Minutes

Meeting of:	Smart Water Infrastructure Group AGM
Date and Time:	Thursday, 8th December 2022, 830am
Venue:	Via Zoom

Present:

- Rachael Casey (Chair)
- Andy Gaul (committee)
- Bruce Franks (committee)
- Chris Miller (committee)
- David Wyllie (committee)
- Nasrine Tomasi (committee)
- Iain Partington (committee)
- Michael Howden (committee)
- Noel Roberts & Katrina Guy, Water New Zealand
- Greg Preston, University of Canterbury
- Nicolette Voskulien, Water Outlook
- Robert can Bentum, Ministry of Education
- Deborah Body, John Coates & Rachel Perkins, Dunedin City Council
- Theresa Wells, GHD

Apologies:

- Hugh Blake-Manson (committee)
- Lesley Smith (Water New Zealand)
- Mark Homenuke (committee)
- Eric Skowron, ProjectMax

1.	**Karakia – Michael Howden welcomed everyone with a Karakia**

Whakataka te hau ki te uru   Cease the winds from the West
Whakataka te hau ki te tonga   Cease the winds from the south
Kia mākinakina ki uta   Let the breezes blow over the
Kia mātaratara ki tai   land
E hī ake ana te atākura   Let the breeze flow over the
he tio, he huka, he hau hū   ocean
Tihei Mauri Ora!   Let the red tipped dawn
                             come with a sharpened air
                             A touch of frost, a promise of a
                             day!
                             Sneeze, the breath of life!

Rachael welcomed everyone and shared the groups mission statement and purpose.

Mission Statement
To share our collective knowledge and experiences of digital and smart water initiatives and solutions, collaborate together and strive towards standards and consistent approaches to enhance the water sector. Digital and Smart Water initiatives and solutions use data to improve water services. Examples include:

- Automation
- SCADA
- Data management
- Data analysis
- BIM

- AI / machine learning
- Statistical models
- Real-time models
- Digital twins
- IoT / Smart meters

Purpose
Information Sharing – provide forums for sharing collective knowledge and experiences to increase the awareness of digital and smart water initiatives and solutions.
Collaboration – Identify and support opportunities to collaborate on digital sand smart water initiatives to be more effective and efficient.
Standards – Support the development and propagation of digital and smart water standards and consistent approaches to improve data sharing and increase digital maturity across the water sector.
Capacity Development - Identify key competencies and improving access to relevant training to increase the capacity of the water sector to adopt digital and smart water initiatives and solutions.

	Support Water New Zealand – Support Water New Zealand with expert advice as required. Rachel thanked Katrina Guy for all the administration support that she gives to the group.

2.	☺ **Previous minutes and actions** *(agm minutes from previous year were not reviewed)*
	☺ Rachael gave a brief run-down of what the committee had discussed in previous committee meetings
	☺ Discussion of potential 2023 workplan
	    o AGM 2023 to be held at the Water NZ Conference in-person along with workshop
	    o Look at being more practical and providing ways of solving problems
	    o Work more closely / collaborate with other SIGs
	    o Use the Smart Water Vision as a base for the 2023 workplan
	☺ Next steps with the 'Smart Water Vision' formed from the Water NZ Conference Workshop in Christchurch
	    o Journal article for Water NZ journal, including case studies
	    o Hybrid session looking at NZ case studies

3.	**Chairs Report** Rachael covered off on what was completed in the 2022 workplan. Our first webinar, Smart Water Metering Solutions: It's not just the meter, was a collaborative webinar with WECAN (Water Efficiency & Conservation Networks Group). Christine McCormack (WECAN Chair) and Bruce Franks. In June we held Perspectives on Data – A Water Break to the Regulator webinar. This webinar involved several committee members including Andy Gaul from Nelmac from an operational point of view, the data services from Wate Outlook and all the way through talking about water data ecosystem framework. A case studies webinar with an eye for the smart metering. This webinar was more of a real-life example in terms of water quality integration. Hugh Blake-Mason and Bruce Franks hosted this webinar with guest speakers from Christchurch City Councils Smart Water programme and Dunedin City Council – Ports of Otago water meter program. Our workshop at the Water New Zealand Conference & Expo 2022 in Christchurch, this was a transformation piece, and all the committee was involved in this and

looking at the asset planning cycle, and what might digital transformation look like. It's really starting to make people think further into the future, rather than just the transition that's happening now. What could it look like, in 5-10 years from now? What do we want it to look like? And with that it's about growing the community of practice in the area, get people in the room together, get them talking and create those connections. The illustration will form our ongoing workplan.

An area that we do need to improve on is our communications. We have had LinkedIn posts via our LinkedIn page and the Water New Zealand page, especially around the workshop. If you wish to put some energy into this, please do put your hand up.

4.	**Committee**

The current committee is made up of

- Rachael Casey (Chair)
- Mark Homenuke
- Nasrine Tomasi
- Andy Gaul
- Chris Miller
- Joe Xie

- Hugh Blake-Manson (Deputy Chair)
- Michael Howden
- Bruce Franks
- Iain Partington
- David Wyllie

Standing Down

The following members are standing down and Rachael thanked them for the commitment to the committee. And we hope to see you joining in any future events and being able to share any insights to help move this SIG along.

- Mark Homenuke
- Joe Xie

- Iain Partington

Election of New Committee

The following people have been elected to the new committee and Rachael asked the ones that could make it to introduce themselves.

With so many people wishing to join the committee we will be looking at our terms of reference in coming year to set a maximum number.

- Marc Sneddon – Spiral Data Group
- Quentin Griffiths – Lutra
- Nicolette Voskuilen – Water Outlook Ltd
    - Currently a data analyst at Water Outlook after working at Watercare as a Water Quality Scientist.
    - Recently completed a thesis on data quality systems for regulatory compliance.
    - Looking at bringing some new ideas to the group
- Henrietta Willis – Western Bay District Council
- Greg Preston – University of Canterbury
    - Manages the Building Innovation Partnership at the University of Canterbury.
    - They have a research theme in three waters decision making in three waters
    - Now starting to build a pipe failure database across the country
    - Also work closely with Auckland University
    - Reason for joining the committee to try and help drive the transformation agenda for Water New Zealand
- Eric Skowron – ProjectMax
- Robert van Bentrum – Ministry of Education
    - Robert is the three waters advisor for the Ministry of Education. All the issues around water services for schools' land in Robert's area.
    - 30+ years as chartered professional engineer with lots of experience in three waters.
    - Joining the committee is MoE has a large number of water supplies, which are registered or are themselves water supplies over 450. MoE is looking at rolling out a national program to put in place smart water meters as many schools don't know what the opportunities are around water management because they don't have any information. Robert is interested in joining the committee both as an advocate for the smaller suppliers and small and customers who are the potential recipients of council, water metering data. But also to learn a bit about where the market is going.

It was put forward to the current committee that all nominees be accepted to the new committee
- Second – Andy Gaul

	① Passed unanimously ① It was agreed that Rachael would stay as chair for the coming year. **New committee** | First Name	Last Name	Company name
Bruce	Franks	Arthur D Riley & Co Ltd
Christopher	Miller	Hynds Limited
Quentin	Griffiths	Lutra Limited
Nasrine	Tomasi	Mott MacDonald NZ Ltd
Andy	Gaul	Nelmac Limited
Eric	Skowron	ProjectMax Ltd
Michael	Howden	Taumata Arowai
David	Wyllie	Tonkin + Taylor Ltd
Greg	Preston	University of Canterbury
Rachael	Casey	Waipa District Council
Nicolette	Voskuilen	WaterOutlook Limited
Hugh	Blake-Manson	Waugh Infrastructure Management Ltd
Henrietta	Willis	Western Bay of Plenty District Council
Marc	Sneddon	Spiral Data Group
Robert	van Bentum	Ministry of Education	 **Support by Water New Zealand staff** ① Noel Roberts ① Lesley Smith ① Katrina Guy
5.	**Smart Water Vision** The illustration can be found [here](#) Michael gave a synopsis of the recent workshop held at the Water New Zealand Conference & Expo 2022, in Christchurch. This workshop was interactive and had about 45 delegates. Presentations from Lesley Smith, Water New Zealand, on the National Performance Review David Wyllie from Tonkin + Taylor gave a summary of 30 years of asset management planning, asset management planning cycles in the UK. It is really important to look to the past, and to look to how it's been done elsewhere. Then Lorraine Kendrick, head of NTU's Asset Management Operations, Stormwater workstream (AMOS) gave an update of what they're up to as well around integrated asset management planning across their water services entities.

	The interactive sessions where we looked at what were our aspirations of digital transformation with asset management planning and what might our future vision for digital transformation look like.

We surveyed the delegates that attended the workshop and asked for additional feedback on what might be missing from the picture and where to from here. Some of the ideas we had, what might be a single galvanizing statement of intent, maybe a vision statement that we can all come under. Where did digital twins fit into this? two resounding themes, which a sort of at odds with each other, the importance of people, but also the importance of standardisation. | |
| **6.** | **Potential Workplan for 2023**

This will run from January to December 2023
- Our focus for 2023 is to demonstrate, with NZ examples how data can be captured, prepared and utilised to support sound asset management practice.
- Each agree event to be lead a member of the SWIG over the year (no back seat drivers)
- Rachael/Committee to confirm lead person | |

Month	What	Who – Resources
Jan	Nil	
February

Date: | White paper: Smart Water – Transformation Vision | Event type: Working party

Lead: Michael Howden

Focus on future strategic requirements to set the right pathway now |
| March

Date: | The Right Data for Asset Management | Event: Online and in person

Lead: Coordinator & (lead by centre) + NTU Amos and Taumata Arowai |
| April | National Environmental Performance Measures or NPR? | Event Type: Workshop |

	Date:		Lead: Lesley Smith, Water New Zealand *What is required by Three Waters asset owners, when and submission (where) etc*
	May	Economic Regulation – The place of metering	Event Type: Wellington (in person) Lead: Water NZ and ComCom
	June Date:	Business Innovation Partnership – Collaboration	Event type: Online Lead: Rachael Casey and Greg Preston
	July Date:	Smart Metering – Developments	Event type: Online Lead: Chris Miller and Bruce Franks
	August Date:	Data quality for regulatory compliance	Event type: Online Lead: Nicolette Voskuilen *Key learnings and takeaways from thesis applied to New Zealand's environment*
	September	Nil	
	October Date:	Water New Zealand Conference – Wellington	Event type: AGM Lead: Rachael Casey Event type: Workshop Lead:

			Perhaps a revisit of water vision
	November	Nil	
	December Date:	Action Plan – from 2023 Conference	Event type: Workshop (VC) Lead: Rachael Casey (SWIG Chair)
	Other things to consider 🖥 IoT 🖥 Artificial Intelligence 🖥 From the customers perspective. How do they receive and consume information		
7.	AOB 🖥 Robert requested that we add wastewater to our charter		

Meeting closed 930am