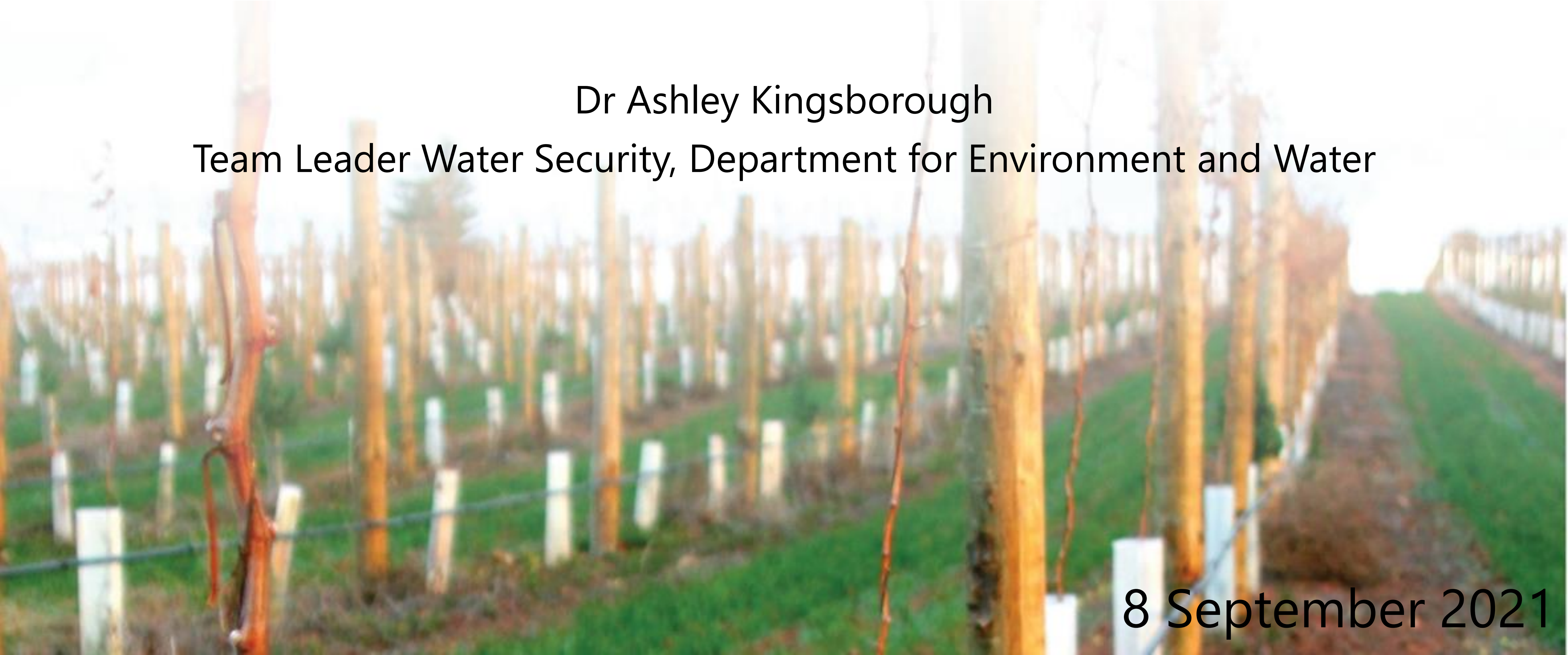
Water Security in South Australia

Piloting a Water Security Strategy for the Barossa

Dr Ashley Kingsborough

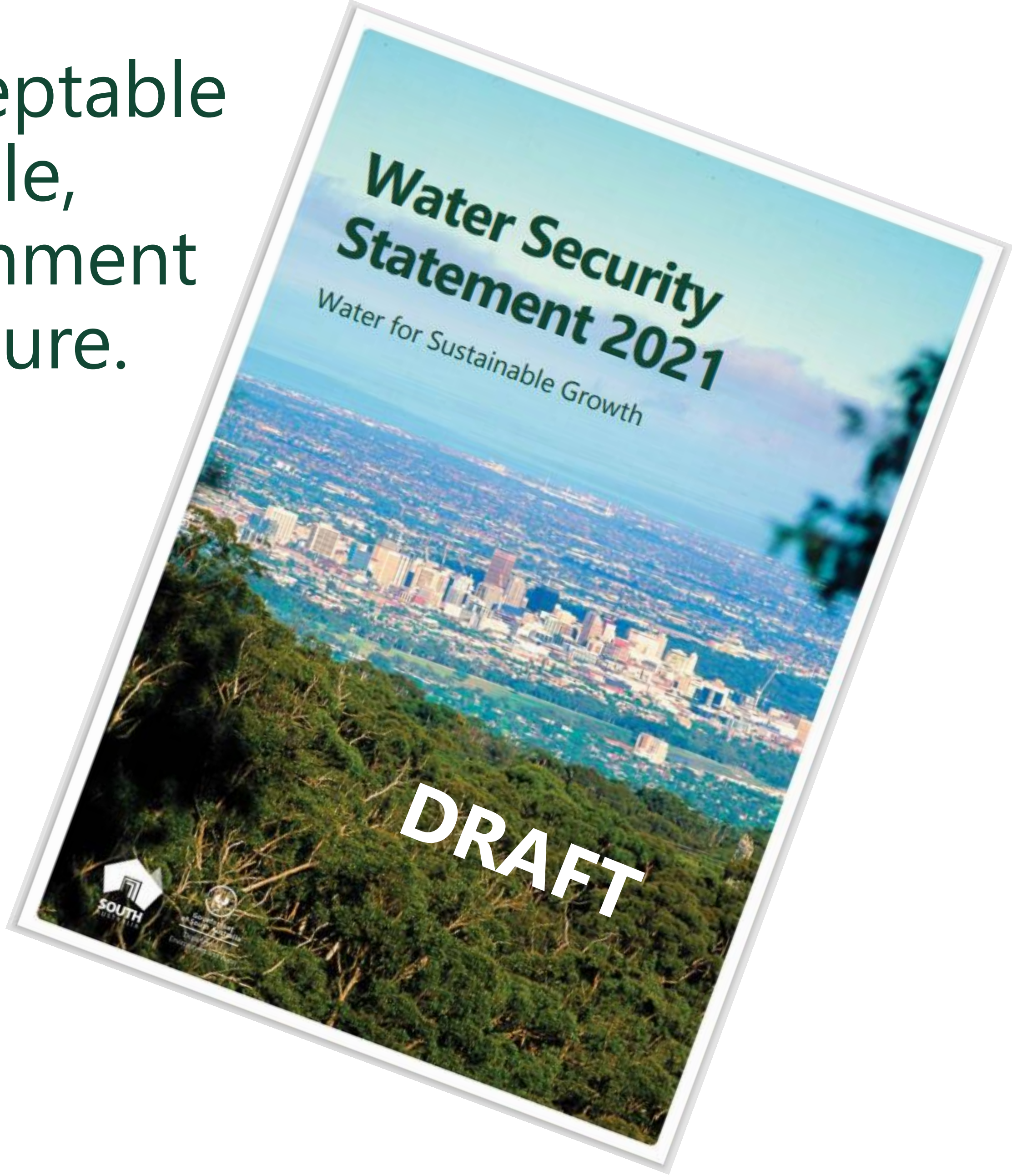
Team Leader Water Security, Department for Environment and Water



8 September 2021

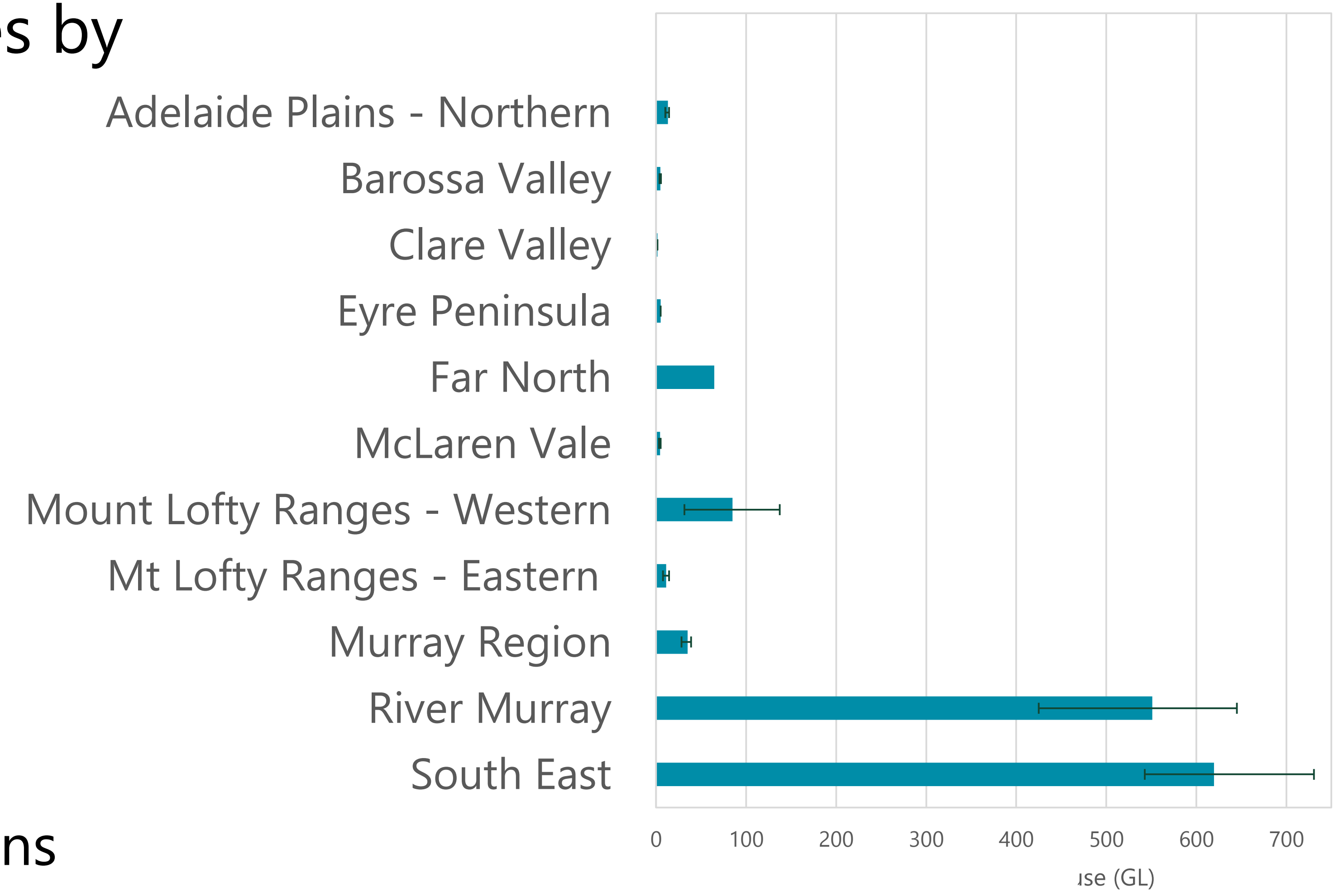
Water security is about having an acceptable quantity and quality of water for people, communities, industry and the environment that is affordable now and into the future.

- Water Security Statement:
    - Provides overview of water security status across SA
    - Opportunity to have water security conversations
    - Sets water security priorities out to 2024
    - Water Industry Act requirement



Water security in SA

- Water security profile varies by region based on:
  - water resources,
  - industries supported
  - investment in infrastructure
- Key challenges:
  - Recent extended drought
  - Climate change impacts
  - Growth in water demand
  - Fit for purpose local solutions
  - Cost of infrastructure (*CAPEX and OPEX*)



Average annual water use (GL)
2015-16 to 2018-19

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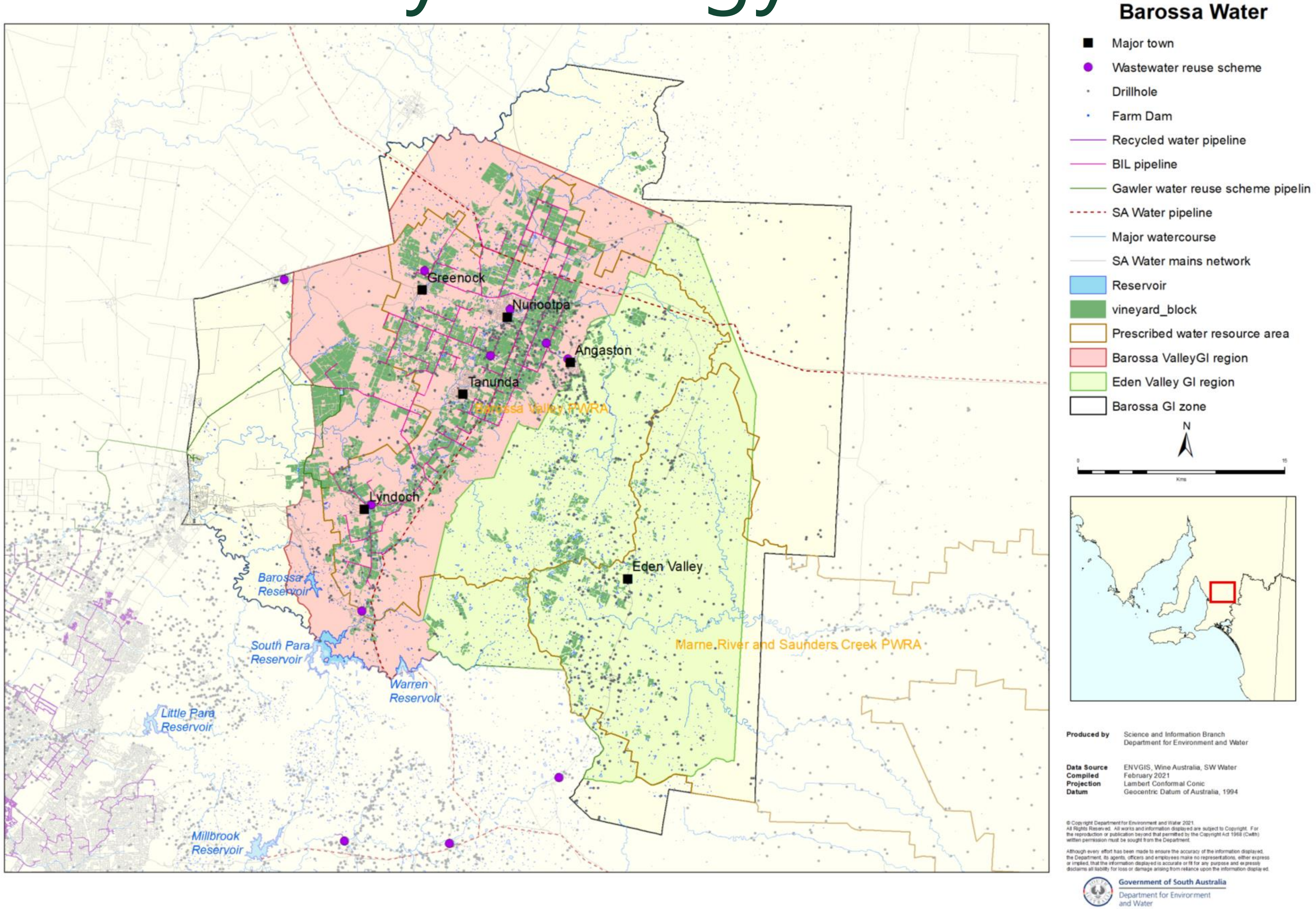
Strategic priorities for water security

1. **Climate resilience**
2. **Water as an enabler of economic growth**
3. **Strategic water security planning**
4. **A renewed water security governance framework**
5. **Ecologically sustainable water resource management**
6. **Provision of critical human water needs**
7. **Aboriginal water interests**
8. **Full implementation of the Murray-Darling Basin Plan**
9. **Integrated urban water management**
10. **Innovation and competition in the water industry**
11. **Data, analytics and insights for the digital water future**

Barossa Water Security Strategy



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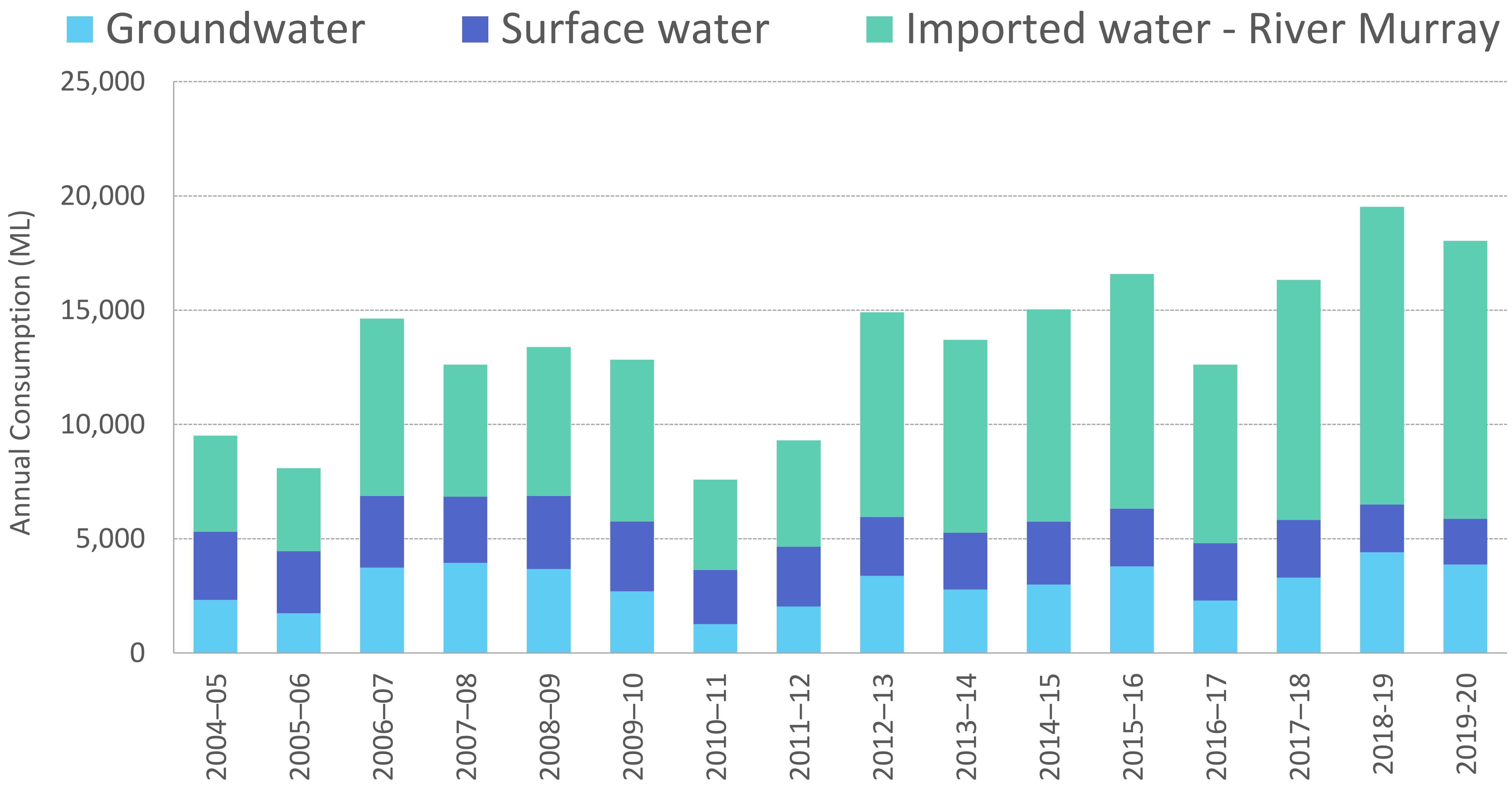

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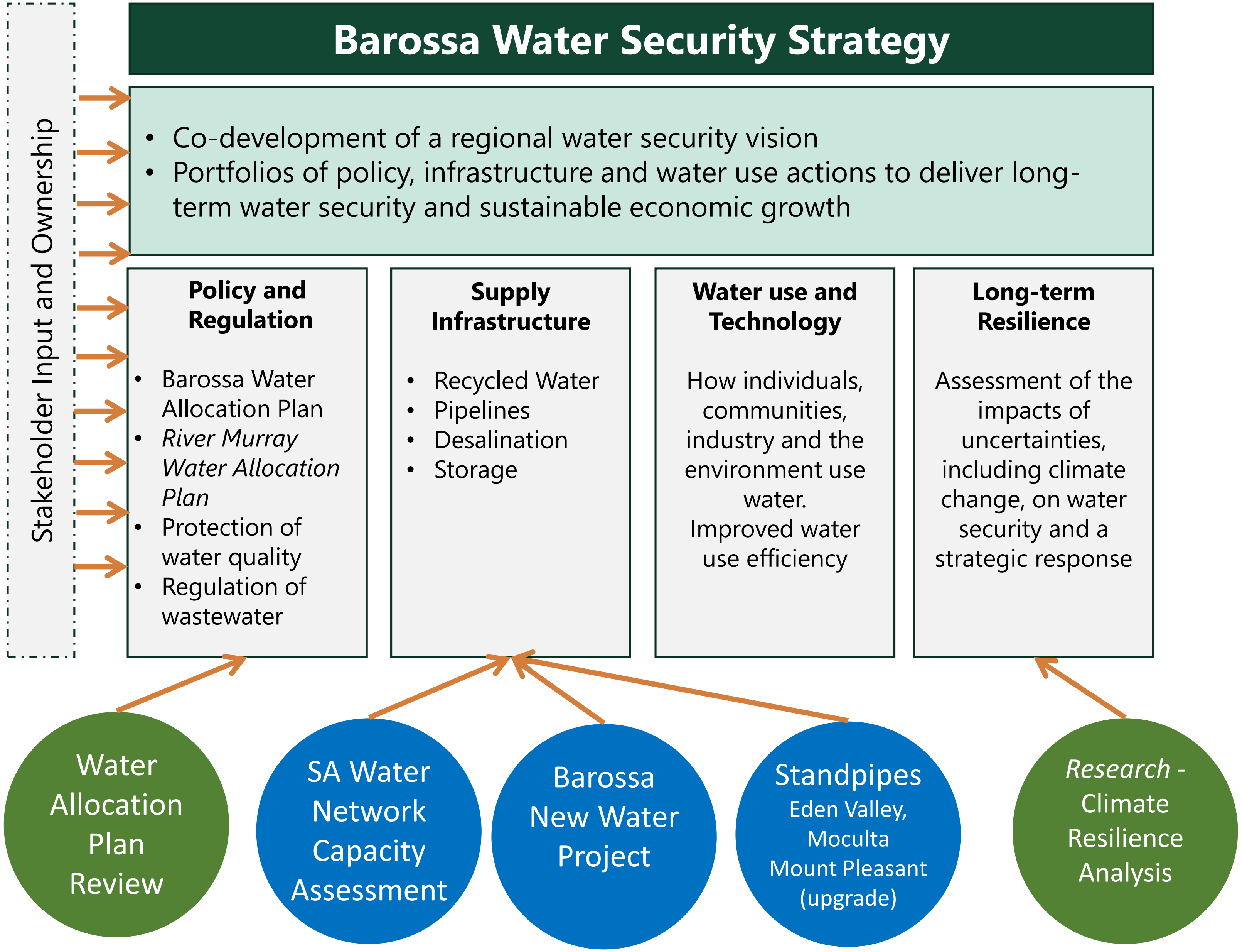
Why a Barossa water security strategy?

- To ensure there is an acceptable quantity and quality of water for communities, industry and the environment that is affordable now and into the future.
- To complement "traditional" water allocation planning undertaken by government, and deliver solutions to water management challenges.
- To identify and support investment in enhanced water security outcomes.

- A 30-year time horizon
- A shared vision of water security
- Utilisation of scenarios to explore key uncertainties
- Pathways for the implementation of plausible actions
- Economic and hydrological analysis



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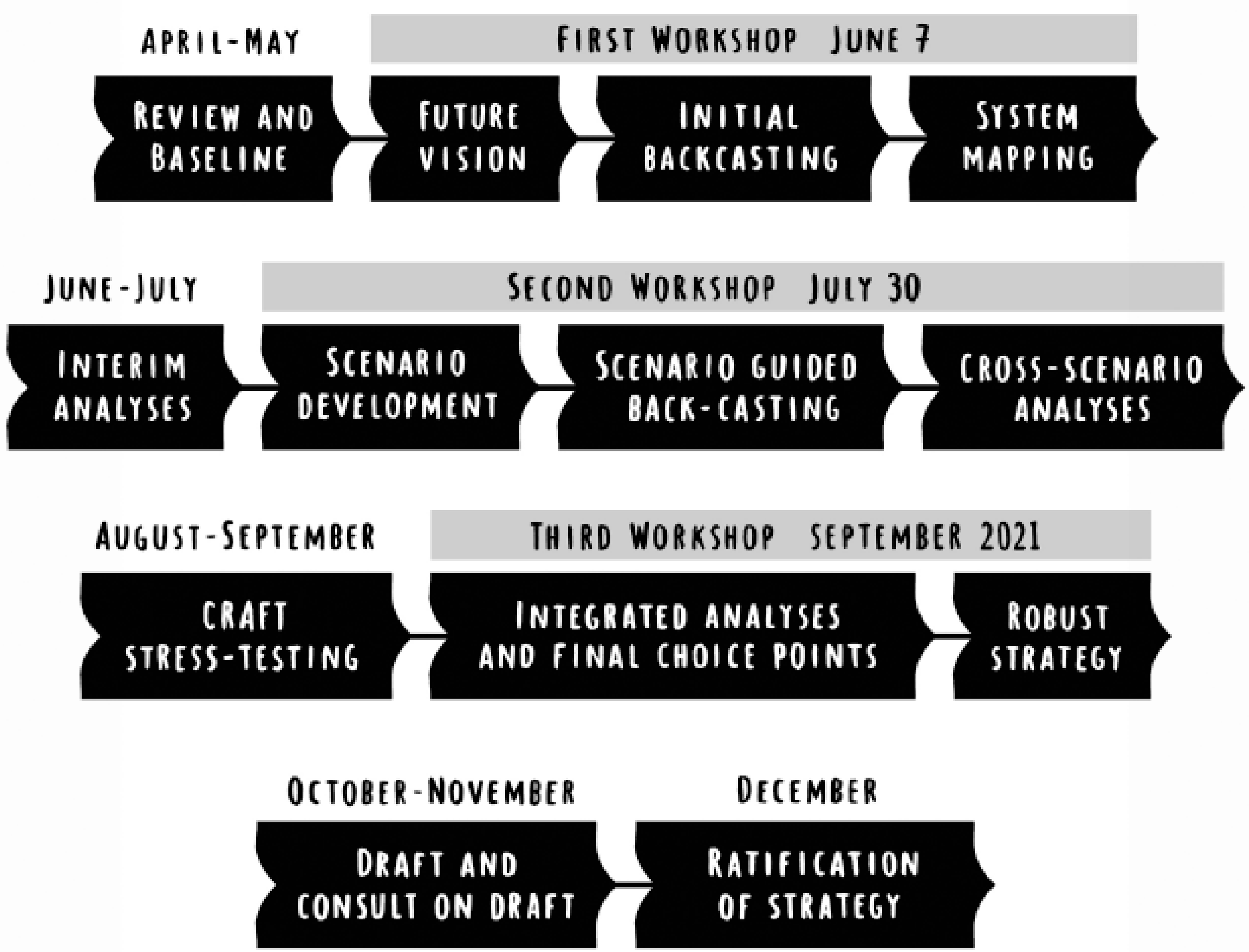
Process



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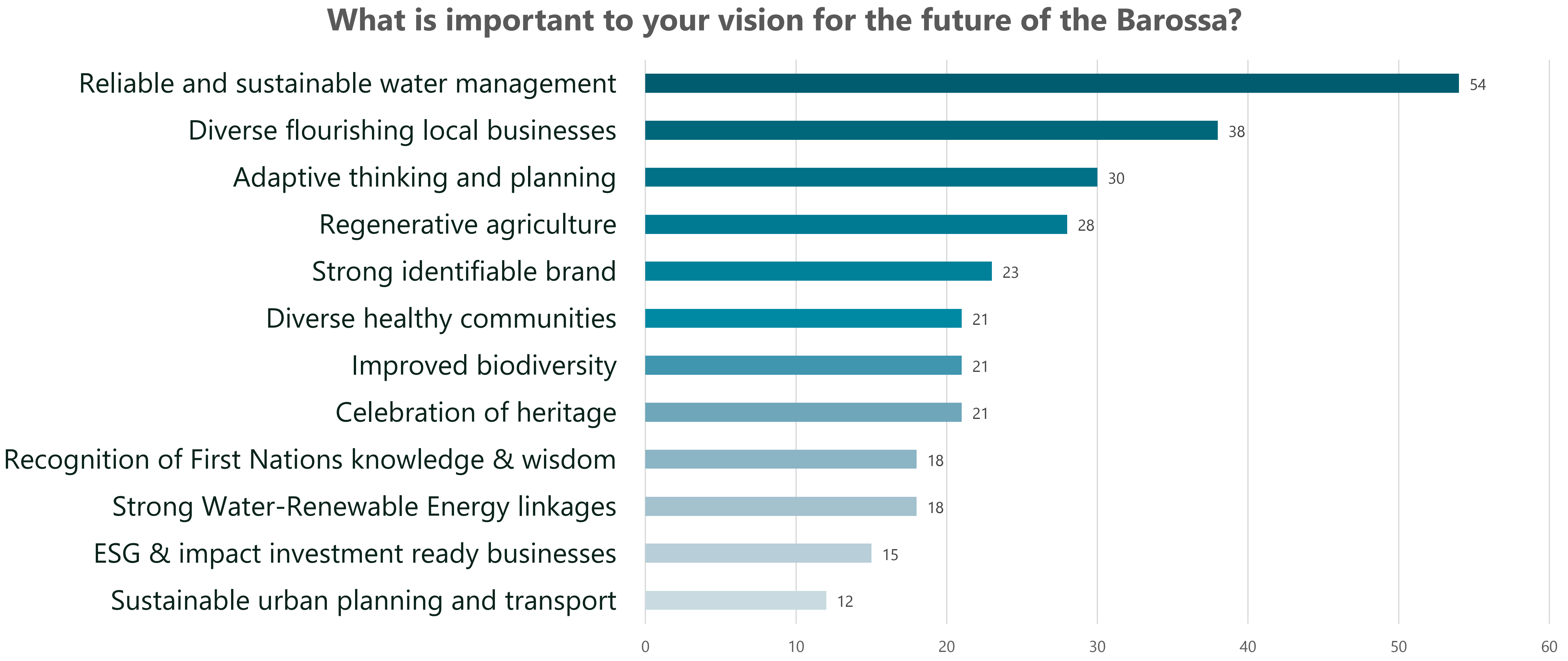
Vision



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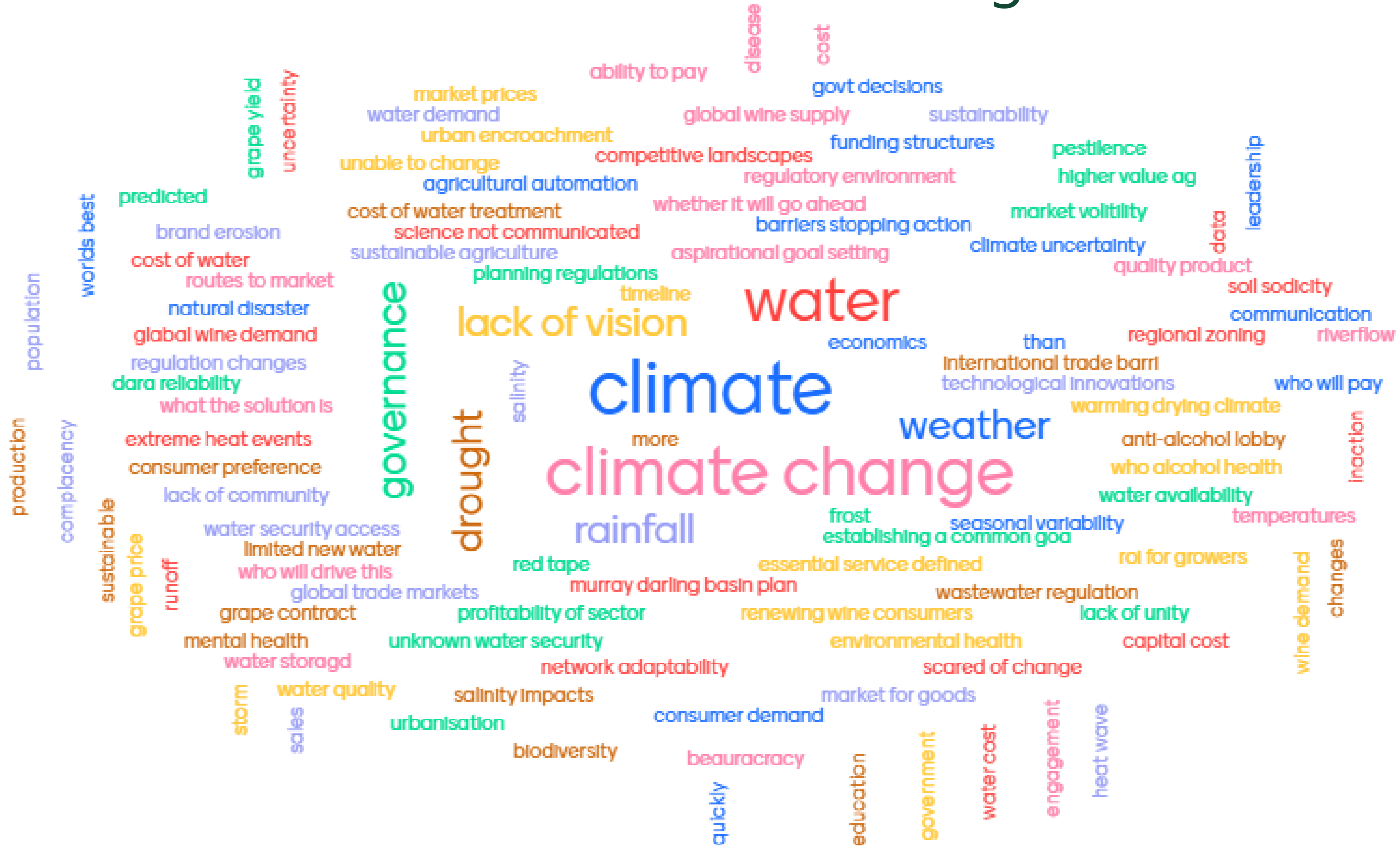
Vision

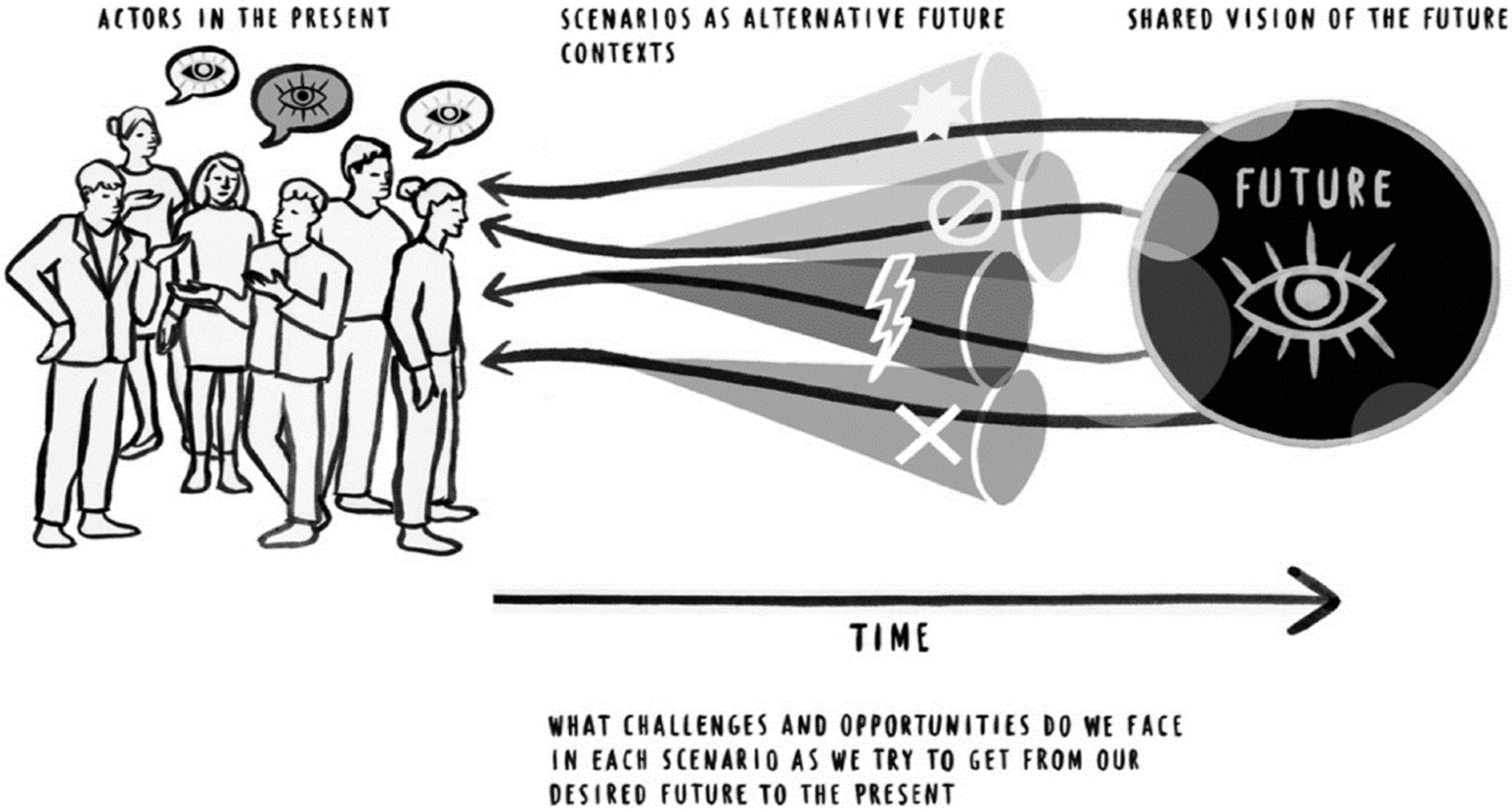
The Barossa is:

- an internationally recognised food, wine and agricultural region that supports diverse businesses, communities and ecosystems.
- underpinned by reliable long term availability of water (of acceptable price and quality), renewable energy, biodiversity and regenerative agricultural practices.
- strengthened by its unique indigenous and non-indigenous cultural heritage.
- resilient and innovative - able to effectively adapt to future opportunities and challenges.

Important and uncertain factors influencing the future



How may we move forward together?



Helfgott, 2018

Adaptation pathways provide a mechanism to link short and long-term decision making

Emerging Strategic Pillars

- Collaborative Adaptive Governance
- Knowledge Management and Education
- Business Innovation and Diversification
- Integrated water supply and demand management
- Regenerative land management for water security
- Healthy waterways and ecosystems

Contacts and Further Information

www.environment.sa.gov.au/topics/water/water-security/barossa-water-security-strategy

Dr Ashley Kingsborough,
Team Leader Water Security, DEW
E: ashley.kingsborough@sa.gov.au

Peta Brettig
Principal Policy Officer, DEW
E: peta.brettig@sa.gov.au

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