

# Community experiences before and after flood

**EMPA October Webinar** 

Wednesday 25 October 2023

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#### Overview – webinar content

- → Quick study overview methodology and data
- → Question 'cluster' areas
  - Experience of emergency management
  - Communication methods
  - Information needs before, during, and after
  - Preparedness
  - Most helpful action/advice
  - Reported 'learnings' from flood-impacted residents
- → Additional questions/comments

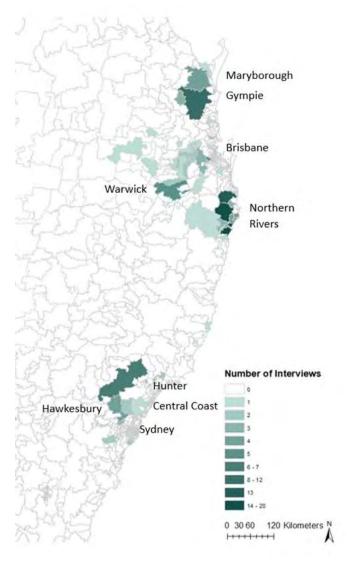


# Methodology

Mixed methods Trauma-informed approach Post-event research



Data – locations, timing, samples



→ Many different flood experiences

- → Interviews
  - 192 interviews
  - 15 Aug 27 Oct '22
- → Online survey
  - 430 responses
  - 24 Nov '22 17 Feb '22
- → Reports
  - policy relevant focus

www.naturalhazards.com.au/floods2022

nmunity experiences of the nuary – July 2022 floods in New Summary Report

The research summarised in this document was conducted by:

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Harriet Narwal,' Madeleine Miller,' Dipika Dabas' and Helga Simon'

1. Discipline of Geography and Planning Many and

Discipline of Geography and Planning, Macquarie School of Social Sciences, Macquarie University, NSW. 2. School of Advertising, Marketing, and Public Relations, Queensland University of Technology, QLD. 3. School of Humanities and Communication, University of Southern Queensland, QLD. 4. School of Mathematics, Physics, and Computing, University of Southern Queensland, QLD.

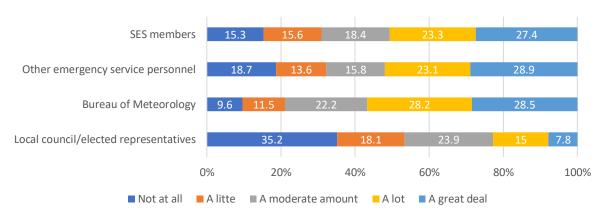




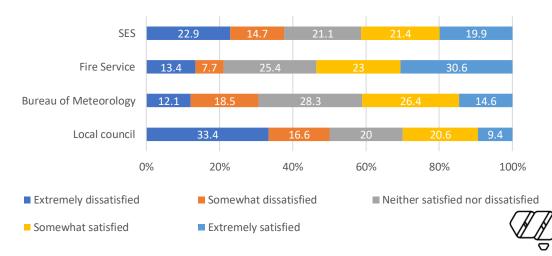
#### Experiences of emergency management

- → Highly varied / mixed
- → Dependent on..
  - → Flood experience/s
  - → Location
  - → Timing (response/recovery)
- → Indicators 'Trust' and 'Satisfaction'
  - → Trust lower with Damage to home/land (all)
  - → Satisfaction lower with Damage to home/land (all), and Impact to home (SES/BOM)

#### Trust – for help in understanding extent and location of flooding



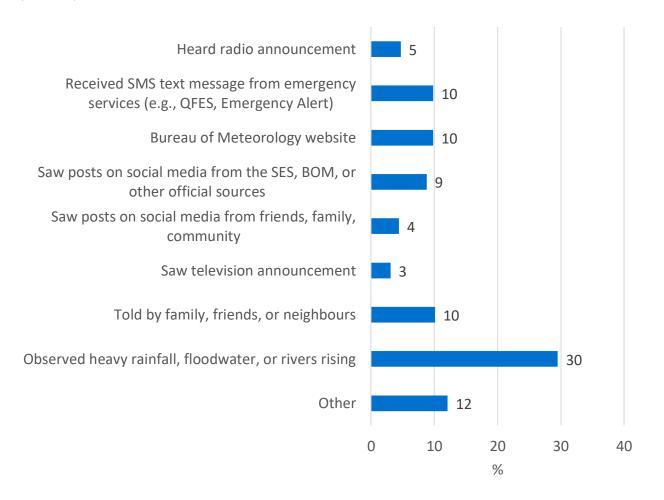
#### Satisfaction with support received





### Alerting - early warning

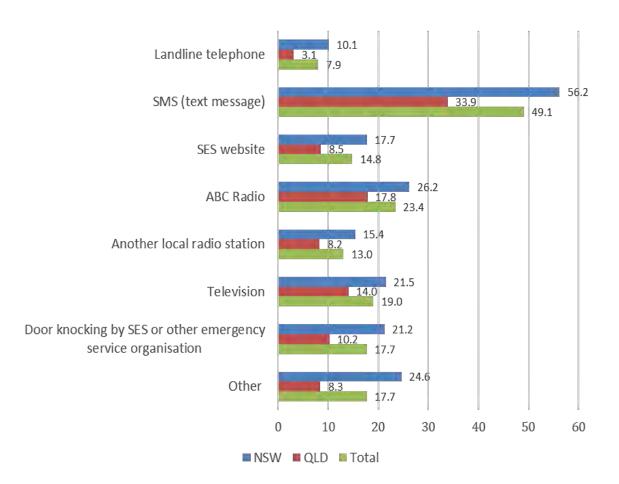
How did you first find out that your town or suburb was likely to experience flooding? (single response)





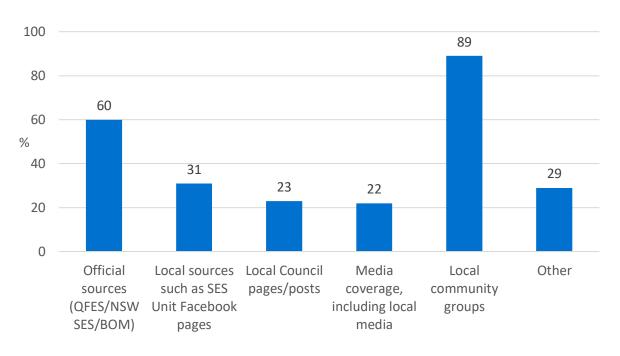
#### How were warnings received?

Routes through which official SES warnings were received (Multiple responses permitted)



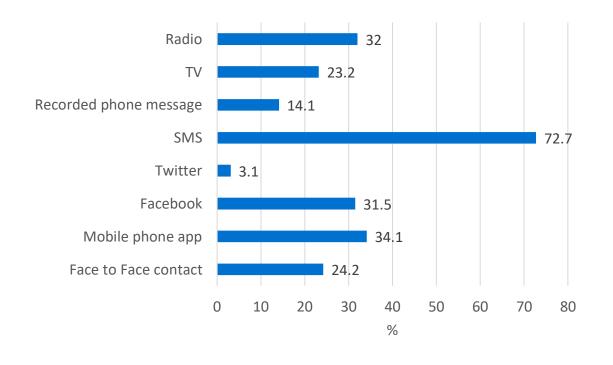
#### What about social media?

What were the most useful sources of information on social media?

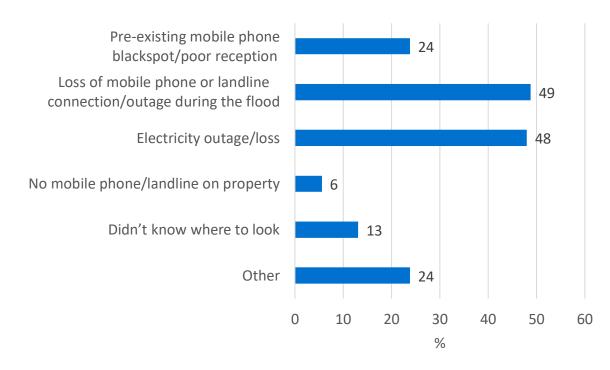




#### How do residents want to receive future warnings?



#### Challenges...

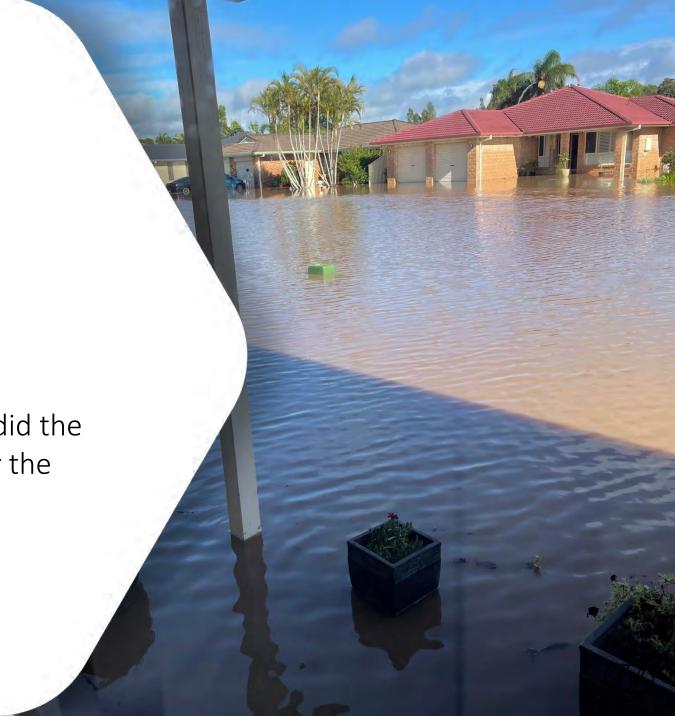








What priority information requirements did the community have before, during and after the floods?



#### Priority information needs - 'before'

- → Awareness and understanding of flood risk
  - → lower awareness (likelihood of flooding to property) not flooded previously, renters, no flood insurance
- → Frustration at lack of
  - → accurate/current flood data
  - → easy-to-find local data
  - → information for new residents buyers, renters
- → Confusion / lack of understanding
  - → translation of 'data' to personal context
  - → flood terminology

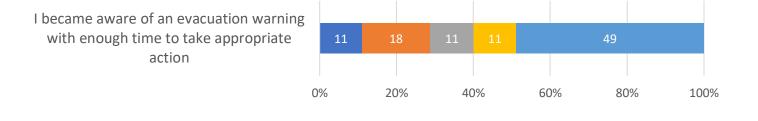


Flood level markers on Aza Motel, Lismore. Photo: Andy Gough



### Priority information needs – 'during'

- → High expectations
  - → Hyper-localised, relevant, timely information



■ Strongly agree ■ Somewhat agree ■ Neither agree nor disagree ■ Somewhat disagree ■ Strongly disagree

- → Real-time information for monitoring and decision-making
  - → Traffic/bridge/river cameras
  - → Local social media
  - → Assisting decisions about leaving / groundtruthing official and unofficial information



Transport NSW – Windsor bridge camera (Freeman's Reach side) March 2022 - 2<sup>nd</sup> 5.32pm; 3<sup>rd</sup> 2.21am; and 8.29am. Source: Daily Mail



#### Priority information needs — 'after'

- → Clean-up advice, recovery support, insurance
  - → Shock and trauma
- → Clean-up
  - → What can be saved, timing of removals
- → Recovery support
  - → How/what to claim, connectivity and documentation issues post-flood
- → Insurance
  - → What evidence documenting losses, taking timely action (delays)







## Preparedness

What insights are there for preparedness?

What did the community do?

What was the outcome of preparedness actions

/did preparedness help?

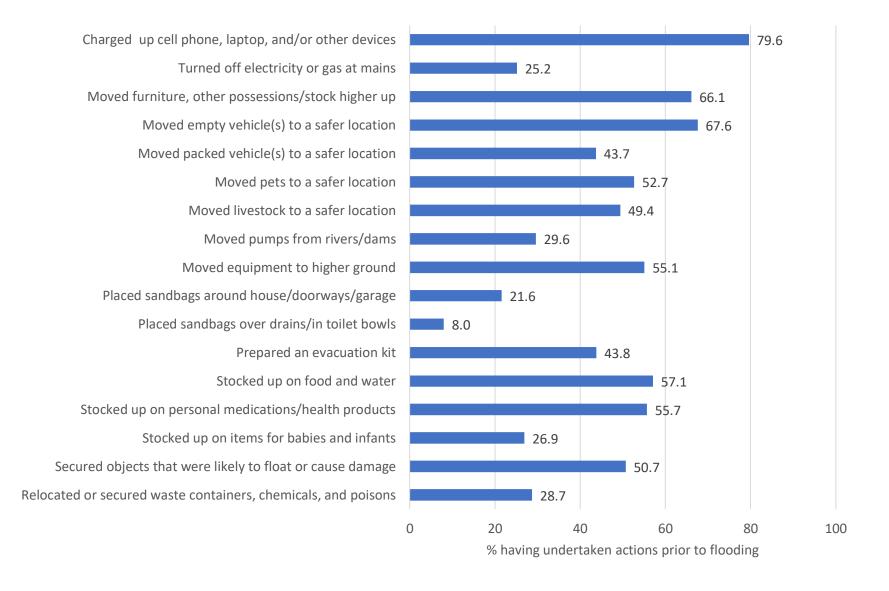
How useful was the preparedness information

they had?

What would people do differently?



### What did people do?

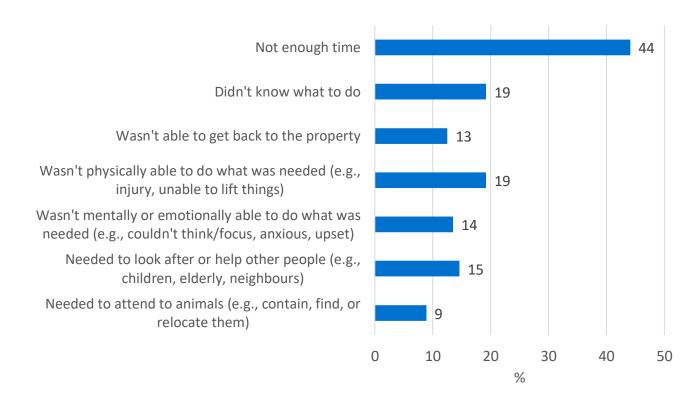




#### Preparedness insights

- → 31% felt they had done everything they could do to prepare
- → Higher preparedness
  - → Prior flood experience
  - → More time to take action before the flood

Reasons for not being as prepared as you could be?

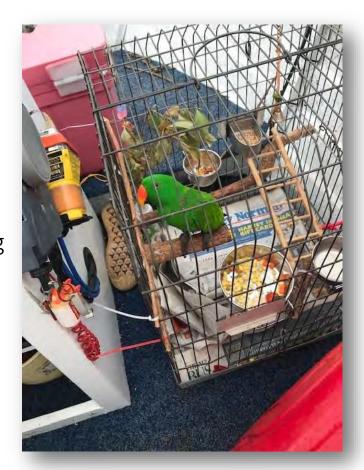


- → 5% provided 'other' reasons for not being prepared
  - → Underestimated risks didn't feel they needed to prepare; lacked awareness of flooding; health/infirmity/strength issues; reassurances from others.



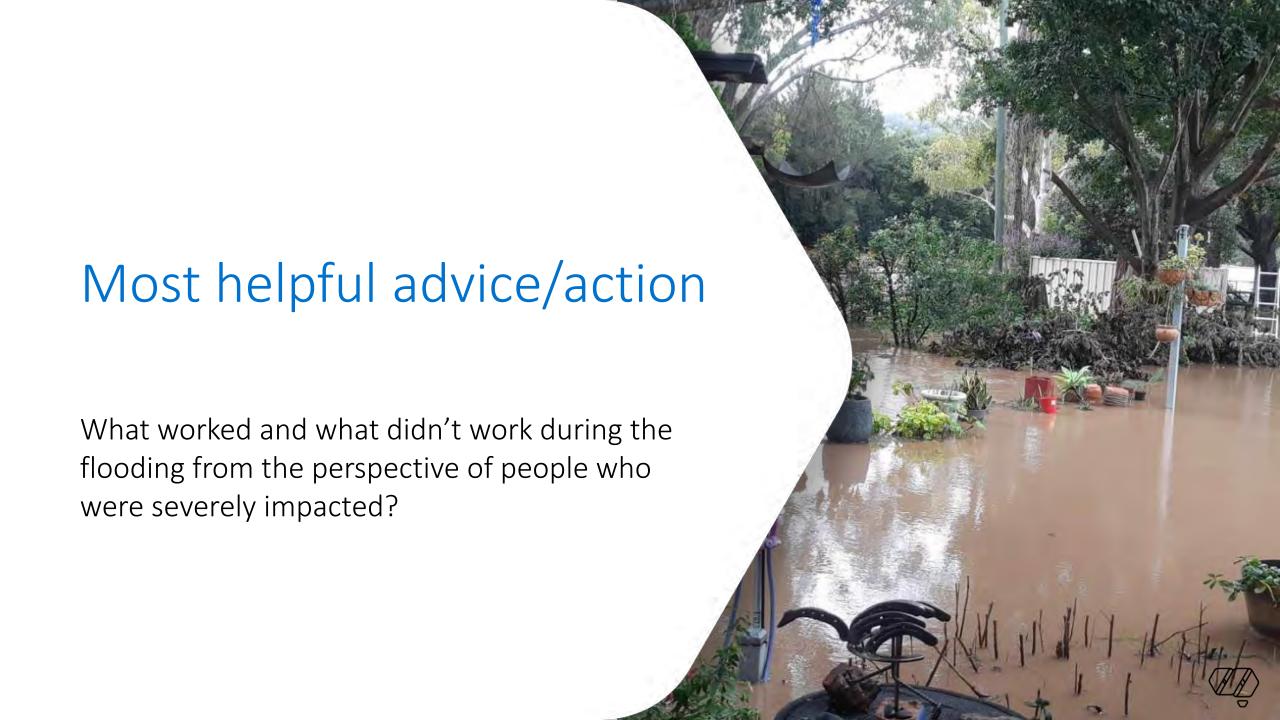
# Usefulness of information and what people would do differently (preparedness)

- → BE MORE PREPARED!!!!
- → What would we do differently?
  - → Act sooner moving things at the floodwaters are rising
  - → Get out early / leave sooner being trapped/frightened, distressing experiences
  - → Avoid unsafe acts late evacuations typically
  - → Fill up the car (with stuff) before moving it to higher ground
  - → Save the useful stuff not the expensive stuff think about 'after'
  - → Move/save animals especially horses
  - → Train dog to pee on artificial turf!











- → Highly varied / mixed and dependent on flood experience/s
- → What didn't work...
  - → Official response / rescue / communications / technology
  - → Prior experience/expectations/comparisons of flood severity, water behaviour, timings
  - → Storm drains (and other infrastructure) physical structures impacting floodwater
- → What worked...
  - → Community early warning, advice during, local information, alerting others, rescue, reassurance
  - → Local networks phone trees/UHF radios, community resilience teams, tech/flood savvy groups, personal connections with official agencies/personnel
  - → Prior experience preparedness, engagement, structural modifications (e.g., earthworks, drainage, planting, hoists, lift off hinges)
  - → Jet skis and boats for evacuation/riding out flood
  - → Sheltering in place (79% reported it was the best decision!)





What were the things people wished they knew before, that they know now, that could have lessened or avoided their resulting situation?



## Learnings/advice to others

- → BE MORE PREPARED (already covered)
  - → Accept help (charity, support)
  - → Be persistent
  - → Have skills/trades that you can swap with others
  - → Think differently about self, possessions
  - → Take your time (clean up)
  - → Make your home/business flood resilient



# Additional questions / comments

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Please complete





Please complete our quick research knowledge and translation survey

## USEFUL, USEABLE, USED

