

A snapshot of Australian water in 2009

mistakes & success

Joe Flynn

CEO

Water Industry Alliance

Water Industry Alliance

waterindustry.com.au



Water Industry
Alliance

tomatoes



- ✓ wastewater
- ✓ + stormwater
- ✓ + CO₂ harvesting

- ✓ 12 times yield
- ✓ 1/10 water
- ✓ 2 x \$ selling price

- ✓ Nexus of water, energy & food

exports !

- wastewater monitoring
- wastewater treatment MIEEX
- water quality guidelines
- pipes, fittings, valves
- reverse osmosis
- leak detection & prediction
- 15 year O&M alliancing
- soil moisture monitoring
- precision irrigation delivery
- rainwater harvesting
- water quality research and policy
- food research and knowledge
- competition policy



who we are

- ✓ not for profit industry association
- ✓ drive water exports
- ✓ 240 member companies
- ✓ membership from across the water sector:
governments & private sector, education, research,
consulting, manufacturing, technology, contractors,
operators

our intent

share experience

– success & mistakes

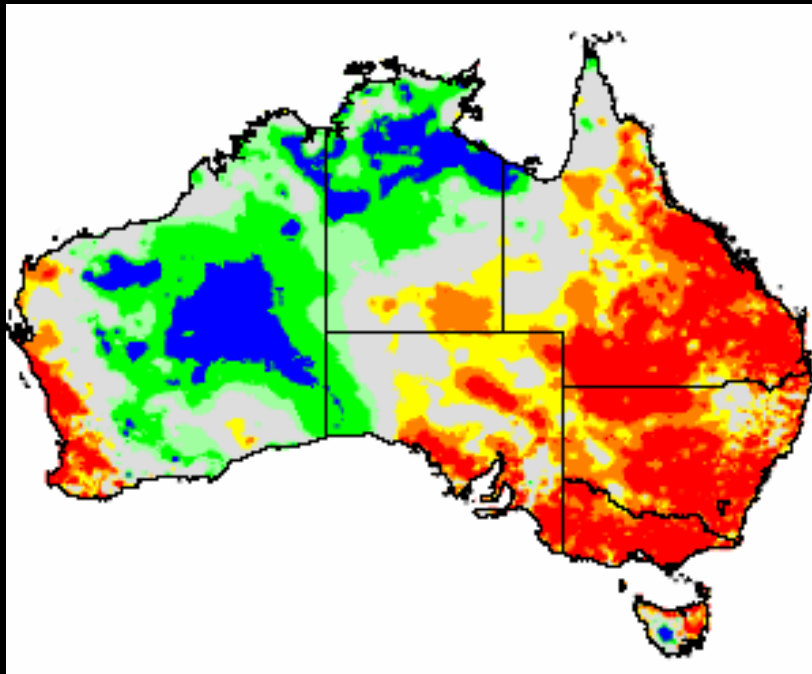
create innovation networks

- linking clients, suppliers & researchers



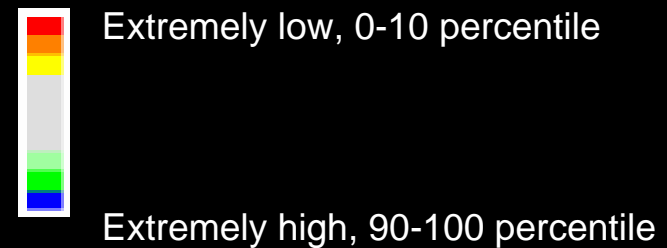
key points

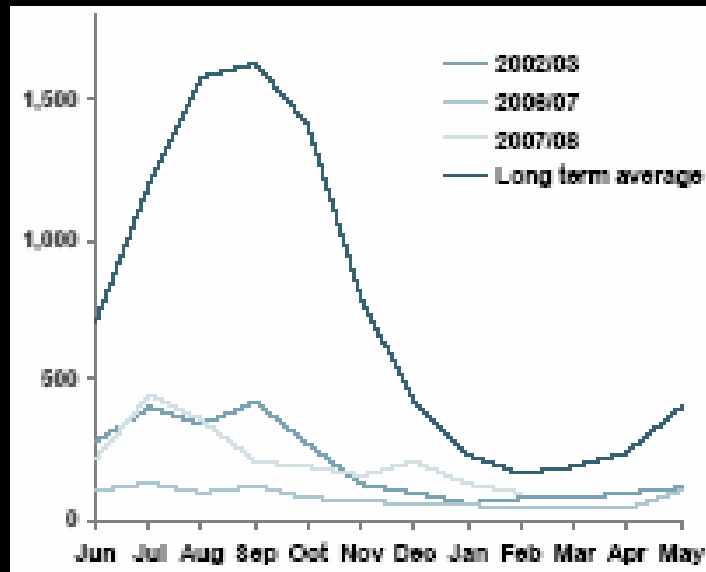
1. climate change – not if but how we respond
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation



Recent rainfall & trends

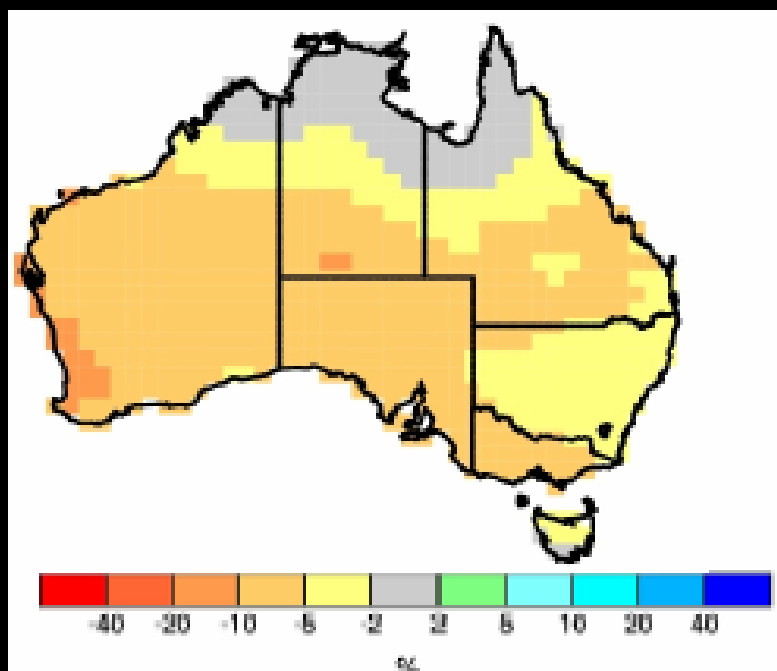
Rainfall relative to historical records, 2002 to 2007





Inflows continue to be below long term average

Total inflows to Murray system, long term average & selected years



Rainfall levels predicted to fall as a result of climate change.

Predicted % change in annual rainfall in 2050, with respect to 1990

key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation

competition reforms

- Not privatisation, retain public ownership
- Regulator acts as a competitor
- Separation of service delivery, regulation, policy setting & ownership
- Water must be available for interstate trade
- Amalgamation
- Corporatisation
 - Cost recovery pricing
 - Planning including asset management & whole of cycle

key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation



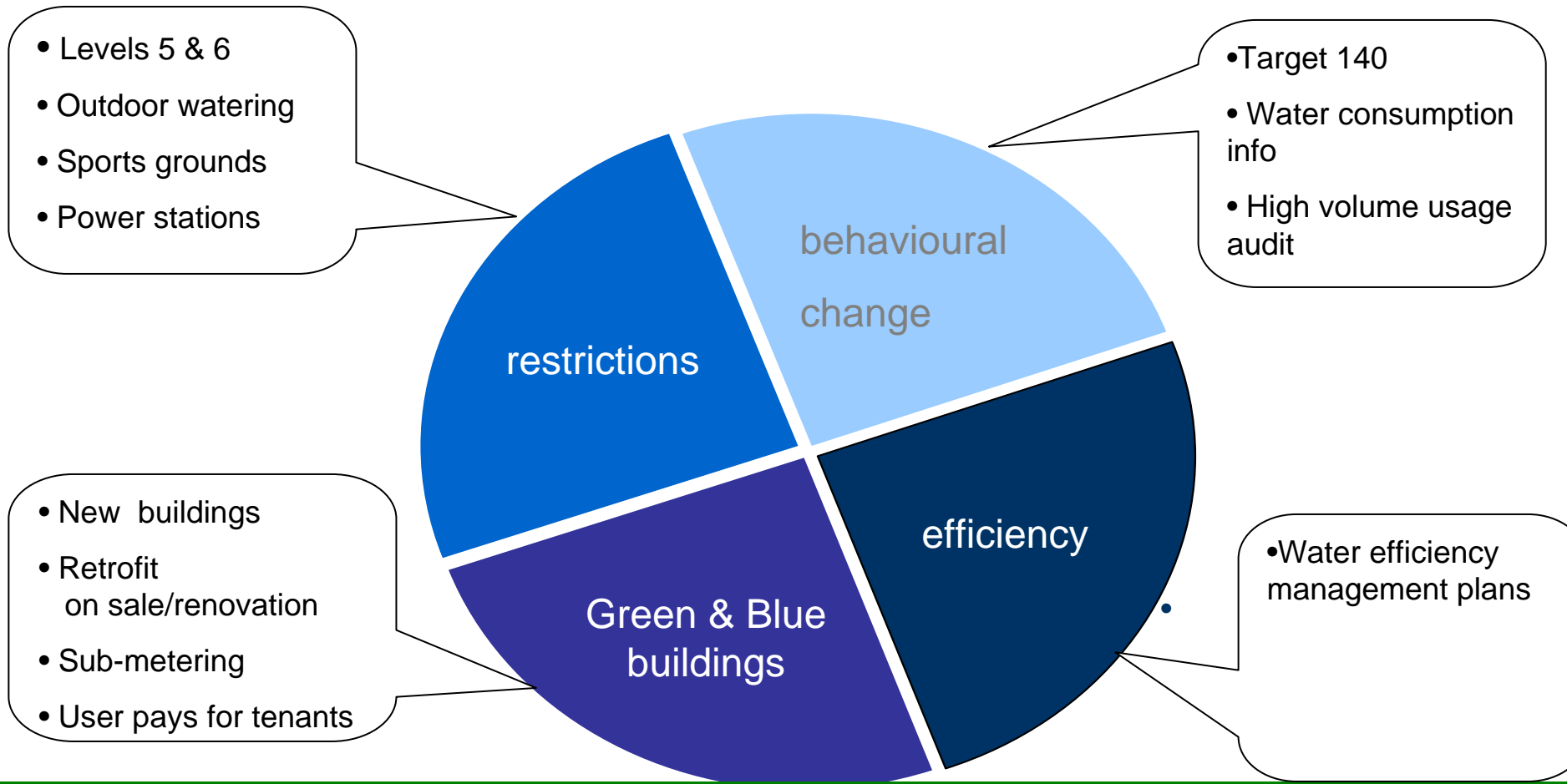
pricing

- metering all consumption
- long term asset management
- drives demand management
- independent regulator outside of political process
- 15% pa price increase to \$2.80 / kL



key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation



Supporting Measures - Pricing - Incentives & subsidies - Community education

key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of water cycle
6. water trading
7. diverse sources
8. culture of innovation

natural resource management

- 100% allocation + reduced inflow + States = dying Murray
- Sustainable flows
- Ecological health
- Integrated management of whole of catchment
- Linking ground & surface water
- Salinity

key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation



water trading

- Separate land right from water right
- Water moves to highest value use including the environment
- Integrity
- States must make their water available



key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation

diversification of sources

- Conservation eg. Target 155
 - rebates, pricing, education,
- Reuse eg. 45% target
- Grids
- Rainwater tanks
- Greywater reuse
- Desalination
- Urban stormwater harvesting & ASR

key points

1. climate change
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation

culture of innovation

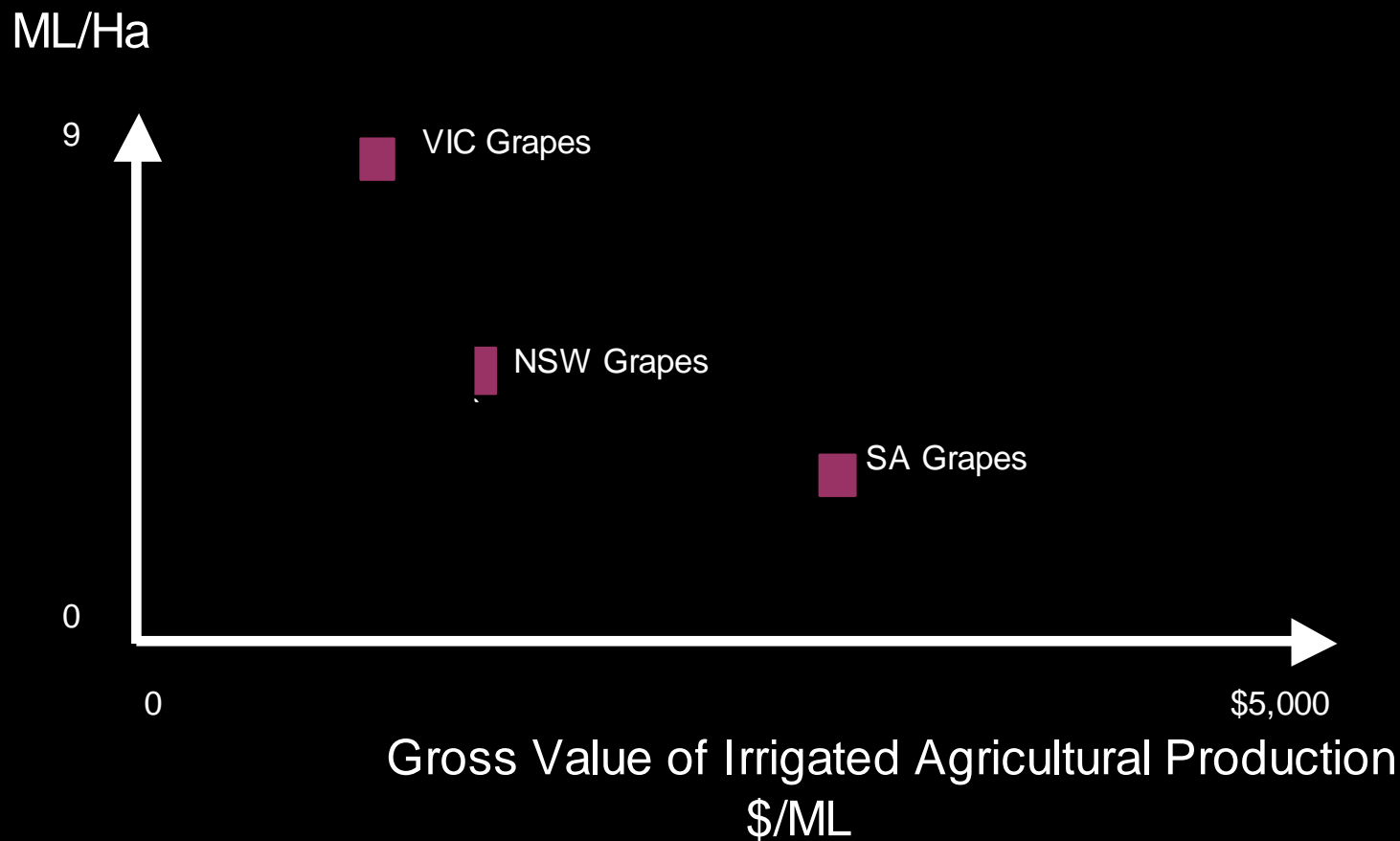
- Prediction
- Measurement
- Carbon Footprint reduction / Cleantech
- Creating the Future



aquaspy.com.au

- designs, manufactures and distributes moisture sensors and smart IT for the irrigation market worldwide
- improve crop quality & yield while reducing water 20-70%





Source: ABS Water Account 04 05

water solutions for a thirsty world
from the world's driest inhabited continent

240 companies
\$2.4bn exports



Water Industry Alliance
waterindustry.com.au

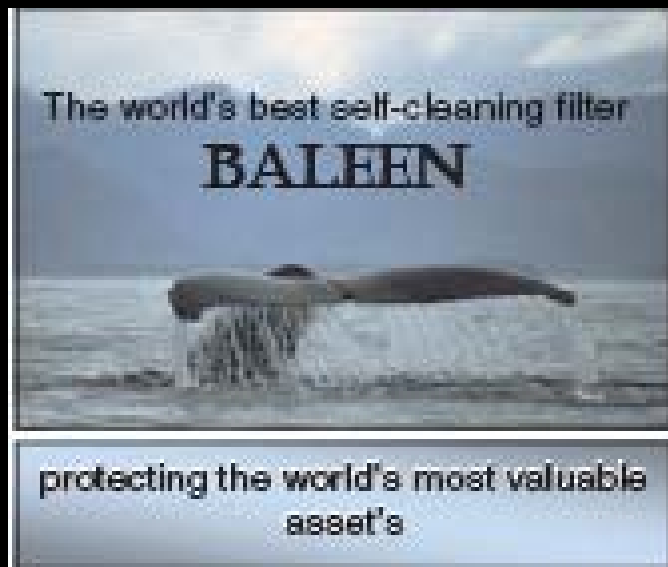


willunga basin water company



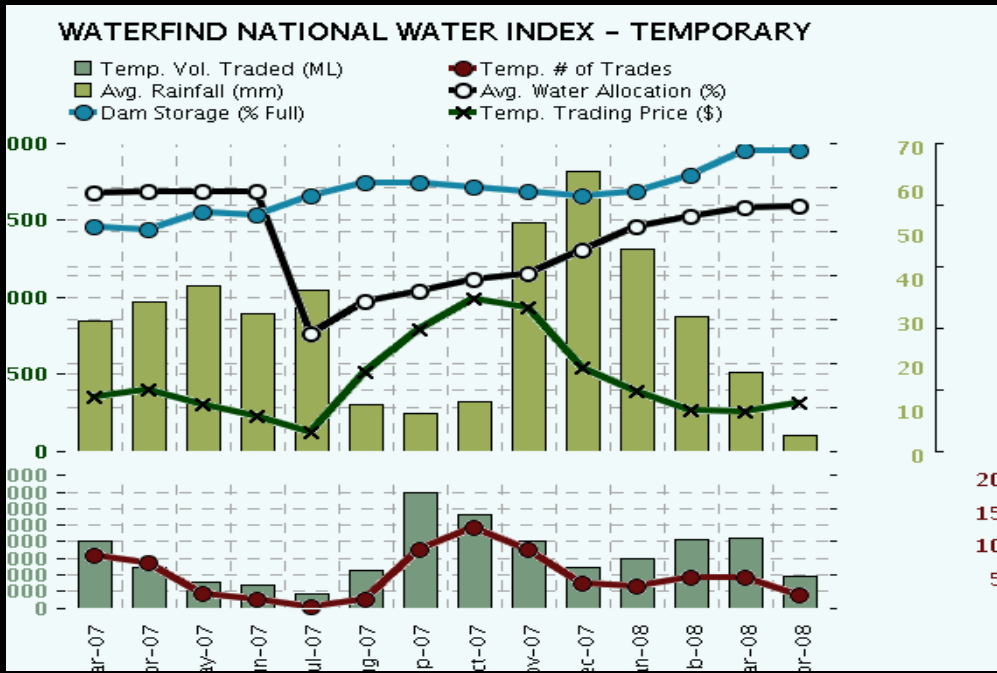
- ✓ provides reuse water for 50% of McLaren Vale winegrowing region
- ✓ reduces Nitrogen & Phosphorous dumping
- ✓ owned & operated by water users

baleen filters



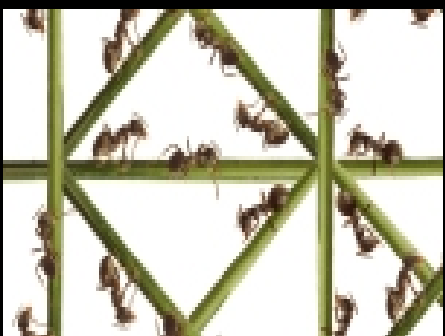
- ✓ self cleaning filter
- ✓ 1/60 energy of traditional wastewater treatment
- ✓ wine, meat, mining, utility, food processing

waterfind.com.au



- ✓ Stock Exchange for Australian water
- ✓ Australia's largest water broker
- ✓ pricing data, indexes, alerts, news





Optimatics.com.au

- world leader in water systems optimization
- saving 20% to 50% on multi million \$ capital works plans in the USA & Europe
- utilising Ant Colony Optimization, Particle Swarm Optimization and Artificial Neural Networks.

Creating the future

- Academics engaged with policy & industry
- Research
 - Australian Water Quality Centre
 - Centre for Water Management and Reuse
 - Water Quality Research Australia
 - ICE WaRM

key points

1. climate change, not if but how we respond
2. competition policy – roles & better management
3. pricing & cost recovery
4. demand management & efficiency
5. natural resource mgmt & whole of catchment
6. water trading
7. diverse sources
8. culture of innovation



water solutions for a thirsty world

240 companies

from the world's driest inhabited continent

\$2.4bn exports

Joe Flynn

CEO

Water Industry Alliance

Water Industry Alliance

waterindustry.com.au



Water Industry
Alliance