

Identification of emerging wildfire risk hotspots due to changes in climate and population in Western Australia Amelie Jeanneau







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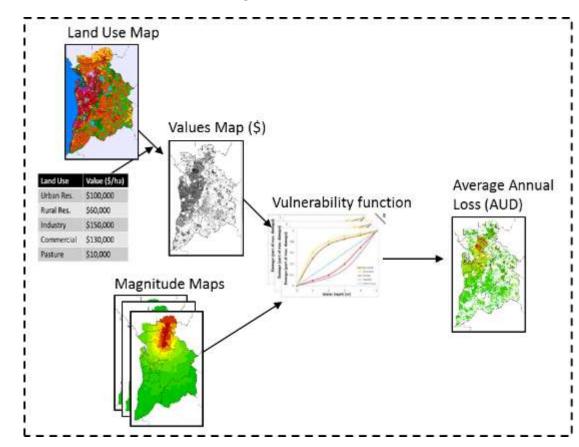




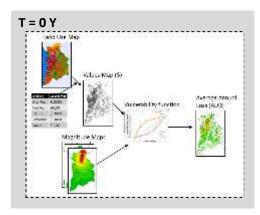


### A tool for pro-active disaster risk assessment and reduction planning

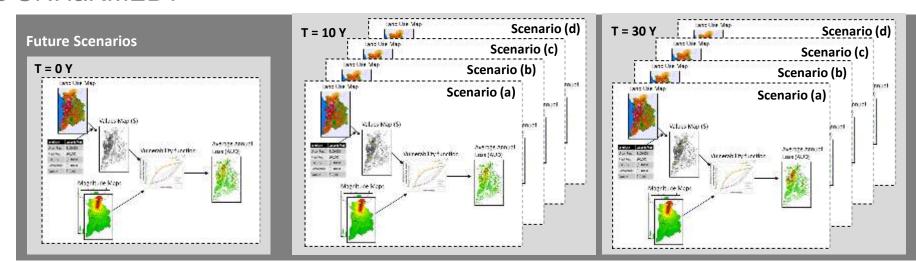
- Interactive modelling platform to assist decision making, investment choices and mitigation measures
- Considers long-term dynamics and uncertainties of hazard, exposure and vulnerabilities
- Assess the effectiveness of risk reduction measures



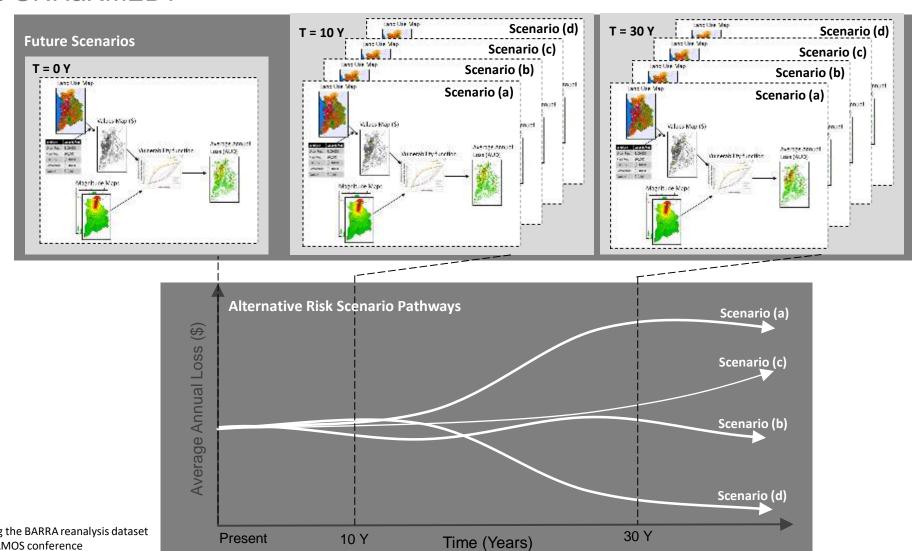












*Source:* Black et al. 2020 - Using the BARRA reanalysis dataset for integrated risk modelling. AMOS conference



No change



Moderate change (RCP 4.5)

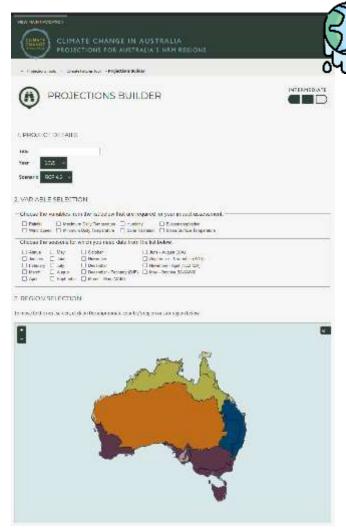




Severe change (RCP 8.5)



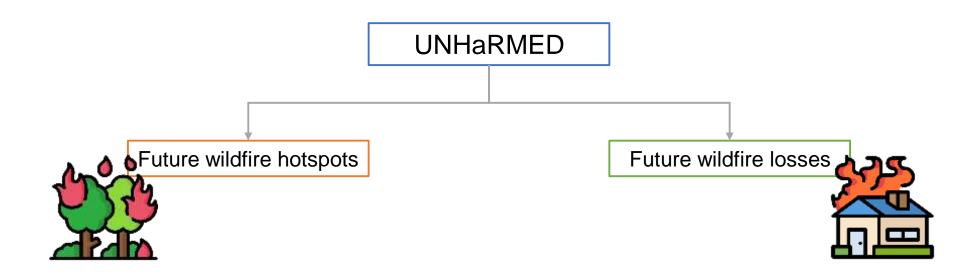




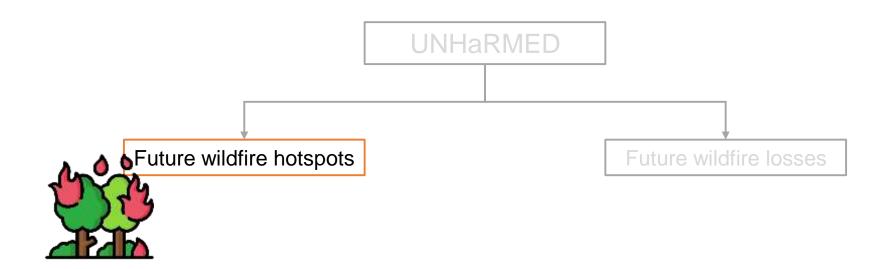


https://www.climatechangeinaustralia.gov.au/en/















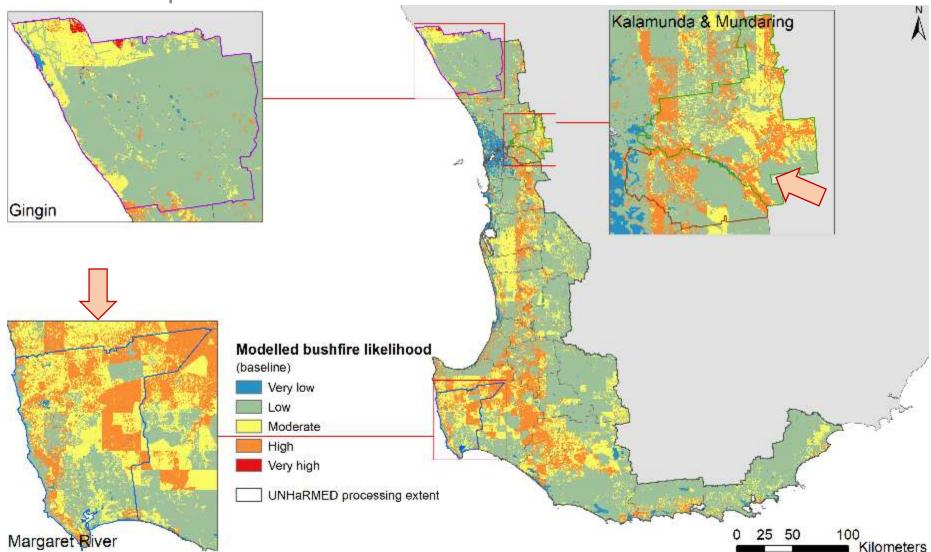






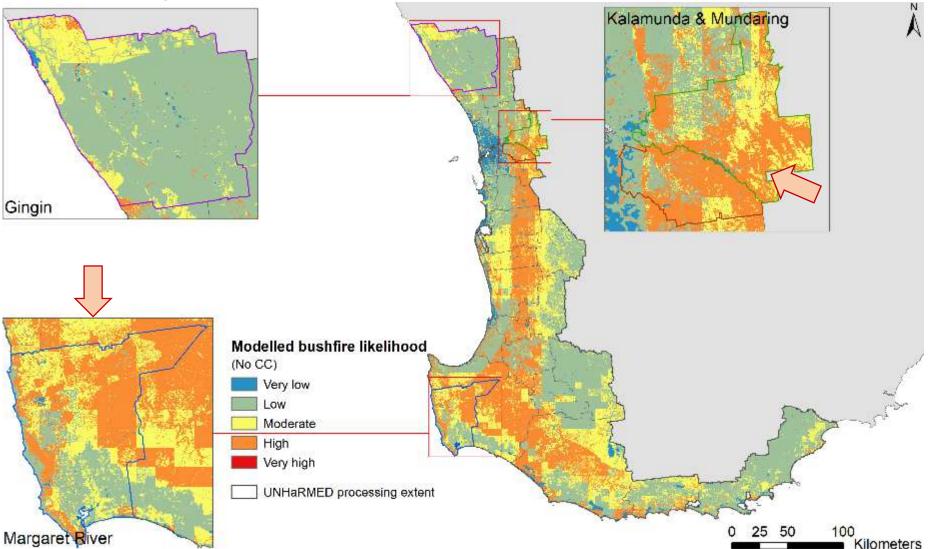






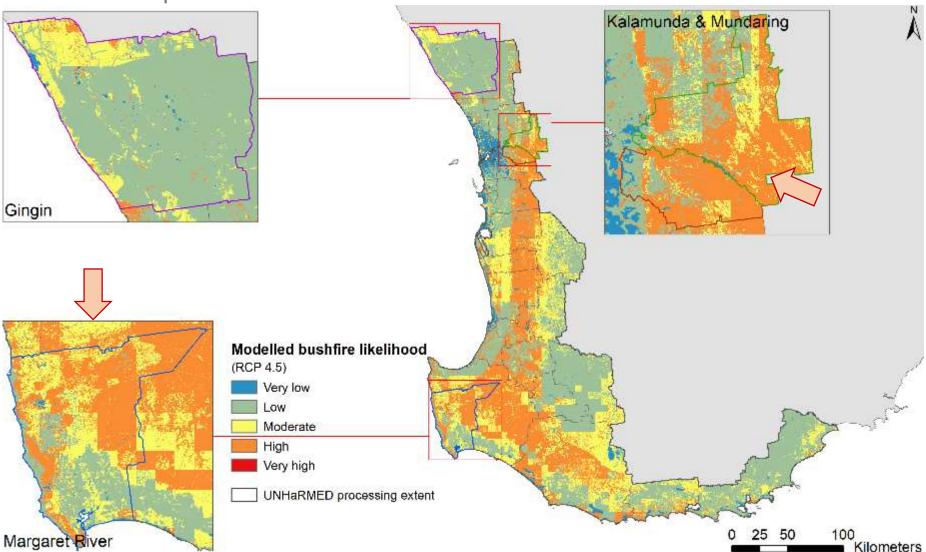






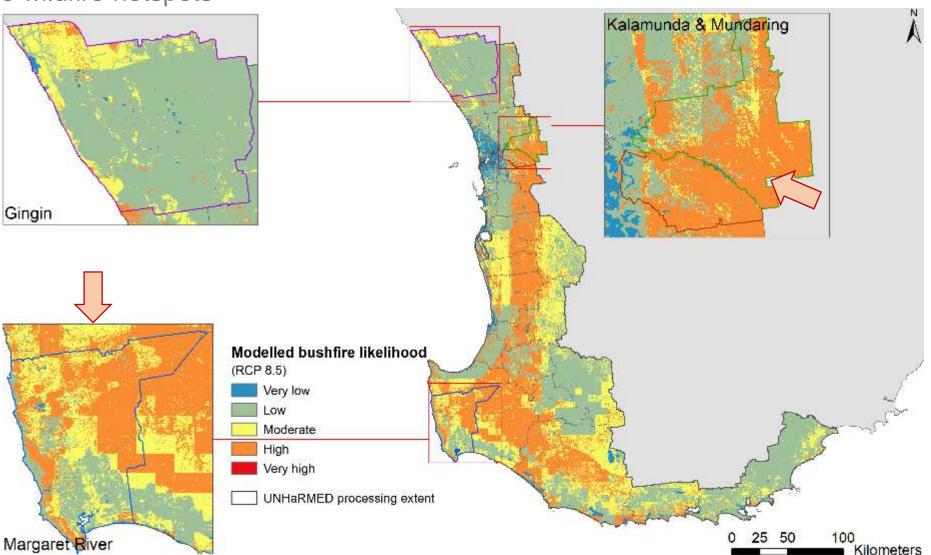






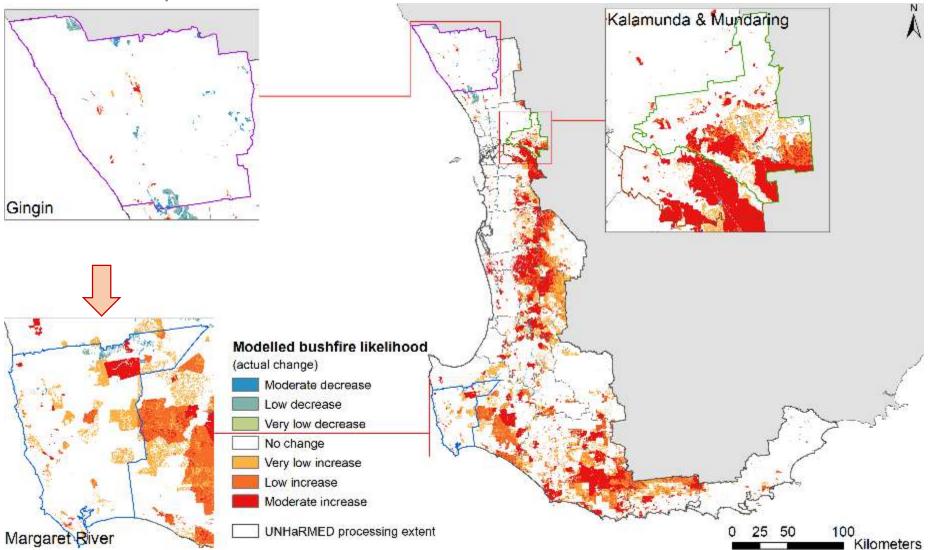






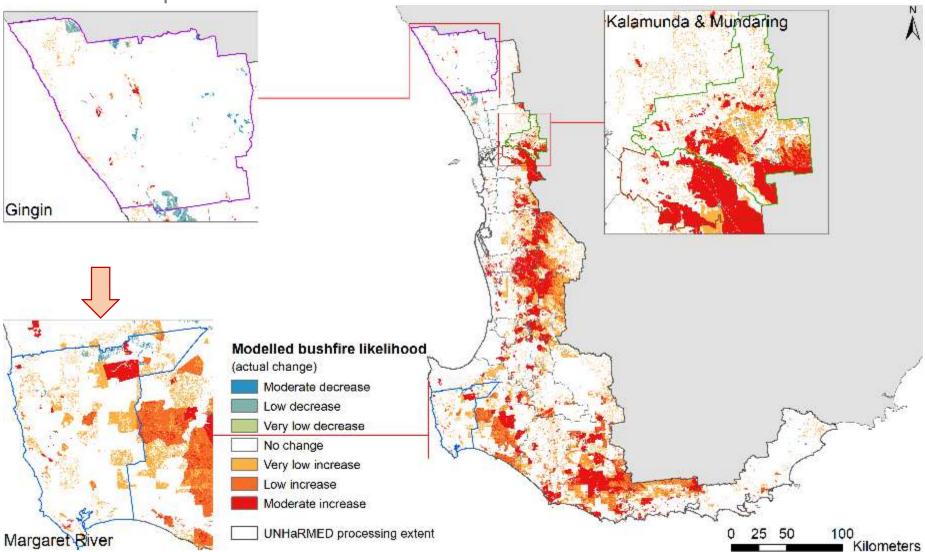






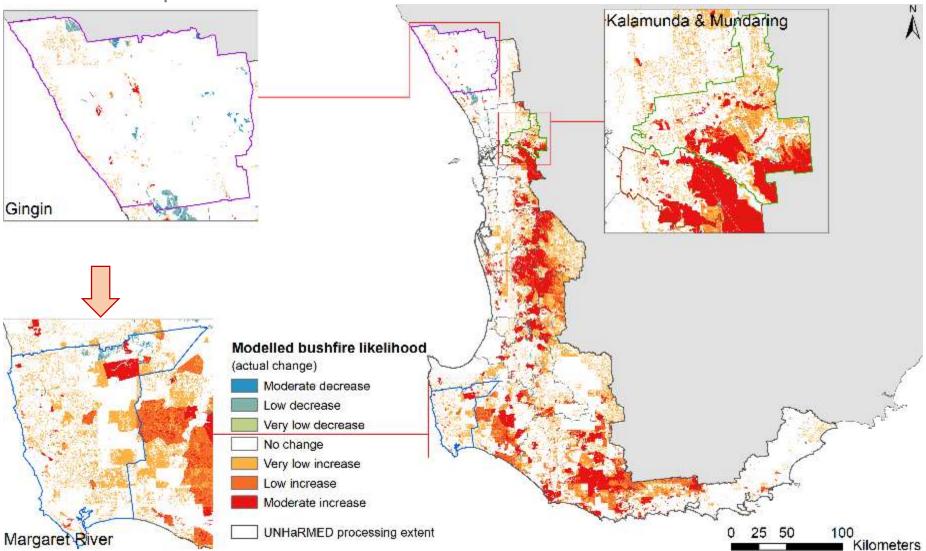






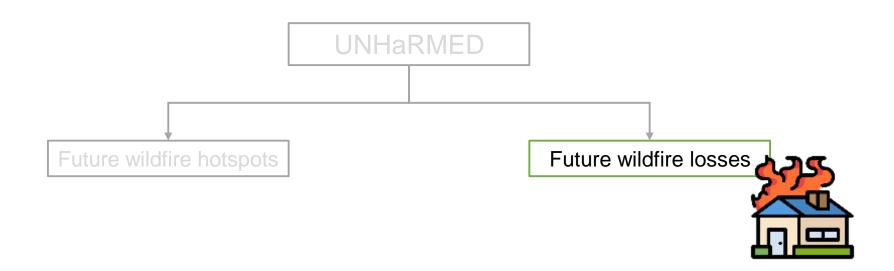






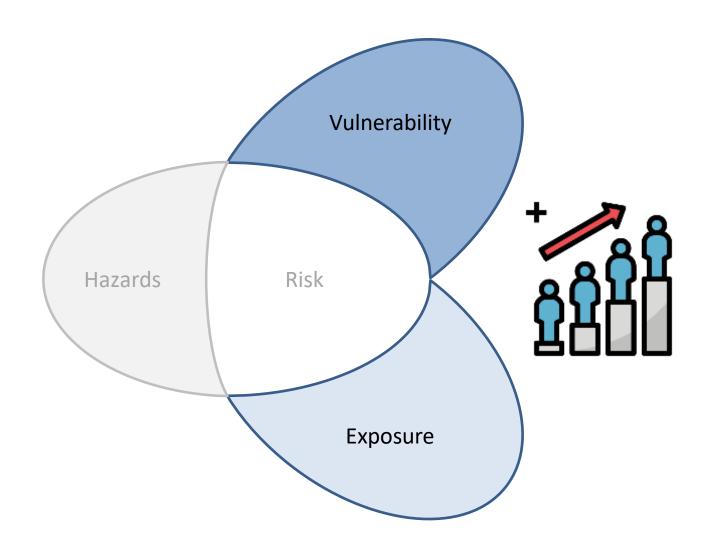




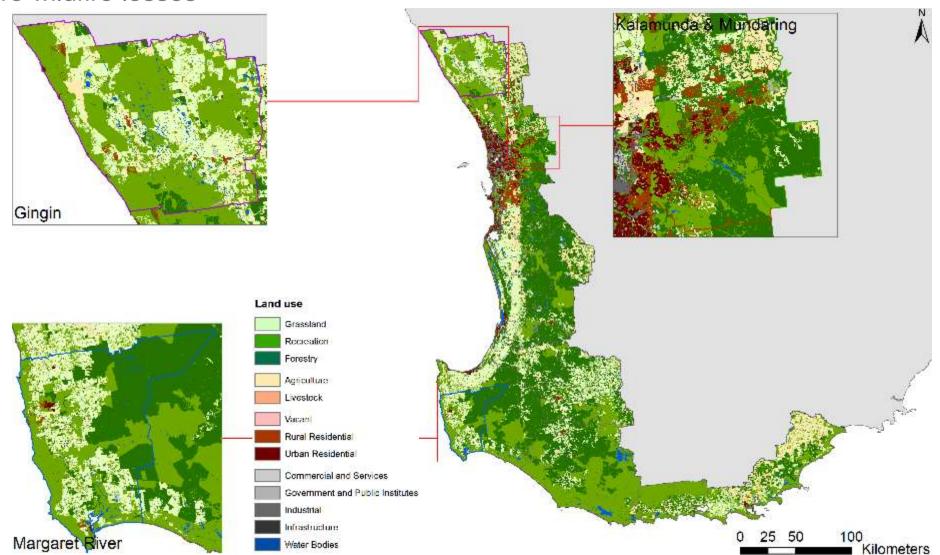




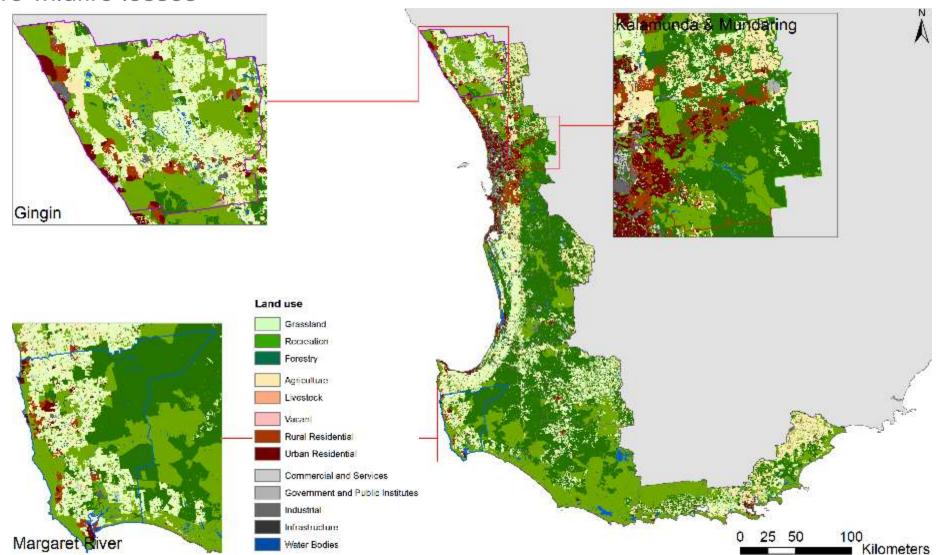








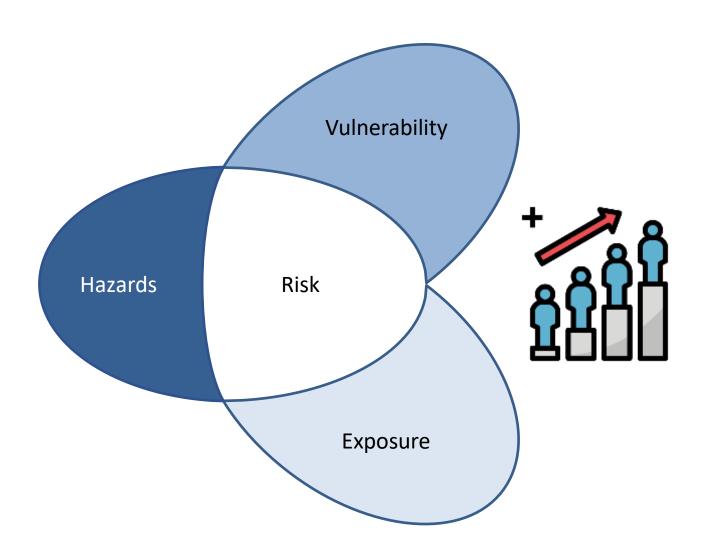






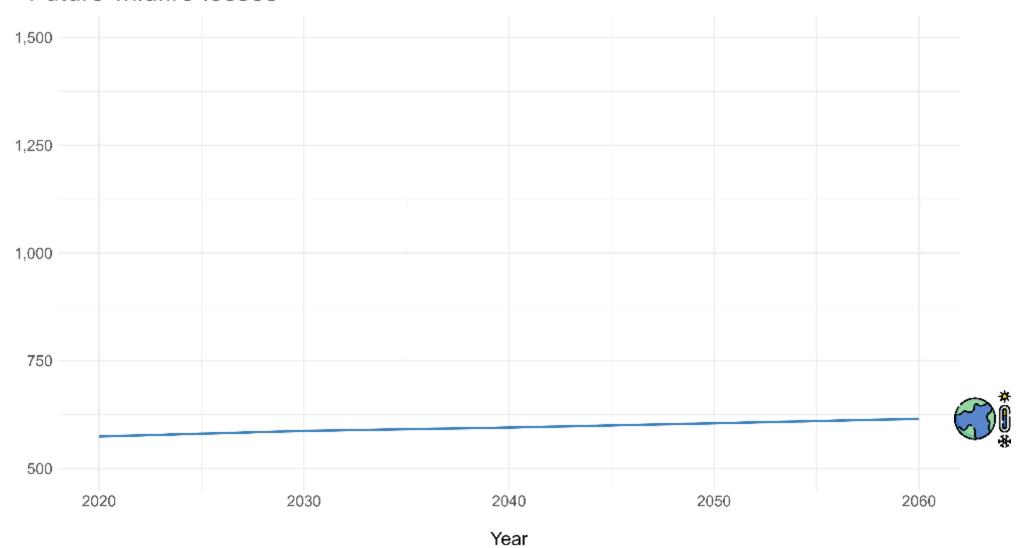






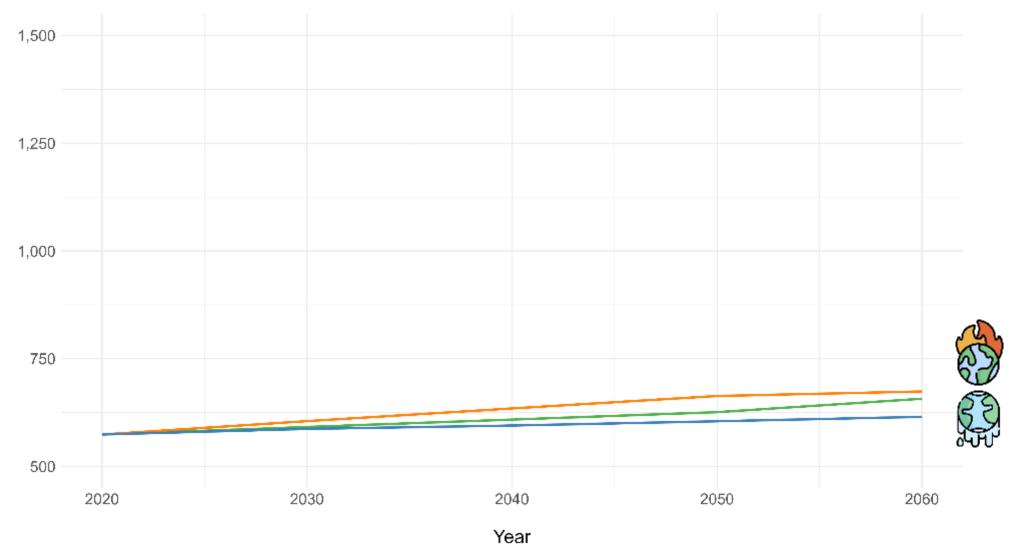






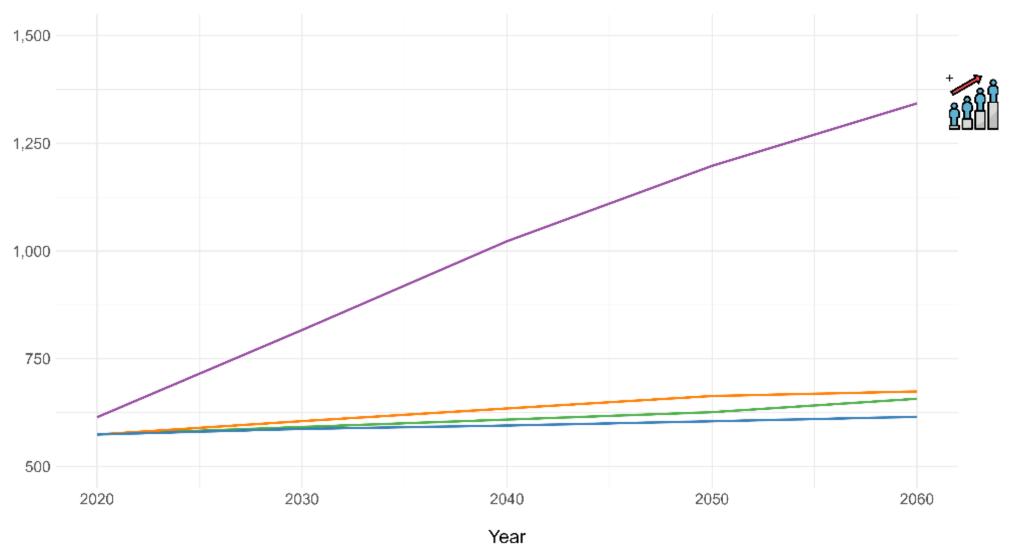






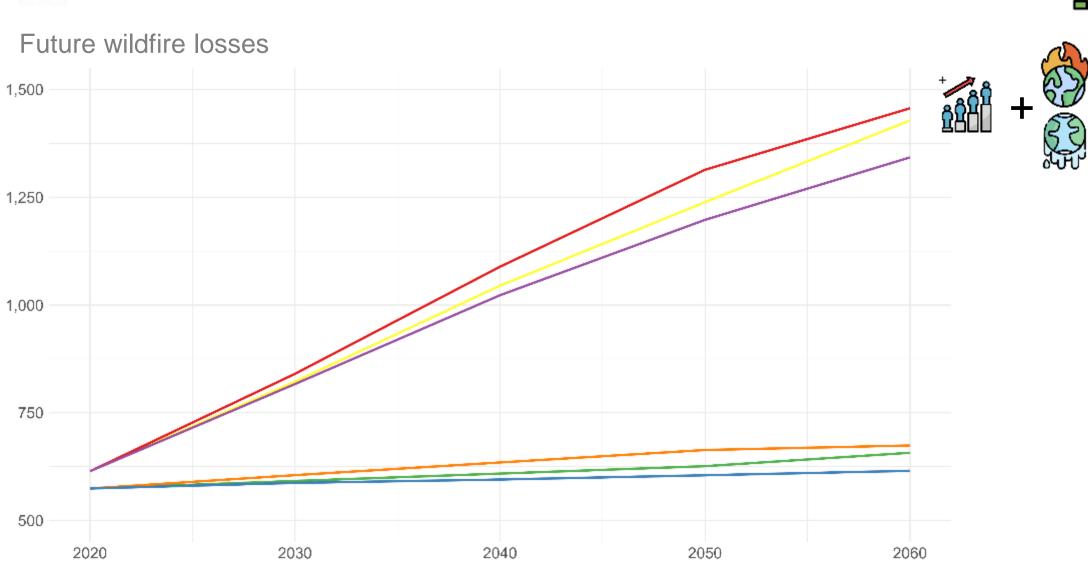










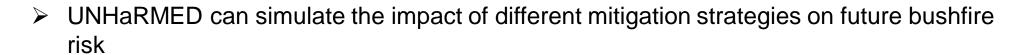


Year



# Summary

- UNHaRMED can be used to
  - □ Identify key areas of future wildfire risk
  - ☐ Quantify the impact of climate change and population growth on future losses due to w



- Useful for wildfire mitigation officers and land planners to
  - □ Prioritise funding allocation
  - ☐ Develop policies and strategies for building well-prepared and resilient commun





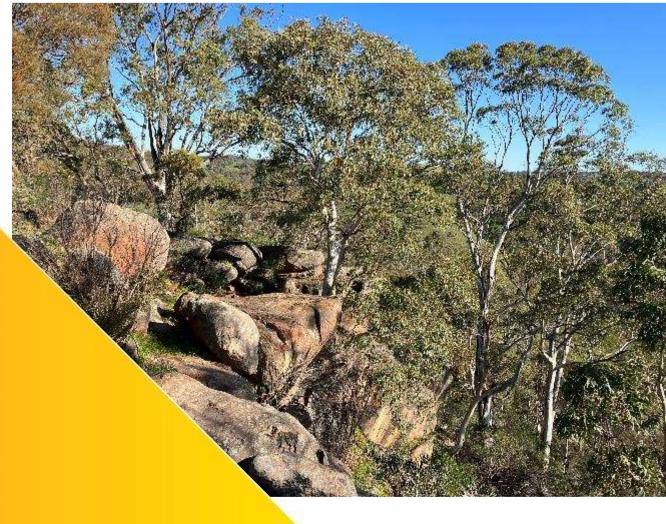
- Future work
  - ☐ Other indicators needed to quantify social and environmental impacts of wildfires

















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