

# Navigating from abundance to scarcity: Three decades of water governance reform in the Murray-Darling Basin, Australia

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### Four states and one territory QUEENSLAND BRISBANE SOUTH AUSTRALIA NEW SOUTH WALES SYDNEY **SOUTH PACIFIC** OCEAN VICTORIA TASMAN SEA

### 1915 River Murray Waters Agreement

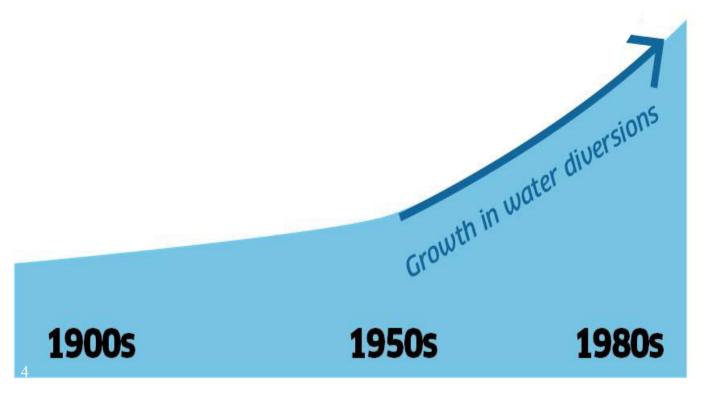




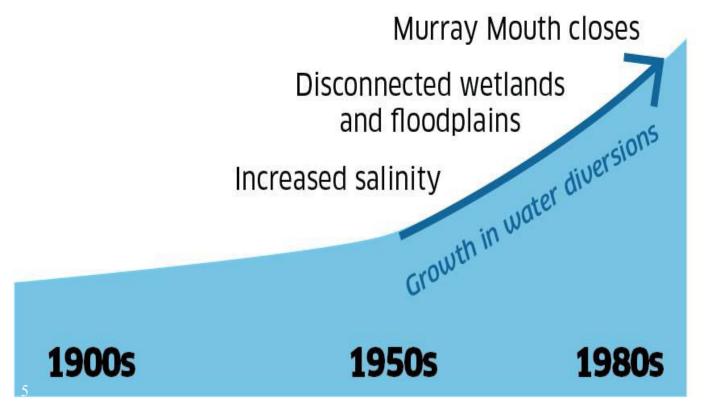




### Rapid growth in water extraction



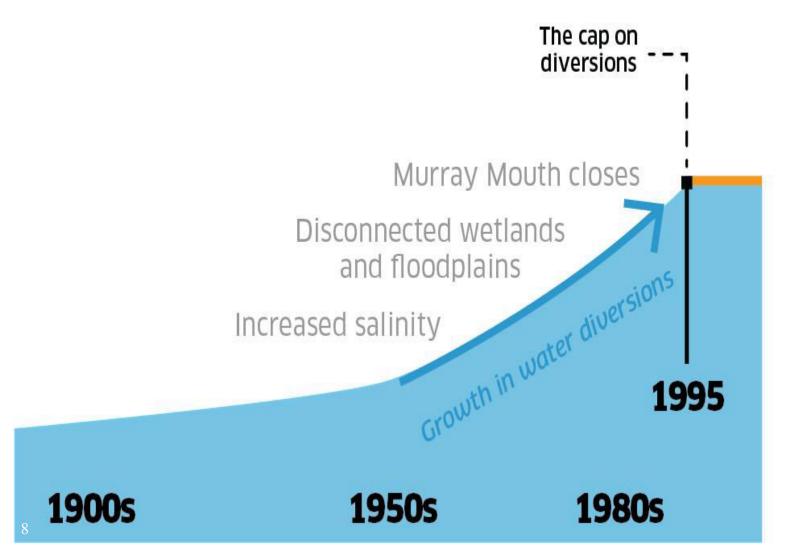
### Rapid growth in water extraction





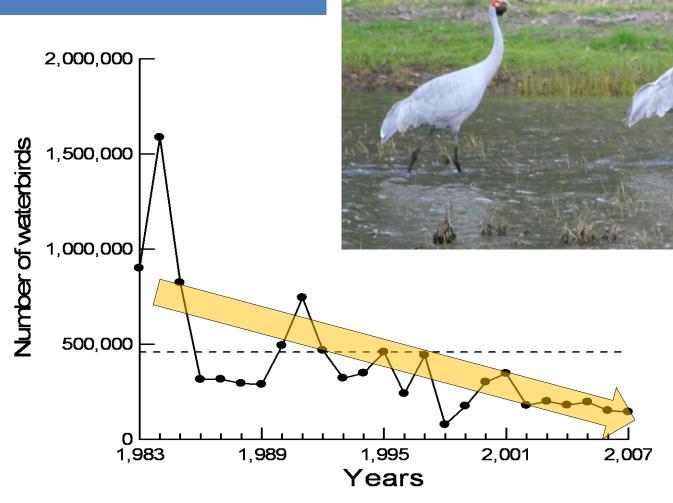


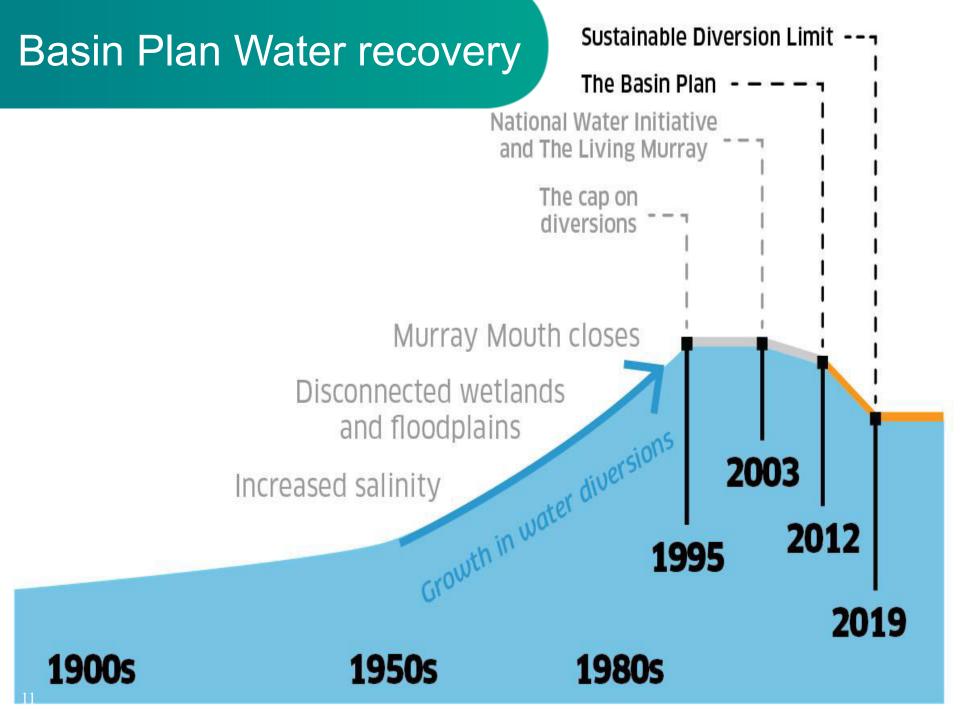
### Cap on diversions





Decreased flooding leading to loss of Water Birds from floodplain wetlands



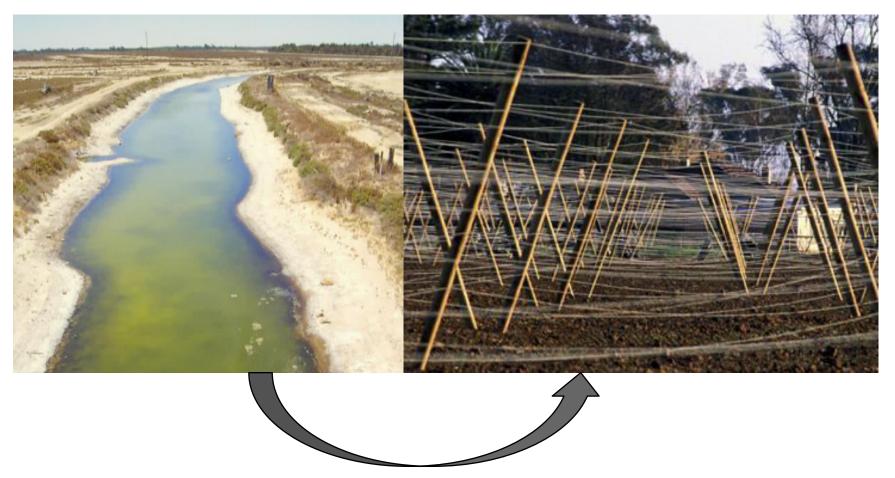


### **Key Governance Reforms in MDB**

- Building political and public commitment to act
- Sharing of data, information and knowledge
- New policies, legislation, strategies and plans, coordinated at National and State levels as necessary
- New economic, legal and regulatory instruments and approaches driving implementation
- Government institutions realigned and strengthened
- Monitoring and reporting of policy implementation: ensuring plans and agencies held accountable



### Water trading from lower value to higher value irrigation





### ..... from irrigation to cities





### ...and from irrigation to the environment



### Conjunctive surface- and ground-water use



#### Critical events and other influencing factors

- Extreme climate events especially drought
- Environmental catastrophes
- Political and organisational leaders & leadership
- Effective trans-boundary governance
- Adoption of a holistic river-basin approach
- Major financial investment



## Good governance is critical, but .... money often catalysed reform

#### Water for the Future fund (2007)

\$12.9 billion to 'buy' water reform (c. \$560 per person)

Funding to fundamentally change

- water use <u>allocation</u>
- water use <u>efficiency</u>

