

## WEDNESDAY 10 MAY 2023

0800	Registration opens: Hall M Foyer					
<b>OPTIONAL WORKSHOPS:</b> Please confirm your attendance when registering. Limited places are available for most workshops and there are no additional fees to attend.						
0900	0900 - 1330 <b>Riverside Rooms 2-3</b>  Space and Geospatial Workshop	1000 – 1300 <b>Room L3</b> Young Professional, Student and Early Career Researcher Professional Development Workshop		1000 – 1100 <b>City Room 2</b>  Geospatial Data Validation and Correction Hub – GDV Hub  <i>Andrej Mocicka, 1 Spatial</i>	1000 – 1130 <b>City Room 3</b>  Victoria's Digital Cadastre Modernisation Project - The Lessons Learnt So Far  <i>Mark Grant, Department of Transport &amp; Planning</i>	
1000			1100 – 1300 <b>City Room 1</b>  Application of unsupervised, supervised, and anomaly detection-based machine learning techniques to hyperspectral imagery  <i>L3Harris Geospatial, Broomfield, CO — Solutions Engineer</i>	1130 – 1300 <b>City Room 2</b>  FME Accelerator: Learn the basics of FME in 90mins  <i>Darren Fergus, Locus</i>	1200 – 1330 <b>City Room 3</b>  Application of Digital Twin for Urban Planning and Land Administration  <i>Dr Soheil Sabri, Dr Benny Chen &amp; Dr Davood Shojaei, University of Melbourne</i>	1100 – 1300 <b>City Room 4</b>  Economic Value of Data - "How do you value data?" <i>Christopher Blackstock - FrontierSI, Dr Zaffar Mohamed-Ghousse - Woolpert, Alan Smart - ACIL Allen Consulting</i>
1100						
1130						
1200						
1300	Locate exhibition opens, 'Onneer coffee cart' & lunch					
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1400		1400 – 1700 <b>Room L3</b> Locate Symposium	1400 – 1700 <b>City Room 1</b>  New architecture approaches for Geospatial information/data furthering access and use to an ever-increasing number of industry sectors  <i>Rob Atkinson – Open Geospatial Consortium, Kate Williams - FrontierSI</i>	1400 - 1700 <b>City Room 2</b>  Digital Transformation Workshop - A review of factors to consider for deployment and facilitated discussion of challenges and best practices  <i>Colin Hobson, Johan Nel, Zane Tronson, Open Spatial</i>	1400 – 1700 <b>City Room 3</b>  Collaboration to build the workforce of tomorrow  <i>Danika Bakalich, Connection Point Consulting &amp; Roshni Sharma, Project Manager and Analyst, FrontierSI</i>	1400 – 1500 <b>City Room 4</b>  Turn your location-based ideas into action with APIS workshop  <i>Esther van Praag, Geoscape</i>
1530			1530 – 1700 <b>City Room 4</b>  Geospatial AI: Unleashing the Power of 3D Land Cover across Australia  <i>Daniel Kruimel, Woolpert</i>			
1700	Welcome reception & Geospatial Council of Australia Launch: Halls MNO, Locate23 exhibition					

THURSDAY 11 MAY 2023

OPENING CEREMONY & PLENARY SESSION: HALL L

0730	Registration opens: Hall M Foyer
0815	Exhibition and 'Onneer coffee cart' open
0850	Opening Ceremony and Welcome to Country
0940	<b>INDUSTRY INTERSECTIONS</b>
0940	Where in Space? <i>Enrico Palermo, Head of the Australian Space Agency</i>
0950	What is the connection and how do we improve it? Moderator: <i>Prof Alan Duffy, Professor and Pro Vice Chancellor Flagship Initiatives at Swinburne</i> Panellists: Land: <i>Bradley Slape, Surveyor General of SA</i> Sea: <i>Jennifer Brindle, Hydrographic Surveyor, Precision Hydrographic Services</i> Stars: <i>Enrico Palermo, Head of the Australian Space Agency</i> Industry Intersections: <i>Melissa Harris, Chair of The Australia and New Zealand Land Information Council (ANZLIC)</i>
1030	<b>MORNING TEA: HALLS MNO</b>
	<b>TECH TALKS &amp; CASE STUDIES: EXHIBITION THEATRETTE, HALLS MNO</b> <b>Chair: James Leech, Map Gear</b>
1040 – 1050	The evolution of survey data capture management for surveyors <i>Graham Wirth, 12d Solutions Pty Ltd</i>
1050 – 1100	12d field survey capture and manipulation <i>Michael Connor, Fulton Hogan</i>
1100 - 1110	Application of the Australian geometric quasi-geoid to propagate mean sea level throughout a survey control network <i>William Payze, Northern Territory Government</i>

CONCURRENT SESSIONS					
	Room: C1	Room: C2	Room: C3	Room: C4	Room: Hall L
	Hydrographics, progress & partnerships Chair: Nathan Quadros	Climate change and resources Chair: Simon Laird	Cadastre Futures Chair: Greg Ledwidge	Data as an asset Chair: Jarrod Lange	Spatial Digital Twins Chair: Darren Mottolini
1115	The Hydroscheme Industry Partnership Program (HIPP) <i>Andrew Coulls, Australian Hydrographic Office</i>	Fairy circles and where to find them: how earth observation data can support 'new energy' exploration in Australia <i>Dr Claire Fisk, FrontierSI</i>	ICSM standard for the accuracy of spatial cadastres in Australia and New Zealand <i>Bradley Slape, Intergovernmental Committee on Surveying &amp; Mapping</i>	Knowledge graphs & spatial - they're here, they're awesome <i>Nicholas Car, Kurrawongai</i>	OGC with ISO/TC 211 strengthen their standards development with other organisations <i>Rob Atkinson, Open Geospatial Consortium (OGC)</i>
1135	HydroScheme Industry Partnership Program - from the contractors perspective <i>Dylan Colson, Precision Hydrographic services</i>	Use of Synthetic Aperture Radar (SAR) imagery in Emergency Response and Disaster Management <i>Dipak Paudyal, APAC Geospatial</i>	Spatial improvement of a digital cadastre based on concepts from finite element methods <i>David Pullar, University of Queensland</i>	Creating an automated mobile noise assessment service <i>Christian Fellingner, 1Spatial</i>	Realizing the potential for reality digital twins in rail operations <i>Brett Sheehan, Jacobs</i>
1155	Partnerships and capacity building in the Pacific <i>Scott Miller, Fugro</i>	Creation of a dashboard for better management of council's footpath network <i>Farideh Nodeh, City of Port Adelaide Enfield</i>	Cadastral definition - How far across the land do I survey? To the sea, stars or the moon? <i>John Linsell, Office of the Surveyor General - Department for Trade &amp; Investment</i>	Replacement and uplift of NSW online Base Maps and Map Series. Delivering innovative map base products for NSW <i>Shaun Bunyan, DCS Spatial Services &amp; Amanda Tyrer, Spatial Vision</i>	A Testbed for Australian Urban Digital Twins <i>Dr Masoud Rahimi, AURIN</i>
1215	Comparison of data extraction parameters in full-waveform green laser bathymetry <i>Eleanor Chandler-Temple, Riegl Australia</i>	Building an evidence base with remote sensing technology to support community capacity to create a greener, more climate resilient Adelaide <i>Sarah White, Green Adelaide</i>	Next steps towards fully digital cadastral survey datasets across Australia and New Zealand <i>Adrian White, Intergovernmental Committee on Surveying &amp; Mapping</i>	Building trust in foundation data <i>Andrej Mocicka, 1spatial Australia Pty Ltd</i>	Art of the possible - digital twins and real world spatial simulations on AWS <i>Andra Christie, AWS</i>
1235	Panel discussion	Panel discussion	Panel discussion	Panel discussion	Panel discussion

1245	<b>LUNCH: HALLS MNO - sponsored by The Surveyor's Trust</b>	
	1245 – 1345	The Surveyors' Trust 2023 – Careers Map & Workforce Solutions Update <i>Lunch provided for attendees in City Room 1</i>
	<b>TECH TALKS &amp; CASE STUDIES: EXHIBITION THEATRETTE, HALLS MNO</b> <b>Chair: Kirsty Van Putten, ACT Government</b>	
	1255 - 1305	Year-on-year modelling: Resilient 3D modelling of the power distribution network through regular LiDAR survey <i>Chris Williams, Citipower &amp; Powercor</i>
	1305 - 1315	Satellite imagery assists flood emergency response and recovery <i>Partha Pratim Ghosh, Planet</i>
	1315 - 1325	Leveraging full waveform Airborne LiDAR Bathymetry to analyse geomorphological change, flood modelling and resource extraction in New Zealand braided rivers <i>Andy Burrell, LandPro</i>
	1325 - 1335	BlackSky: disrupting new space with real-time dynamic monitoring   Emergency Response Imaging <i>Maurice Borer, BlackSky</i>

**CONCURRENT SESSIONS**

	Room: C1	Room: C2	Room: C3	Room: C4	Room: Hall L
	<b>Disaster management and resilience</b> <b>Chair: Oscar So</b>	<b>Operational technologies</b> <b>Chair: Tom Farrow</b>	<b>Positioning and tools</b> <b>Chair: Matt Scholz</b>	<b>Automation and machine learning</b> <b>Chair: Brett Madsen</b>	<b>Diversity in business</b> <b>Chair: Maurits van der Vlugt</b>
1345	Enhancing spatial data to support emergency management response and recovery <i>Prof Allison Kealy, Department of Transport and Planning</i>	The environmental challenges to conducting airborne lidar bathymetric survey in along south Australia coastline <i>Mick Hawkins, Fugro Australia</i>	Developing open-source Precise Point Positioning (PPP) with Ginan v2 <i>Simon McClusky, Geoscience Australia</i>	Automating spatial data: building the future with infrastructure projects <i>James Embury &amp; Paul Mc Aloon, Fulton Hogan</i>	You can't ask that: women in geospatial <i>Space, Spatial &amp; Surveying Diversity Leadership Network in association with Women in Geospatial SA</i>
1405	Improving the detection of bush fire burn severity from Earth observation with Synthetic Aperture Radar, LiDAR and optical imagery <i>A/Prof David Bruce, Flinders University</i>	How a GIS survey app helped saves lives and livelihoods during South Australia's 2022/3 River Murray Floods <i>Sara Pulford, South Australian State Emergency Service &amp; Gordon Summerling, Esri Australia</i>	Australian vertical working surface to support GNSS heighting <i>Alex Woods, Department of Transport and Planning</i>	Maps, Digital Twins, Metaverse and Chatbots - lessons from the past, powering the future <i>Ana Belgun, Csiro's Data61</i>	The importance of neuro-divergent geospatial professionals for developing and scaling innovative GIS AgTech products <i>Melissa Neville, Australian Spatial Analytics &amp; Lyndsey Jackson, Platfarm</i>

1425	Extracting additional value from a digital model: Bushfire risk mitigation & asset inspection (LiDAR survey of the power distribution network) <i>Chris Williams, Citipower &amp; Powercor</i>	Exploring the past of the Buckland Valley and the power of 3D spatial analysis <i>Darren Green, Department of Transport and Planning</i>	Zero-Cost Sub-Meter GNSS Accuracy using the Southern Positioning Augmentation Network (SouthPAN) <i>Christopher Marshall, FrontierSI</i>	Documenting a machine learning training dataset <i>Dr Caitlin Adams, FrontierSI</i>	Organisational change as a driver for geospatial strategies <i>Georgina Race, Spatial Vision</i>
1445	River Murray flooding – how the mapping functional support group supported the South Australia SES response effort <i>Nick Severin, Department for Environment and Water</i>	3D monitoring of the robe coastline <i>Nathan Quadros, Veris</i>	Survey data, BIM and IFC <i>Dr Lee Gregory, 12d</i>	Using big data and automation for managing renewables in the South Australia electrical distribution network <i>Simon Laird, 1Spatial</i>	Finding a way – geospatial through a marketing lens <i>Steven Henderson, Woolpert</i>
1505	Panel discussion	Panel discussion	Panel discussion	Panel discussion	Panel discussion
1515	<b>AFTERNOON TEA: HALLS MNO</b>				
<b>PLENARY SESSION: HALL L</b>					
1545	<b>DIVERSITY FOR AN EMPOWERED INDUSTRY</b>				
1545	The Rockstars in Neurodiversity <i>Geoff Smith, Chief Executive Officer, Australian Spatial Analytics</i>				
1615	Advancing gender equality in the Pacific <i>Hilary Thompson, Executive Director, Australian Hydrographic Office, Australian Geospatial- Intelligence Organisation</i>				
1645	From words to action: what's getting in the way? Moderator: Lucinda Hewitson, CEO & Founder, Diversity Inclusion Panellists: <i>Geoff Smith, Chief Executive Officer, Australian Spatial Analytics</i> <i>Hilary Thompson, Executive Director, Australian Hydrographic Office, Australian Geospatial- Intelligence Organisation</i> <i>Maurits van der Vlugt, Chair, Space, Spatial and Surveying Diversity Leadership Network (SSDLN)</i>				
1715	Session's end				
1830	<b>Pre-dinner drinks: Halls MNO Foyer</b>				
1900	<b>Asia-Pacific Spatial Excellence Awards (APSEA): Panorama Ballroom</b>				

FRIDAY 12 MAY 2023

PLENARY SESSION: HALL L

0830	Registration opens: Hall M Foyer
0900	Exhibition and 'Onneer coffee cart' open
0930	<b>RESEARCH AND INNOVATION</b>
0930	Mapping vines to wines - GeoTech in the wine industry <i>Dave Gerner, Program Manager – Regional Innovation, Wine Australia</i>
1000	Unleashing Geospatial AI: Opportunities and Challenges in Collaborations Between Academia and Industry <i>Prof Monica Wachowicz, Associate Dean, Royal Melbourne Institute of Technology (RMIT)</i>
1030	What's the role of government in responding and enabling emerging trends?  Moderator: Chris Hewett, Australian Space Agency  Panellists: <i>Lisa Bush, Branch Head, National Location Information Branch, Place and Communities Division Geoscience Australia</i> <i>Robert Tugen, A/g Director, Australian Geospatial-Intelligence Organisation (AGO)</i> <i>Dr Darren Sutton, Program Leader Intelligence, Defence Science and Technology Group</i>
1100	<b>MORNING TEA: HALLS MNO</b>
	<b>TECH TALKS &amp; CASE STUDIES: EXHIBITION THEATRETTE, HALLS MNO</b> <b>Chair: Ben Macloud, Geoscape Australia</b>
1110 – 1120	The 5 critical but common challenges identified when deploying Digital Transformation and automation of data validation for infrastructure asset information <i>Johan Nel, Open Spatial</i>
1120 – 1130	Creating a digital twin with UAV-collected data <i>Mackenzie Mills, Blue Marble Geographics</i>
1130 - 1140	Modelling our way through knowledge gaps – GIS empowerment through communication <i>Emily McLean, Onneer</i>

CONCURRENT SESSIONS					
	Room: C1	Room: C2	Room: C3	Room: C4	Room: Hall L
	Protecting the planet Chair: Geoff Williams	Community at the centre Chair: Melissa Neville	Data collaboration Chair: Amelia Davies	New technologies Chair: Bailey O'Brien	Building value in data Chair: Dani Bramante
1145	Mapping serrated tussock cover from satellite imagery with machine learning <i>Kathryn Sheffield, Agriculture Victoria</i>	Integrating Indigenous priorities into Geographic Information Systems: Case Studies from the Groote Archipelago <i>Jonah Lafferty, Josh Mamarika, Danelle Bara, Anindilyakwa Land Council &amp; Dr Samuel Holt, Aerometrex</i>	From pipe dream to reality: overcoming data challenges with collaboration <i>Australian Bureau of Statistics, Department of Infrastructure, Transport, Regional Development, Communications, and the Arts on the Regional Data Hub Geoscience Australia Bureau of Meteorology</i>	Australian-made Automated Monitoring IoT Sensor (AAMIS) – Kurloo Development Story <i>Dr Charles Wang, Kurloo Technology Pty Ltd</i>	The power of place: understanding the economic impact of location on business and government <i>Michael Dixon, Geoscape Australia &amp; Gene Tunny, Lateral Economics</i>
1205	Ozius Biome™: providing continental-scale 3D vegetation products by combining space-borne remote sensing technologies and artificial intelligence <i>Alisa Starkey, Ozius</i>	Enhancing our diverse communities through place naming <i>Craig Sandy, Department of Transport and Planning</i>	Remotely possible - thinking outside the polygon: the challenges, lessons and benefits in distributed work patterns from the Covid pandemic <i>Daniel McIlroy &amp; Brett Madsen, Geoscience Australia</i>	What does the journey to smart road networks look like? Insights from TMR Spatial Labs 2022 <i>Megha Roy-Basu, Transport and Main Roads &amp; Roshni Sharma, FrontierSI</i>	Cloud-native data in practice <i>Alex Mckeown, Integrated Marine Observing System</i>
1225	Unlocking the power of South Australia's biodiversity data: a spatial approach <i>Matthew Miles, Department for Environment and Water</i>	Mapping community – establishing a vocabulary in relation to 'community' to assist in climate resilience and disaster recovery <i>Harmen Romeijn, Spatial Vision</i>	#It's complicated. Inter-jurisdictional data sharing is difficult, but the benefits are worth it <i>Kristen Jennings, Nova Systems</i>	Finding the missing middle: a big data and AI approach <i>Bradley Rasmussen, Sizztech</i>	Human insight at massive scale: Transforming 2D and 3D spatial Big Data into intelligence <i>Fabrice Marre</i>
1245	Drone sensing to monitor dispersal of the biocontrol in invasive cactus in the semi-arid New South Wales <i>Dr Rajendra Shilpakar, Department of Regional NSW, Local Land Services Agency  Greater Sydney</i>	Embracing our differences to build our team <i>Kellie Dean, Veris &amp; Dylan Frank, Wumara Group</i>	Mobile crowdsourcing for high-quality base maps <i>Dr Davood Shojaei, Melbourne University</i>	Virtual eyes-in-the-sky: damage assessment with drones <i>Gordon Sumerling, Esri Australia</i>	Victorian Department of Transport and Planning adoption of Open Street Map (OSM) <i>Robert Potter, Department of Transport and Planning</i>
1305	Panel discussion	Panel discussion	Panel discussion	Panel discussion	Panel discussion

1315	<b>LUNCH: HALLS MNO</b>	
	<b>TECH TALKS &amp; CASE STUDIES: EXHIBITION THEATRETTE, HALLS MNO</b>	
	<b>Chair: Andrej Mocicka, 1Spatial</b>	
	1325 – 1335	Geospatial evolutions - data assurance for the environment – a UK experience <i>Robert Chell, 1Spatial</i>
	1335 – 1345	The art of creating engaging GIS experiences <i>Ellen Carter, Esri Australia</i>
	1345 – 1355	Catalysing the use of AI for smarter and safer road corridors <i>Peter Jamieson, Anditi</i>
1355 - 1405	A modern geospatial data lake for South Australia Government <i>Greg van Gaans, Department for Trade and Investment</i>	
<b>PLENARY SESSION: HALL L</b>		
1415	<b>INTO THE FUTURE</b>	
	1415	Australia's future market combining space and spatial – a dialogue. Moderator: <i>Dr Zaffar Sadiq Mohamed-Ghouse, Chair, Locate Conferences Australia</i> Panellists: <i>Alan Smart, Senior Associate, ACIL Allen Consulting</i> <i>Sandy Carruthers, Deputy Chair and space representative, The Australia and New Zealand Land Information Council (ANZLIC)</i>
	1445	Geospatial Evolutions - From Map to Multiverse? <i>Joseph Seppi, Geospatial Sector Lead and Senior Vice President, Woolpert</i>
	1515	Celebrating a Moonshot Mindset <i>Christina Gerakiteys, CEO UtopiaX, SingularityU Expert, Founder IdeaSparx, Futurist, Creativity and Innovation Expert</i> <i>Sponsored by Saxton Speakers Bureau</i>
1545	Closing ceremony <i>Dr Zaffar Sadiq Mohamed-Ghouse, Chair, Locate Conferences Australia</i>	
1600	Conference close	