



Modelling Group  
WATER NEW ZEALAND

# Modelling Symposium

**Modelling for an uncertain future**

15 - 16 March 2023 | Te Whanganui-a-Tara

## Workshops

This year the Modelling Group are pleased to bring two workshops.

### **National Urban Stormwater Modelling Guide**

A collaborative approach to ensure the stormwater modelling guide developed is informed, owned and understood by the industry.

To ensure we have collated and understand;

- Existing urban flood modelling approaches each region of New Zealand to determine:
  - Where common approaches apply across New Zealand
  - Where discrepancies exist
  - Strengths and weaknesses of the various approaches in use
  - Identification of the gap to overcome to arrive at a consistent national approach.
- Potential future work packages to harmonise existing approaches.

### Liaison:



**Nicci Wood, Technical Advisor – Water New Zealand**

Nicci has over 20 years' experience in providing technical advice on national, regional and local infrastructure-related planning, strategy and policy across public infrastructure. She has helped organisations to develop clear and compelling strategies; including Kāpiti Coast District Council's 30-year infrastructure Strategy, Hauraki District Council 50year Wastewater Strategy and KiwiRail's Yards Improvements Investment Framework. For the past few years Nicci has been involved in Three Waters Reforms, advocating for and advising governance and decision-makers on Three Waters Reforms, and other infrastructure related matters. Prior to joining Water NZ she was the LGNZ Climate Programme Lead, developing a local government sector climate change programme and advocating to central government for more ambitious National Adaptation and Emissions Reduction plans and worked with the sector on matters such as Managing Forestry under the NZ ETS





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National Stormwater Modelling Guide Project Director



**Rathika Jebamony, AWA**

Rathika is the regional Modelling Lead for Awa overseeing a team of hydraulic modellers in Auckland and Wellington. She is an experienced stormwater and wastewater hydraulic modelling specialist, managing and delivering modelling projects to Awa's key clients throughout New Zealand. Rathika has been involved with a wide range of projects for local authorities, land developers and other engineering consultants over the years, managing and delivering projects as well as being involved with technical investigations. Prior to joining Awa Rathika spent 15 years working at DHI developing content and providing modelling training and software support to New Zealand and Australian.

Project Manager and Lead Author



**Michael Arthur, Metis**

With more than 20 years of New Zealand and UK industry experience, Michael has gained a wide range of knowledge in project management, environmental engineering, flood management, hydraulic modelling, stormwater, hydrology and sustainable drainage design. He has led hydraulic modelling studies and programmes including development and implementation of stormwater flood modelling guidance in New Zealand and the UK. Michael created the Metis modelling team in 2015 and has led them to deliver detailed urban stormwater models across the UK for flood mapping, land development and infrastructure planning applications. More recently, he led two a programmes of detailed stormwater modelling studies as part of the national Surface Water Management Action Plan.





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## Workshop

### Rain Radar Data for Modelling

Sharing information about rain radar technology and how this dataset can be used for wastewater and stormwater modelling.

Identify opportunities and limitations related to rain radar in the modelling sector.

### Facilitators:



**Nasrine Tomasi, Technical Director – Smart water (Mott MacDonald)**

Nasrine is currently acting as Moata's Smart Water Product Lead in Mott MacDonald's Digital Venture team where she drives innovation and digital delivery through water projects.



**Luke Sutherland-Stacey, Weather Radar New Zealand Director (PhD)**

Luke is an expert in in-situ and remote sensing techniques and works actively in the interdisciplinary space bridging the gap between research and applications.

