



UNDERSTAND | ADAPT | TRANSITION

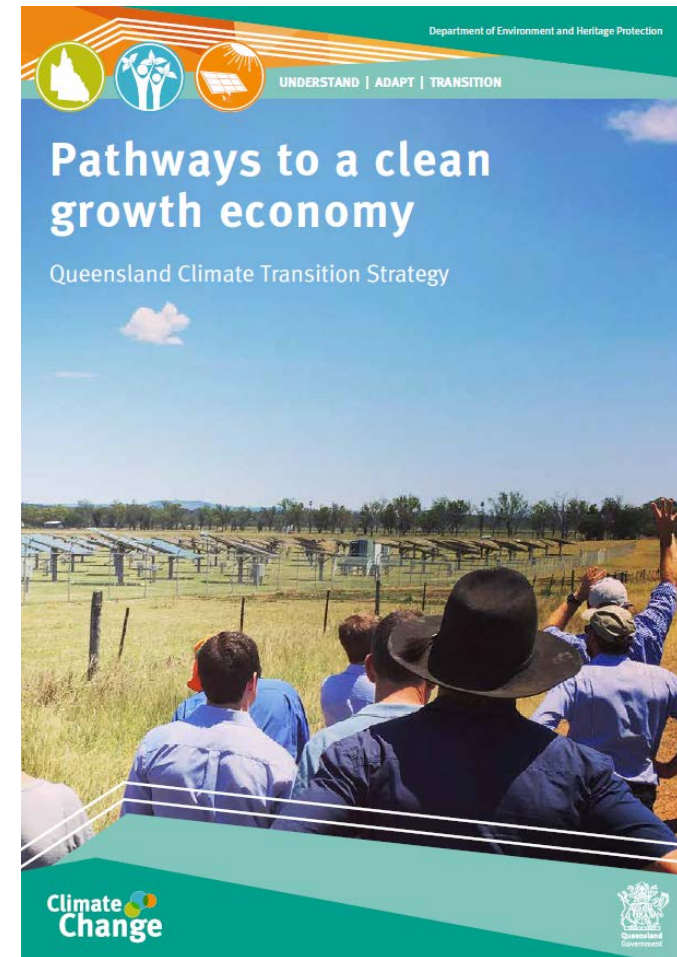
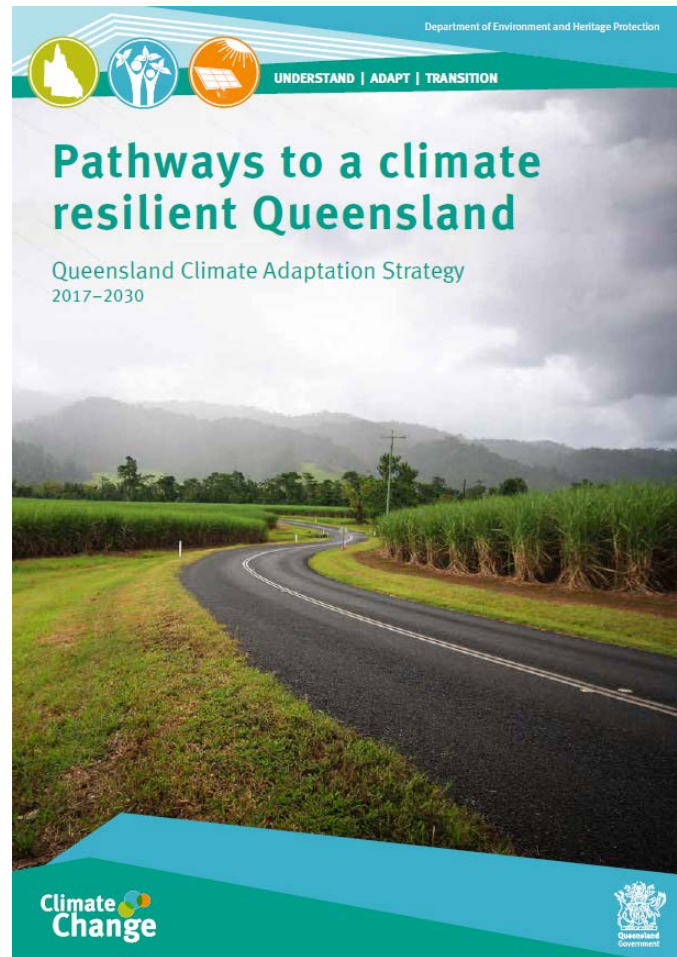
Queensland Climate Change Response

David Putland

A/Manager, Science and Reporting

Climate Change Policy, Department of Environment and Science

Email: david.putland@des.qld.gov.au



Vision:

An innovative and resilient Queensland that manages the risks and harnesses the opportunities of a changing climate.

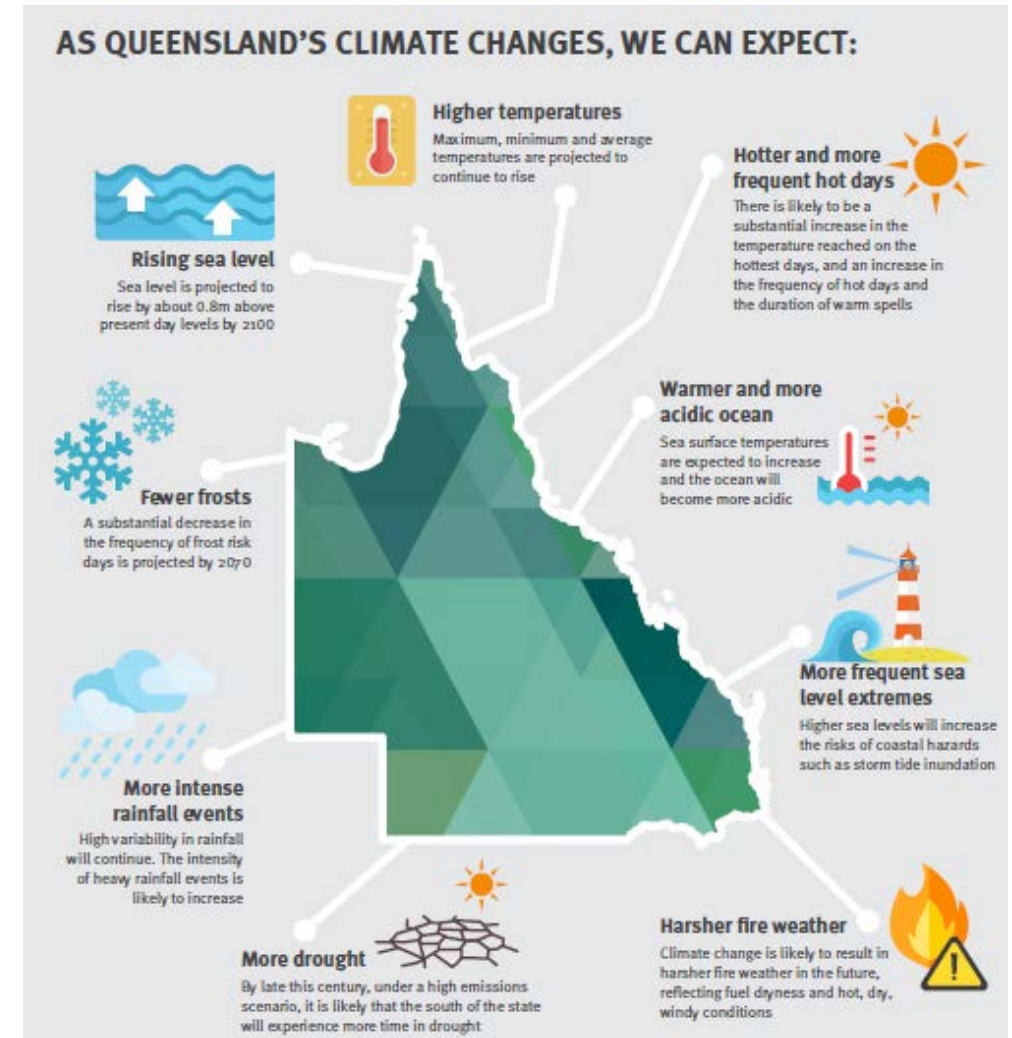
Comprehensive public consultation

- Over 6200 submissions
- 248 participants in workshops across the state
- Q-CAS Partners group
- Recurring themes :
 - Community focus
 - Government leadership
 - Ending the reliance on fossil fuels
 - Strong support for transitioning to renewable energy
 - Positive responses for Queensland to join the 'Under2 Coalition'.



Physical climate hazards

- Average temperatures in Queensland have increased by approx. 1°C over the last 100 years
- Between 2011 and 2016, 45 extreme weather events caused \$13 billion in damage to public assets
- In the 10 years to 2016, insured damage to private assets was valued at \$8.6 billion.

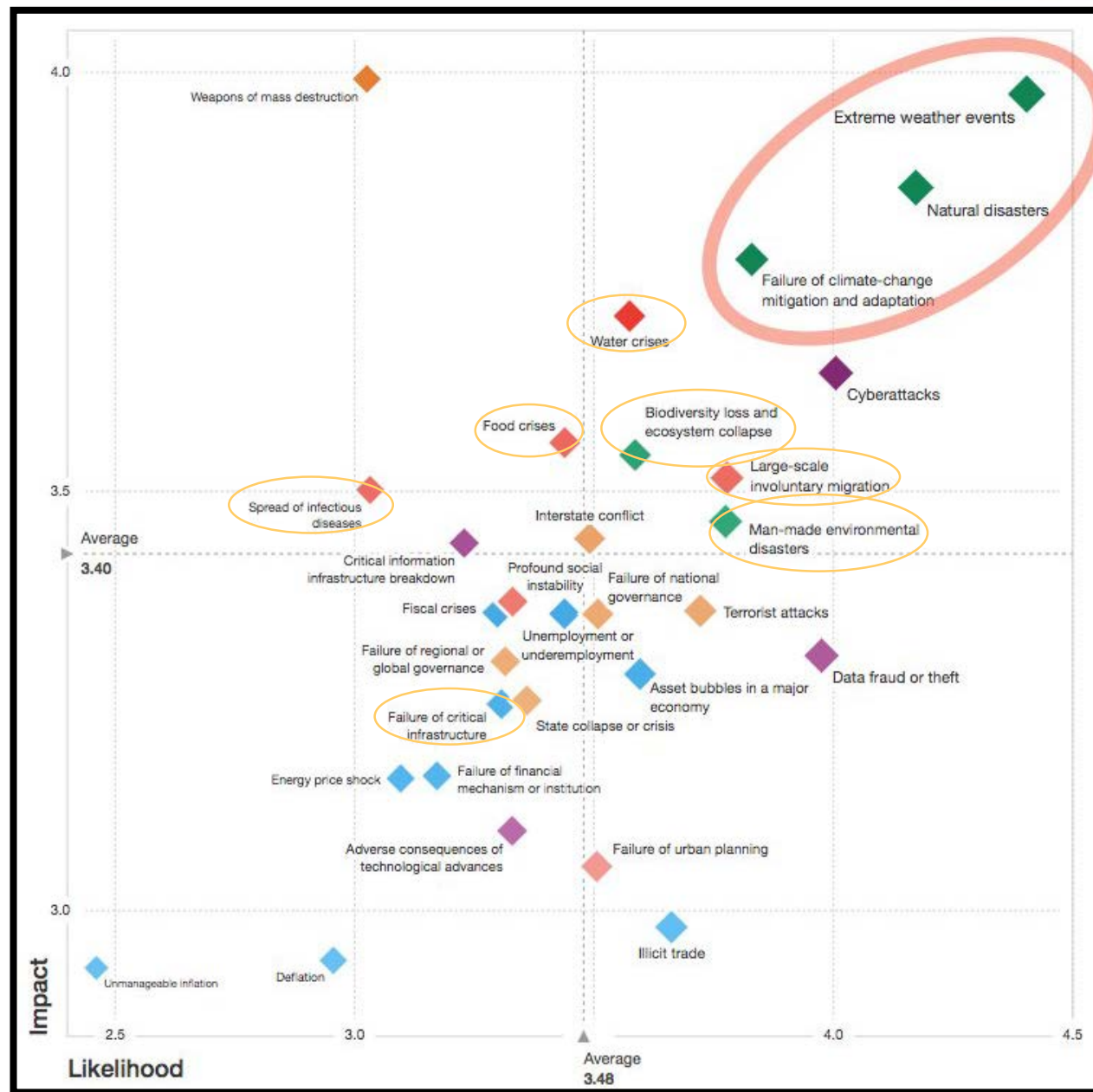




Global Risks Landscape 2018

World Economic Forum

(<http://reports.weforum.org/global-risks-2018/>)





Climate change is a foreseeable, near-term risk

- Categories of climate risk
 - Physical
 - Economic transition
 - Liability consequences
- These risks may manifest within mainstream investment horizons
- Financial and legal consequences for board directors, investors and governments.

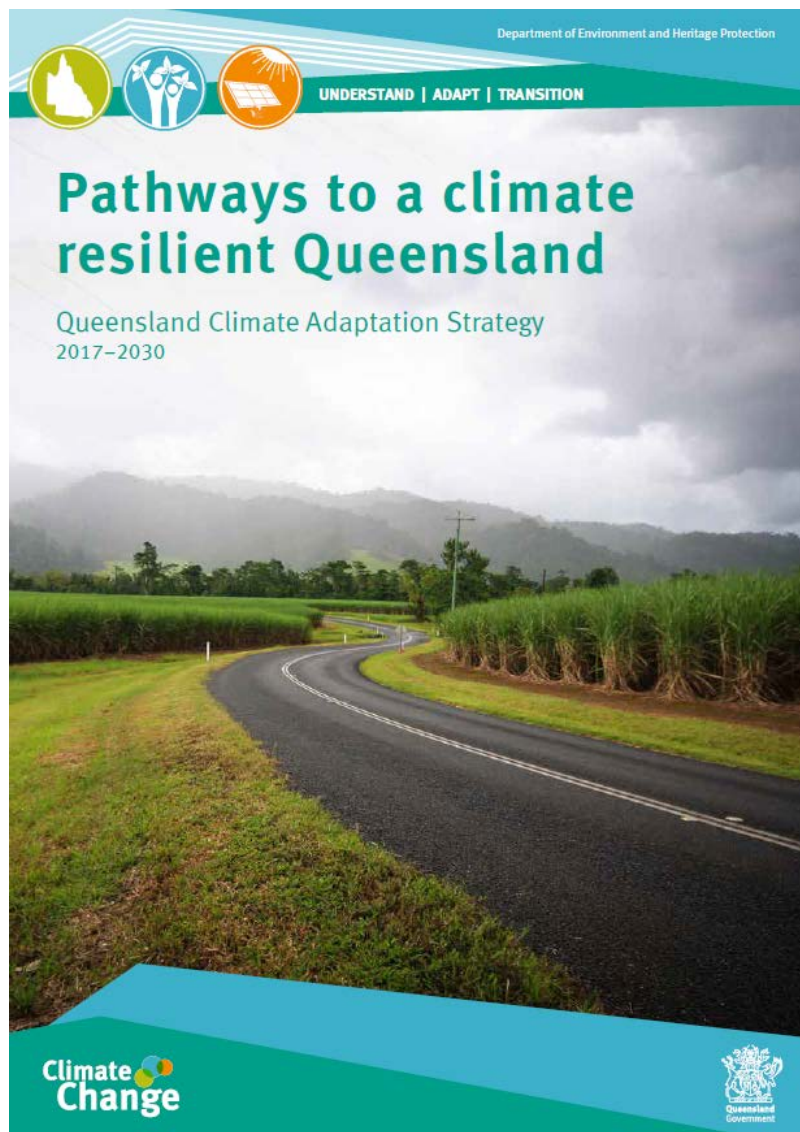


BANK OF ENGLAND
PRUDENTIAL REGULATION
AUTHORITY



Queensland Climate Change Response





Objectives—where are we headed?

This Strategy is based around four clear objectives:



RECOGNISE

Queenslanders understand the risks a changing climate presents to communities, businesses and the natural environment, and the economic opportunities for new sustainable industries.



EQUIP

Queenslanders have access to the best available science and risk-analysis tools to support adaptation decisions.



INTEGRATE

Queenslanders integrate climate adaptation considerations into policies and processes.



COLLABORATE

Queenslanders collaborate to achieve effective climate adaptation through partnerships across communities, educational institutions, governments and industries.



People and Knowledge

Empower best-practice climate science, education and engagement to support climate risk management within Queensland's communities



State Government

Embed the consideration of climate adaptation into policies, regulations and procedures, and address risks to assets and services



Local Governments and Regions

Partner with local governments and other regional organisations to develop regional adaptation solutions, including embedding climate risk in planning and development decisions



Sectors and Systems

Assist sector leaders to collaborate with government agencies, local governments and other stakeholders to identify adaptation needs and to prioritise adaptation activities

			1-2 years	3-5 years	5+ years
People and Knowledge	1.1	Build adaptive capacity and resilience in communities through best-practice community engagement	•	•	•
	1.2	Advance climate science	•	•	
	1.3	Educate using the best climate science	•	•	
	1.4	Develop a climate risk toolkit	•		
State Government	2.1	Develop a Government Adaptation Action Plan	•		
	2.2	Manage risks to property, assets, infrastructure and services	•	•	•
	2.3	Advocate for strong and consistent national climate policies	•	•	•
	2.4	Incorporate sustainability objectives into infrastructure projects	•	•	•
	2.5	Monitor, evaluate and review		•	•
Local Governments and Regions	3.1	Support local government climate adaptation planning	•	•	
	3.2	Facilitate coastal hazard adaptation planning	•		
	3.3	Partner with Indigenous local councils	•	•	
	3.4	Partner with Natural Resource Management groups	•		
	3.5	Provide regionally-specific information and tools	•		
Sectors and Systems	4.1	Support industry-led development of Sector Adaptation Plans	•		
	4.2	Facilitate private sector adaptation actions	•	•	
	4.3	Investigate finance and insurance options	•		
	4.4	Address complex and cross-sectoral issues	•	•	



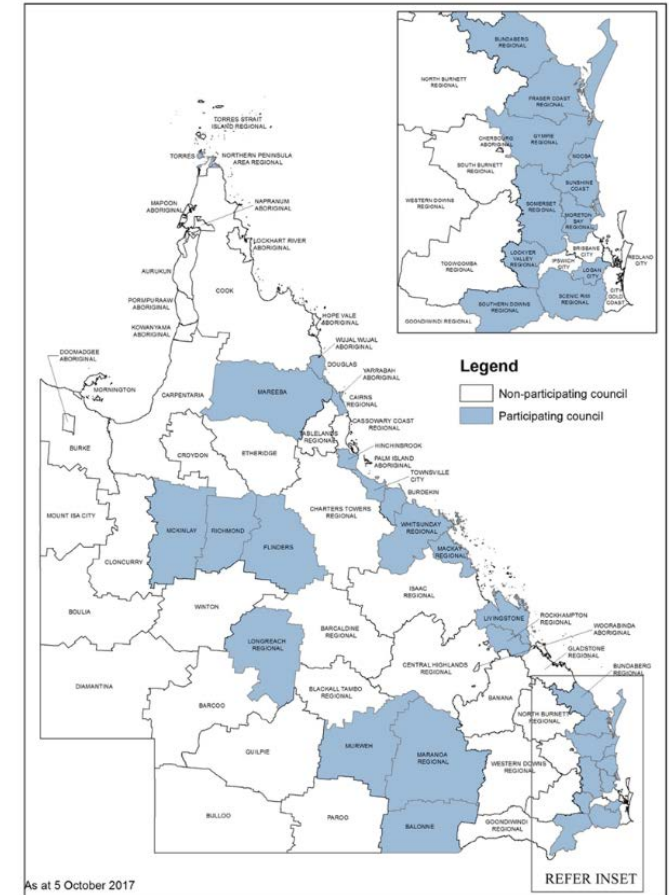
Government Adaptation Action Plan (GAAP)

- Demonstrate leadership
- Define agency roles and responsibilities
- Provide a consistent approach to climate change in government policies and processes
- Incorporate climate risk into risk management and decision-making
- Build climate change capacity across agencies
- Mainstream sustainability principles into government policies and processes
- Flagship projects – heat-related illness, coastal hazards & resilient infrastructure.



Queensland Climate Resilient Councils program

- Partnership with Local Government Association of Queensland
- 32 participating councils
- Face-to-face briefings
- Detailed governance assessments
- Leading practice resources
- Grants for two Local Government Climate Change Strategies.

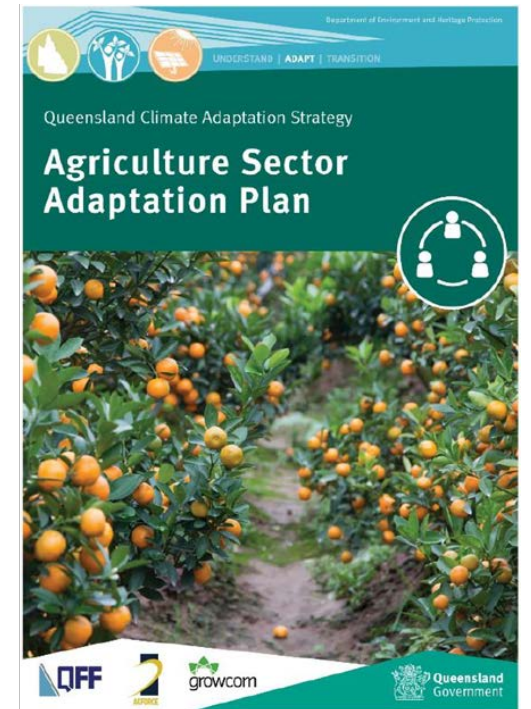


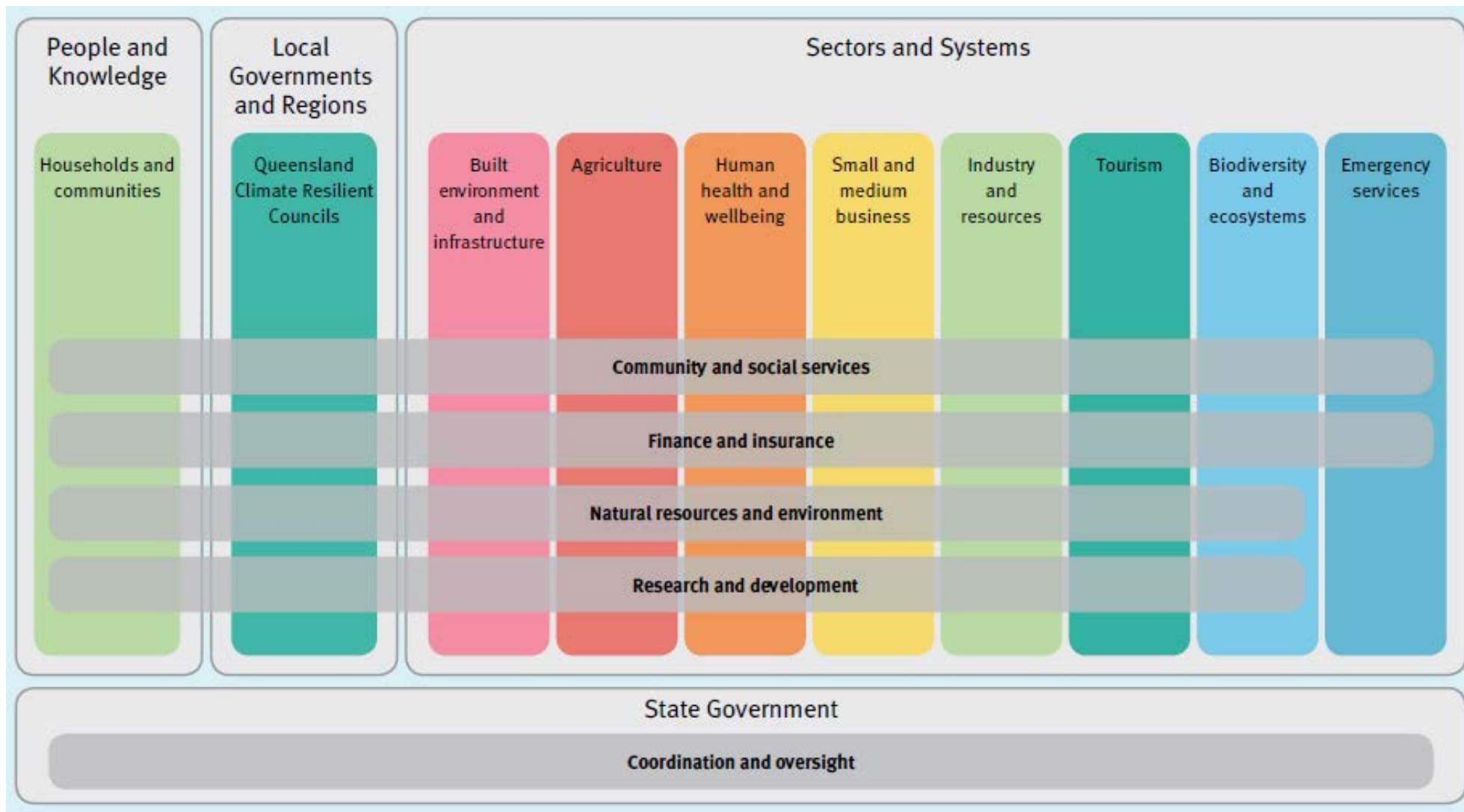
Queensland Climate Resilient Councils Program

No liability accepted for any loss or damage which may arise from the use of or reliance upon this information.

Sector Adaptation Plans (SAPs)

- Agriculture ✓
- Built environment and infrastructure ✓
- Tourism ✓
- Human health and wellbeing ✓
- Biodiversity and ecosystems ✓
- Emergency services ✓
- Small and medium business
- Industry and resources

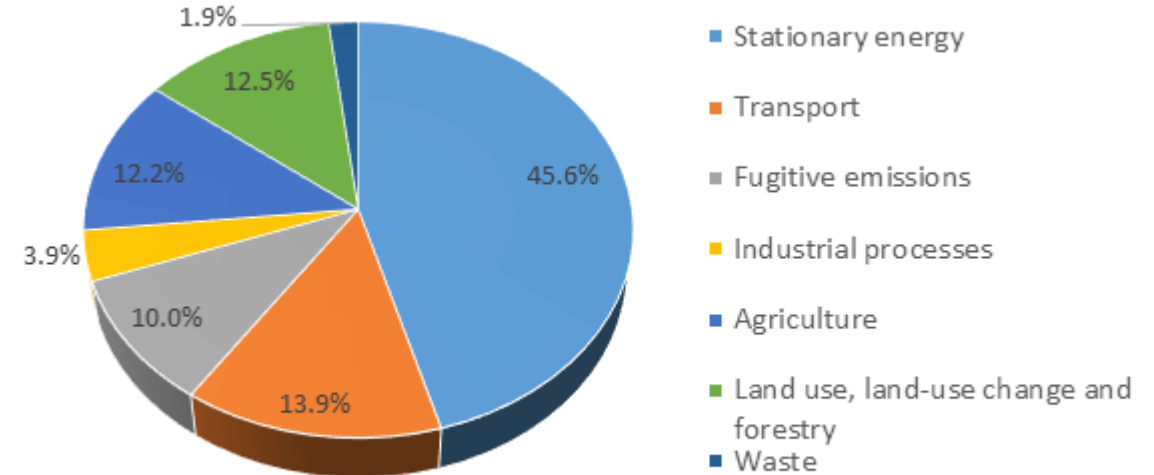




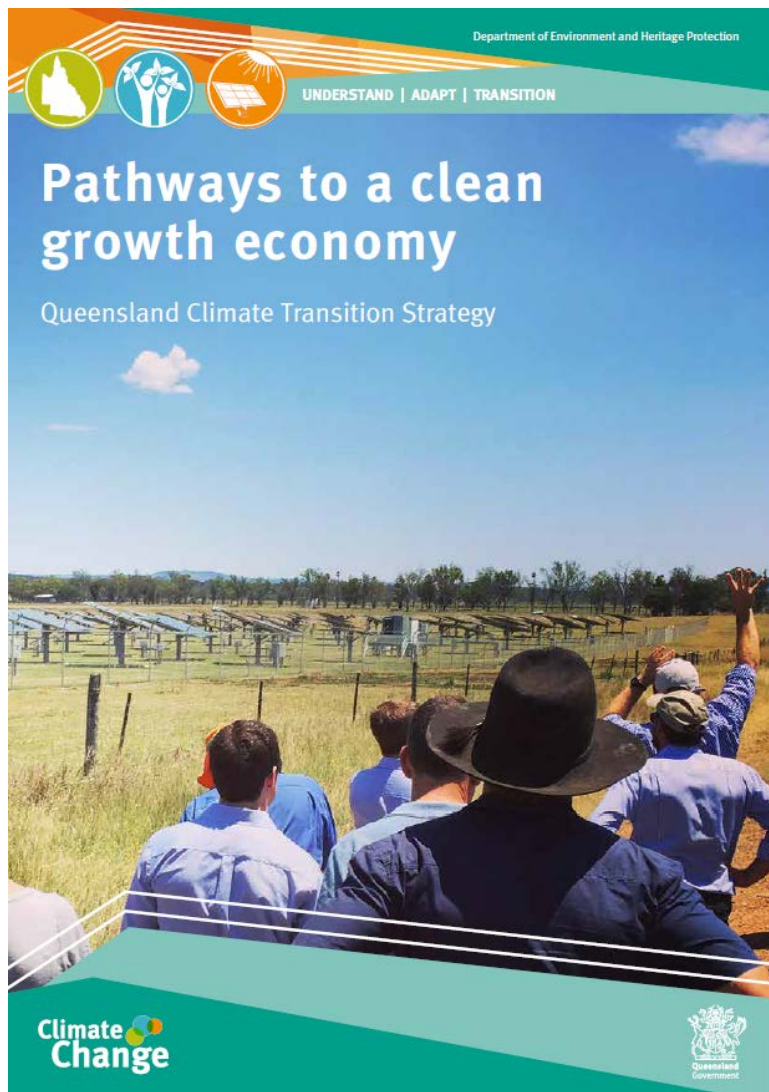


Queensland emissions – where do they come from?

- Queensland has the highest emissions of all Australian states and territories, and was responsible for 28% of Australia's total 2015 emissions (536.9 million tonnes CO₂-e).



(percentage of total 2015 emissions of 152.12 million tonnes of CO₂-e)



Queensland Government's three key climate commitments

1

POWERING QUEENSLAND WITH 50% RENEWABLE ENERGY BY 2030

2

DOING OUR FAIR SHARE IN THE GLOBAL EFFORT TO ARREST DAMAGING CLIMATE CHANGE BY ACHIEVING ZERO NET EMISSIONS BY 2050

3

DEMONSTRATING OUR COMMITMENT TO REDUCING CARBON POLLUTION BY SETTING AN INTERIM EMISSIONS REDUCTION TARGET OF AT LEAST 30% BELOW 2005 LEVELS BY 2030



Our pathways

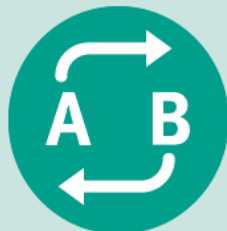


PATHWAY 1

Create an environment
for investment shift
and innovation

Response 1—Facilitate the zero net emissions industries of the future

Response 2—Lead by example



PATHWAY 2

Facilitate existing
Queensland industries to
transition

Response 3—Understand the risks and opportunities that a zero net emissions future presents for Queensland

Response 4—Encourage innovation and transition to low and zero carbon technologies



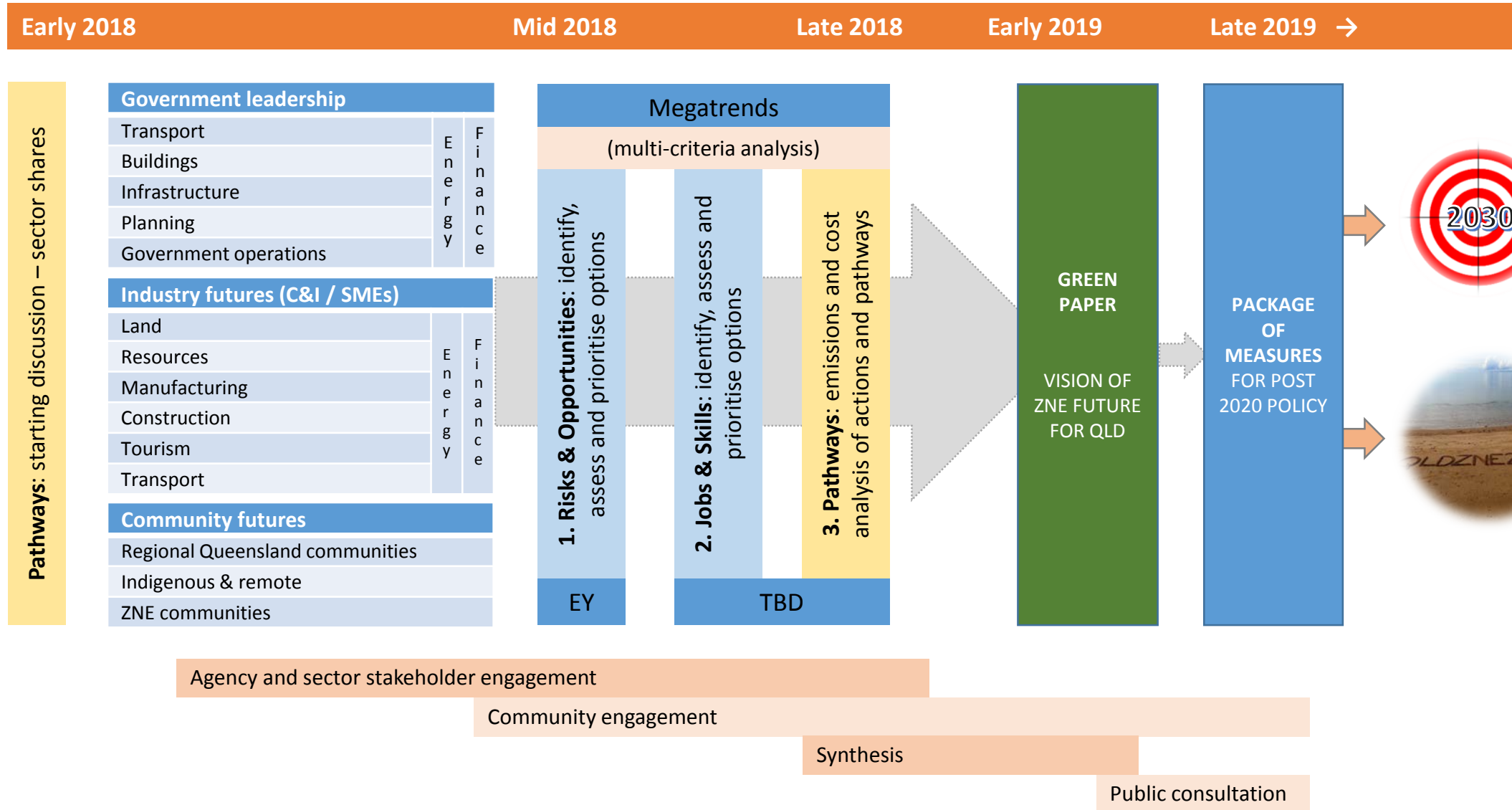
PATHWAY 3

Work with Queensland's
regional communities
to transition

Response 5—Work with Queensland's regional communities to transition

Response 6—Skill Queenslanders for new economy jobs

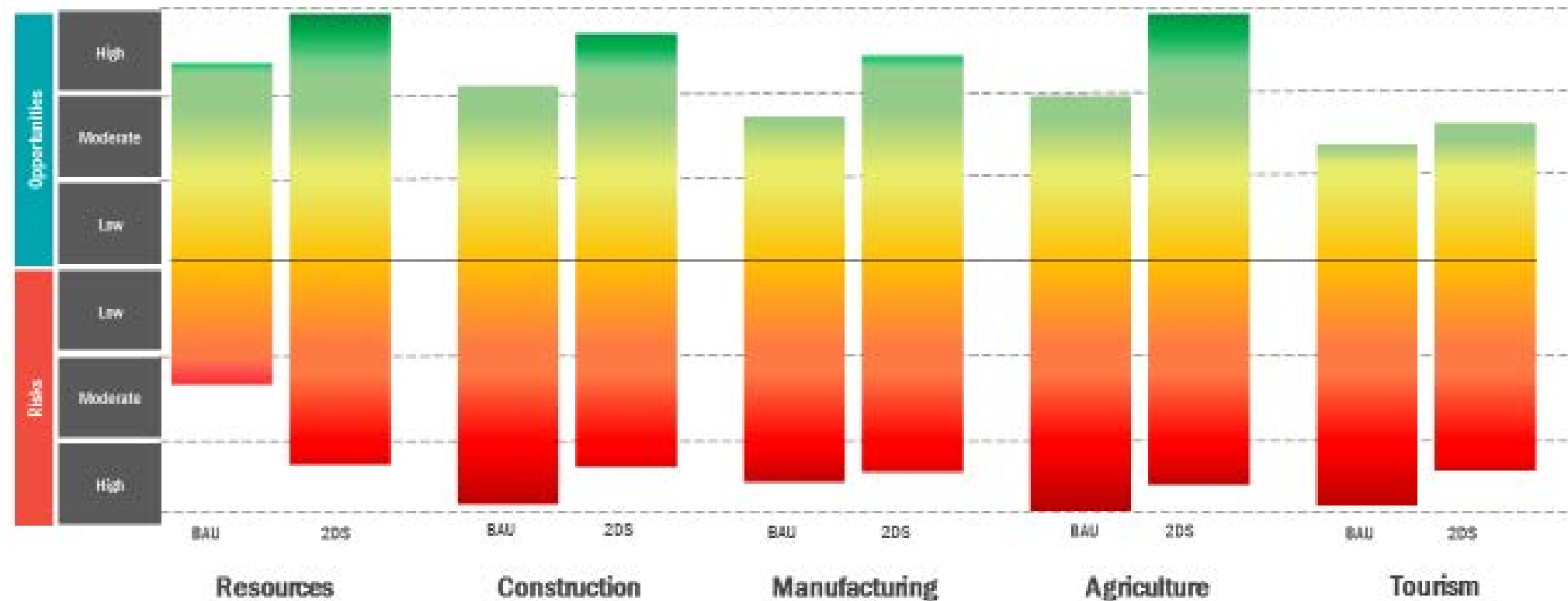
Post-2020 policy development:



Economic transition risks and opportunities



Overview of climate risks and opportunities in Queensland under BAU and 2DS



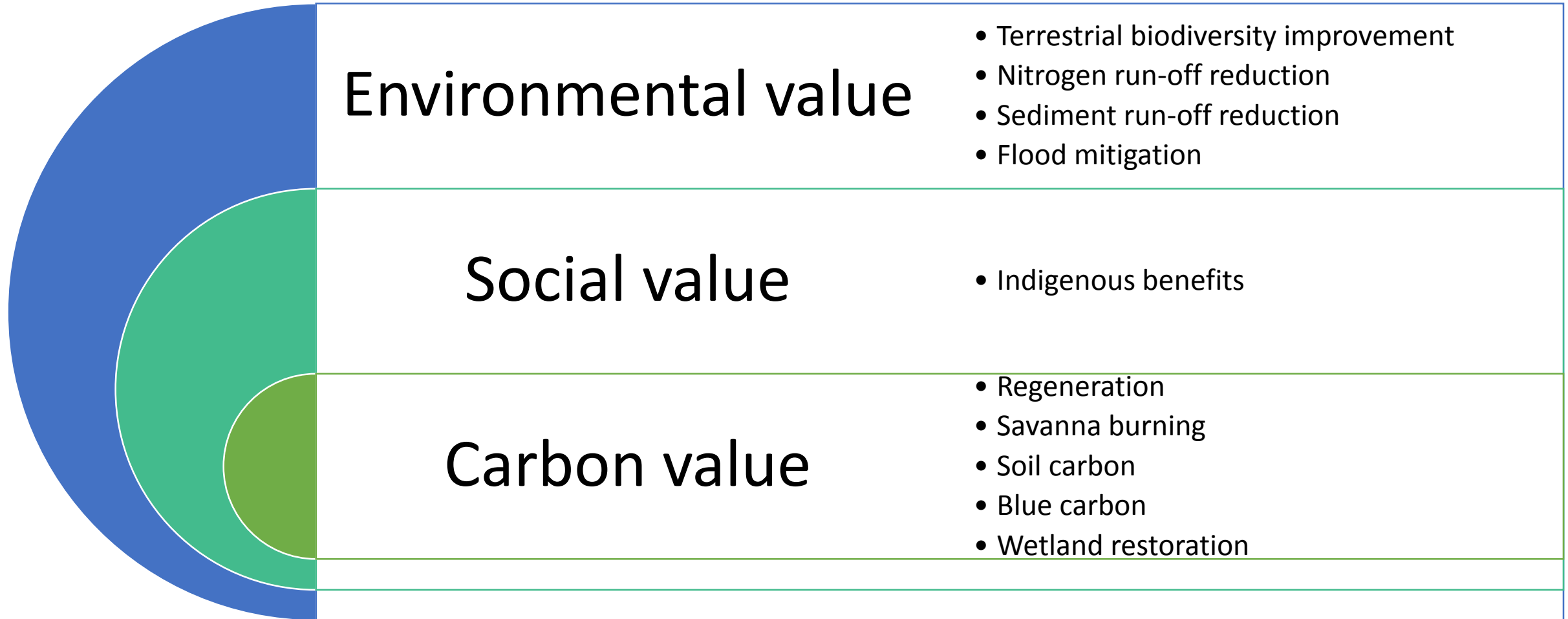


Land Restoration Fund (LRF)

- \$500 million commitment
- Purpose: unlocking land sector carbon projects with co-benefits
- Aims:
 - Facilitating a pipeline of Queensland-based, carbon offset projects with environmental, social and economic co-benefits
 - Support R&D and science including methods for co-benefits and demonstration projects
 - Pursuing new Australian Carbon Credit Unit methods for activities where Queensland has a natural competitive advantage (e.g. blue carbon)



The LRF will pay for more than carbon...





The Climate Change Branch

- Who are we?
 - We are a small team (20) of policy and communications experts committed to climate change.
- What do we do?
 - We are the policy leaders on climate change for the Queensland Government.
 - We facilitate the understanding of climate change risk and its implications for Queensland stakeholders including government
 - We are responsible for coordinating the delivery of the Queensland Climate Change Response

Government
action

Science &
reporting

Industry &
communication

Policy &
regional
transition





<https://www.qld.gov.au/environment/climate/climate-change>