

HAB Recovery and Resilience Planning

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Government of
South Australia

HAB - a different kind of emergency

- Slow-onset event
- Spatially dynamic
- Immense geographic scale
- Prolonged and uncertain
- Cascading impacts
- Primarily impacting the natural environment
- No doctrinal (or approved) strategies to combat the hazard
- No formal emergency management arrangements
- No clearly defined state/federal funding arrangements

Pervasive impacts



Temporary commercial and recreational fishing restrictions announced amid ongoing algal bloom

By Olivia Mason Environmental Management

Thu 23 Oct 2025



The fishing restrictions were announced at a press conference on Thursday. (ABC News: Lincoln Rothall)

Oyster growing areas closed again on the Yorke Peninsula due to toxic phytoplankton

By Tom Mann and Isabella Kelly

ABC Rural Marine Biology

Fri 24 Apr



Communities impacted by SA's algae bloom take stock of destruction

By Caroline Horn ABC South East SA Oceans

Tue 27 May 2025

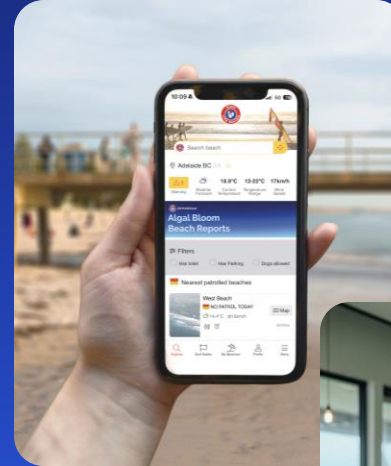


Government response: \$162+ m

Health and social wellbeing - Ensuring South Australians can enjoy their summer

Industry and economy - Backing coastal businesses and communities

Environment and research - Advancing research and protecting our environment



Health and social wellbeing

- Public information and community engagement program
- Coastal monitoring and condition reporting - BeachSafe app
- Marine mortality waste management – beach cleanup
- Coastal event funding
- Public information – websites, signage, call centre, community forums
- Recreational fishing initiatives – reservoirs, stocking programs, artificial reefs
- Aquatic active sport and recreation grants
- Free national park entry and free use of boat ramps

Industry and economy

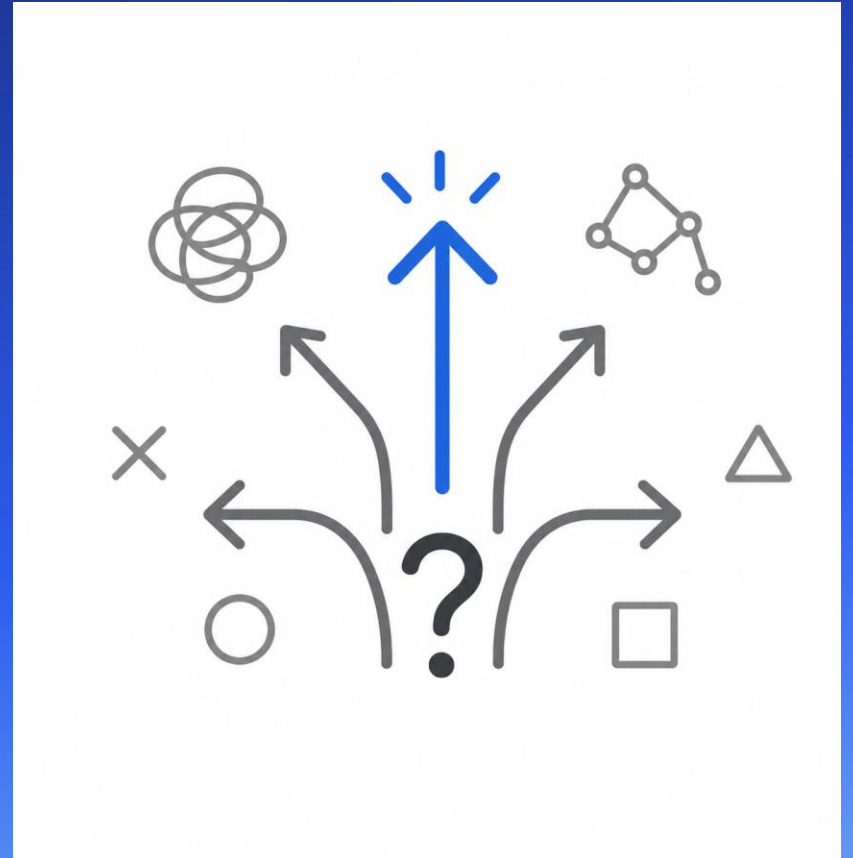
- Economic stimulation – travel vouchers, dining vouchers, coastal event fund
- Industry support – small business grants, fisheries and aquaculture license holder grants
- Resilience grants
- Research and development grants for industry
- License fee relief

Environment, science and research

- Blue carbon initiatives - shellfish reefs, wetlands and seagrass meadow restoration
- Threatened and vulnerable marine species breeding and conservation
- Citizen science initiatives
- Testing and monitoring – human health syndromic surveillance, HAB status, wildlife mortalities, nutrients, biotoxins, and real-time oceanographic
- National testing capability for brevetoxin analysis
- Office for Algal Bloom Research

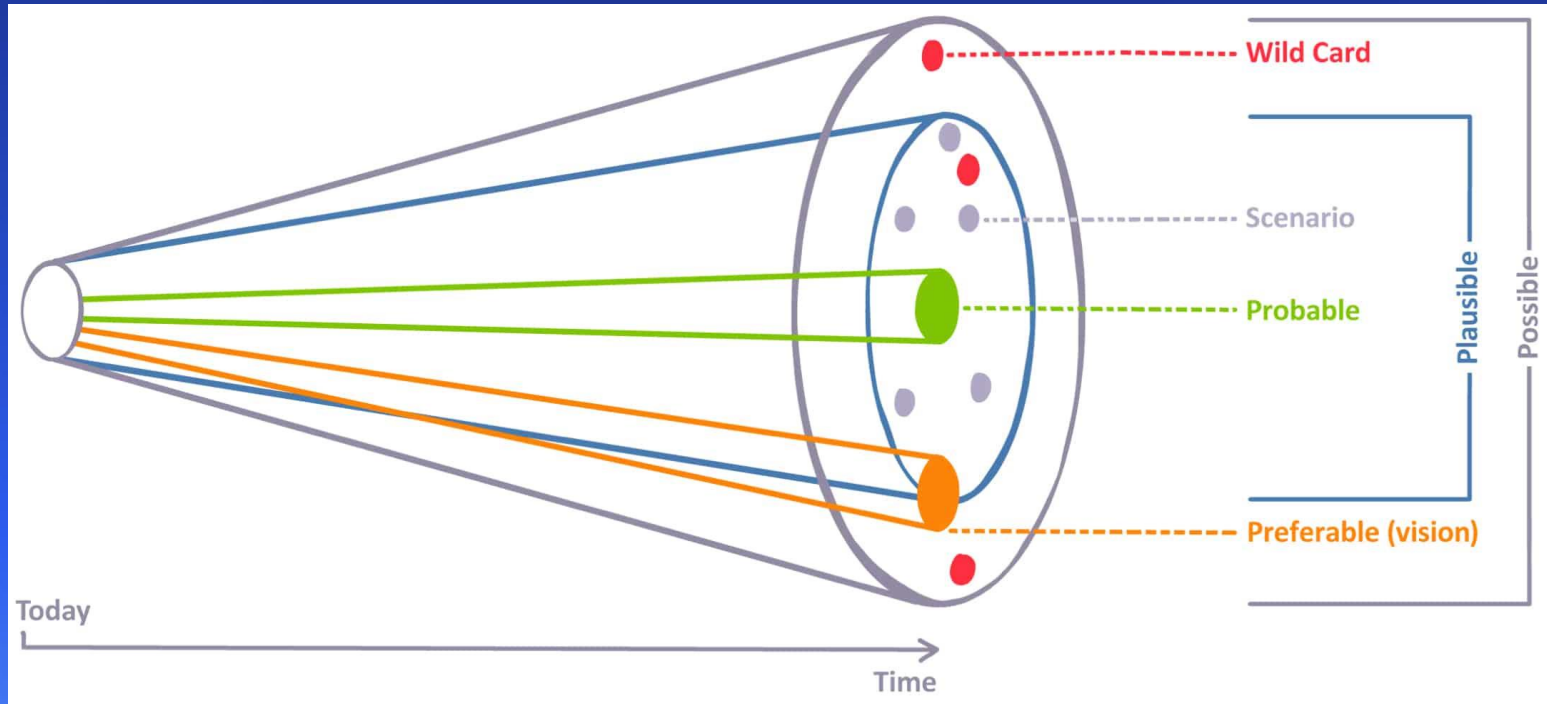
How do you approach future planning in this context?

- Crisis Appreciation and Strategic Planning Tool (CASP)
- Apply national recovery doctrine and best practice recovery planning
- Scenario planning and adaptive pathways



Possible and plausible futures

A flexible way to conceptualise possible futures, establish adaptive pathways, make decisions to manage the impact of a changing situation, where we don't have all the information ...



**Planning for
uncertainty
(plausible and
possible futures)**

**Collaborative
process**

**Long term
planning**

**Triggers &
thresholds**

Decision points

Algal Bloom – Recovery and Resilience Planning

Bioeconomic assessment of SA fisheries

Economic and biological fisheries
performance assessments
Entitlement and management rules

Industry
Recovery
Report

Government
consideration

Environmental Impact Assessments, incl:

HAB Impact Assessment on Nearshore Marine Biodiversity (DEW)

Threatened Species and Ecological Communities Risk
Assessment (DEW)

Ecosystem modelling of impacts, recovery and
management (SARDI)

Ecological
recovery
plan (DEW)

Recovery and Resilience Planning

Recovery and Resilience Plan Development

Draft Recovery and
Resilience Plan

Government
consideration

Implement
Plan →

Future preparedness and governance arrangements

State Emergency Management Plan review

Control Agency (CA) and
Hazard Risk Reduction
Leader (HRRL) assigned

Revised
State Emergency
Management
Plan

HAB response
plan (CA)
HAB hazard risk
reduction plans
(HRRL)

Thank you

For more information and updates, visit:
algalbloom.sa.gov.au



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