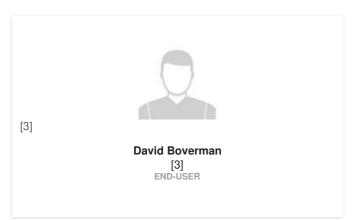


New South Wales Rural Fire Service [1] HTTP://WWW.RFS.NSW.GOV.AU/ [2]

The NSW Rural Fire Service has more than 70,000 volunteer members in 2100 brigades providing emergency services to over 95 percent of NSW.

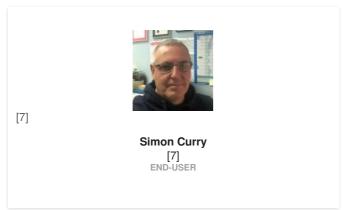
Our people



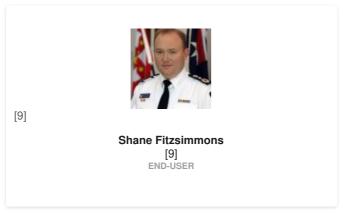






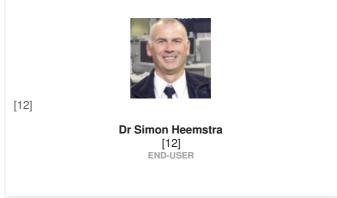


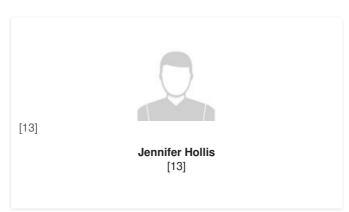




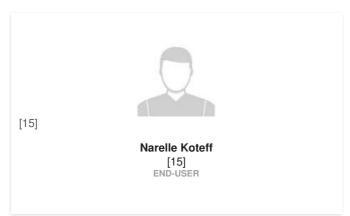










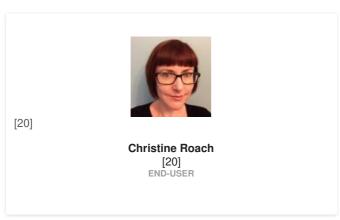


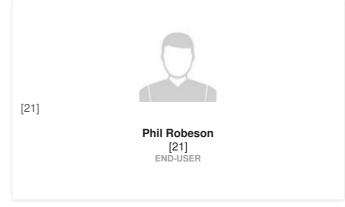




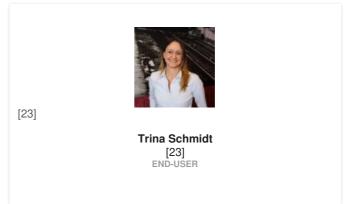




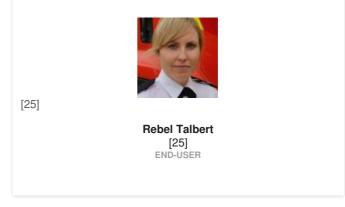






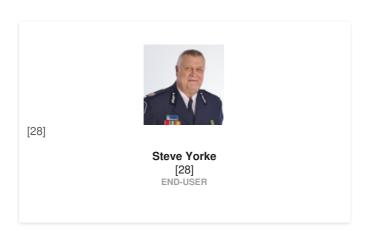






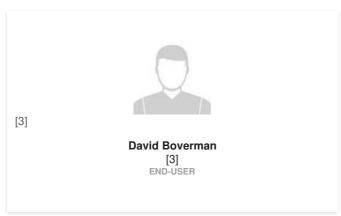




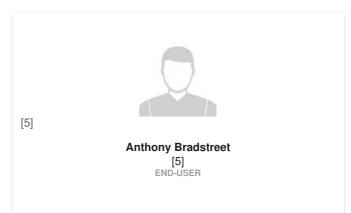


End user representation

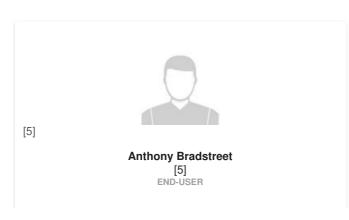
Urban planning for natural hazard mitigation [29]



2017 NSW post-incident task force [30]



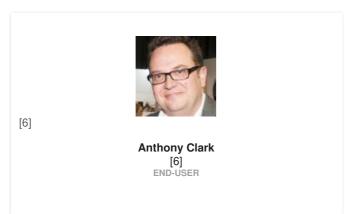
The Australian Natural Disaster Resilience Index: A system for assessing the resilience of Australian communities to natural hazards [31]



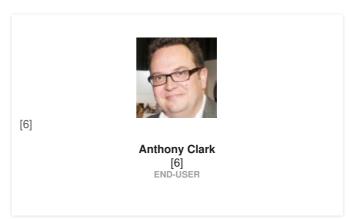
2018 Reedy Swamp fire post-incident task force [32]



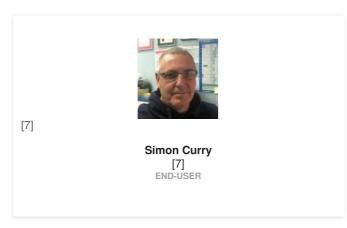
Effective risk and warning communication during natural hazards [33]



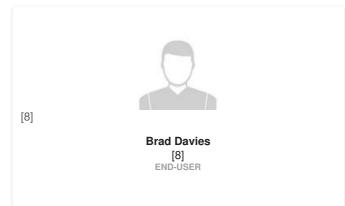
Improving the role of hazard communications in increasing residents' preparedness and response planning [34]

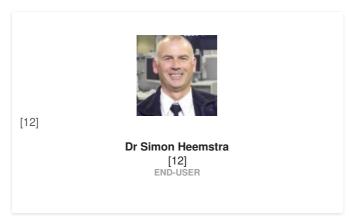


Hazards, culture and Indigenous communities [35]



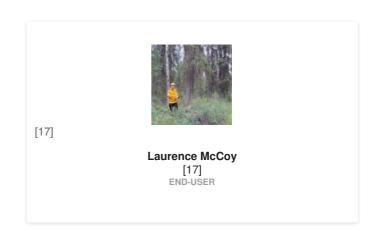
Fire spread prediction across fuel types [36]







Fire surveillance and hazard mapping

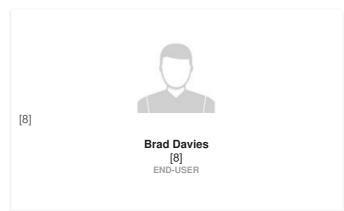


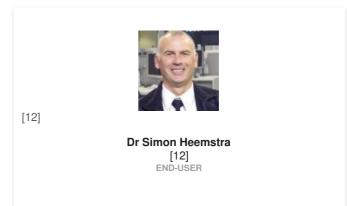




dynamics [38]

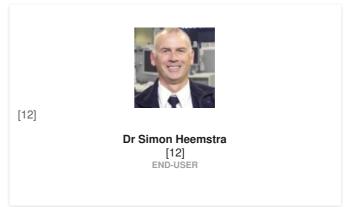
Fire coalescence and mass spotfire





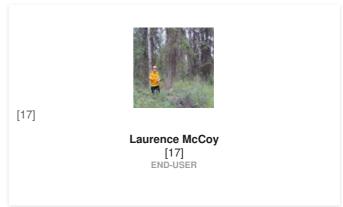
Threshold conditions for extreme fire behaviour [39]





October 2013 NSW post-incident task force [40]

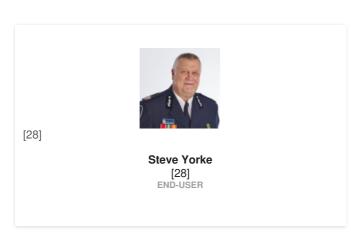






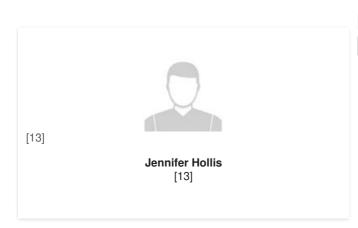
Catastrophic and cascading events: planning and capability [41]



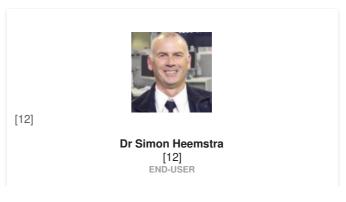


Predicting fire danger ratings from physical measures of fire behaviour [42]



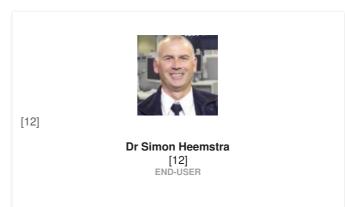


Mapping bushfire hazard and impacts [43]



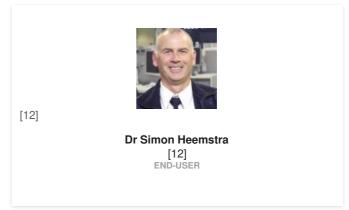


Coupled fire-atmosphere modelling [44]

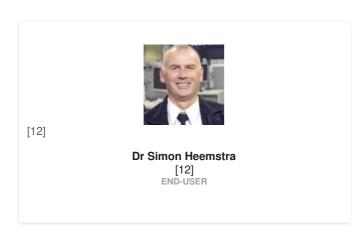




Empirical analysis of spot-fire and ember behaviour during extreme fire weather conditions [45]



Improved predictions of severe weather to reduce community impact [46]



Mapping and understanding bushfire and natural hazard vulnerability and risks at the institutional scale [47]



Improving the retention and engagement of volunteers in emergency service agencies [48]

Improving land dryness measures and forecasts [49]



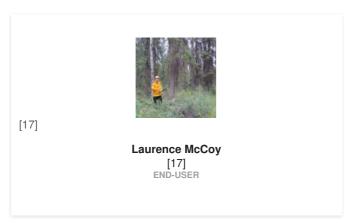




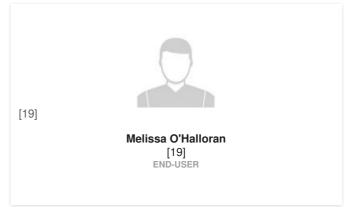
An investigation of the dynamics of fire-fire interactions using a coupled fire-atmosphere model [50]



Modelling fire weather interactions using the ACCESS-Fire model [51]



Optimisation of fuel reduction burning regimes [52]



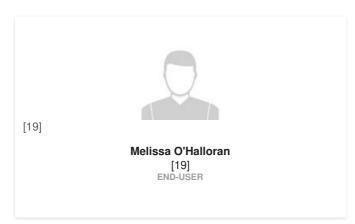
An analysis of building losses and human fatalities from natural disasters [53]

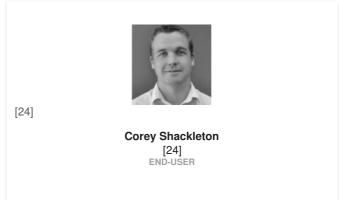




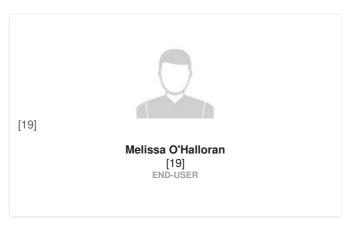
END-USER END-USER

Using realistic disaster scenario analysis to understand natural hazard impacts and emergency management requirements [54]

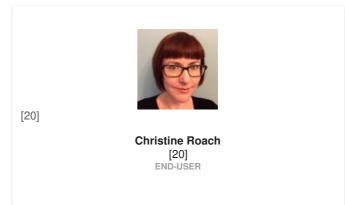




From hectares to tailor made solutions for risk mitigation [55]



Policies, institutions and governance [56]



Improving decision-making in complex multi-team environments [57]



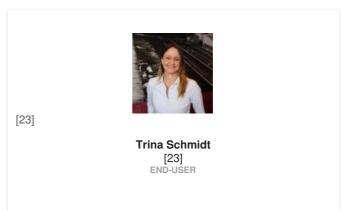
Capability needs for emergency & disaster management organisations [58]



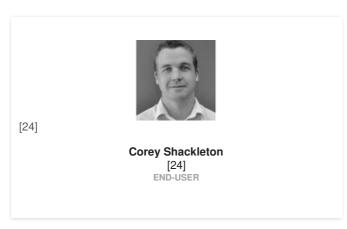
Scientific diversity and uncertainty in risk mitigation policy and planning [59]



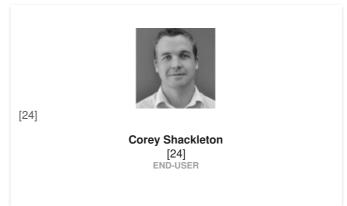
Positive mental health in young adult emergency services personnel [60]



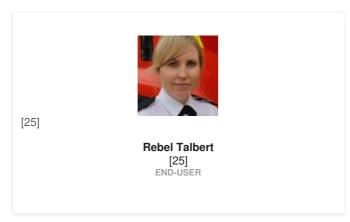
Natural hazard exposure information modelling framework [61]

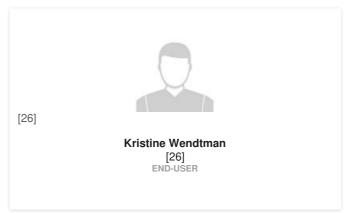


Cost-effective mitigation strategy for flood prone buildings [62]

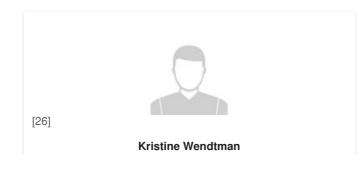


Diversity and inclusion: building strength and capability [63]



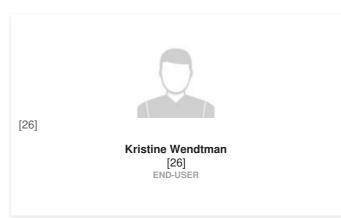


Enabling sustainable emergency volunteering [64]



Out of uniform: building community resilience through non-traditional emergency volunteering [65]





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