

# Research to support climate change adaptation

## Rod Keenan

*Partner Universities*



*Project Sponsor*



## Impacts on:

- Natural systems and species
- Water resources
- Agriculture and forest production
- Communities, settlements and infrastructure
- Human health and disease risk



Factor	Change	Impacts
Water availability	Rainfall ↓ Evaporation ↑ Changes in annual distribution	Potable water supply Agricultural sector Fire risk Biodiversity Rural communities
Coastal Inundation	Sea level ↑ Storm surges ↑ Changing currents	Infrastructure Insurance Lifestyle
Temperature	Average temps ↑ Extreme temps ↑ No extreme days ↑ Minimum temps ↑	Human health Infrastructure Conservation Forest production

High emissions intensity in energy and transport

Already strong drying, warming trend

Southerly setting

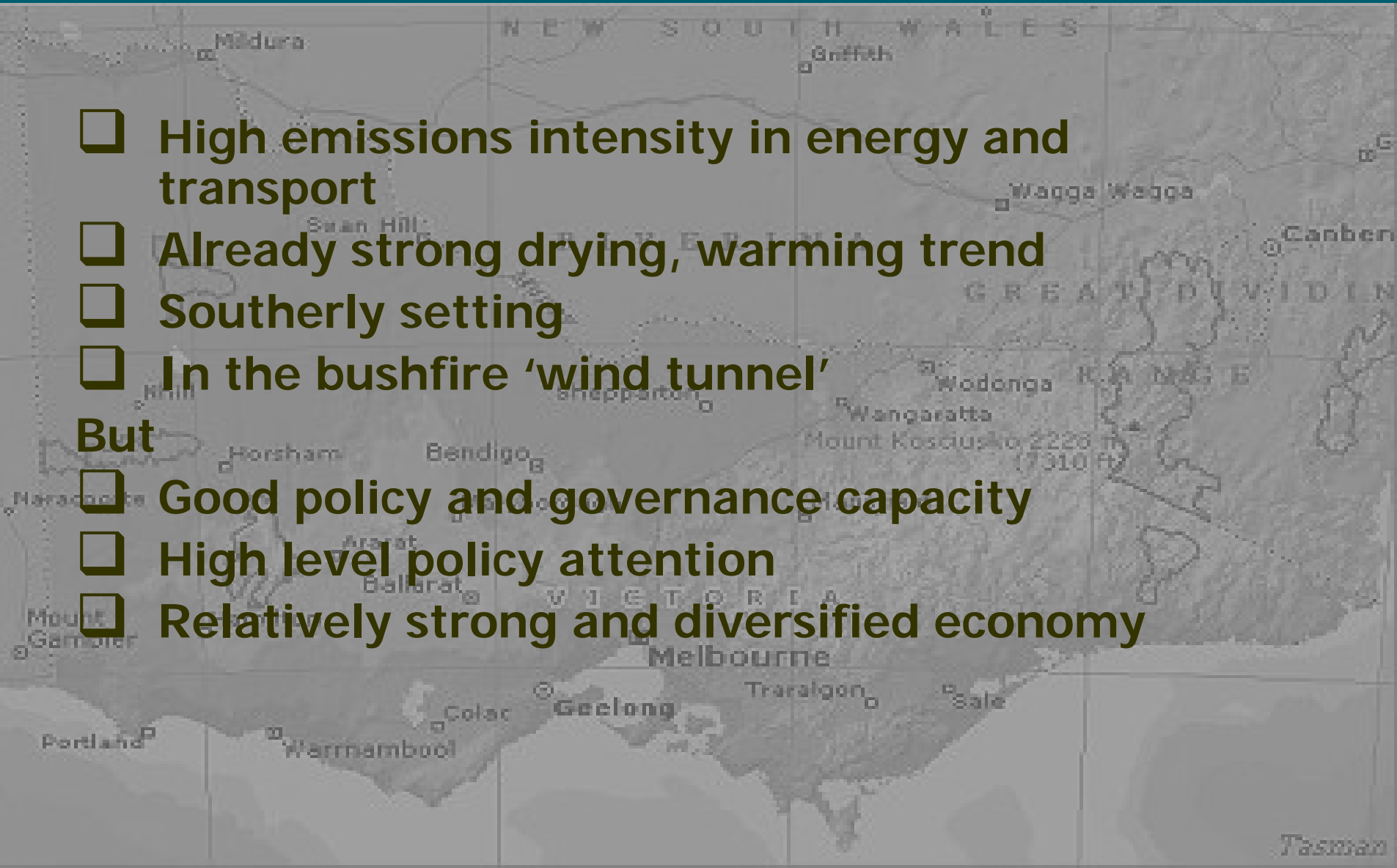
In the bushfire 'wind tunnel'

**But**

Good policy and governance capacity

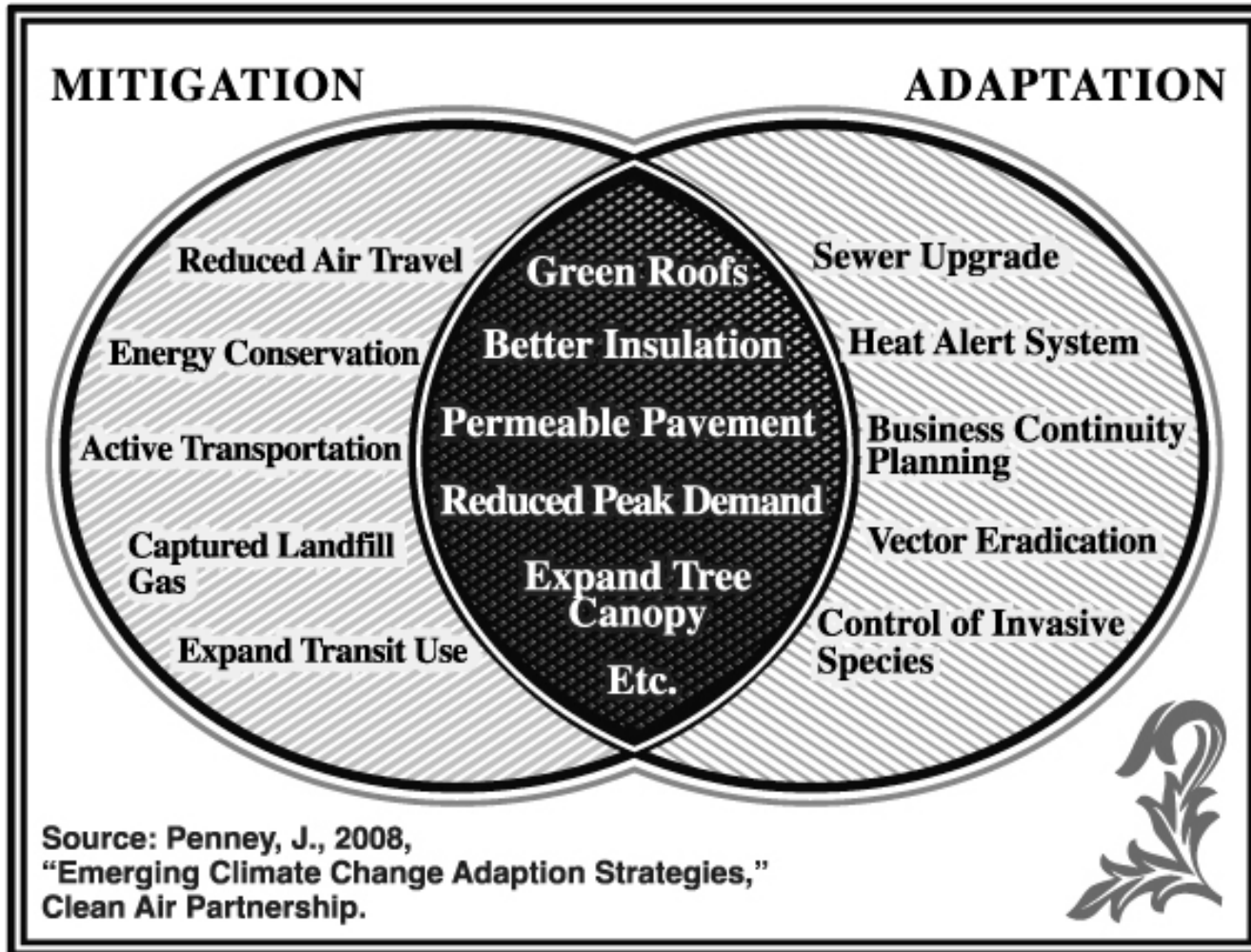
High level policy attention

Relatively strong and diversified economy



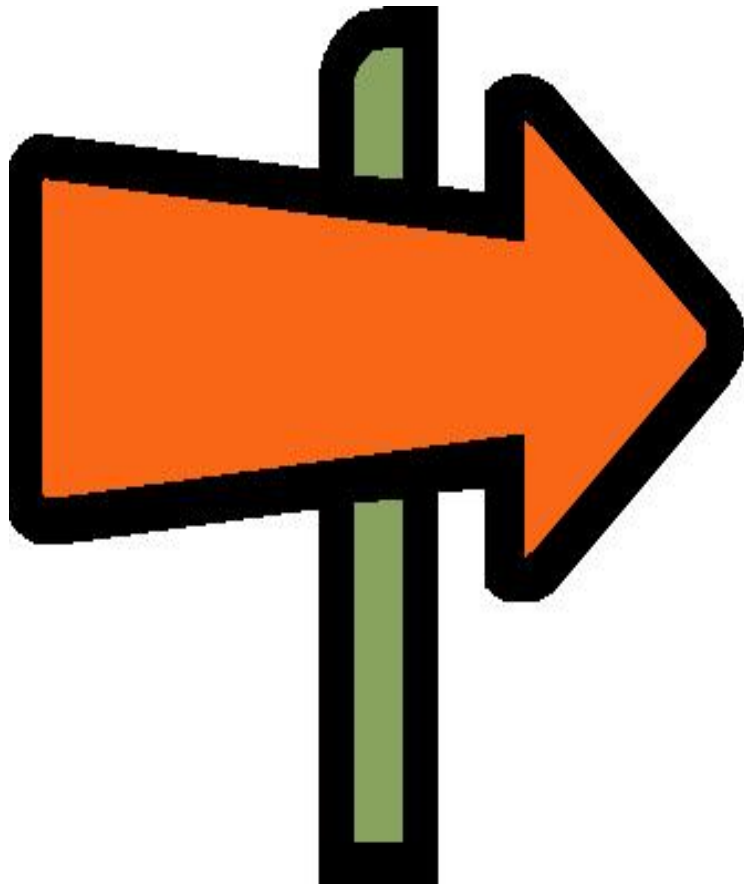


# Mitigation vs Adaptation

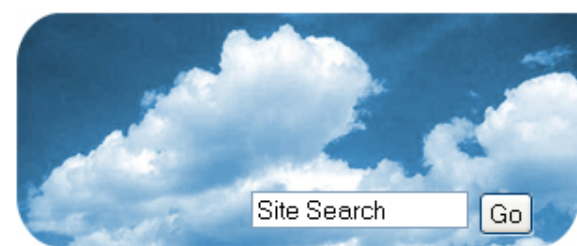


## Appropriate policy and community responses






- Provide multi-disciplinary, research, analysis and advice to Government, industry and the community**
- Increase decision-making capacity on climate adaptation**
- Include adaptation needs into strategic planning**
- Build partnerships between Victorian universities**
- Expand funding for adaptation research**



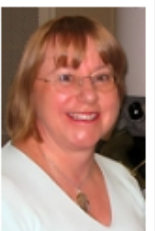
### Member profiles




**Professor Rod Keenan**  
 Director, Victorian Centre for Climate Change Adaptation Research  
 University of Melbourne  
[View Profile](#)



**Dr Darryn McEvoy**  
 Deputy Director, Victorian Centre for Climate Change Adaptation Research  
 RMIT  
[View Profile](#)

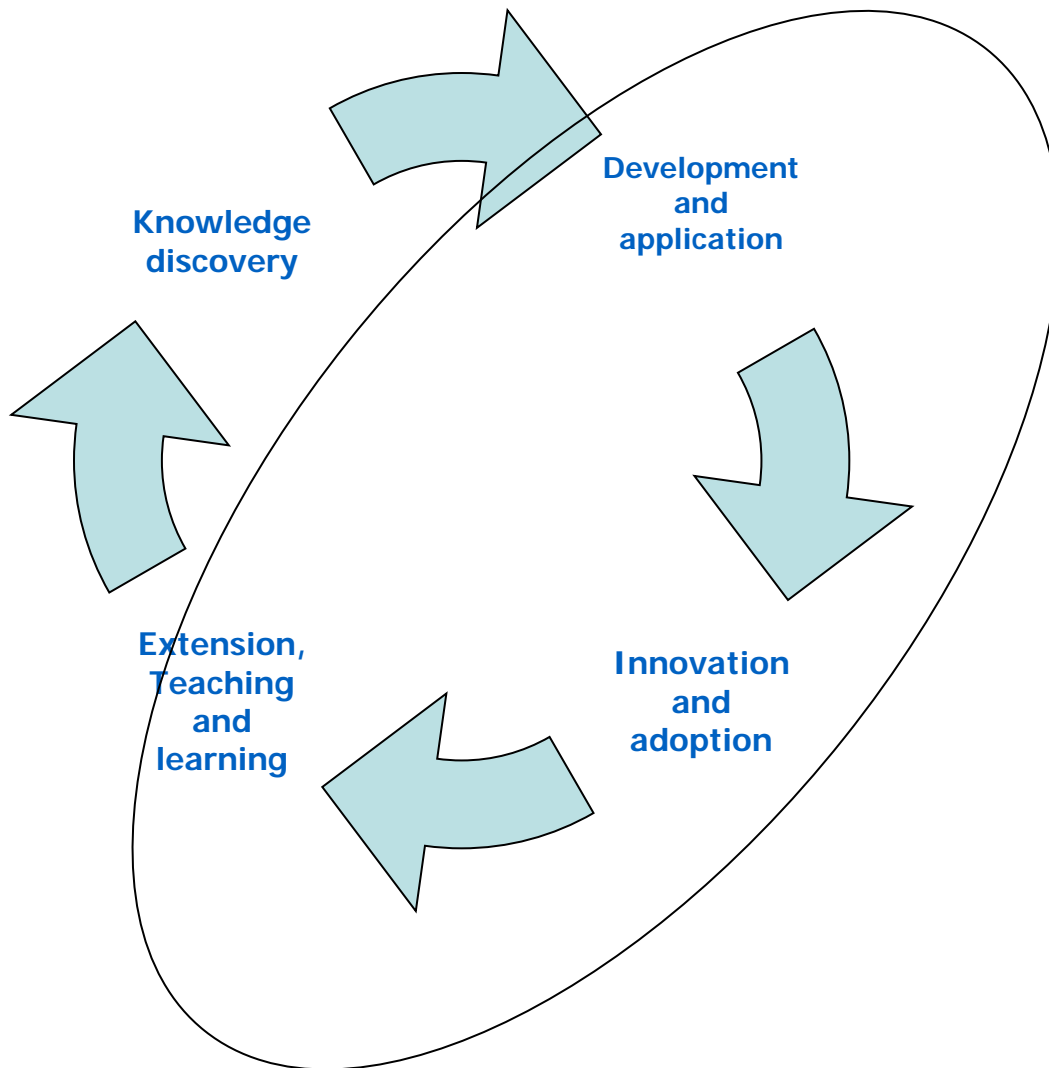


**Professor Annabelle Duncan**  
 La Trobe University  
[View Profile](#)



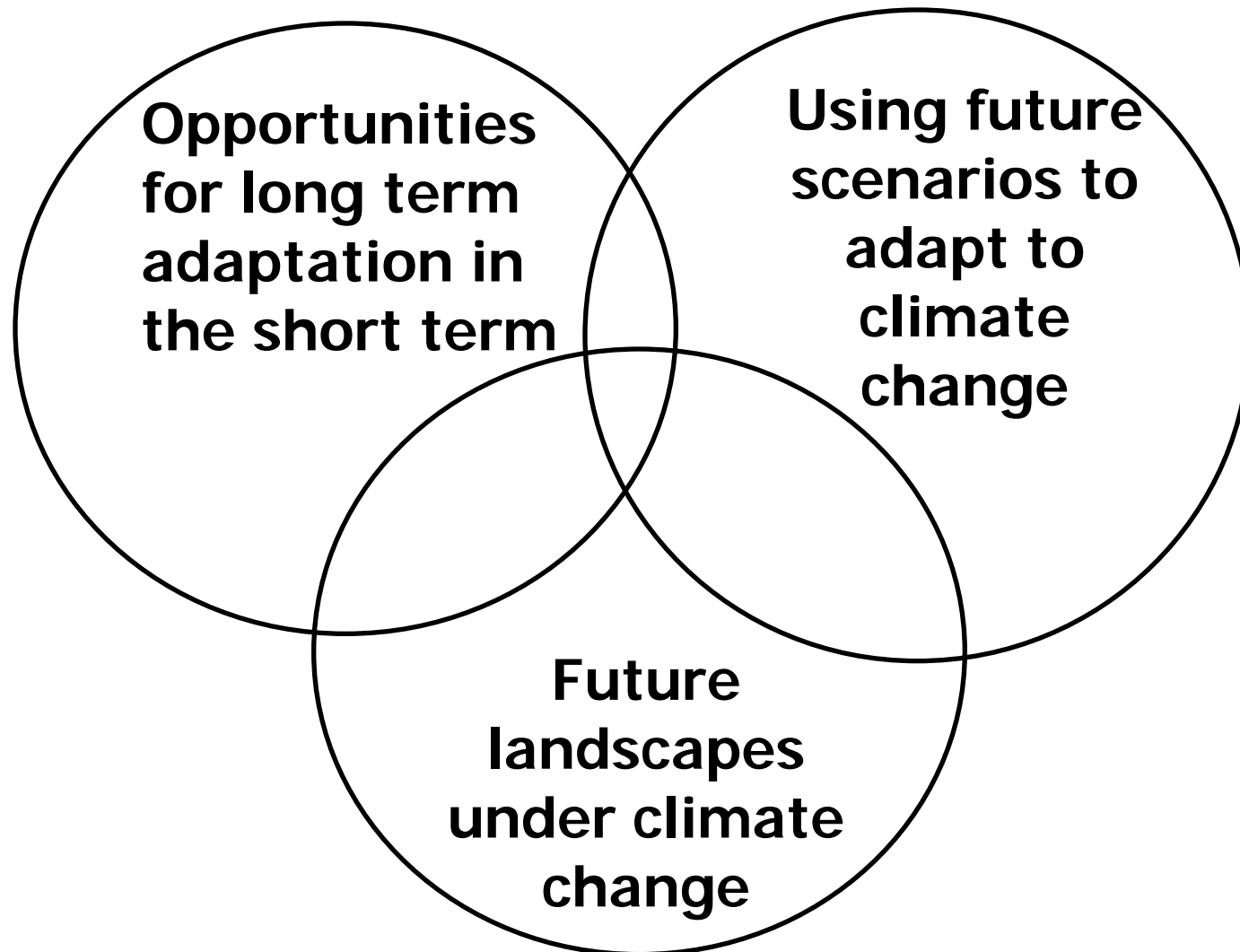
**Professor Nigel Tapper**  
 Monash University  
[View Profile](#)

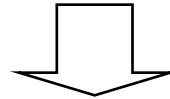
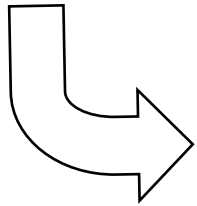




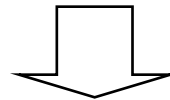
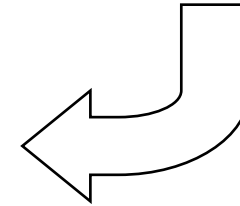
## Participants

- Universities
- CSIRO
- DCC, federal agencies
- State agencies
- NCCARF
- ARC, Dep. Innovation
- Industry
- Community





Integration



- Explore adaptation options
- Investigate policy alternatives
- Identify institutional barriers

- Regional or thematic think tanks
  - 4 per year
- Annual Forum
- Visiting Fellow



- Short papers and policy briefs
- Technical and scientific reports
- Peer reviewed journal publications
- Public presentations

**[www.vcccar.org.au](http://www.vcccar.org.au)**