In Australia, the National Strategy for Disaster Resilience mandates that emergency management authorities use effective community engagement to develop trust and respect with community members to provide effective, inclusive disaster management practices. Using these principles, researchers from the University of Tasmania reconceptualised the term ‘community’ as a ‘community of practice’ and facilitated a multi-disciplinary workshop giving authorities, managers, planners and responders a forum to meet and collaborate to identify strengths, collective capacities and needs. The workshop was attended by 48 stakeholders dealing with emergencies and identified more than 30 research and 20 training needs as well as potential funding opportunities. This paper discusses the outcomes of an interdisciplinary and cross-sectoral workshop that reconceptualised the term ‘community’ as a ‘community of practice’ and facilitated a multi-disciplinary workshop giving authorities, managers, planners and responders a forum to meet and collaborate to identify strengths, collective capacities and needs. The workshop also identified a fertile area for research and training given the critical mass of interested academics with experience and expertise in natural hazards fields. Attendees identified the latent potential for interdisciplinary, cross-sectoral collaboration and tapped into potential resources that address disaster management needs. This process has the potential to produce similar results nationally by enabling place-based disaster research to be identified by those who need it most.

Background

Tasmania is exposed to an array of hazards including bushfire, flood, severe storm, landslide, tsunami, earthquake, heatwave, coastal inundation and...
pandemic influenza (Tasmanian Government 2016). A reminder of this was the damage and havoc created by flash flooding in Hobart in May 2018 (Australian Broadcasting Commission 2018). Tasmania also has a history of severe bushfire seasons that are faced by many small, and sometimes more isolated, communities. The existing body of research identifies factors influencing how people prepare for, respond to and recover from natural disasters that include age, health, social connectedness and access to services (Cherry et al. 2010, Cutter & Finch 2008, Fernandez et al. 2002, Horney et al. 2012). However, Tasmania faces additional challenges. The population is ageing faster than others in Australian states and territories (Australian Bureau of Statistics 2016) and almost 20 per cent of Tasmanians are over the age of 65 years. Issues of ageing are compounded by social and health indicators that align the state with those of rural and remote Australia (Tasmanian Government 2013). Such statistics have serious implications for natural disaster preparation and recovery, particularly considering that Tasmania has a highly decentralised population (Tasmanian Government 2012).

Community engagement

To deal effectively with issues that could compromise the safety of individuals and communities during a disaster, emergency managers and planners must identify vulnerable populations early. In Australia, agencies are mandated to engage proactively with communities through a process of engagement, described by the National Strategy for Disaster Resilience as ‘... the process of stakeholders working together to build resilience through collaborative action, shared capacity building and development of strong relationships built on mutual trust and respect’ (Commonwealth of Australia 2013, p.2). To this end, community engagement is a vital process to identify community perceptions and concerns and establish effective policies and actions related to disaster risk reduction (Teo et al. 2017, p.38).

Typically, the term ‘community’, when used within emergency management contexts, has meant populations residing in a disaster-prone area. To date, the term ‘community’ has not put the focus on those trying to manage disasters and the resulting effects. This highlights a gap in the processes used to understand what information emergency managers and planners need to improve their capacity and capability to respond. It also highlights that emergency management, which encapsulates planning, organisation, coordination and implementation of measures necessary to prevent, mitigate, respond to, overcome and recover from an emergency (Tasmanian Government 2006) is not a homogenous process. Unique circumstances create unique issues that are often relevant to unique locations. Tasmania is an example.

To address this, a bottom-up, inclusive, community engagement process, typically used when engaging with communities located in exposed and disaster-prone locations, was used to identify the needs of those at the frontline of emergency management. This process is a key component of the National Strategy for Disaster Resilience Community Engagement Framework (Commonwealth of Australia 2013, p.3) that outlines the importance of this approach to achieve community and organisation resilience. The strategy acknowledges the importance of local programs that recognise an agency’s operational requirements. Of equal importance is balancing specialist expertise with community expertise for planning, decision-making, preparation and response and recovery activities. Such processes operate on three fundamental principles:

- an understanding of a community’s capacity, strengths and priorities
- recognising a community’s uniqueness and complexity
- partnering with a community to support existing networks and resources.

The strategy stresses that in order to understand a community’s capacity, strengths and priorities, people involved in the community engagement process must respect and use local knowledge, resources (economic, physical, social and environmental) and tap into existing networks (Commonwealth of Australia 2013, p.4). This must be accompanied by an appreciation and assessment of the risks faced and an understanding of the levels of community awareness and preparedness that exist (Commonwealth of Australia 2013, p.4).

The strategy outlines that effective community engagement must recognise the complexities involved in engaging with a community and recommends engagement activities that consider a community’s unique and diverse characteristics. Actions should be meaningful, inclusive and consider differing perceptions of risk. Plans should be flexible and identify and address barriers, as well as recognise that communities evolve and change over time. Understanding differences in perceptions of risk is important. As such, the strategy acknowledges the importance of considering aspects of age, gender, culture, physical abilities, geographical locations, access to services and social disadvantage within the community (Commonwealth of Australia 2013, p.7). The strategy also highlights the importance of building on existing social capital, developing initiatives that engender local action and partnering with the community, fostering relationships with community leaders and respecting community choices.

Reconceptualising ‘community’

Using the National Strategy for Disaster Resilience community engagement principles, it was clear that such a process was capable of identifying the needs and capacity of any community. The only challenge was to reconceptualise the term ‘community’ to the collective group of individuals, organisations, government departments, not-for-profit organisations and volunteers who are called to action when assistance is needed. Therefore, the ‘community’ within this community...
engagement process, became a ‘community of practice’ with a membership of emergency management organisations, managers, planners, volunteers and responders charged with keeping people, property and environments safe during times of extreme events.

Here, ‘community of practice’ included emergency services personnel, such as the Tasmania Fire Service and the State Emergency Service, local government disaster managers, government representatives from the Tasmanian Department of Health, Tasmania Networks, the Tasmanian Department of Premier and Cabinet, Mineral Resources Tasmania, the Department of State Growth and the Tasmanian Climate Change Office. Representatives from the Red Cross, the Bureau of Meteorology and the CSIRO were also included as were local hydrologists, engineers and academics from the university, representing 14 disciplines with natural disaster interests.

The aim of the community engagement process was to discover the issues faced in relation to emergency services delivery in Tasmania; what was needed to improve service delivery, what collaborations would improve practice, what those collaborations would look like and what role the university could pllay to facilitate these. The workshop allowed quick identification of the priority needs for Tasmania that align with the 2016 Tasmanian State Natural Disaster Risk Assessment (White et al. 2016). The risk assessment report is a place-based risk assessment of Tasmania’s vulnerability to a range of priority natural hazards, including the risks Tasmania specifically faces associated with a changing climate including heatwave and coastal inundation. The report builds understanding and awareness of the natural hazards that have the greatest potential to impact on the state. This will assist Tasmania to be better prepared for, respond to and recover from natural disasters.

The workshop created linkages and opportunities between the university and the community by working together on Tasmanian-focused natural hazard projects and initiatives. The aim is to strengthen the capacity of these ‘communities of practice’ while giving voice to local disaster authorities to guide future natural hazard research initiatives.

The ‘community of practice’

Almost 50 stakeholders attended the workshop held in Hobart in August 2018. Topics included risk assessment, the changing profile of risk caused by changes to the climate, theories of adaptive and resilience capacity of individuals and communities to natural hazards, community engagement strategies and issues related to providing health services in rural settings during a natural hazard event. Group discussions elicited research needs, teaching and training gaps specific to emergency planning as well as funding opportunities.

Participants discussed what they needed to enable them to fulfill their roles, improve their capacities and practices and identified who they needed to collaborate with to achieve goals and instigate positive change.

Within two hours, participants identified 34 research needs, 24 teaching and training needs, and 31 potential funding sources. Interestingly, many of the research and training needs identified were specific to Tasmania, including the state’s demographic challenges, particularly in relation to evacuation, volunteerism and rural health service provision. Gaps between state and local government policy expectations and frontline emergency management capabilities were also of concern, along with the need for hazard modelling and mapping, the mental health of ageing emergency responders and problems associated with Tasmania’s low literacy levels and the effect that has on hazard communication. The training gaps included specific natural hazard training in the current nursing curriculum and the need for courses on land rehabilitation, hydrology, fire management and land-use planning. Participants also called for the development of a Tasmania-focused natural hazard HUB to coordinate research between academics, practitioners and partner networks.

Conversations were rigorous, demonstrating a genuine interest in working together. Attendees had a strong sense of cooperative goodwill, generosity and collegiality. Post-workshop evaluation surveys identified a number of additional research ideas and some projects have entered planning stages. The success of the workshop and energy generated had fed into a collaborative community-based forum on bushfire preparedness in two ageing communities and a natural disaster symposium for academics and external stakeholders undertaking natural hazards research. This will showcase the breadth of research activity on natural hazards being undertaken and foster the continuation of collaboration and information sharing.

Outcomes

The Bushfire and Natural Hazards CRC has undertaken and produced a significant body of work (http://www.bnhcrc.com.au/research/cluster/communications-warnings). To expand on this, the workshop identified research, training and potential funding opportunities specific to Tasmania. This will increase the probability that Tasmania is well-positioned to fill gaps and meet emerging needs in emergency preparedness, response and recovery. Many attendees expressed that the partnership support of the university would increase the capacity of those working in the emergency management field and foster relationships and partnerships that would help the community of practice build the resilience and wellbeing of individuals and communities in Tasmania.

Qualitative researchers understand that complex personal and social problems are best solved by drawing on multiple viewpoints and that those viewpoints are expressed best by people with lived experience (Lapan, Quartzali & Riemer 2001). The methods used to collect those viewpoints form the basis of inclusive community engagement processes used by emergency managers working within communities. It is logical that people working in the field as a community of practice allows
for their unique viewpoints and experiences to be heard and actions identified. Accordingly, research institutions are well-positioned to both inform future research and training and improve the capacity of those in harm’s way, particularly when strengthened by partnerships with those working at the coalface.

Conclusion

The multi-disciplinary, cross-sectoral workshop on natural hazards and disasters identified a fertile area for research and training. Key to the success of the workshop was that it brought together complementary knowledge and skill sets of research teams that included disaster management, geo-spatial mapping, health-impact assessment and community resilience with the wide range of stakeholders planning for, preparing and responding to events when they occur. This community-of-practice process has the potential to produce good results nationally, by enabling place-based disaster research to be identified by those who need it and use it.

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References


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