alternative water options



Australia's first groundwater replenishment scheme is located on the Beenyup wastewater treatment plant site

Targets to 2030



Objective 4

Optimise the relationship
between water and energy
and reduce carbon footprint



Greenhouse gas: Reduce greenhouse gas emissions to zero (net) tonnes CO₂-e per year



Renewable energy: 100% of energy requirements for major treatment plants and pump stations will come from renewable sources generated on-site



Concluding Remarks



- Perth has a long history of innovation and adaption in managing water resources
- **Water resilience** is critical for a city's future
- But so too is environmental excellence, affordability, productivity and community awareness and collaboration:

A Water Sensitive City





Thank you