

Research driving change

North Australia
Fire Managers
Forum/ **2018**

David Bruce / Communications Manager



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Business
Cooperative Research
Centres Programme



safer Communities

Measures of success

Research drivers

IMPACTS, DEATHS

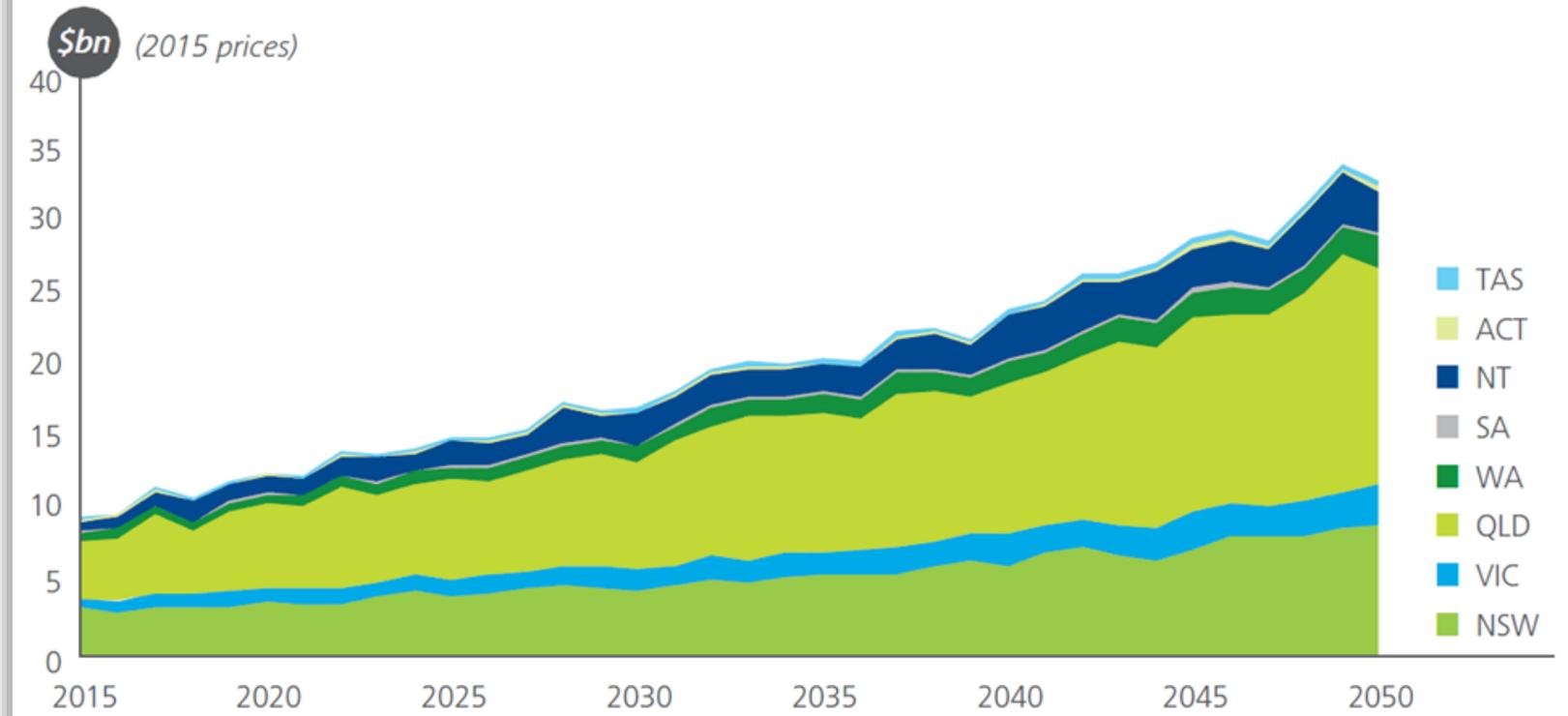
Hazard	Period of coverage	Fatalities	High Risk States
Extreme heat ¹	1900-2011	4,555	Vic, NSW, SA
Flood ²	1900-2015	1,859	Qld, NSW (NT)
Tropical cyclone ⁴	1900-2015	1,216	WA, NT, Qld
Bushfire ³	1900-2011	825	Vic, NSW, SA
Wind storm ⁴	1900-2015	525	NSW, Vic, Qld



Research drivers

IMPACTS, COSTS

Chart ii: 2015–50 forecast of the total economic cost of natural disasters, identifying costs for each state



Source: Deloitte Access Economics analysis

Bushfire and Natural Hazards CRC

From 2013 to 2021: \$47m over 8 years

- Total funds \$130M (cash and in-kind)

Approximately 50 partners:

- ~30 end user organisations
- ~20 research organisations
- 250+ researchers

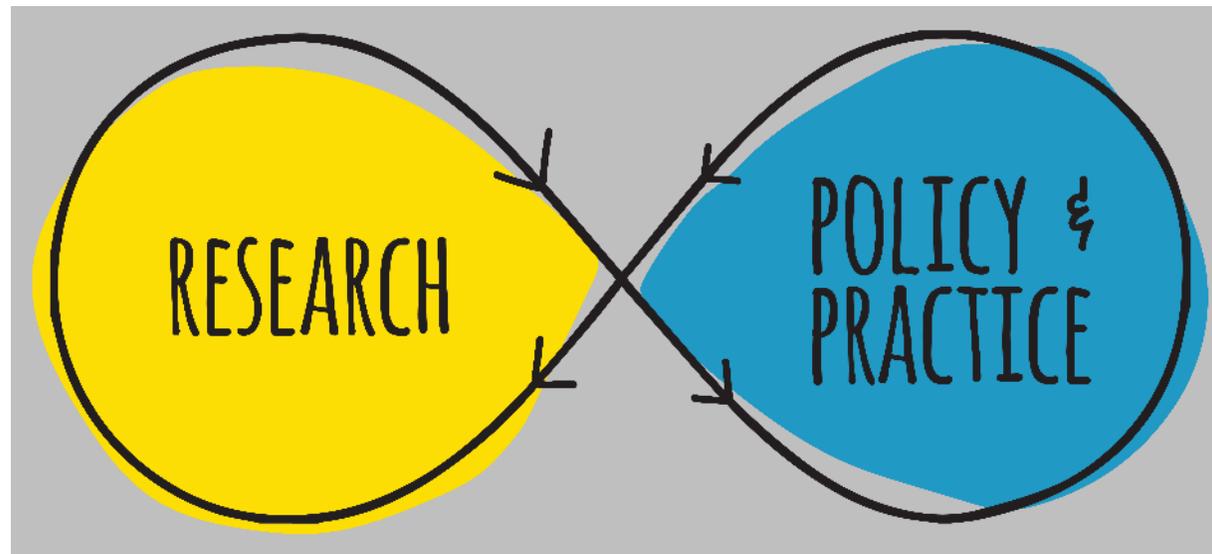
Guiding Principles

- National focus
- Large scale of problem
- Multi hazard
- Filling a gap in knowledge
- Sizable impact
- Likelihood of adoption/use



“We are still talking about getting Research into Operations. You guys are doing the full loop with Research to Operations and back into Research.”

RON STEFFENS / INTERNATIONAL ASSOCIATION OF WILDLAND FIRE





Research driving change

RESEARCH IN USE



Mitigation

Cyclones and severe wind

CYCLONE HOUSING MODEL
QUEENSLANDER (TYPICAL 1925-1959)

Wall construction

- Timber frame
- Weatherboard or FC
- Cyclone rods @ 3 m

Roof construction

- Pitched frame (25°)
- Mixed hip/gable
- Corrugated iron (nails)
- Collar ties every 2nd





For their sake...

**Know your bushfire risk...
and make a plan for all your family.**

For more information visit www.cfs.sa.gov.au
Bushfire Information Hotline 1300 362 361 (TTY 133 677)



Emergency warnings

ENHANCING EMERGENCY WARNINGS





Educate the child Educate the community

Family and school based hazards education

Volunteers |

IMPROVING VOLUNTEER
RETENTION AND LEADERSHIP





| Flood safety

FLOOD CAMPAIGN
INFORMED BY RESEARCH

Post event studies

EXTENDED SERVICE FOR
OUR PARTNERS AND OTHERS





National research priorities for natural hazards and emergency management

- 4 pillars
 - Natural
 - Social
 - Economic
 - Infrastructure
- Keys to success:
 - Shared responsibility
 - Communicating risk and understanding benefits of mitigation
 - Impact of climate change
 - Predictive services and warnings

Stay in touch

Online and in person



www.bnhcrc.com.au/showcase2017

Showcase 2017 – Research Driving Change
4-5 July 2017, Adelaide
Presentations, case studies, audio and video.

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Publications from Projects

Journal articles, reports, conference papers
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News, Research, Discussion

Hazard Notes, Hazard News
Australian Journal of Emergency Management