Collaborating to share water modelling and monitoring information in NSW

NSW Modelling and Monitoring Hub (MaMH)

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Director, NSW Government’s Manly Hydraulics Laboratory

The NSW Modelling and Monitoring Hub (MaMH)
A NSW Government initiative

Needs

- Populations along ambulatory shores
- Significant spatial & temporal variability
- Reliance on trustworthy, accessible & cost effective information (data/models) that is evidence-based & scientifically defensible
- Growing demand and volumes of information
  ➔Data Explosion

Collaboration across government

- Sharing knowledge, capabilities & lessons
  ➔ state-wide benefits beyond indiv. agencies

NSW MaMH commenced June 2018

To develop, capture & disseminate specialist water modelling and monitoring information between state agencies and SOCs

Official opening in Sep 2018

Who is the MaMH?

2018-19 members

1. NSW Department of Industry, Lands and Water*
2. Manly Hydraulics Laboratory*- holds Chair and Secretariat roles
3. Office of Environment and Heritage*
4. Office of Local Government*
5. Sydney Water
6. WaterNSW

* From 1 July 2019 – Department of Planning, Industry and Environment

Future membership expected to include Commonwealth & local government, other water utilities, universities, industry and other "non-interested" parties (decision makers)

Already strong collaboration with many, including QWMN

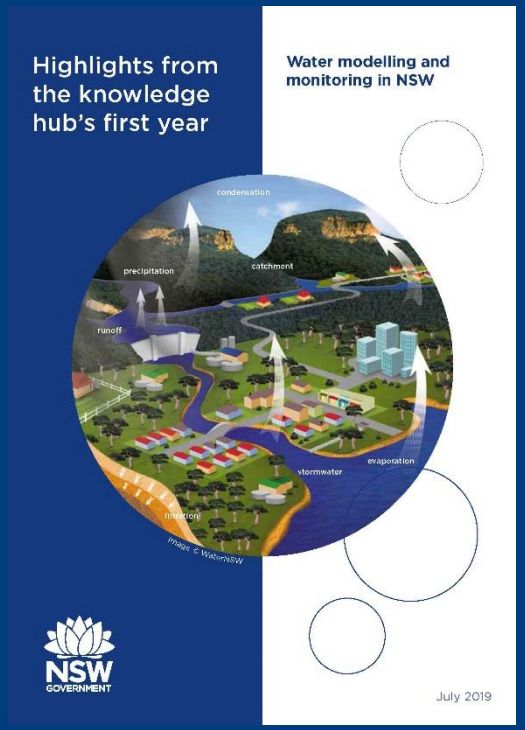
Year 1 - Foundational projects & findings

1. **NSW water monitoring information inventory**
   - Snapshot
   - Collaboration - opportunities & hurdles
   - Collaboration tool assessment framework

2. **An overview of water modelling in NSW**
   - Snapshot
   - Models – types, applications & capabilities
   - Collaboration systems and metadata

50/150 surveyed organisation:

→ 98% of data, 2.2M location (88%, 24,000 excluding water meters)
→ 2,400 water model applications (50% updated < 5yrs; 30% shareable - with metadata)
→ Diverse range of purposes, capabilities and systems
→ Low discoverability - NO single information source
→ 80% recognised value in improved collaboration
→ 65% unaware of existing platforms
→ Resources/funding & lacking metadata standards ← BiGgest Obstacles
→ Existing platforms (SEED, Spatial Collaboration Portal & NSW Flood Data Portal)

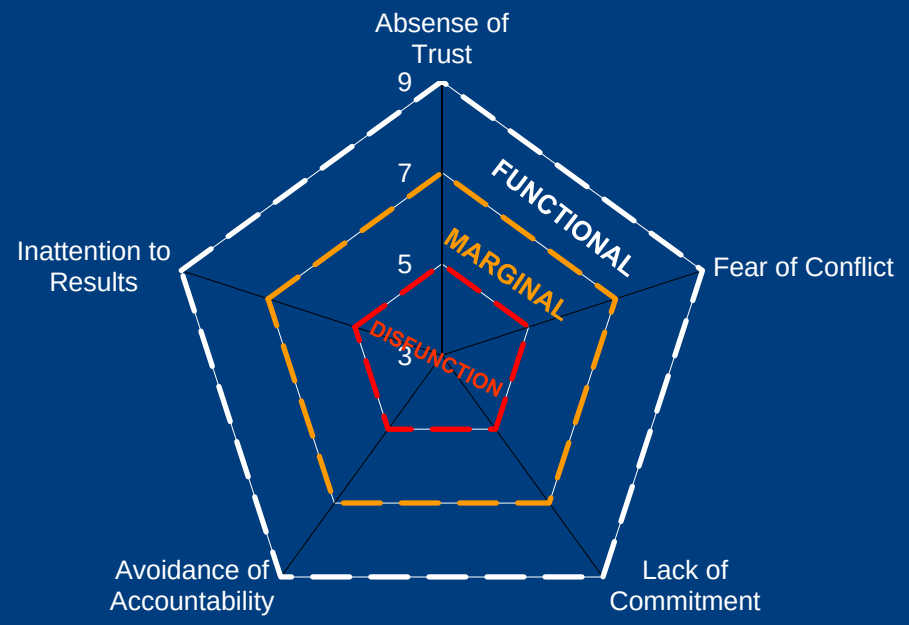


Think big, start small, act fast

Collaboration happens with people

Using Patrick Lencioni's (2002) model for high performing teams

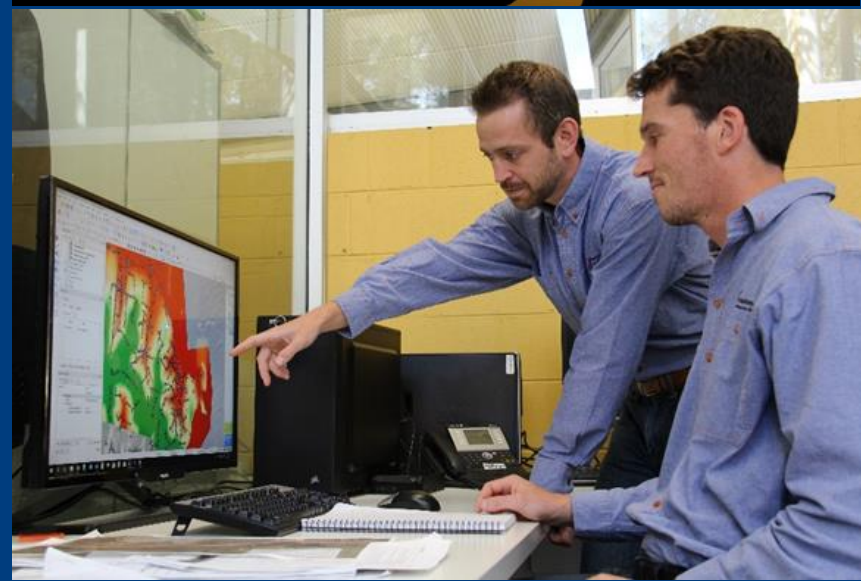
➔ Where Results = maximising public value



using Patrick Lencioni's 5 dysfunctions of a team

MaMH Collaboration Mechanisms

	To build:
Working Group – ¼ly meet, share activities/collaboration opportunities & rank Special Projects / resources	Trust & Commitment
ToR – shared purpose & values (WoG perspective, cooperation/teamwork, open communications; & transparency, fairness & integrity)	Accountability **Trust**
MDA – joint understanding: Open, Shared & Private information ➔ safe/collaborative environment	Conflict Resolution
Funding – initially annual subscription for Special Projects, Secretariat & info sharing Annual Forum	Commitment
Special projects & ranking – public benefits, inter-agency benefits, existing & developed capability, risk management & deliverability (scope)	Accountability Trust Results
Information sharing – WG meetings, Forum, web, Reports, presentations, intra/inter-state collaborations, integrated SP delivery teams, cohabitation, MDA/Values	Results



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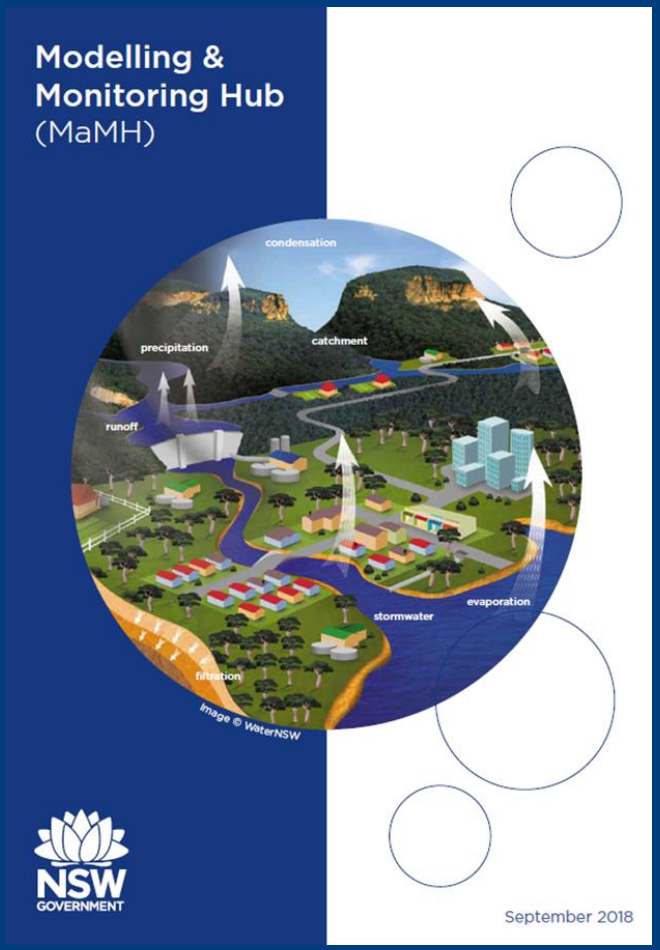
Opportunities & Challenges

- Gov direction/community expectations… Open Data
- Existing platforms capable (open/shared)
- Need to act now (willingness, ⬀ demand, ⇧ volume)

Specialists also need to become more involved in key drivers for decision making

– **it is not all technically based**



Check out the flyer(s)
www.mamh.nsw.gov.au

Think big, start small, act fast

Discussion

Thinking BIG,
starting small
and acting *fast*

Thank you

Image adapted from © WaterNSW

Working together

Sharing knowhow

Maximising public value

For more information

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