



QUEENSLAND RECONSTRUCTION AUTHORITY

Building resilience

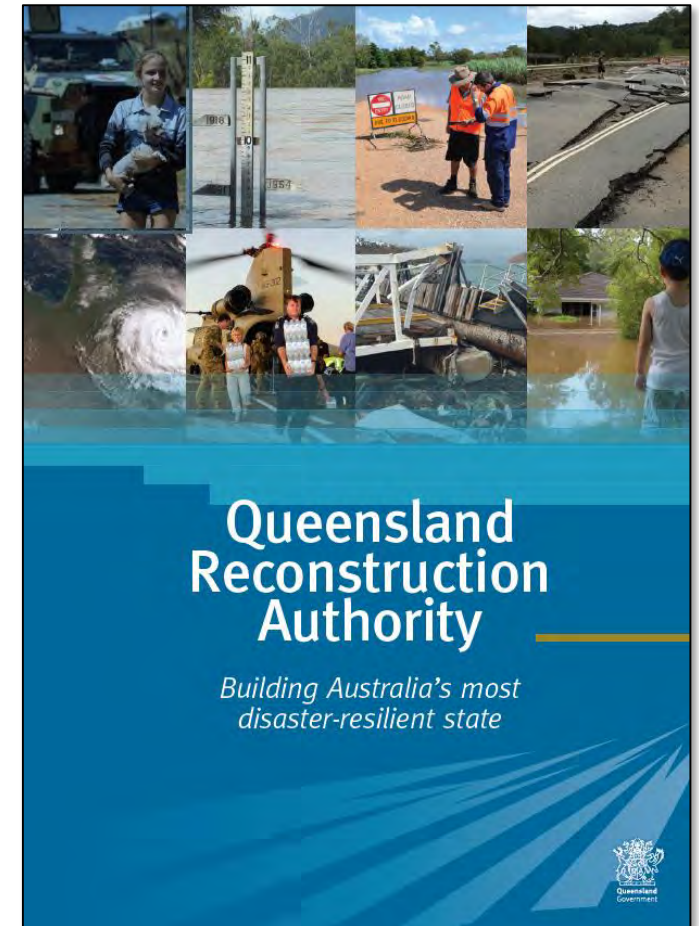
through regional collaboration and partnerships

Jimmy Scott, General Manager, Resilience

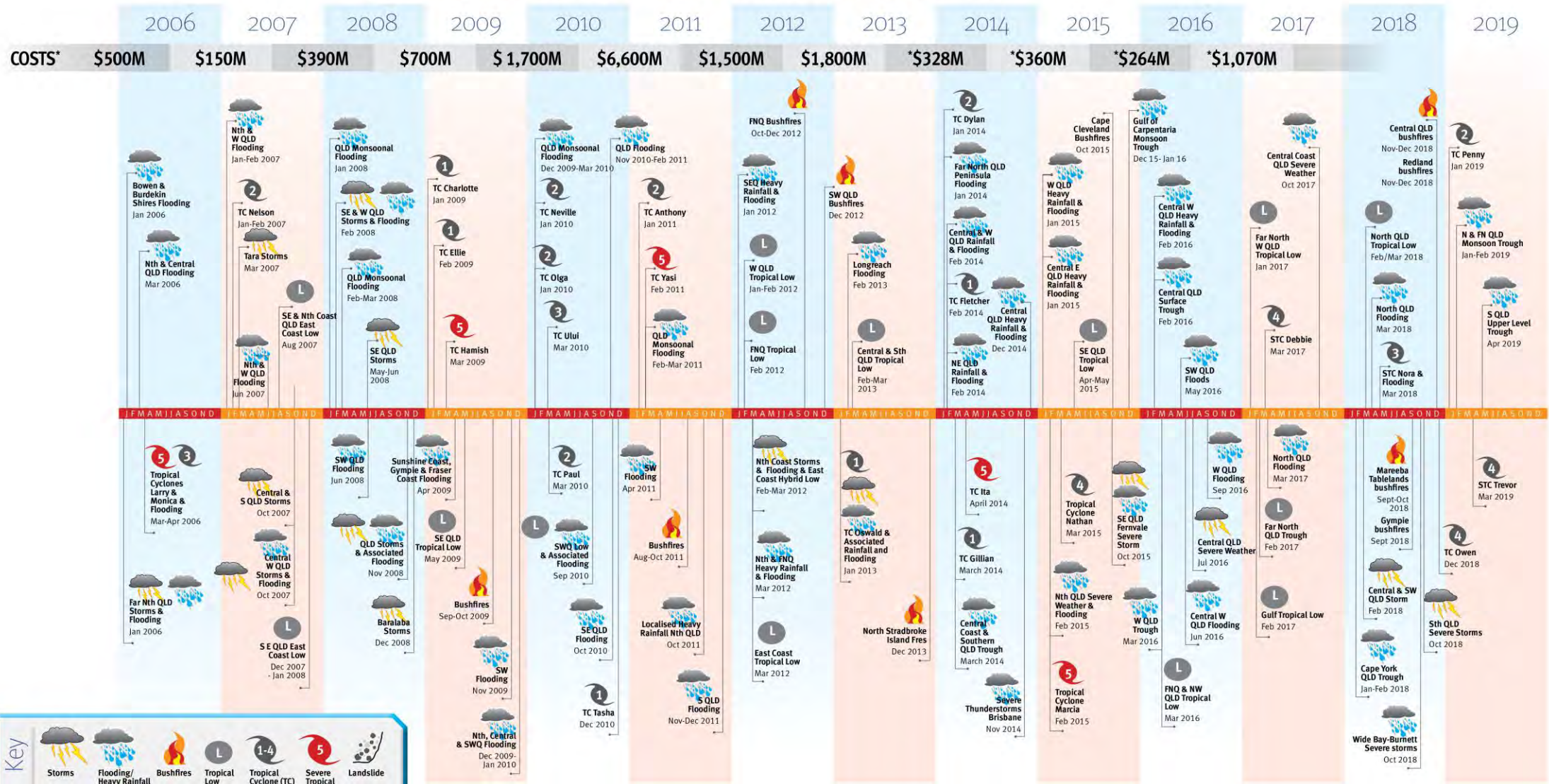
28 August 2019

Queensland Reconstruction Authority

- Established in 2011 - Australia's only permanent disaster recovery agency
- \$15.6 billion reconstruction program
- Leads coordination of resilience policy for Queensland
- Administers Disaster Recovery Funding Arrangements on behalf of Queensland Government



Funding for natural disaster events in Queensland



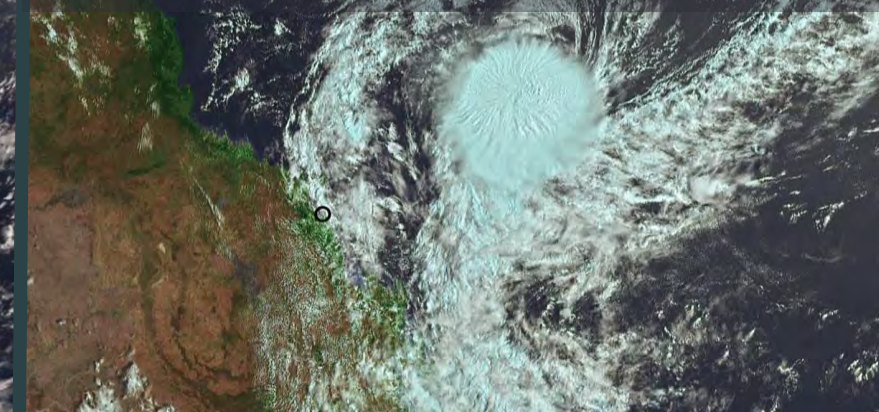
Central Queensland Bushfires
22 November – 6 December 2018



Tropical Cyclone Owen
9-17 December 2018



Tropical Cyclone Penny
24 December 2018 – 4 January 2019



Queensland summer disaster season 2018-19



Redland Bushfires
28 November – 6 December 2018

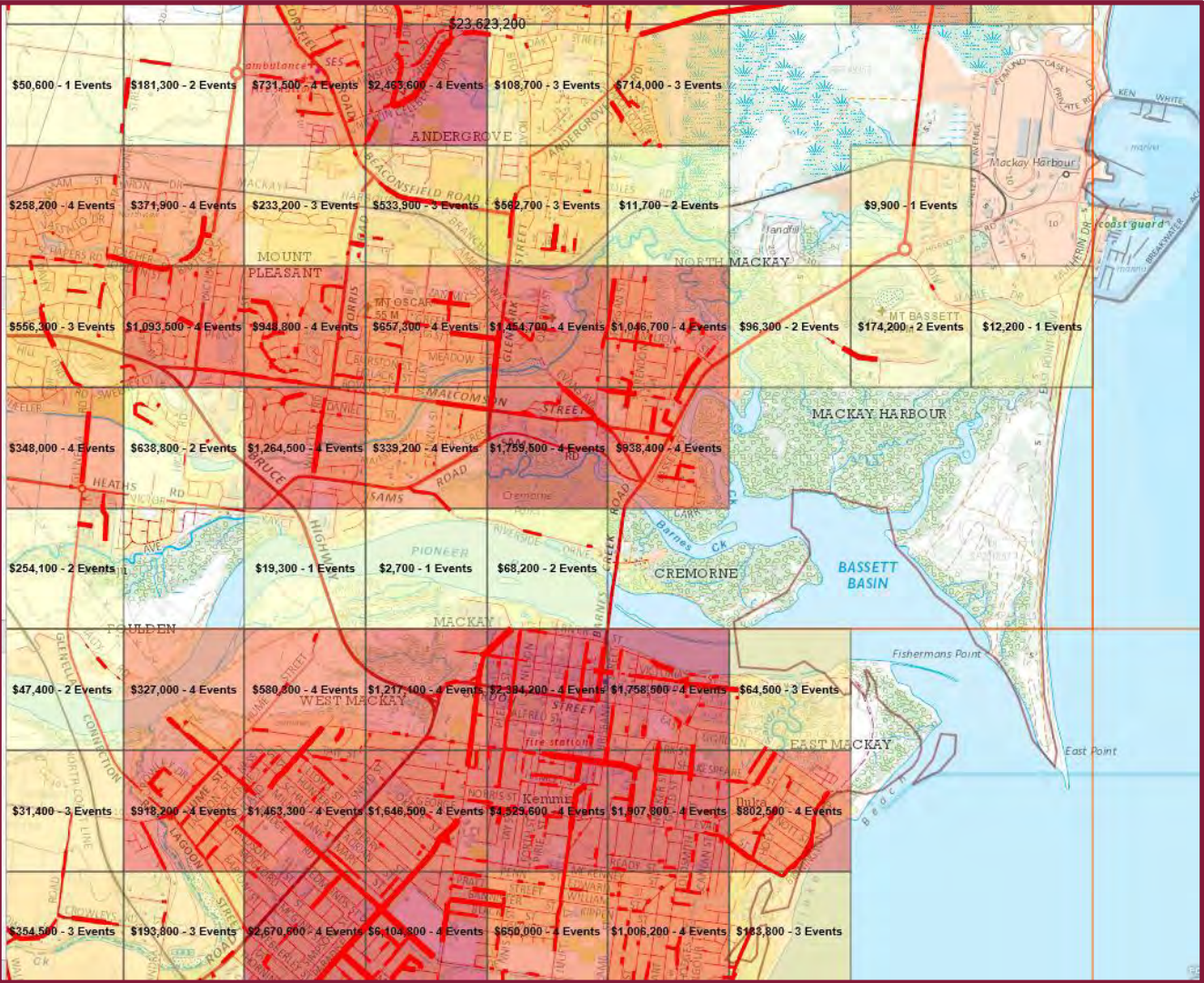
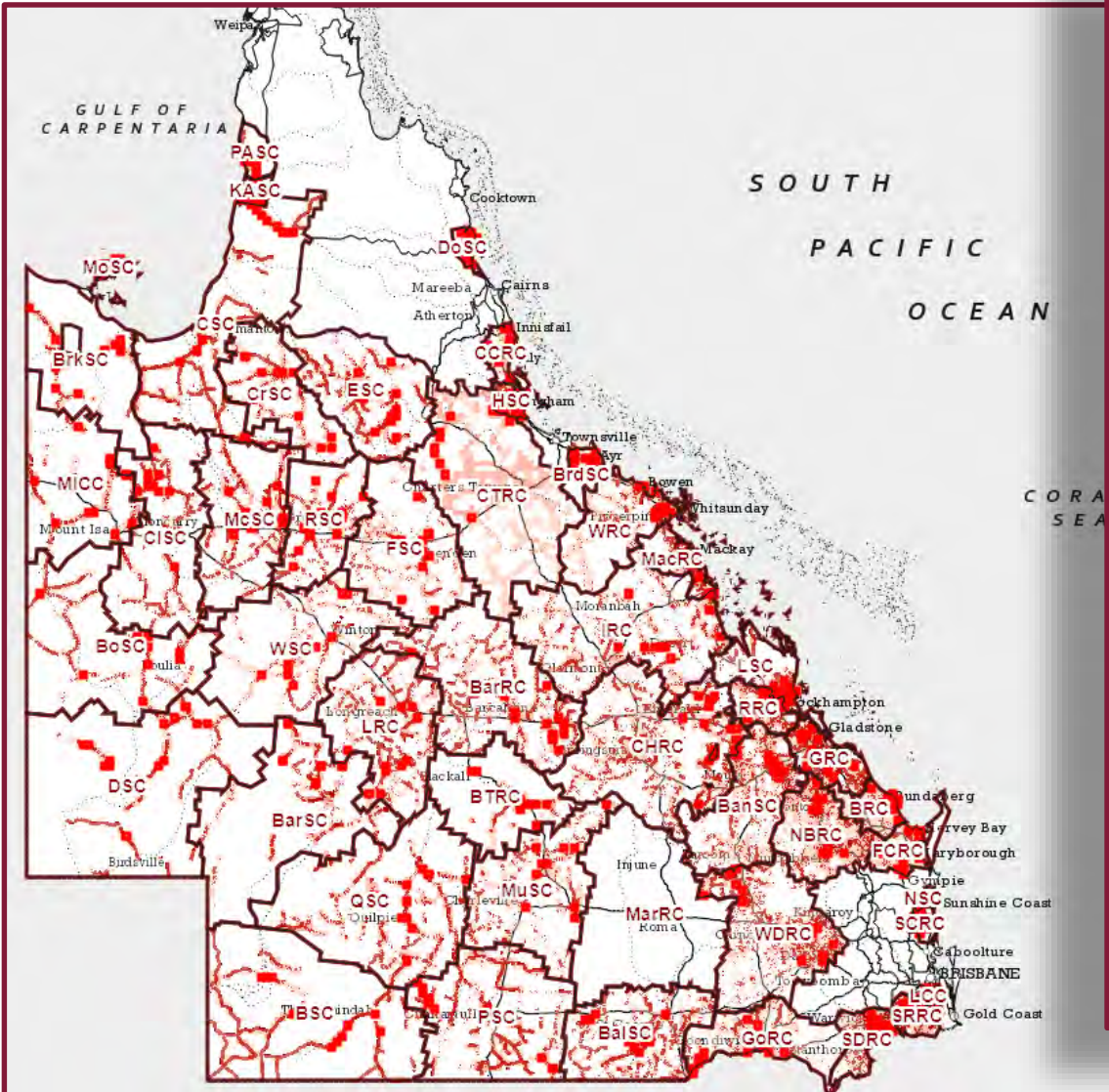


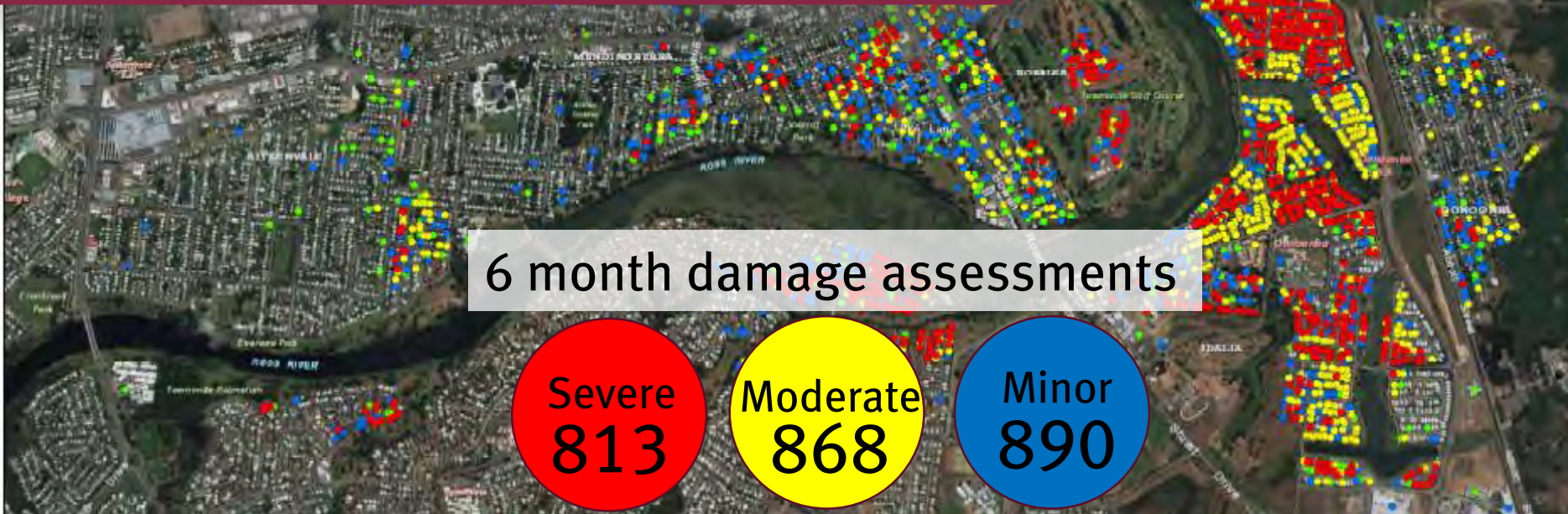
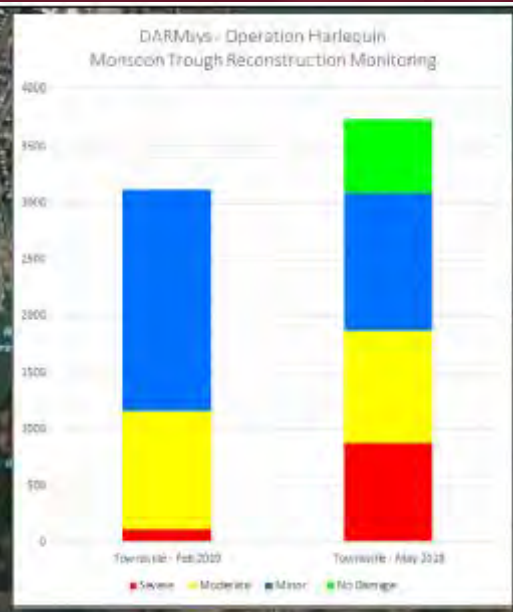
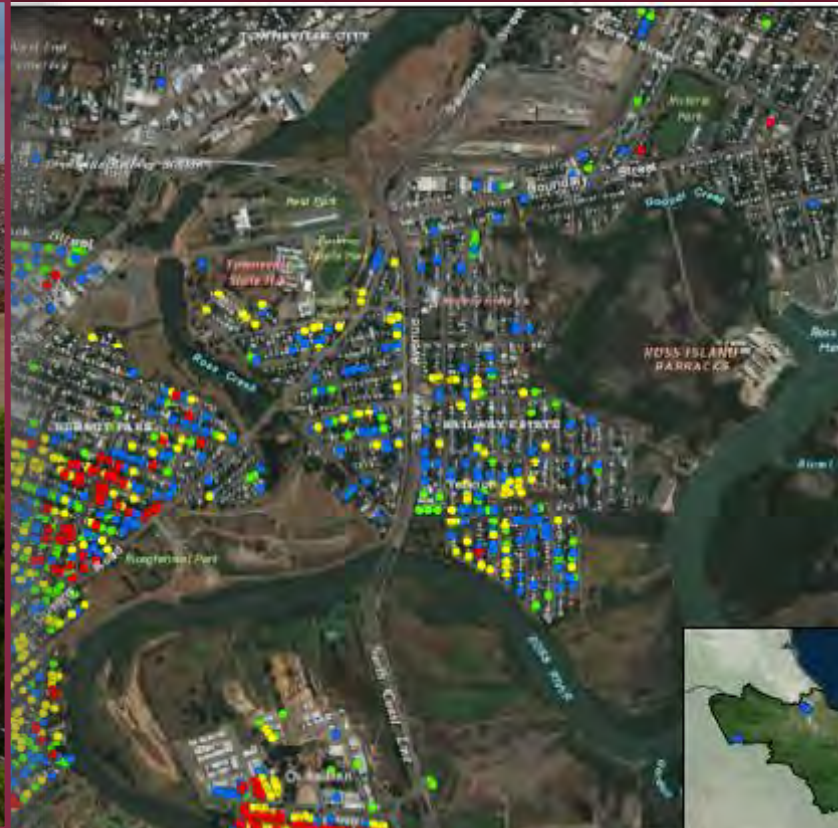
South West Queensland Trough
14 – 17 December 2018



North & Far North Queensland Monsoon Trough
25 January – 14 February 2019

Mapping Queensland's natural disaster repeat damage hot spots





6 month damage assessments

Severe
813

Moderate
868

Minor
890



Council Overview

North West Queensland flooding

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Loss of
500,000
head of
cattle

300km
of rail
damaged



708t
zinc & lead
concentrate



10,000km
of fencing
damaged



We've reached a tipping point

\$15.6B
since 2011

Disasters have caused more than \$15.6B in damage since 2011 to public assets

\$18.3B
per year

Costs from disasters in Queensland are forecast to exceed \$18.3B per year by 2050*



*Australian Business Roundtable for Disaster Resilience and Safer Communities, Building Resilience to Natural Disasters in our States and Territories 2017.

Resilient Queensland | 2018-21

- Resilient Queensland is Australia's first implementation plan for a statewide resilience strategy
- Our commitment is by 2022, every local government in Queensland will be part of a regional resilience strategy that clearly identifies risks and prioritises actions to strengthen disaster resilience over time.

Queenslanders are disaster resilient when...



Building resilience through regional collaboration and partnerships

Regional resilience strategies

- Burnett Catchment
- Brisbane River Strategic Floodplain Management Plan
- Central West Queensland
- Mary River Region
- Fitzroy River Catchment
- Burdekin and Haughton Catchments

Key challenges

- building a resilient society
- enhancing economic resilience
- improving infrastructure
- advancing disaster recovery operations
- increasing government capability and capacity
- improving funding certainty.

Get Ready Queensland

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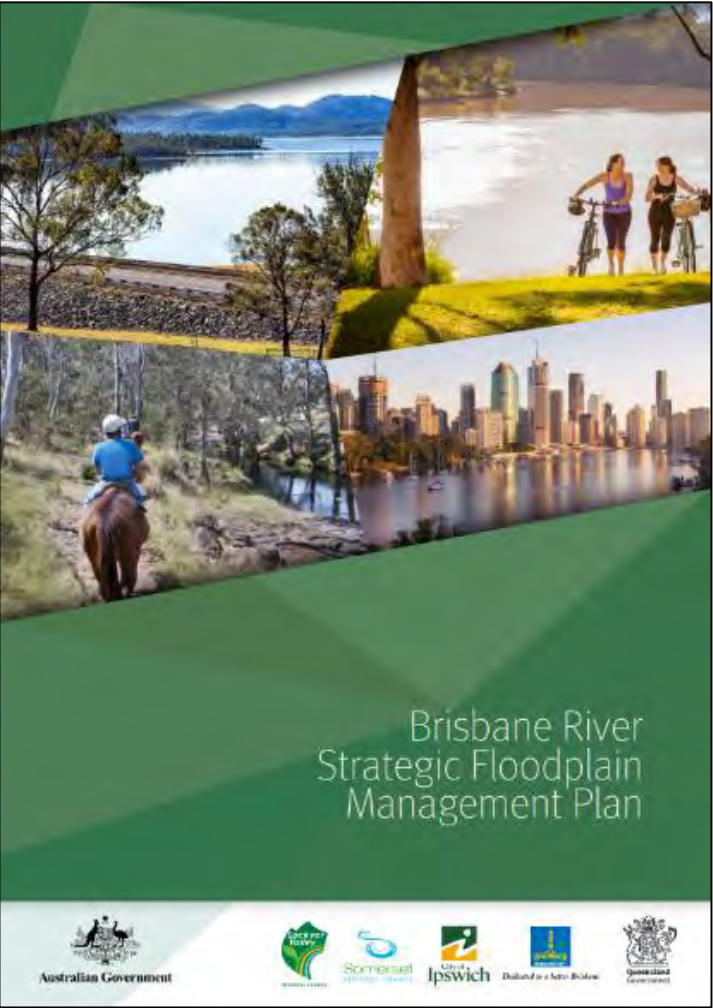


Resilience

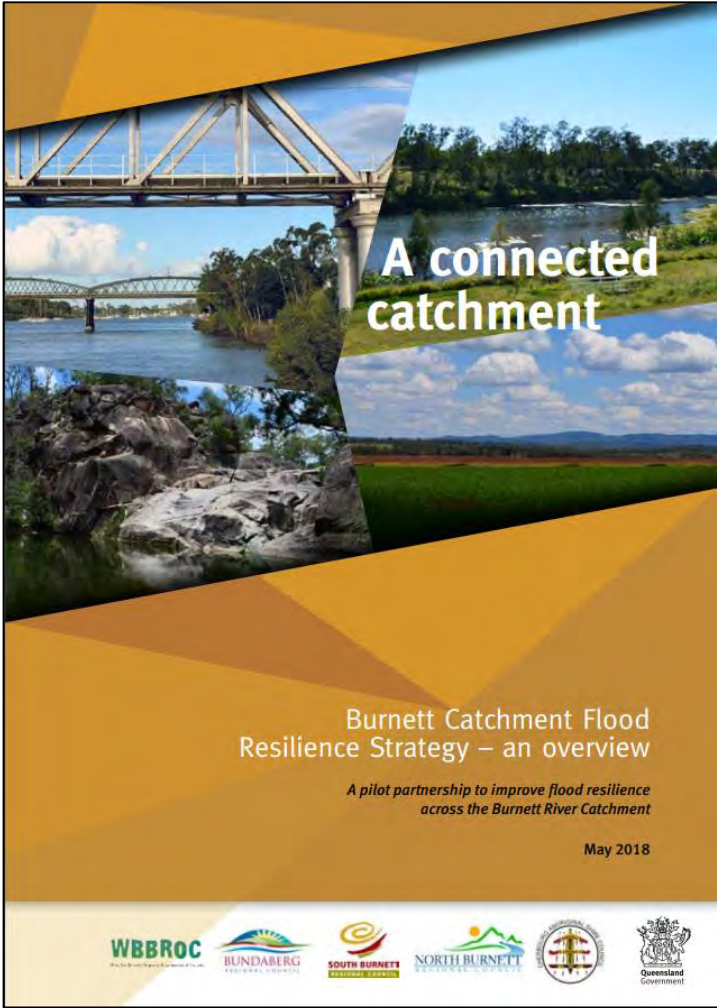




Case studies



www.qra.qld.gov.au/BRCFS

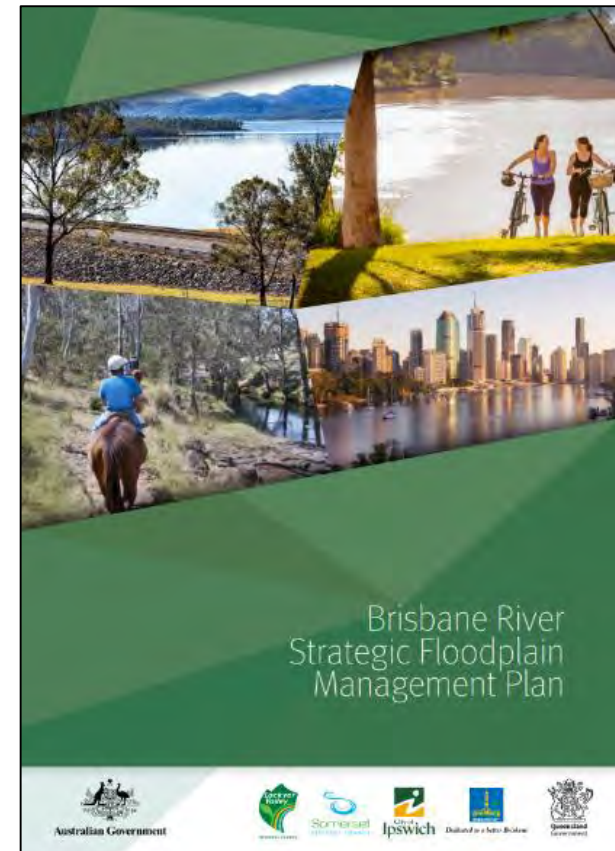


www.qra.qld.gov.au/burnett

Case study: Brisbane River Strategic Floodplain Management Plan

Our shared vision

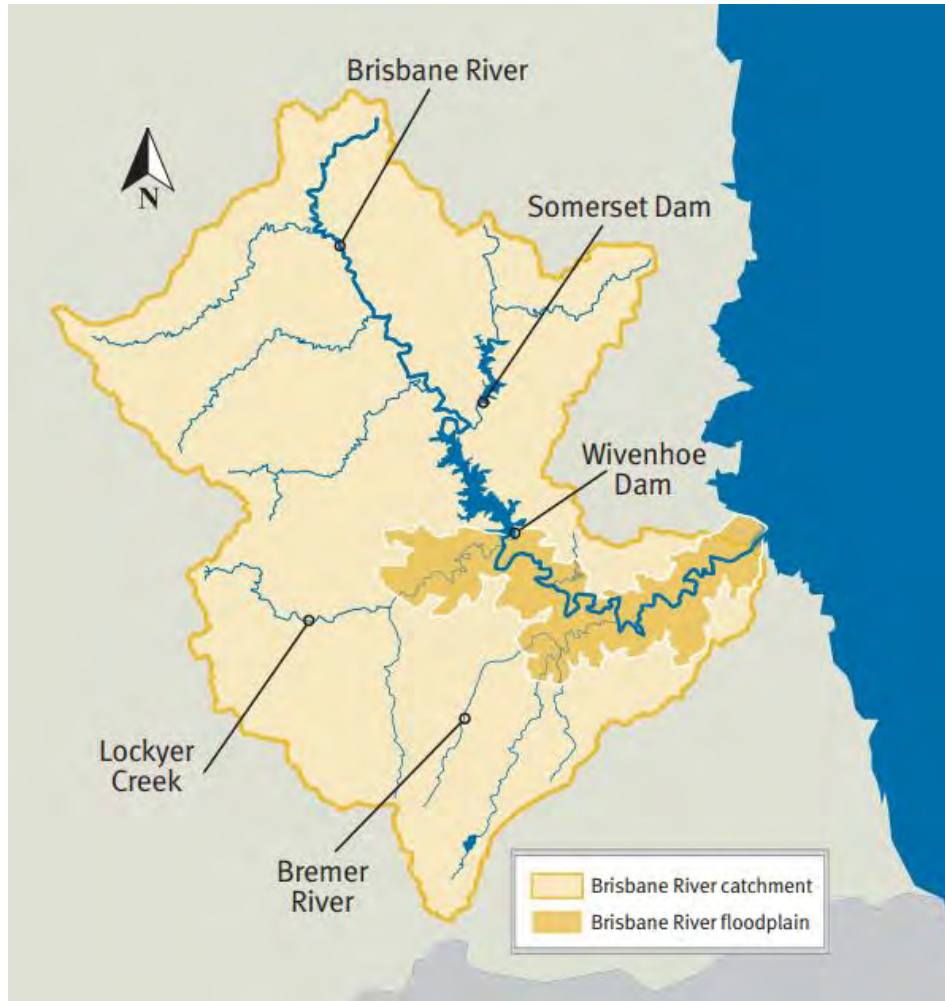
“Working together to strengthen the flood resilience of our communities, our economy, our infrastructure and our environment”





- Hey there, my name is Ruby,

Quantifying the challenge



Challenge #1 Project constraints

- large and highly populated floodplain
- tight timeframes – two years
- four local government areas as well as significant State interests
- co-funded partnership with full consensus on all decisions

Not a project for the faint-hearted!

Challenge #2 Scale and complexity

- 140 stakeholders
- 480 hours of meetings and workshops
- 2000 community interactions
- 2680 stakeholder comments addressed
- 5020 pages of technical content reviewed

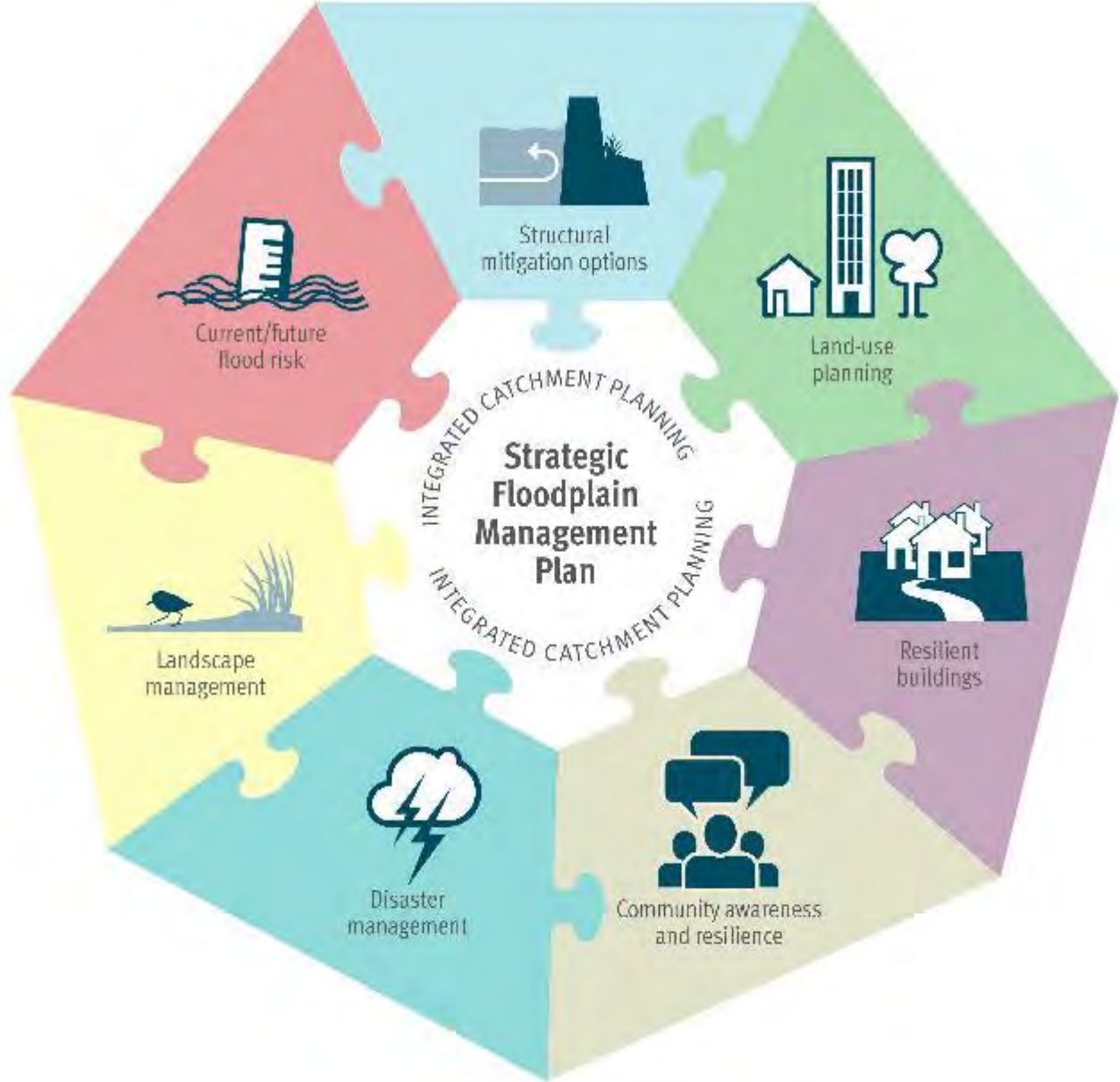
- 10,000 GIS files
- 40,000 hours of flood model simulations
- 200,000 building database entries



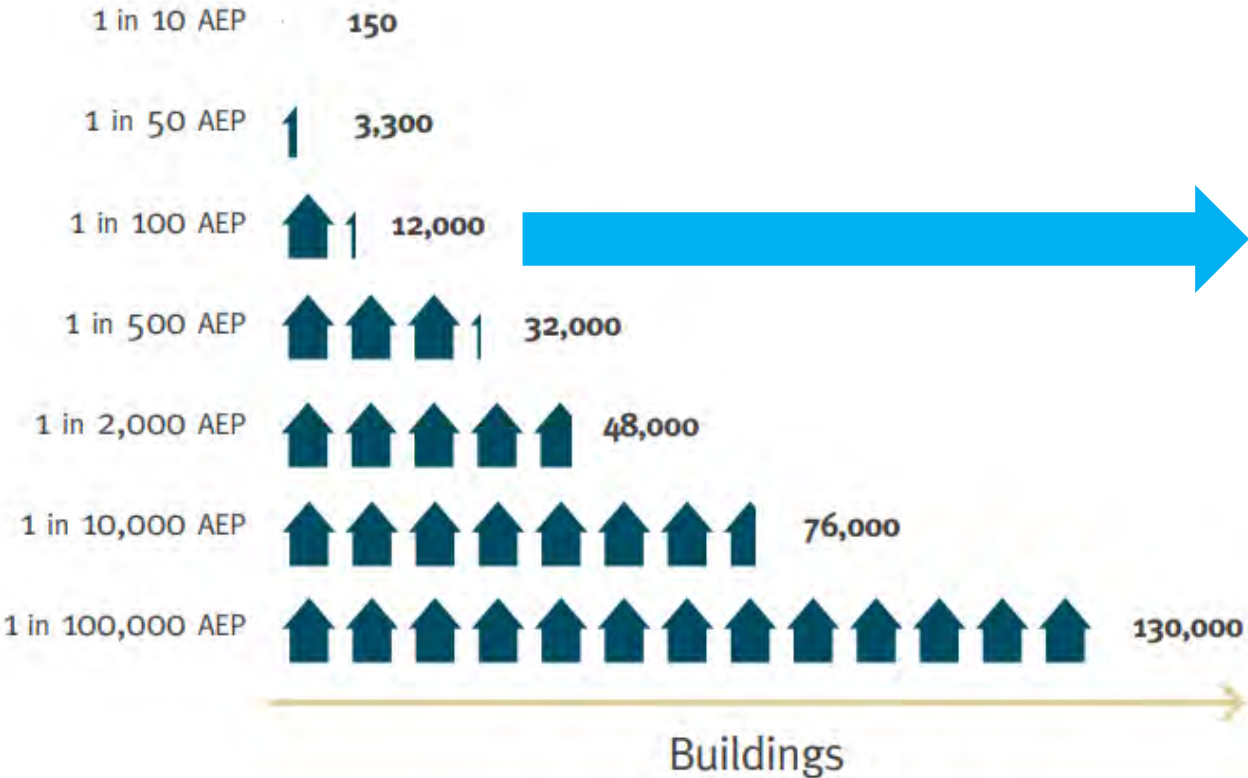
Dedicated to a better Brisbane



Challenge #3
Doing things for the first time meant there was no clear example to work towards



Buildings that flood above the lowest habitable floor level (as at 2018)



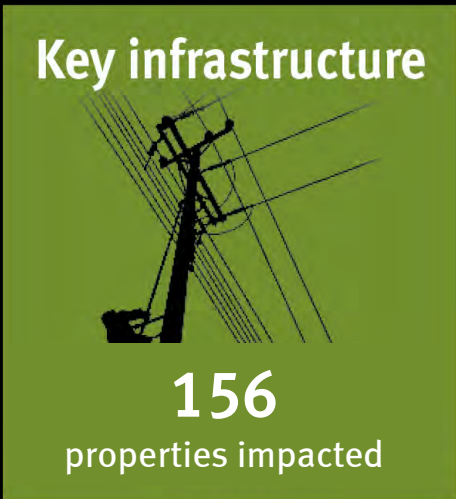
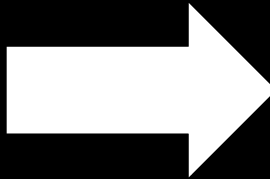
17,300 buildings inundated above ground level

12,000 buildings inundated above floor level

The estimated cost of flooding is increasing...

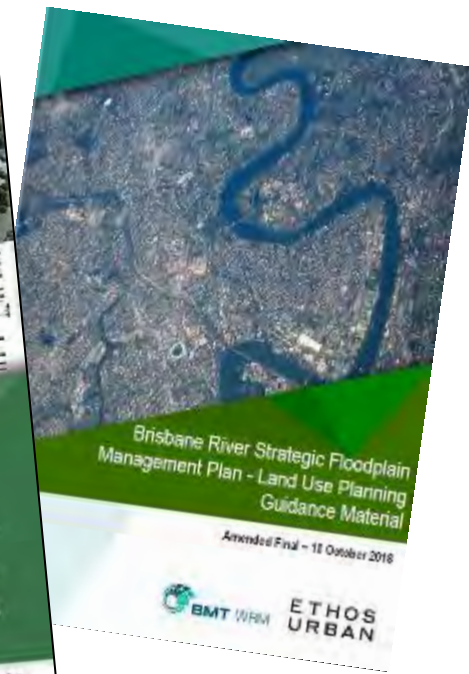
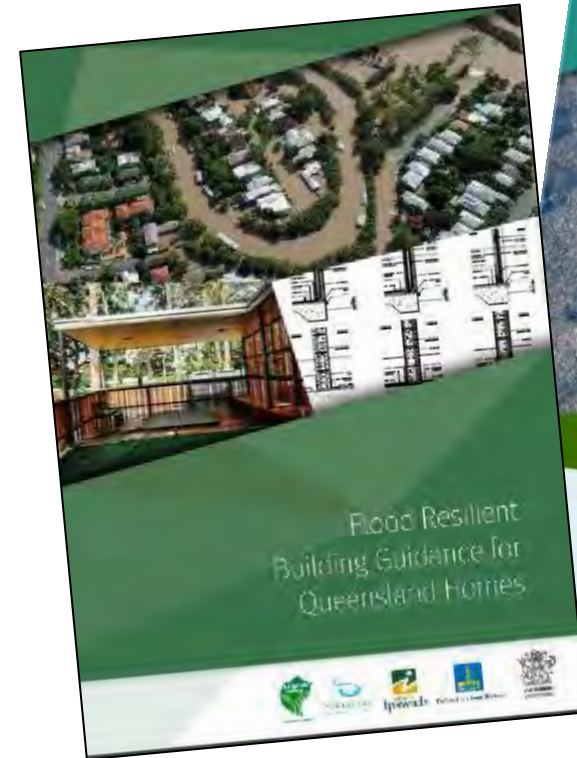
2011

2050



Outputs

- Technical Evidence Report
- Strategic Floodplain Management Plan
- Land Use Planning Technical Guideline
- Building Controls Guideline
- WaterRIDE upgrade



New national benchmark

- State and local government partnership
- All partners have committed to deliver on the Strategic Plan
- Comprehensive economic assessment and property database
- Multi-disciplinary and regional approach



Next steps

- 52 strategic actions for coordinated approaches to flood resilience
- 17 actions have statewide benefits
- state and local governments are committed to delivering the actions
- five year review.

Decision making
appropriate
representation at
meetings

Communication

establishing
links between
projects

addressing
the complexity

Challenge of
org internal
process

Layers of
approvals
take time +

Communication
Document Management

- Clear Strategies

Need more work on
supply chain impacts
critical infrastructure

Case study: Burnett Catchment Flood Resilience Strategy

A connected catchment

Burnett Catchment Flood Resilience Strategy – an overview

A pilot partnership to improve flood resilience across the Burnett River Catchment

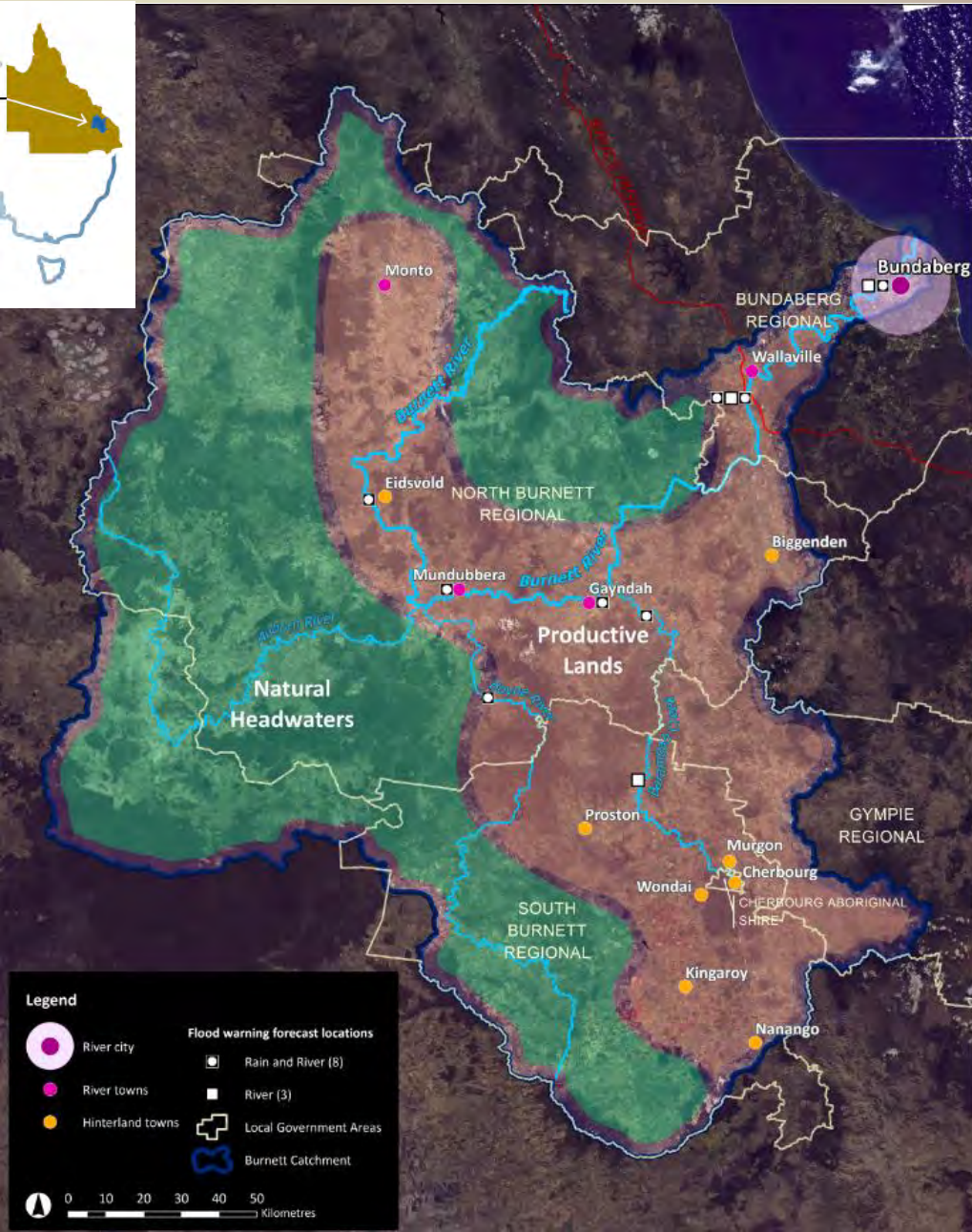
May 2018

WBBROC BUNDABERG SOUTH BURNETT NORTH BURNETT Queensland Government

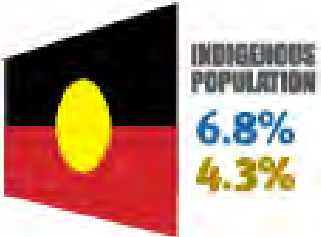
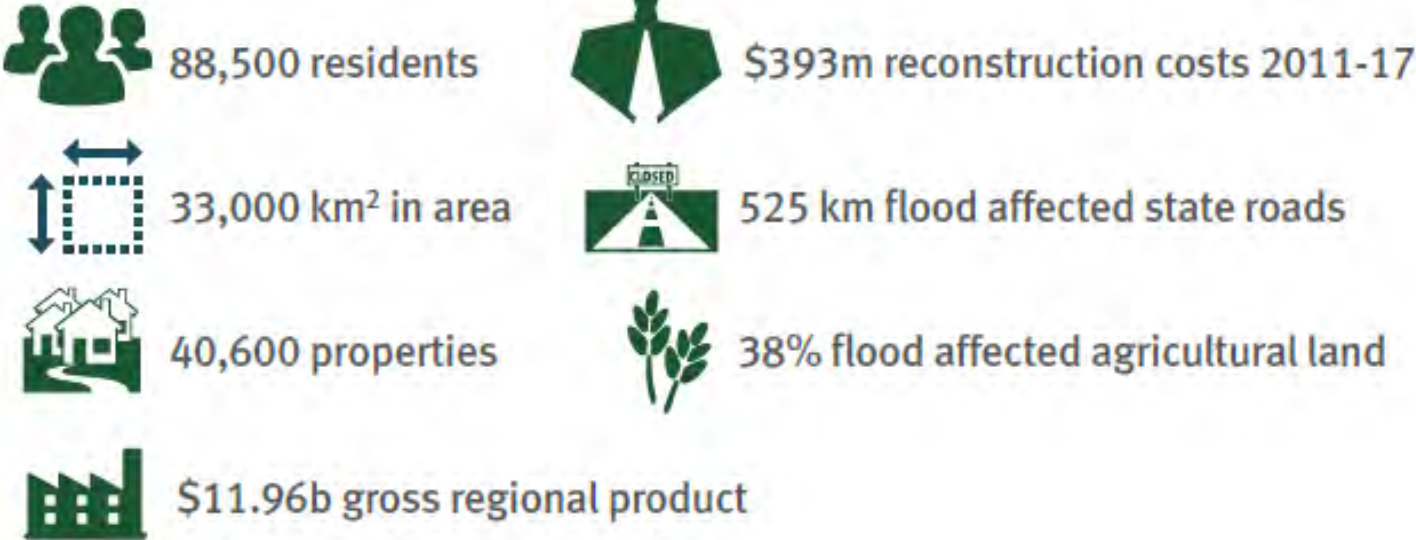
A coordinated blueprint for improving flood resilience across the Burnett Catchment

Burnett River Catchment

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Catchment statistics



Burnett River Catchment
Queensland

Broad involvement

“We had the likes of disaster managers, engineers, environmental officers... all throwing their lens, skills and experience at the problem.”

Dwayne Honor – Churchill Fellow, Bundaberg Regional Council.



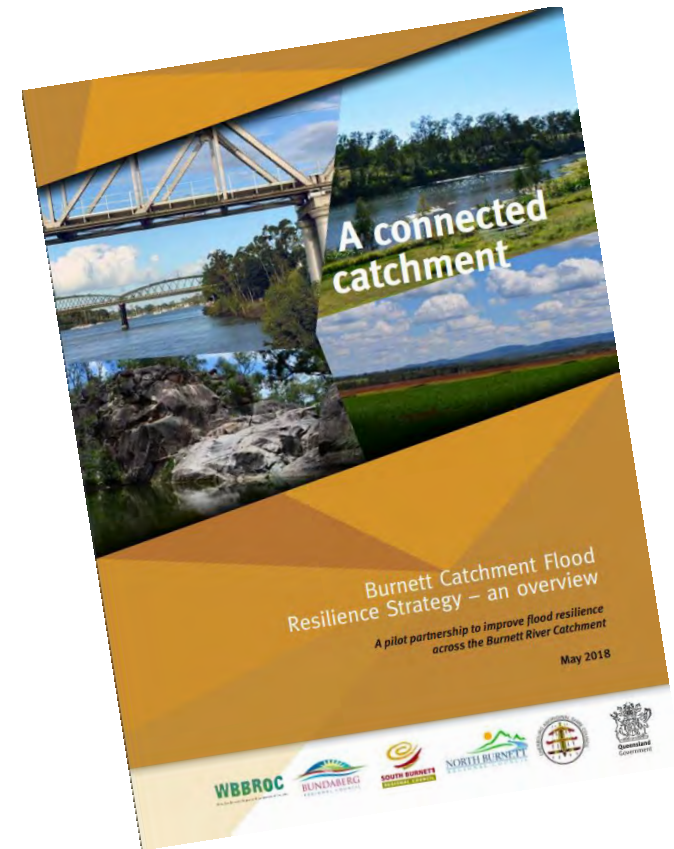
Our stakeholders

locally-led, regionally coordinated and state supported



Outputs

- Technical Evidence Report
- Burnett Catchment Flood Resilience Strategy
- Regional Action Plan
- Funding for Regional Resilience Coordinator to drive implementation



Key Learnings: Understanding Stresses and Shocks

