



The NSSN Smart Sensing for Flooding Co-design Workshop

23 August 2022, Western Sydney

The NSW Smart Sensing Network (NSSN) is hosting a co-design workshop in response to the recent devastating floods in NSW. Representatives from government, universities, industry and the broader community will collaborate to devise innovative ideas to inform new approaches to flood management.

Background

In March 2022, the NSW Government commissioned an independent expert inquiry into the preparation for, causes of, response to and recovery from the 2022 catastrophic flood event across the state of NSW. Professor Mary O’Kane AC and Michael Fuller APM have been engaged to lead the Inquiry.

The Terms of Reference for the Inquiry are wide-ranging and include climate change impacts, agency planning, response and recovery processes. The Inquiry will result in appropriate recommendations and it is anticipated that science, technology and engineering will play a key role in the response.

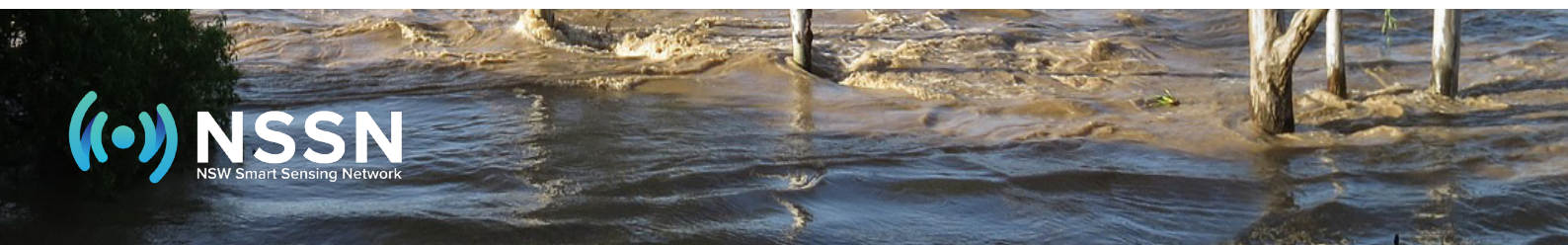
The NSSN has previously brought together the state’s brightest and boldest minds to address COVID-19, droughts, ageing, bushfires and other great challenges of our time. With this workshop, the NSSN will facilitate collaboration between diverse stakeholders to devise innovative smart sensing solutions to the challenge of flooding.

Flooding and smart sensing

The NSSN sees an opportunity for smart sensing to be the cornerstone of a new era of flood management and response. Emerging technologies in this space will allow for enhanced prediction and monitoring at a higher resolution and larger spatial scale, allowing for more informed planning, policy creation, resourcing and response from various stakeholders

Our preliminary review has shown there are significant gaps in prediction, detection and timely response of emergency services in relation to floods. This is especially true in the event of flash flooding where the greatest damage to property and human life occurs.

Better outcomes can be achieved through stakeholder insights and user needs to best understand current monitoring methods, gaps in knowledge, and bottlenecks to implementation of new technologies and frameworks.



Outcomes

The workshop will aim to achieve the following outcomes:

- Contribution to the 2022 Flood Inquiry with regards smart sensing and related science and technology
- Collaborative research projects around the themes of sensing, data and flooding
- Networking between university, government, industry and community participants

Draft Agenda

10:00	Session 1	Welcome and keynote presentations
11:30	Session 2	Panel discussion: Sensing for preparation, response and recovery
12:30	Lunch	
13:30	Session 3	Co-design working sessions
14:15	Session 4	Synthesis and wrap-up
14:45	Close	

Who should attend

Representatives from the following agencies and organisations are invited to attend:

- Bureau of Meteorology
- NSW Government agencies including NSW DPE & Resilience NSW
- Local councils
- Emergency services agencies including SES, RFS, Fire & Rescue
- Water utilities including Sydney Water, Hunter Water, Water NSW etc
- Universities including researchers in smart sensing and data analytics fields
- Geoscience Australia
- CSIRO and other PFRAAs
- Insurers
- Companies providing data, mapping and analytic services
- Materials, equipment and sensor suppliers

Registration

Register to attend on the [event page](#).

Contact [Tomonori Hu](#) on 0478 091 214 if you are interested in leading a panel discussion or co-design working group, or you have a specific enquiry.



Chief Scientist
& Engineer

