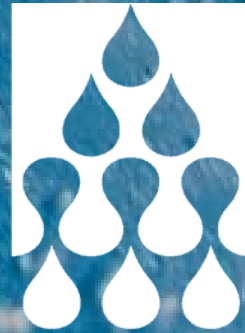


Australian



National Centre of
Excellence in Desalination

Joe Flynn
Interim Chair



key message:

we need to work together **strategically**

1. Research
2. People
3. Innovation adoption – policy & technology
4. Events
 - Water Reuse & Desalination, Sydney Nov 2010
 - IDA Biennial World Congress, Perth Nov 2011
 - invite us to your events

need a connection?

contact me : ceo@waterindustry.com.au 2



Today

1. About the NCED
2. Australia's Water Security
3. Desalination in Australia
4. NCED research program
5. Collaboration opportunities



City of Perth from South Perth



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City of Perth from South Perth



Our mission and research mandate:

1. To optimise and adapt desalination technology for use in **Australia's unique circumstances**
2. To develop suitable desalination technology for use in **rural and regional areas**
3. To improve **efficiency and reduce the carbon footprint** of desalination facilities and technologies

Objectives:

Lead, coordinate, build national capacity and advance the science

Principles

- World-class pilot-scale research facility
- Basic and applied research **aligned** to mission
- **Leverage** funding
- Strong **collaborative** approach across partners



1. About the NCED

2. Australia's Water Security

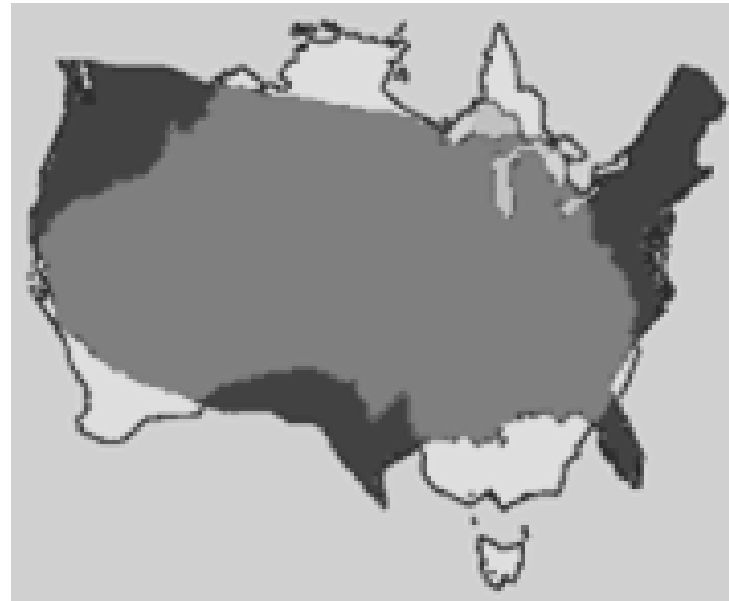
3. Desalination in Australia

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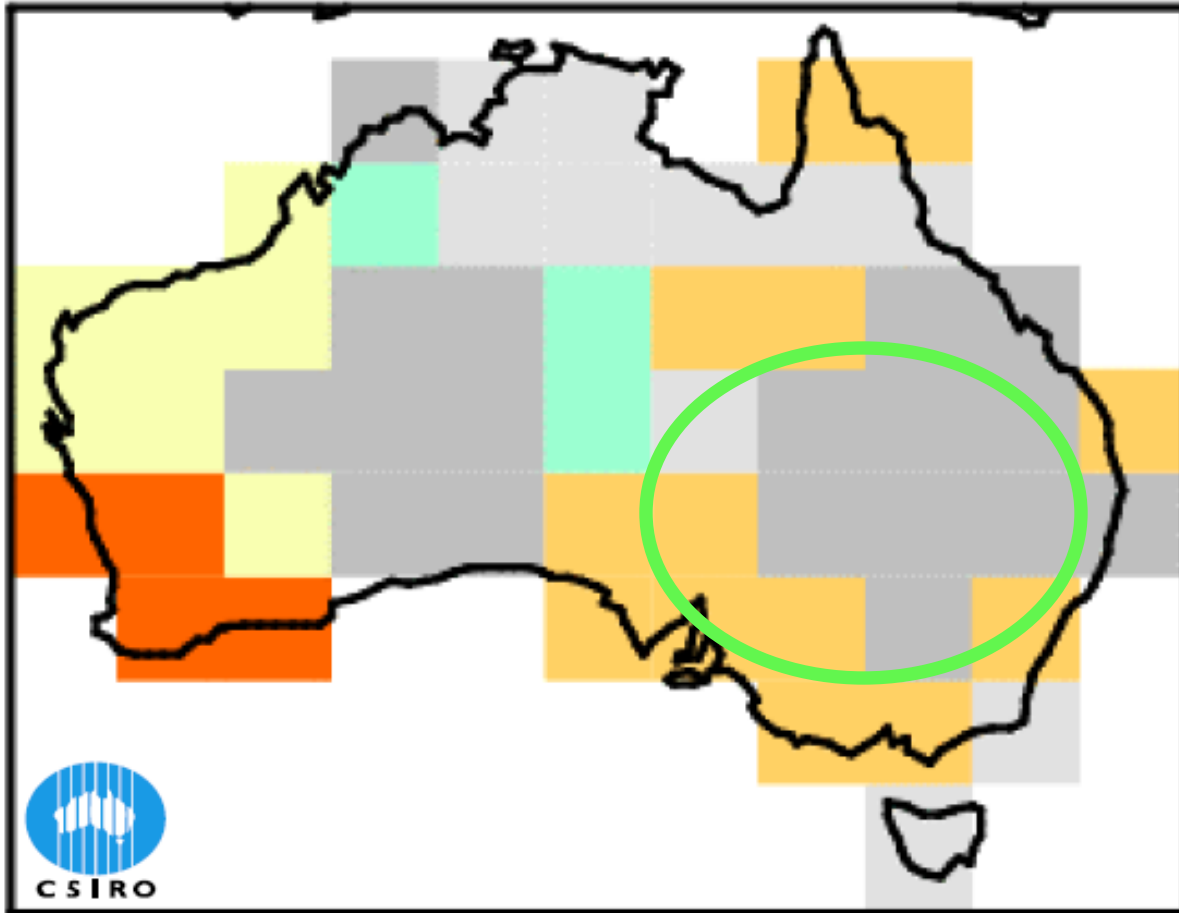
Australia & USA

Similar land area
10% population

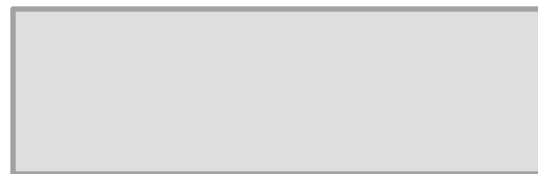
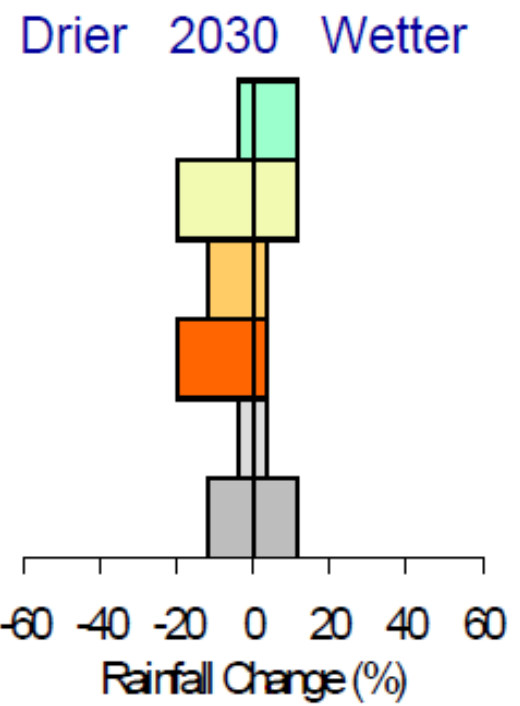




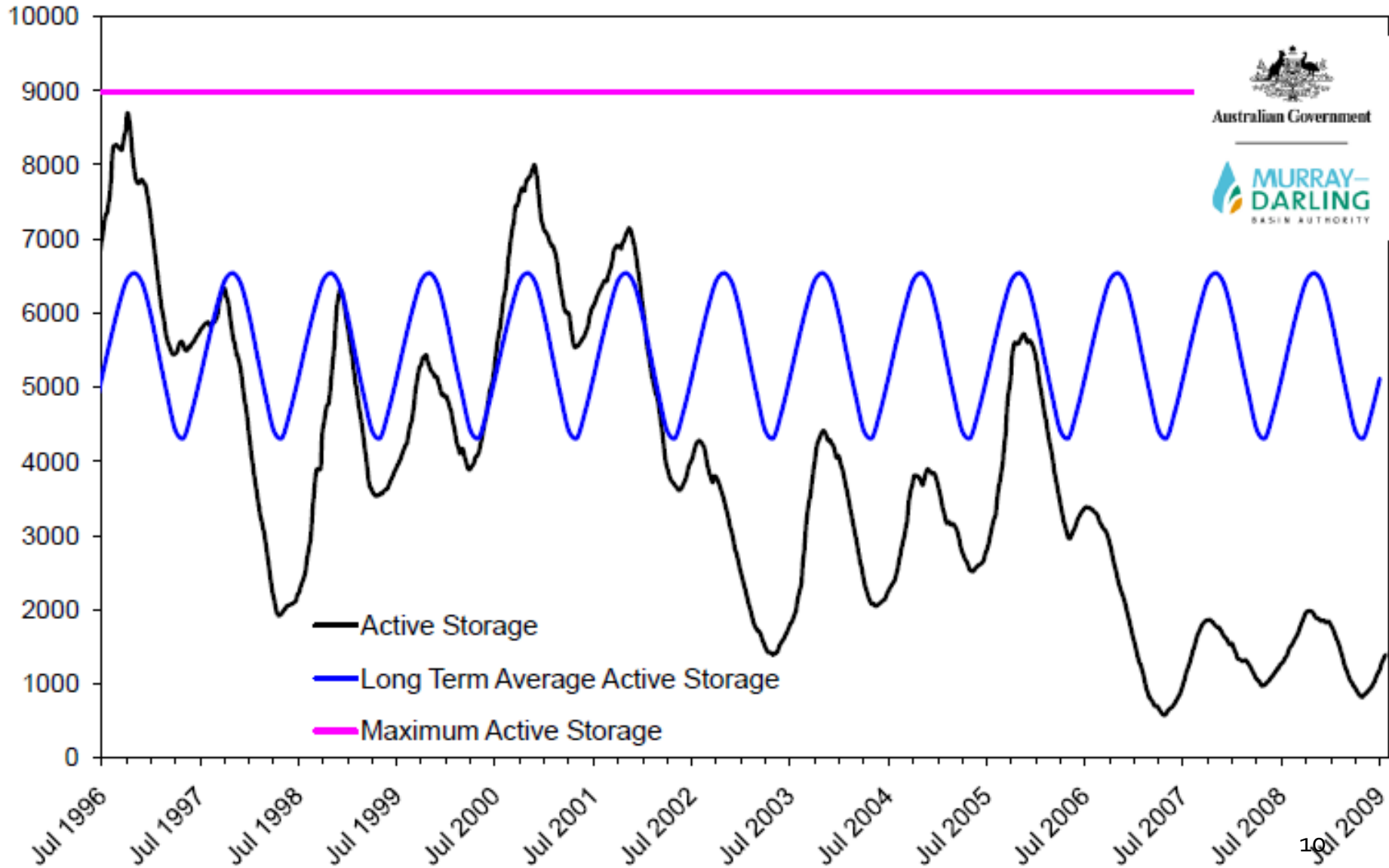
south west & south east drying
Murray Darling basin suffering



Annual rainfall change (%)



Murray Darling Basin



- 
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'Water charges set to spiral'

'...producing nearly a third of capital city supplies within two years.'

front page
The Australian
Jan 23 2010

Cost of desalination plants



Melbourne	\$3.5bn
Sydney	\$2.4bn
Adelaide	\$1.83bn
Gold Coast	\$1.2bn
Perth	\$955m

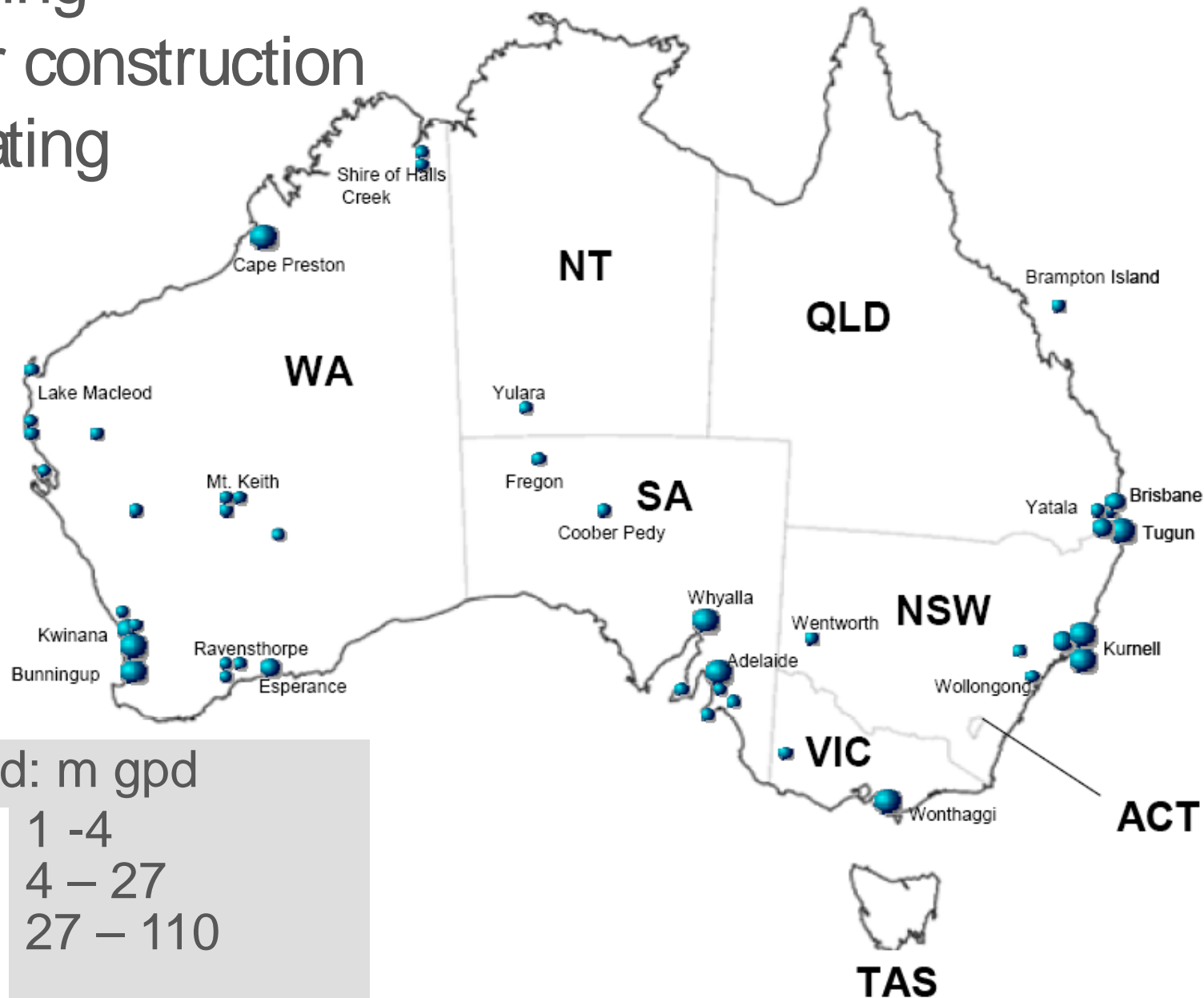
Source: The Australian



925 planning

976 under construction

294 operating





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Research Roadmap

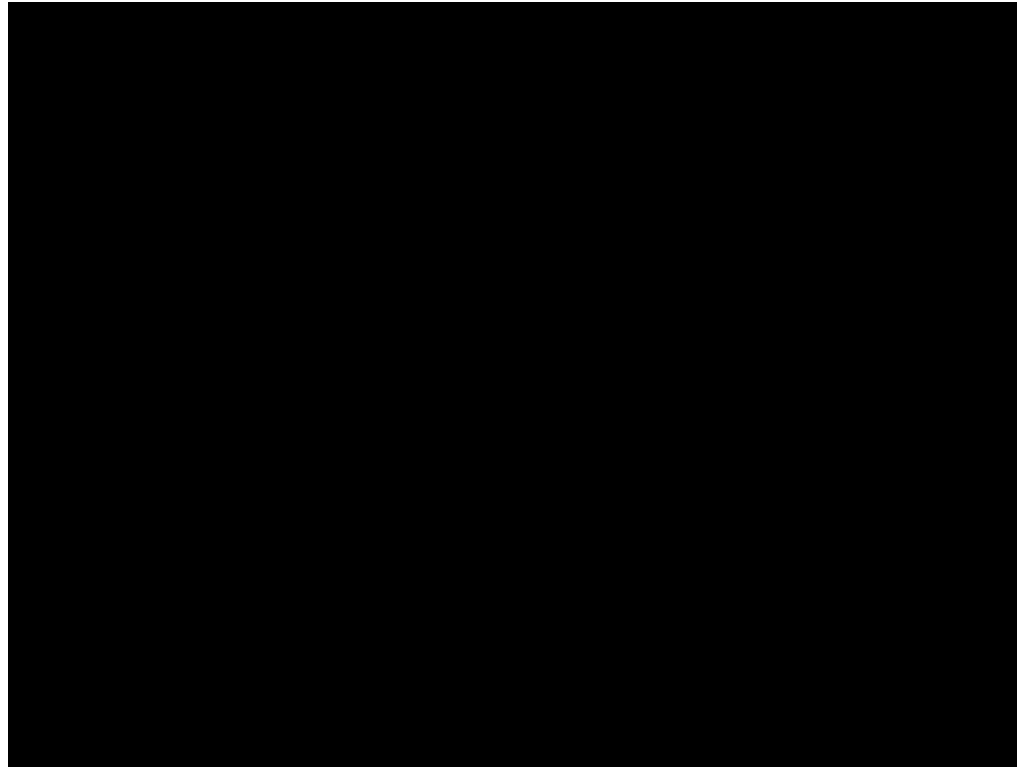
Rigorous, third-party validated guide for research investment

Draws inspiration from:

- Sandia National Labs' Desalination and Water Purification Technology Roadmap (2003)
- National Research Council's Desalination: A National Perspective (2008)



Indicative NCED projects: Entrapment and entrainment



Indicative NCED projects: Wagin and Woodanilling



Wagin (Department of Agriculture and Food WA)



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Collaboration opportunities

1. Centre industry partner
2. Project collaborator
3. Commercial services
4. People
5. Events



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