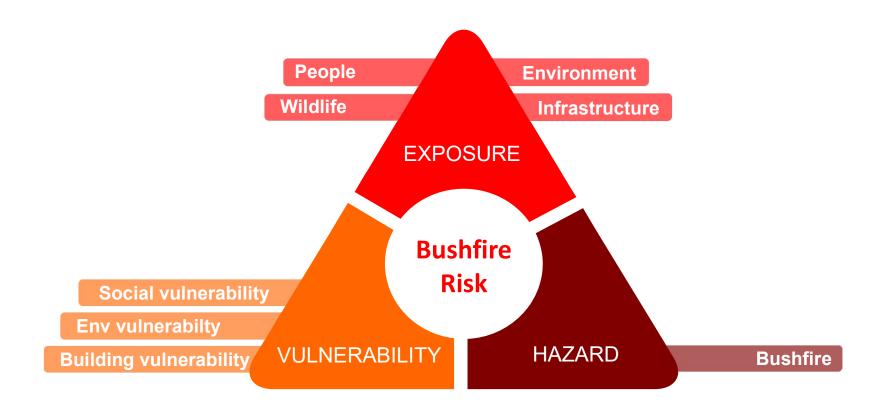


Tomorrow's risk is being built today. We must therefore move away from risk assessments that show risk at a single point in the present and move instead towards risk assessments that can guide decision makers towards a resilient future.

Global Facility for Disaster Reduction and Recovery (2016)The making of a riskier future: How our decisions are shaping future disaster risk.





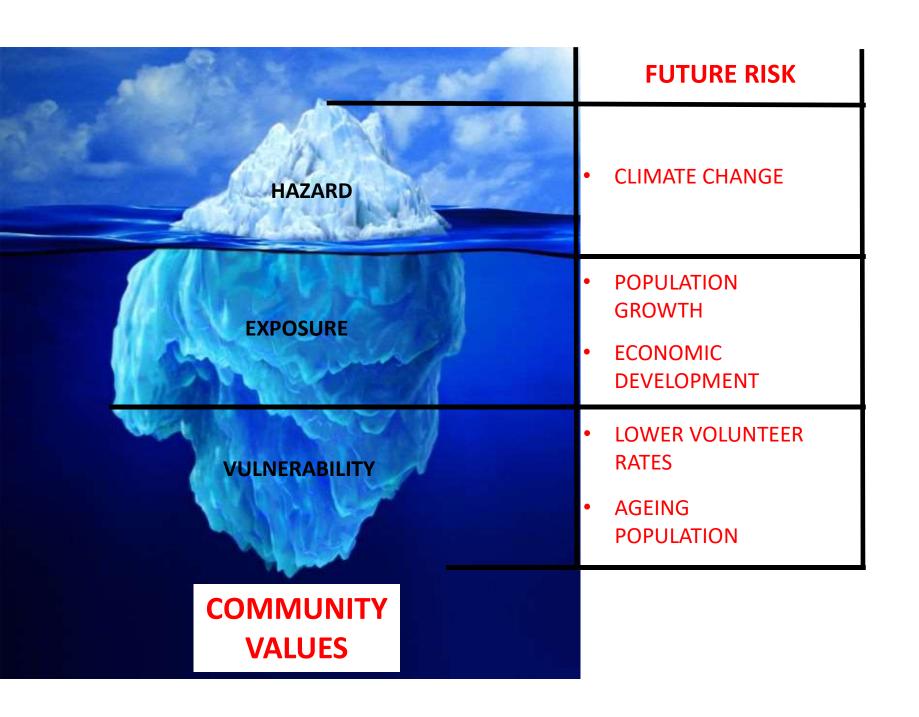
HIGH AWARENESS

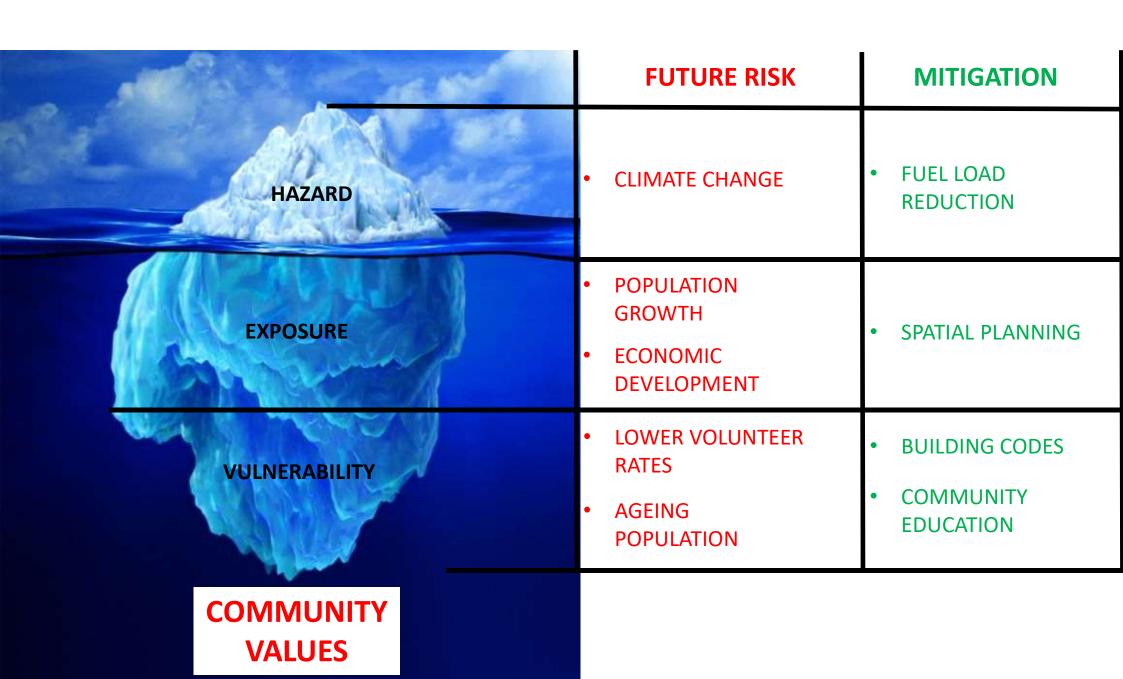
LOW AWARENESS



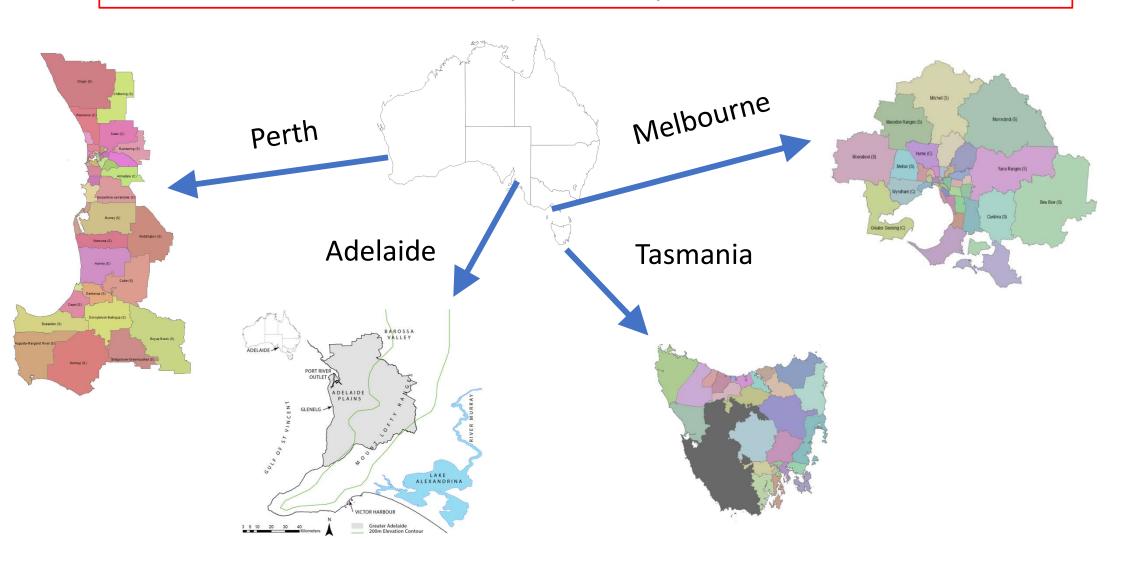
HIGH AWARENESS

LOW AWARENESS

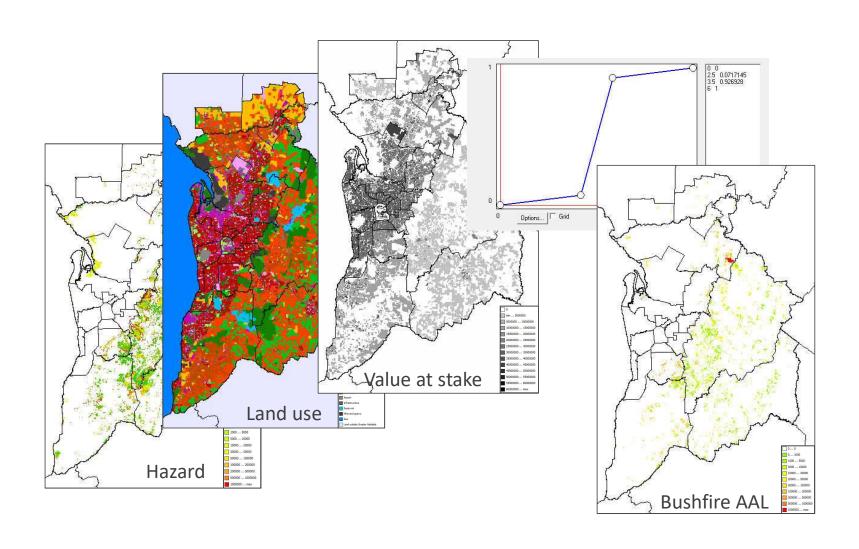




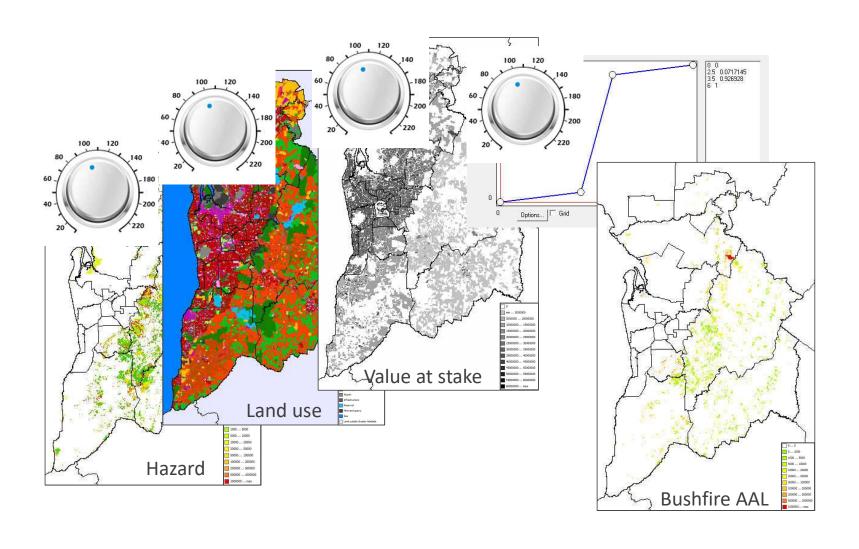
Unified Natural Hazard Risk Mitigation Exploratory Decision support system (UNHaRMED)



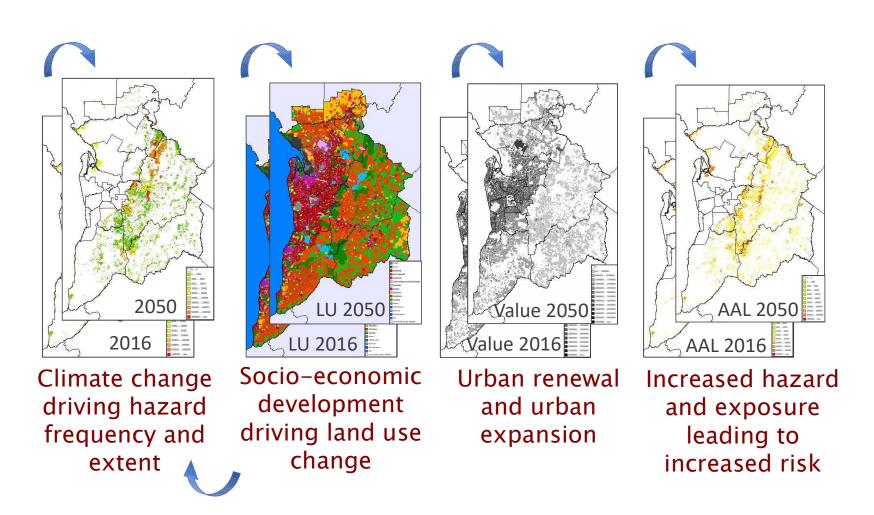
Bushfire risk modelling



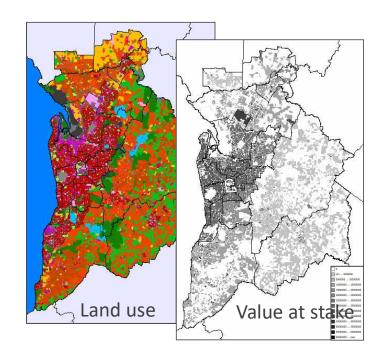
Bushfire risk modelling



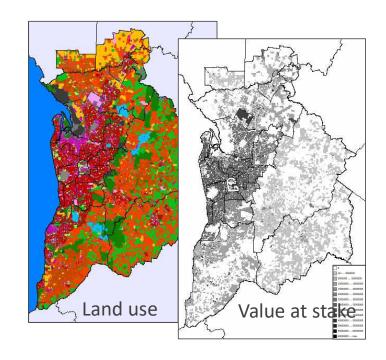
Changes over time

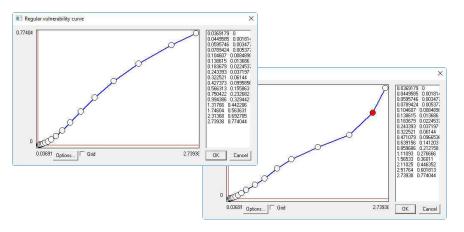


 Spatial planning impacting on land use allocation

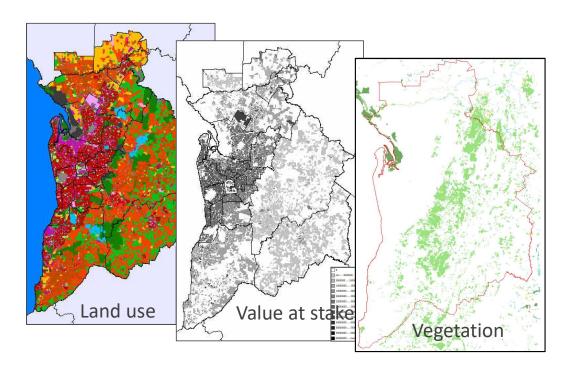


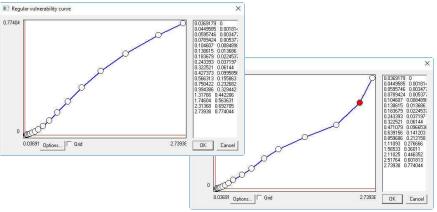
- Spatial planning impacting on land use allocation
- Changing building codes leading to more resilient buildings



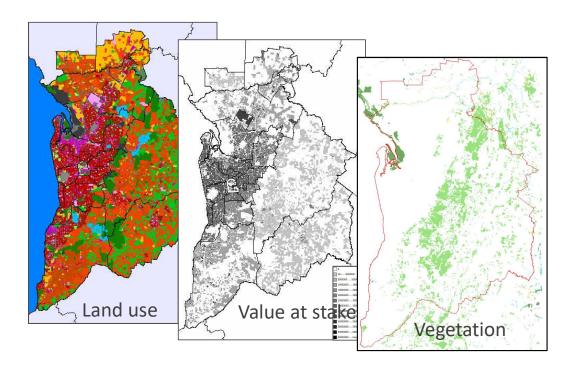


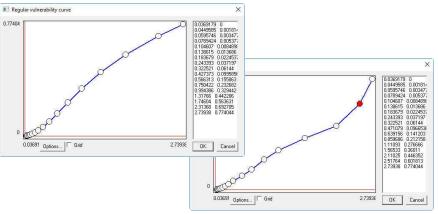
- Spatial planning impacting on land use allocation
- Changing building codes leading to more resilient buildings
- Fuel load reduction impacting the extent and magnitude of the hazard



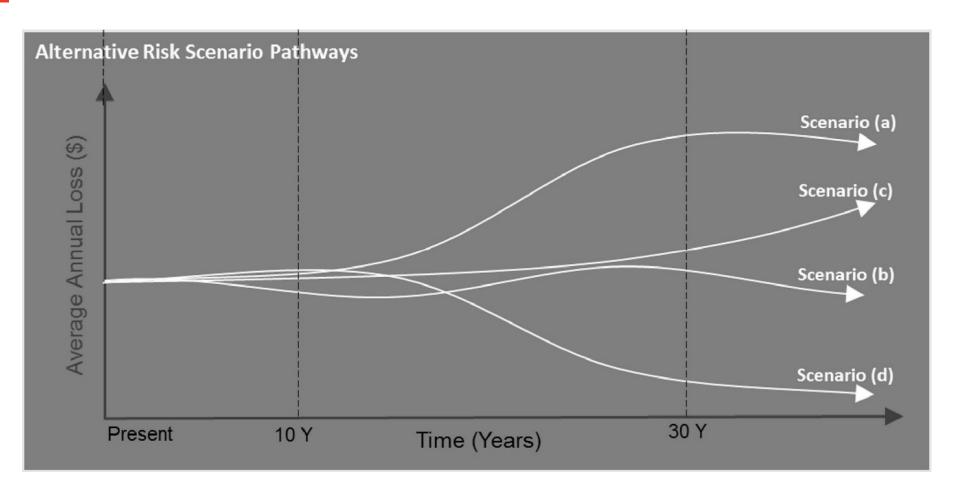


- Spatial planning impacting on land use allocation
- Changing building codes leading to more resilient buildings
- Fuel load reduction impacting the extent and magnitude of the hazard
- Education and awareness reducing ignition potential and vulnerability





Changes over time



Riddell G.A., van Delden H., Maier H.R, Zecchin A.C. (2019) <u>Exploratory scenario analysis for disaster risk reduction: Considering alternative pathways in disaster risk assessment</u>, *International Journal of Disaster Risk Reduction*, **39**, 101230, DOI:10.1016/j.ijdrr.2019.101230.

We can assess how risk will change and what risk reduction portfolios are most effective in different plausible future worlds using a "policy wind tunnel"



Take-Home Message

- We need to think about more than fire when managing bushfire risk
- We need to take a long-term view on risk reduction, with a greater focus on mitigation
- We need to be more strategic and less reactive
- We need to consider all options in a rational, integrated fashion to make evidence-based decisions

