Locate22

THE SURVEYING & SPATIAL EVENT

24 – 26 MAY

NATIONAL CONVENTION CENTRE, CANBERRA

LOCATE22
THE SURVEYING & SPATIAL EVENT

LOCAL HOST

Australian Government
Geoscience Australia

REGISTRATION IS OPEN
www.locateconference.com

LIVE IN PERSON

OUR EXCITING LINEUP OF PLENARY SPEAKERS

Thalia Baldwin
DIRECTOR, UK GEOSPATIAL COMMISSION
(Presenting remotely)

Jack Dangermond
PRESIDENT & FOUNDER, ESRI
(Presenting remotely)

Rebecca De Cicco
PRINCIPAL, DIGITAL ENABLEMENT, AURECON / DIRECTOR, DIGITAL NODE AND GLOBAL CHAIR, WOMEN IN BIM

Dr. David Gruen AO
THE AUSTRALIAN STATISTICIAN, AUSTRALIAN BUREAU OF STATISTICS

Tom Hamilton
DIRECTOR, AUSTRALIAN GEOSPATIAL-INTELLIGENCE ORGANISATION

Melissa Harris
CHAIR, AUSTRALIA AND NEW ZEALAND LAND INFORMATION COUNCIL (ANZLIC)

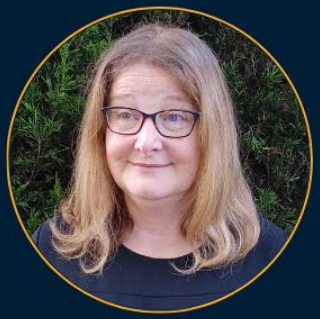
Prof. Lisa Harvey-Smith
ASTROPHYSICIST, WOMEN IN STEM AMBASSADOR & PROFESSOR OF PRACTICE IN SCIENCE COMMUNICATION AT UNSW
(Presenting remotely)

Dr. Stefan Hrabar
CEO AND CO-FOUNDER, EMESENT

Dr. James Johnson
CEO, GEOSCIENCE AUSTRALIA

Dr. Fiona McKenzie
FOUNDER AND DIRECTOR, ORANGE COMPASS

Adrian Turner
CEO, MINDEROO FOUNDATION FIRE & FLOOD RESILIENCE INITIATIVETIAL COMMISSION



Dr. Monica Wachowicz
ASSOCIATE DEAN, GEOSPATIAL SCIENCE, RMIT UNIVERSITY

LOCATE22 SHOWCASE

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Spatial Vision

LOCATE22 SHOWCASE

EXHIBITORS

12d Synergy

1spatial
YOUR WORLD SMARTER

AAM
A WOOLPERT COMPANY

Australian Bureau of Statistics

APAC Geospatial
Remote sensing of the real world

AURIN
aurin.org.au

Defence Industry Security Program

FRONTIER SI

GeoCue
AUSTRALIA

precisely

Skyline

TERSUS GNSS

Master of Ceremonies: Associate Professor, Dr Catherine Ball

Catherine is a scientific futurist, speaker, advisor, author, founder, executive producer, executive director, and company director working across global projects where emerging technologies meet humanitarian, education, and environmental needs. Catherine also likes to create businesses and champion movements, collaborate with peers, and advise game-changers.

A sought-after voice across the start-up, futurist and tech world, Catherine works globally across a wide range of projects from creating documentaries and world-leading conferences and events, to advising on the use of novel approaches (e.g. drones) across environmental and humanitarian projects. Catherine is a proponent of community engagement with STEM (Science, Technology, Engineering, and Mathematics), and likes to demystify emerging tech.

Having been called a 'social architect', Catherine likes to connect people from different backgrounds across common themes. A champion of diversity and inclusion, Catherine believes we need points of difference to truly innovate and curate the changes we want to see in the world. Working to protect the natural environment and empowering all members of society through mutual education are core aspects of the projects Catherine chooses to spend her time and energy on.

Catherine continues to support Australia as being the world leader in the advancement of ethically driven technological applications. Industry 5.0 is emerging; with society and community at the heart of how we operate and curate emerging trends and capabilities.

Appears by arrangement with Saxton Speakers Bureau.

PROGRAM AT A GLANCE			
MONDAY 23RD MAY	**TUESDAY 24TH MAY**	**WEDNESDAY 25TH MAY**	**THURSDAY 26TH MAY**
Tours and workshop **Suggested self-book tours** **Social networking event** **Georabble**	**Exhibition open** **The Locate Hub** **Young Professional, Student and Early Career Researcher Professional Development Workshop** **Locate Symposium** **Workshops** **Tech talks** **Tech updates**	**Exhibition open** **Opening ceremony** **The Locate Hub** **Plenary sessions** **Concurrent sessions** **APSEA**	**Exhibition open** **The Locate Hub** **Plenary sessions** **Concurrent sessions** **Closing ceremony**

Program is correct at time of print and subject to change.

Locate

MONDAY 23 MAY 2022: NETWORK BUILDING DAY

Activities available for all delegates to book at an additional cost. Places in each tour are limited and registration will be required.

1300	**Mt Ainslie and Mt Stromlo Tour** Join us on a tour of the iconic Mt Ainslie and Mt Stromlo, two of Canberra's landmarks, sites of magnificent views of the city and the ACT western boundary running along the beautiful Brindabella Mountain Range. A lunchbox will be provided, and first stop will be Mt Ainslie where you will be able to see the radial lines which have formed the basis for the planning of Canberra. You will also be able to see many of the city's landmarks so bring your camera! After lunch on Mt Ainslie we will head for Mt Stromlo the site of the Mount Stromlo Solar Observatory and home of Australian National Time Service and Photographic Zenith Tube. Stromlo Trig Station, the origin of the ACT co-ordinate system is also located on the site. On completion of the visit to Mt Stromlo, the bus will return to both the convention centre and also the bar at which a casual pizza and drinks evening is being arranged. Cost: $65 includes a packed lunch, transport, guide as well as the casual social event outlined below. Minimum numbers required.
1400	**Deep Space Centre Tour** Join us for a visit to the Canberra Deep Space Communication Complex. A part of NASA's Deep Space Network, this facility features Australia's largest antenna dishes that provide vital two-way communication with dozens of robotic spacecraft exploring our solar system and beyond. Outreach and Communications Manager, Glen Nagle will provide a presentation on the role of complex, its history and future. This 90-minute tour will include time at CDSCC's visitor centre which provides beautiful views of the Tidbinbilla valley and the giant antenna dishes. https://www.cdscc.nasa.gov/ Cost: $65 includes transport, tour of the centre and the casual social event outlined below. Minimum numbers required.
0900 - 1630	**RTK & Drone Technology Field Workshop** Presented by Map Gear and Detail Survey. Join us for a full day workshop exploring some of the latest developments in RTK terrestrial and drone survey techniques at a picturesque 400 ha. farm on the outskirts of Canberra. In this full day workshop, we'll explore RTK and PPK survey techniques. Discover how to integrate GNSS sensors with a range of survey & GIS field software including 12D Field, Carlson SurvPC, Carlson Layout, Field Genius and QGIS Field. Gain experience using various pathways of propagating RTK corrections from GNSS base to GNSS receivers and even directly to drones! Understand more about the differences between photogrammetry and LiDAR survey and see these drones in action. Learn about post processing workflows and tools and gain first-hand experience in the most basic machine guidance using GNSS technology. This free workshop includes lunch and transport to/from Canberra Convention Centre and returns at 4:30 so you'll be on time for the casual social event with the Locate crew at a nearby pub! More information is available here. Please register via the Locate online registration site.
1730	**Casual Social Event** In Canberra on the Monday? You should come along to the very casual social night! This will be held at a local Canberra bar within walking distance to the Convention Centre. Shared food platters plus a drink voucher or two will be provided. Cost: $25, *(included for those who book one of the above-mentioned tours/workshop)*
	Georabble More details to follow

Program is correct at time of print and subject to change.

TUESDAY 24 MAY 2022

All activities and workshops included for fully registered delegates unless otherwise specified.

<table>
<tr><td>0900</td><td></td><td></td><td rowspan="3">0900 – 1230

Young Professional, Student and Early Career Researcher Professional Development Workshop</td><td rowspan="3">0900 – 1200
WORKSHOP: EU-Australia geospatial (temporal) technologies for disaster management and emergency response</td><td rowspan="3">0900 – 1200
WORKSHOP: Industry and government working together to deliver a spatially enabled Australia</td><td rowspan="3">0900 – 1200
WORKSHOP: Get the full picture with Synthetic Aperture Radar (SAR)</td><td rowspan="2">0900 – 1100
WORKSHOP: Location in action, identifying potential of solar API</td><td rowspan="2">0900 – 1200
WORKSHOP: As-constructed data validation and automated data integration into GIS and Asset Management Systems</td><td rowspan="2">0900 – 1200
WORKSHOP: The National Positioning Infrastructure Capability and the future direction of CORS networks in Australia</td><td rowspan="2">0900 – 1200
WORKSHOP: An introduction to point clouds and laser scanning for geospatial applications</td></tr>
<tr><td>1100</td><td rowspan="14">Exhibition opens

Light lunch from 1230 - 1300</td><td rowspan="14">The Locate Hub

Strategic trends shaping the future of our industry</td></tr>
<tr><td>1200</td><td rowspan="2">1130 – 1230
WORKSHOP: Human centred design techniques to improve your web mapping applications</td></tr>
<tr><td>1230</td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2"></td></tr>
<tr><td>1300</td><td rowspan="2">1300 – 1430
Tech talks: Survey and Collection Technology</td><td rowspan="2">1300 – 1430
Tech talks: Location Technologies and Automation</td><td rowspan="3">1300 – 1430
WORKSHOP: Working with Defence: Security, Innovation and Opportunities</td><td rowspan="3">1300 – 1500
WORKSHOP: Progressing the Modern Digital Cadastre</td></tr>
<tr><td>1400</td><td rowspan="6">1400 – 1630
Locate Symposium</td></tr>
<tr><td>1430</td><td rowspan="2">1440-1535
Tech update: AI for Geospatial</td><td rowspan="2">1440-1535
Tech update: Positioning tech</td><td rowspan="2">1440-1535
Tech update: Underground utilities</td></tr>
<tr><td>1500</td></tr>
<tr><td>1530</td><td rowspan="3">1545 – 1700
Tech talks: Environmental identification and management technologies</td><td rowspan="3">1545 – 1700
Tech talks: EO technologies and contributing to national resilience</td></tr>
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<tr><td>1600</td></tr>
<tr><td>1630</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>1700</td><td>Welcome reception</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

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WORKSHOPS: *are included with full conference and Tuesday (day only) registrations. Places for some workshops are limited so please ensure you can attend before making a booking.*

0900 – 1100

Location in action, identifying potential of solar API

Keenan Field, Geoscape

Location underpins our day to day lives, but it can be a giant undertaking to access good location services. During this 60-minute workshop, Geoscape experts will demonstrate how you can go from idea to location-in-action with a practical demonstration on creating a solar potential app that leverages both Geoscape APIs and BOM APIs to find and model the solar potential of an address. Using Geoscape data, you can locate the address, identify existing buildings and solar panels, and model how much solar generation is possible using BOM data for modelling daylight. During the workshop, our spatial experts will share the open-source repo on GitHub with the code of the fully working app. The attendees would have an opportunity to clone the open-source demo app if they are interested. Post the workshop, we would be keen to hear from the attendees how they can use the open-source code to develop their app version. Geoscape would recognise the participants and their project.

0900 – 1200

EU-Australia geospatial (temporal) technologies for disaster management and emergency response

This workshop will cover both programmatic approaches and practical aspects of geospatial (temporal) technologies and systems for disaster management and emergency response focused on effective solutions for the Australasia region, as well as promote cooperation in the framework of Copernicus and Galileo programmes. The session begins with a general introduction of the geospatial capabilities offered by the EU space programme, including a case study, and the description of the Australian initiatives to tackle the disaster management and emergency response issues. The second part addresses more specific topics related to ongoing technical solutions, including the organisational structures created to deal with disasters and emergencies using geospatial technologies, the development and description of disaster management tools, the deployment of a SBAS for Australia and New Zealand, and the strategies devised to mitigate the effects of space weather on critical infrastructures. Use cases are presented along with more conceptual details to provide a complete picture of the available capabilities and future perspectives/directions.

0900 – 1200

An introduction to point clouds and laser scanning for geospatial applications

Steven Sheppard, Geospatial Solutions Specialist, Trimble Inc.

Point clouds are being leveraged more in geospatial applications to provide a fast way of capturing information in the field and ensure the entire scene is well documented when compared to discrete measurement techniques. In this workshop we'll explore the various methods of generating point clouds including; photogrammetry, terrestrial laser scanning, and mobile laser scanning. From there we'll do some hands on with a terrestrial laser scanning to discuss some of the differing techniques to capture and register the data. After collecting some data we'll then look at the processing of photogrammetric data and laser scan data and how office software is being leveraged to remove the burden of processing and automatically generate CAD deliverables where possible. Part presentation - part hands on, at the end you should have a much better basis to assess the pros and cons to adding different technology to projects.

0900 – 1200

Get the full picture with Synthetic Aperture Radar (SAR)

Megan Gallaher, Solutions Engineer, L3Harris Geospatial. SAR Expert and Dipak Paudyal, Chief Scientist, APAC Geospatial, SAR Expert

This workshop session is designed to showcase application of Synthetic Aperture Radar (SAR) for several geospatial applications progressively from a simple to more complex outcomes. The workshop will provide an overview of SAR technology and its application followed by some examples of implementation of the technology using a commercial off the shelf ENVI SARscape product. Three key topics/application areas will be presented. These application areas will be demonstrated live with ENVI SARscape - the intention being that the attendees can get hands-on skills to learn the process/workflow such that they can carry out the tasks easily themselves once they are back to their respective workplaces.

Topic: What is SAR? Benefits of SAR

Topic: Land and ocean applications of SAR

Topic: A deeper dive into SAR – agriculture and land surface deformation

WORKSHOPS (continued)

0900 – 1200

Industry and government working together to deliver a spatially enabled Australia

Alison Rose, Chief of Place, Space and Communities Division, Geoscience Australia, and members of the Location Interdepartmental Committee

Location-based data and information are a significant national resource with enduring value for the Australian community. Bringing together the wealth of data on people, the economy, employment, infrastructure, health, land and the environment will aid decision-making and open up new economic and social opportunities. The Australian Government publishes a vast array of location-based data, holds further data which could be spatially-enabled, and is a major consumer of data from State and Territory governments and the private sector. Opportunities abound for closer collaboration. Led by Alison Rose from Geoscience Australia, the workshop will feature representatives from across Government, including the Australian Bureau of Statistics, Department of Defence, Department of Home Affairs and Department of Infrastructure, Transport, Regional Development and Communications. The workshop provides an opportunity for delegates to better understand the availability and use of location-based data and will showcase industry/government projects that demonstrate the use of data in supporting a spatially enabled Australia. The workshop features a panel discussion of the challenges and opportunities within and across different government portfolios, focusing on data, platforms, and skills. Audience members will have the opportunity to participate in an open discussion on engaging with government and explore how government can more easily work with industry and others to form meaningful and useful partnerships. Attendees at this workshop will develop a greater understanding of how the Australian Government generates, uses, and shares location-based data and how to better engage with government to deliver successful outcomes.

0900 – 1200

As-constructed data validation and automated data integration into GIS and Asset Management Systems

Presenters: *Johan Nel, CTO, Open Spatial (Sydney), Philip Nell, Operations Manager- Technical, Open Spatial (Sydney), Peter Woodhouse, Development Engineer, Rogers Constructions Pty Ltd (Warnambool), Colin Hobson, CEO, Open Spatial (California, USA)*

Validating and consuming asset and GIS information from as-constructed plans is a complex task that involves many departments and players and is critical for getting reliable and validated data into GIS and Asset Management schemas. This workshop will have 2 components – the workshop at Loacte2022 and on online hands-on exercise.

A facilitated interactive workshop and discussion covering the challenges and practices currently in use by attendees, as well as structured discussions on the following topics: CAD standards and GIS standards, Matching CAD drawing data to GIS features, As-constructed submittal workflows and the associated data workflows required to ensure efficient and qualified data capture, Data validation rules and how to apply them, Common issues and errors and how to avoid them.

In addition, an online hands-on exercise will be offered for attendees prior to Locate2022, to create and submit a drawing to an online validation portal, perform error checks and fixes and once the drawing is valid, get GIS data output. The hands-on online experiences will be reviewed and discussed at the workshop. The hands-on exercise will be available before the workshop to registered attendees and possibly others by request.

0900 – 1200

The National Positioning Infrastructure Capability and the future direction of CORS networks in Australia

The workshop will be facilitated by Geoscience Australia, with presentations and discussions lead by experts from government, industry, and academia.

Geospatial professionals need reliable access to public and private networks of positioning infrastructure to obtain accurate positions in real-time. These accurate and reliable positions are a critical input to creating a spatially enabled society. To enable access and future-proof these networks, the Commonwealth Government, through Geoscience Australia, has collaborated with the state and territory governments and private sector to coordinate and establish a national network of Continuously Operating Reference Stations (CORS). This network, referred to as the National Positioning Infrastructure Capability (NPIC), provides open access to over 700 reference stations across Australia and supports the delivery of centimetre accurate positioning services in areas of mobile phone coverage. This workshop will provide an overview of the capability, enable participants to share their views on how to improve the current system and provide insights to inform a future strategy. The workshop will commence with a discussion on the benefits of a national approach to CORS, followed by a series of short presentations from government and industry CORS operators on what the future looks like for their network. Participants will support knowledge building and capability sharing by validating some business intelligence insights which will be shared and workshopped by Geoscience Australia. As the NPIC network has opened up tremendous opportunities for the surveying and spatial industry, we will engage with the participants, encouraging them to share how they are using CORS to innovate within the sector. Following this, we will seek feedback on the current capability and capture user requirements so that we can further improve the services being offered. To further explore future positioning trends, we will conclude the workshop with a panel discussion, with audience participation, on the future of RTK technology and CORS networks in a Precise Point Positioning world. This workshop will be suitable for everyone who is contributing to a connected and spatially enabled society, by utilising the NPIC accurate and reliable positioning services to support their business needs.

WORKSHOPS (continued)

1130 – 1230

Human centred design techniques to improve your web mapping applications

Nikita Moorcroft, Nova Systems

Many web mapping applications in the market have overly complex user interfaces that aim to satisfy a broad range of users and requirements. Spatially enabled web applications are often based on default Geographic Information Systems (GIS) templates and off-the-shelf products with applications typically having a central map control, a layer control with many different spatial layers and a series of generalised tools for querying and selecting features on the map. These applications often assume users have the background technical knowledge and time and ability to drive these tools to meet their requirements. For the past several years Nova Systems has been conducting user research across a broad range of web mapping applications. Our findings are that these tools are not very engaging and user friendly for public users from non-GIS backgrounds as these users expect intuitive well-designed web and mobile applications like the other consumer focused applications they use every day. More engaging and useful web mapping applications can be built by moving away from standard GIS web mapping application templates and basing the application's design on a deep understanding of the potential users, their requirements, and behaviours through use of Human Centred Design (HCD) approaches to drive the product lifecycle. We have successfully applied these approaches to building web mapping solutions by gathering a deep understanding of users through an experimental approach to user research and engagement via interviews, surveys, observational studies, and co-design activities. This workshop will be a highly collaborative chance for conference participants to learn from Nova System's past experience of building web applications using user research and HCD methods. The workshop will incorporate common problems experienced in industry and provide participants with carefully crafted HCD activities designed to place users at the heart of the product delivery process. Workshop activities will cover creating vision statements, empathy maps, basic lo-fidelity wireframing and user testing.

1300 – 1430

Working with Defence: Security, Innovation and Opportunities

Presenters: *Jason Savage, Director Defence Industry Security Office; Office of Defence Industry Support; and Andrew Hodgkinson, Assistant Secretary, Defence Capability and Innovation.*

The Department of Defence is hosting a workshop for industry providing guidance on working in the Defence sector, meeting security requirements, and innovation opportunities. Firstly, the Defence Industry Security Office will present on the Defence Industry Security Program (DISP), is a Defence initiative that allows Australian businesses to ensure their business meets Defence standards when engaging in Defence projects or contracts. Following this, the Office of Defence Industry Support (ODIS) will present on how they operate and how businesses can best engage with them as the one-stop-shop for Defence industry support and guidance. Finally, the Innovation Hub will present on how industry can engage with them for innovation opportunities, including their processes, case studies and innovation priorities.

1300 – 1500

Progressing the Modern Digital Cadastre

Ryanne Firme - DCM Production Manager Spatial Vision, Ian Miller - Chief Technology Officer Spatial Vision, spatial and surveying representatives from NSW, QLD, NT, WA, SA, VIC, ACT and TAS government, private sector invitees (Jacobs, Geodata, etc), representative from FrontierSI

As one of the contractors delivering the adjustment phase of Victoria's $47m Digital Cadastre Modernisation Project, this workshop will enable us to share Spatial Vision's learnings after two years' work. Reporting on the outcomes and issues encountered in Victoria and comparing them with other jurisdictions will enable the broader geospatial community to progress their aspirations towards modernising the cadastre. A round table discussion to share lessons learnt, identify requisite skills, note automation opportunities, and contribute to standards and lead to the establishment of a community of practice for improving and modernising the cadastre. Our experience has been challenging but also very rewarding, making significant progress and allowing us to deliver an adjusted LGA almost every four weeks. The methodology and processes for urban areas are working well, with more precise cadastral guidance used whenever unusual nuances are encountered. The method for rural areas is being tested, and we're confident that we are on the right path towards defining the process required. A critical benefit arising from this workshop will be providing an opportunity for the profession to come together, identify potential collaborative approaches, achieve the improvement of a vital geospatial resource, and fulfil community expectations regarding certainty of linking land and real property.

0900 - 1230

YOUNG PROFESSIONAL, STUDENT AND EARLY CAREER RESEARCHER PROFESSIONAL DEVELOPMENT WORKSHOP

Registration is open to young professionals, students, and early career researchers only. There is no cost to attend, however please secure your place when completing the online registration form.

A dedicated workshop focusing on career paths, problem solving and professional development for the younger and newer members of the spatial industry.

The workshop will include a panel of industry leaders discussing careers and skills, a presentation on communication and soft skills, and opportunities to discuss ideas to address some of the key issues we face in the spatial industry.

Open to anyone aged 36 or under, as well as full time students and early career researchers. Attendees will make new connections, learn how to make the most of their time at Locate22 and gain valuable insights to take back to the office or classroom.

0900	Icebreaker and introduction
0910	Careers path and development panel This panel brings together experts and leaders from diverse backgrounds within the spatial industry to discuss career paths, professional development opportunities and soft skills and to share their experiences with the next generation of leaders. *Panellists:* *Peter Frosch, Department of Defence* *Maurits van der Vlugt, Mercury Project Solutions* *Kate Fairlie, Land Equity International* *Prof Dr. Sisi Zlatanova, University of New South Wales* *Mina Jahanshahi, Veris*
1000	Communication skills *Gretchen Irvine, Geoscience Australia*
1015	Break
1040	Breakout groups – exploring common problems and solutions in the spatial industry across the themes of: • Technical challenges of the industry • Communicating with spatial data • Communication and engagement skills for the spatial industry
1230	Lunch break

1100 - 1700

The Locate Hub, sponsored by Geoscience Australia

An exploration of the strategic trends and workforce needs for the spatial industry, which will inform the key capability requirements of future professionals.

Layers of the cake	1100	Does Australian positioning data have a FAIR go?	*Christopher Marshall, FrontierSI plus other speakers tbc*
	1130	Can you trust your positioning correction stream?	*Ryan Ruddick, Brandon Owen, Tim Schryvers, Geoscience Australia*
	1200	Reaching new heights: new gravity data and a new height reference surface	*Nicholas Brown (moderator), Anna Riddell, Jack McCubbine, Alex Woods, Thomas Grinter, Geoscience Australia*
Creating opportunities	1230	Opportunities for innovation: Industry, Defence and Government	*Department of Defence*
	1300	Tech demonstration	*Geoscience Australia*
	1330	Young Professionals Grant Recipients - what it's like starting out in the industry	*Young Professionals Grant Recipients and Sponsors*
	1400	Bringing the seafloor to the surface	*Joshua Sixsmith, Robin Beaman, Vicki Ferrini, TileDB Technical Representative, Natalie Lennard (facilitator), Geoscience Australia*
	1430	Break	
Resilience	1500	Can we Talk? Burnout and mental health in the workplace	*Mark Butler psychotherapist* *Nearmap representatives*
	1530	Burning out potential users of EO as our industry grows: Coordinating spatial outreach	Brendon McAtee, FrontierSI *Plus representatives from the EO internationalisation projects*
	1600	Project Sirius: Acknowledging future surveyors role in wider society	*Lee Hellen, Kurloo Technology Pty Ltd*
Hackathon	1630	Vexcel Hackathon	

TECH TALKS *Pre-registration is not required; talks are open for everyone to attend.*

The Locate Tech Talks will showcase new advances in technology and products and their use and applications to enhance the value of the spatial industry. Hear from our sponsors on key topics and technology updates, alongside industry experts demonstrating through case studies how new technologies are being applied in real world situations. With sessions covering a range of topics of great interest for all surveyors and spatial professionals, these are a must see for anyone interested in keeping up with the rapidly changing technology landscape.

	TECH TALKS A1 - Survey and Collection Technology	TECH TALKS A2 - Location Technologies and Automation
1300	Ginan – a precise point positioning software toolkit and position correction service *Vincent Rooke and Dr Simon McClusky, Geoscience Australia*	Sabotaging capability with words *Ben Berghauser, Onneer*
1315	Use of advanced Kalman filtering and statistical techniques for error correction and positioning accuracy in Geoscience Australia's Ginan software toolkit *David Shteinman and Mark Yeo, Industrial Sciences Group*	Streamlining service delivery by using location-based APIs *Michael Dixon, Geoscape*
1330	Boost surveying efficiency with mobile scanning technology *Mark Lane, GeoSLAM*	Geospatial applications enabling a successful 2021 Census *Martin Brady, Australian Bureau of Statistics*
1345	Common data environments for surveyors *Mitch McPherson, 12d Synergy*	Software capability using ENVI deep learning *Dr Dipak Paudyal, APAC Geospatial*
1400	A demonstration of technology *Xiaohua Wen, Tersus GNSS Inc*	Details to follow from Vexcel
1415	Capability review *Dan Gerich, Mangoesmapping*	Recent innovations in hydrographic survey at Fugro *Scott Miller, Fugro Australia*

	TECH TALKS B1 - Environmental identification and management technologies	TECH TALKS B2 - EO technologies and contributing to national resilience
1545	MetroMap - supporting a wide range of users with spatial data and insights *Linda Skoog, Aerometrex*	Multi-sensor constellations *Thomas VanMatre, Satellogic*
1600	Addressing the challenges in managing a national environmental database *Ana Ouriques and Sahaja Muppidi, Land Insight*	To drive uptake of EO-based products and services speak in the language of the customer – communiqué for EO providers *Dr Brendon McAtee, FrontierSI*
1615	Data driven visualisation for inundation impacts *Mina Jahanshahi, Veris*	Presentation of emerging earth observation products to monitor change, and modernize operations using high-resolution radar and multi-spectral satellite imagery *Garry Farmer, Nova Systems*
1630	RoadViewer web portal and the associated road related software and capability *Tony Campbell, Anditi*	Enhance crisis resilience with planet satellite imaging and data *Siti Baizura Alidin, PreSales Engineer, APAC, Planet*
1645	An innovative geospatial platform to drive cost-effective road safety benefits *Ben Stephenson, GHD*	Tracking Green Infrastructure in Local Government *Sam Mason, Nearmap*

1440 - 1535
TECH UPDATES
Pre-registration is not required; updates are open for everyone to attend.
These 55-minute sessions will be dedicated to a key topic of high interest, bringing together experts and users to demonstrate and discuss new and recent advances in technology for the spatial industry and the solutions we enable. Each session will include time for questions and discussion with the speakers, encouraging idea sharing and collaboration.

	AI FOR GEOSPATIAL The AI session will explore advances and use cases of AI for the spatial industry.	**POSITIONING TECHNOLOGY** The positioning session will discuss recent updates and advances in positioning technology and precision that underpin spatial capabilities.	**UTILITIES** The utilities session will focus on advances in technology that are helping spatial experts enable better management of utilities and as-con information.
1440	Big data needs big tools - harnessing AI for geospatial content *Daniel Kruimel, AAM, a Woolpert Company*	Quantifying antenna effects on smartphone positioning accuracy *Jenni Tomkinson, RMIT University*	Key criteria for automating as-constructed data validation and automated data capture from CAD drawings into GeoBIM Models *Colin Hobson and Andrew Dunlop, Open Spatial*
1450	Time-travel into our digital future: Digital twins, Metaverse and AI *Fabrice Marre, Aerometrex*	Introducing "RTK from the Sky", a new era of global centimetric positioning *Rod Macleod, Novatel*	Delivering a better outcome in the investigation of underground utilities using geospatial tools and innovations *Jeffrey Ramos, Utility Mapping Pty Ltd*
1500	High resolution, national analysis of tree and building cover in Australian capital cities *Dr Michael Bewley, Nearmap*	Innovations in GNSS receiver technology and infrastructure *Peter Terrett, 4d Global*	Augmented reality visualization methods for subsurface utilities *Mohamed Zahlan Abdul Muthalif, University of Melbourne*
1510		Building a Continuously Operating Reference Station (CORS) - a Victorian perspective *Alex Woods, DELWP*	AureconInground: End to end workflow for efficient utilities data management on infrastructure projects, including automation of 3D object-based information models *Richard Syme, Aurecon*
1520	Discussion	Discussion	Discussion

1400 - 1630
LOCATE SYMPOSIUM

Pre-registration is not required; the Symposium is open for everyone to attend.

Hosted by the Locate YP Committee - Chairs: April Saleeba and Oscar So

The Symposium will exclusively showcase ideas and projects by the industry's high achieving young professionals, students, and early career researchers. Young Professionals and students are the future of our industry. The contribution that younger professionals make to the development of new technologies, innovative ideas and complex projects should not be underestimated. This session is open to everyone and anyone with an interest in the future of the industry. We invite all senior leaders to bring their younger professionals along and see what is happening across the industry, followed by networking leading into the Welcome Reception. Prizes will be awarded for the best presentations!

1400	Symposium opening
1405	Welcome to Symposium *Kellie Dean, Regional Manager - Victoria and Tasmania at Veris and Space, Spatial and Surveying Diversity Leadership Network (SSS-DLN) Convener (presenting remotely)*
1415	Taking GIS on tour: Developing the music NSW Regional Touring Network *Stella Blake-Kelly, Cartisan*
1420	"What vessel is that?" - an AGO graduate experience *Jack Whiffin, Australian Geospatial-intelligence Organisation*
1425	AusSeabed: Collaboration is the key to mapping the oceans *Christopher Yule, Geoscience Australia*
1430	*Young Surveyor's Volunteer Program (presenting remotely)*
1440	Questions for group
1445	Tracking green infrastructure in Local Government *Sam Mason, Nearmap*
1450	Assessing the impacts of climate change on rainwater harvesting: A case study of Western Sydney Region *Preeti Preeti, Western Sydney University*
1455	National review of wastewater reuse opportunities for agriculture *Molly Fredle, GHD*
1500	Questions for group

LOCATE SYMPOSIUM (Continued)	
1505	*Break*
1515	The opportunity of digital reporting as a means of digital enablement through the lens of an Environmental Effects Statement *Connor Wilson, Aurecon*
1520	Advancing land administration systems in the context of latest international trends *Fatemeh Jahani Chehrehbargh, University of Melbourne*
1525	BIM and the Future of 3D Digital Cadastre *Jihye Shin, Centre for SDIs and Land Administration (CSDILA), University of Melbourne*
1530	Improving client's and professional surveyors' relationship, a case of irregular shapes with acute angles *Surv Ifeanyi Washington N. Okezie, University Of Kwazulu-natal*
1535	Questions for group
1540	An analysis of GNSS carrier to noise and GPS "flex power" using the Ginan analysis centre software (ACS) toolkit *Dr Ronald Maj, FrontierSI*
1545	Measuring satellite transmit power of GNSS satellites with the Hobart 26-m Radio Telescope *David Schunck, University of Tasmania*
1550	Accuracy analysis of GAGAN for different types of surveying applications *Dilhan Tharanga, National Hydrographic Office*
1555	Centimetre-level positioning using 5G 3GPP - Australia's first industry testbed *Christopher Marshall, FrontierSI*
1600	Questions for group
1605	Closing YP Grant Presentations and Awards
1630	YP networking drinks

WEDNESDAY 25 MAY 2022

0900 Welcome to country and opening ceremony

0915 **PLENARY SESSION: TECHNOLOGY AND TRANSFORMATION**

Technological and digital advances are driving change across society. Hear from experts on how this is transforming our industry and the world we live in.

- 0915 From disruption to transformation: shaping the future in a rapidly changing world
  Dr Fiona McKenzie, Founder and Director, Orange Compass
- 0945 Building geospatial data capabilities across the Australian Public Service
  Dr David Gruen, the Australian Statistician, Australian Bureau of Statistics

1015 Morning tea

The Locate Hub: Technology and transformation discussion
Dr Fiona McKenzie, Founder and Director, Orange Compass & Dr David Gruen, the Australian Statistician, Australian Bureau of Statistics

1100 **PLENARY SESSION: OPPORTUNITIES, INNOVATION, AND INCLUSION**

The pace of change we've experienced in the last few years is driving innovation and bringing together people from diverse backgrounds to solve problems. Hear from leaders on what opportunities this is creating across government, academia industry and society.

- 1100 ANZLIC's strategic priorities and update on national roadmap
  Melissa Harris, Chair, The Spatial Information Council (ANZLIC)
- 1130 Government role in a spatially enabled Australia
  Dr James Johnson, CEO, Geoscience Australia, and
  Tom Hamilton, Director, Australian Geospatial Organisation (AGO)
- 1210 Diversity and inclusion in action: a conversation with leaders who are making a difference, led by *Dr James Johnson, CEO, Geoscience Australia*.

  An interview with industry professionals on the tangible steps they have taken to build a better, more inclusive, and more resilient industry and what we can do to keep the momentum going.

  Eva Rodriguez Rodriguez, Independent
  Callum Smith, Senior Consultant, EY - Space Technology
  Aimee Cadan, National Marketing Manager, Rork Projects

1245 Lunch

The Locate Hub: Opportunities, innovation, and inclusion
Melissa Harris, Chair, The Spatial Information Council (ANZLIC), Dr James Johnson, CEO, Geoscience Australia, Tom Hamilton, Director, Australian Geospatial Organisation (AGO), and Diversity and inclusion in action panellists

Lunchtime session *(lunch to be served in the room for attendees)*
Surveyors' Trust Workshop: The Australian surveying and Spatial Workforce - A National Roadmap
Simon White, The Surveyors' Trust and Danica Bakalic, Connection Point Consulting

1345 **CONCURRENT SESSIONS: PRACTITIONERS - TECHNICAL FOCUS, USERS, AND THE VALUE THEY ADD**

	Location in action: **Delivering Smarter Infrastructure - Technical**	Location in action: **Enabling Societal Transformation**	Location in action: **The Future of Data**	Location in action: **Spatially Enabled Society - Users**	Location in action: **Emerging Trends and Technologies**	**The Locate Hub**
	How does surveying and spatial expertise underpin successful infrastructure projects? We discuss how advancements in spatial and digital technologies are being combined to deliver safe and resilient infrastructure projects.	*How are organisations, governments, the private sector, and researchers using spatial data to respond to emergencies around the country? Come and discuss the importance of the spatial industry in responding to state of emergency, crisis management and major events that affect our society.*	*What are the challenges and opportunities presented by the more and more ubiquitous nature of spatial data in society? Join us for a discussion on how the ways we manage our spatial data is changing and the impacts this will have for our professions and our communities.*	*How are advancements in spatial technology helping build an engaged, connected and spatially-enabled society? Come and see how industry is supporting innovative ways to use spatial data and discover how users are responding to opportunities presented by a spatially enabled society.*	*What is the future of our spatial knowledge, technology, and applications?? Join us for an in-depth discussion on how innovations in technology are leading to new applications for spatial data and what exciting new capabilities are being developed.*	*It is critical that the spatial industry decolonise the methods, systems and policies which have informed much of its work to date. With the Decade of Indigenous Languages underway, now is the time to explore the critical steps required for reconciliation.*
1345	Digital engineering advancements in geospatial *Ryan Kent, AAM, a Woolpert Company*	Surveying and spatial professional volunteers' program – making life better for others through knowing where! *Dr Lesley Arnold, Geospatial Frameworks Pty Ltd*	ICSM 3D Cadastral Survey Data Model and data exchange options - SURROUND project overview and explanation of outputs *Rob Atkinson, Surround Australia Pty Ltd*	How is the impact of software supporting access to geospatial data for a spatially enabled society valued by economists? *Dr Marie Truelove, CSIRO Data61*	Cloud native geospatial: lessons learnt building Digital Earth Africa *Alex Leith, Geoscience Australia*	1345 – 1415 Global Context - What does the Decade of Indigenous Languages look like in the Australian spatial industry? *First Languages Australia, AIATSIS & Permanent Committee on Geographic Names* 1415 – 1445 Australian Context - What skills and capabilities are required to support reconciliation across the spatial industry? *Presentations from Yander, Pullima & Surround Australia*
1405	The living twin: building resilient infrastructure for tomorrow *Seth Gorrie, Esri Australia and Nikolaas Kostraby, Snowy Hydro*	Using spatial data and analysis to understand vulnerability and build resilience *Luke Verghese and Paul Box, Australian Bureau of Statistics*	Next steps towards fully digital cadastral survey datasets across Australia and New Zealand *Craig Sandy, DELWP*	"From four weeks to two hours" – the Activate self-service tool for NSW Crown Land *Stella Blake-Kelly, Cartisan*	Geospatial technology transforming ABS small area data and geographies *Martin Brady, Australian Bureau of Statistics*	
1425	Using spatial asset planning and clash detection modelling to optimise infrastructure renewal *Sam Fulton, City of Mitcham*	Emergency response in open spaces - saving time saving lives *Lynnette Terrett and Ankit Khanna, Rapidmap*	Showcasing of a multi-disciplinary survey spatial project *Nathan Green, Veris*	Following the blue line. Is the human race being turned into Lemmings? *Robert Gallagher, Hema Maps*	1425 – 1430 Panel discussion with Martin and Alex **HOT TOPIC: VEGETATION AND TREE COVER, WAYS AND MEANS** Chair: Michael Bewley, Nearmap	

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1445	The Melbourne Underground Rail Loop *Nathan Quadros, Veris*	Prioritising search areas for lost people in the Australian wilderness using spatial modelling *Krystal Dacey, Charles Sturt University*	From FAIR to CARE: Traditional owner rights in managing and using spatial data *Fiona McConachie, Wurundjeri Woi-wurrung Aboriginal Cultural Heritage Corporation*	Finding the past, protecting the present and preserving the future. *Greg Foster, Refind*	1430 - 1440 Automating Victoria's tree cover extent through machine learning *Catherine Gilbert, DELWP & Caitlin Adams, FrontierSI* 1440 - 1450 Geostatistics, LiDAR or Imagery and AI: what's best to monitor tree canopy at the city-scale? *Dr Samuel Holt, Aerometrex* 1450 - 1500 Satellite image detection of change in Australian plantation forests *A/Prof David Bruce, Flinders University*	Community Contexts - What data and information systems governance is required to enable broad reconciliation? *University of Melbourne, (data sovereignty experts)*
1505	Discussion	Discussion	Discussion	Discussion	1500 – 1515 Vegetation panel discussion	
1515	Afternoon tea					
	The Locate Hub: Communities and collaboration discussion *Adrian Turner, CEO, Minderoo Foundation, and Dr Monica Wachowicz, Associate Dean, Royal Melbourne Institute of Technology (RMIT)*					
1545	**CONCURRENT SESSIONS: MISSION AND USE**					

	Location in Action: Designing the Places of Tomorrow	**Location in action: Enabling Societal Transformation - Stories and Places**	**Location in Action: Transforming our Digital Skills – Communication and Skilling**	**Location in action: Spatially Enabled Society - Support and Value**	**Location in action: The Magic Behind the Scenes**	**The Locate Hub Learning to listen**
	What role do spatial experts from all sectors play in designing, managing, and supporting the places of tomorrow. We examine how spatial technologies are contributing to better designs and organisations are leveraging the opportunities provided by digital twins and smart cities to build and maintain growing cities around the world.	*How are organisations, governments, the private sector, and researchers using spatial data to enable? Come and discuss the role the spatial industry is playing in transforming society and communities through building understanding, sharing and place naming.*	*What are the skills that will be required in the age of digital spatial data and how do we building them? Hear from leaders contributing to a more spatially aware and empowered Digital Australia. We explore innovative ways to share information and build skills for the next generation.*	*How are advancements in spatial technology helping build an engaged, connected and spatially-enabled society? Join us for a discussion on how spatial data is being used to modernise systems and improve access to information across all sectors and industries.*	*How do our policies and standards contribute to the utilisation, dissemination, and update of spatial data across all industries? Hear from leaders on progress towards a more connected spatial industry, both between jurisdictions and from the land to the sea, and how they're contributing to more reliable data across Australia.*	*It is critical that the spatial industry decolonise the methods, systems and policies which have informed much of its work to date. With the Decade of Indigenous Languages underway, now is the time to explore the critical steps required for reconciliation.*

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1545	A performance approach for placemaking in urban renewal projects to support SDGs *Mark Allan, City of Melbourne*	Fascinating things about people movement: a journey of discovery of raw data, processing, privacy, and insights from movement trends *Gerry Stanley, Precisely*	Introducing the Digital Atlas of Australia *Alison Rose, Geoscience Australia*	The convergence of data science and industrial engineering *Mary-Ellen Feeney, Yokogawa*	A world-class team for a future-ready state – spatial vision and the Victorian Digital Cadastral Modernisation Project *Zoltan Goblos, Spatial Vision*	1545 – 1715 Where and how might the research, industry and government sectors decolonise the methods, systems and policies which have informed much of its work to date?
1605	How the same data that is used to build the real world is now also the foundation of the Metaverse *Rob Clout, Aerometrex*	City DNA: experiments in successful interactive spatial storytelling *Helen Walpole, City Of Melbourne*	Missed opportunities or untapped potential: upskilling the new geospatial workforce in high school *Brett Dascombe, Wavell SHS*	Modernising the addressing ecosystem to enable a 3D digital economy *Peter Birkett, Landgate*	Review of the National Standard of Competency for licensed or registered surveyors *Michael Nietschke, Alexander Symonds*	
1625	1625 – 1630 Panel discussion with Mark and Rob **HOT TOPIC: DIGITAL TWINS** 1630 – 1640 Implementing a national utilities digital twin - the NUAR Project *Andrew Bashfield, 1Spatial Australia* 1640 – 1650 Leveraging a foundational digital twin to support smart regions *Ms Alena Moison, DELWP* 1650 – 1700 Machine vision and deep learning technology enhances the digital model of Australia *Tom Spencer, Geoscape Australia*	Place naming and the Decade of Indigenous Languages *Gordon Ross, DELWP*	Designing experiences to unlock digital twin data access for GIS beginners *Philip Grimmett, CSIRO Data61*	A user-focused approach to geospatial – learnings for the spatial sector from a recent comprehensive Australian EO market Study *Dr Brendon McAtee, FrontierSI*	Georegulation - standardising the digital representation of maritime boundary data *Jonah Sullivan, Geoscience Australia*	
1645		Australian Place Names: What's happening today to shape our tomorrow *Susan Birtles, Qld Govt | Aus and NZ Working Group on Place Names | UN Group of Experts on Geographical Names | Placenames Australia*	Next generation geospatial: unlocking data intelligence at true scale *Brittany Dahl, NGIS*	*To be confirmed*	Progress towards connecting Australia's land and sea datums *Dr Mick Filmer, Curtin University*	
1705	1700 – 1715 Panel discussion with Andrew, Alena, and Tom	Discussion	Discussion	Discussion	Discussion	
1715	Session's end					
1830	Pre-dinner drinks					
1900	Asia-Pacific Spatial Excellence Awards (APSEA)					
2230	Post-dinner drinks & networking at local bar					

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THURSDAY 26 MAY 2022

0900 MC introduction

0910 **PLENARY SESSION: FUTURE AND EMERGING TRENDS**

The future brings not just new technology but also new domains - hear from leaders discussing emerging trends for our industry as we move into space and beyond.

- 0910 Digital skills and capabilities – The required knowledge we'll need to sustain the future of digital across the built environment in Australia
  Rebecca de Cicco, Principal at Aurecon, Director of Digital Node and Global Chair of Women in BIM
- 0940 Future trends in space and spatial *(presenting remotely)*
  Prof Lisa Harvey Smith, Astrophysicist, Author, Women in STEM Ambassador and Professor at UNSW

1010 Morning tea

The Locate Hub

- 1010 **Future and emerging trends discussion**
  Rebecca de Cicco, Principal at Aurecon, Director of Digital Node and Global Chair of Women in BIM, and Prof Lisa Harvey Smith, Astrophysicist, Author, Women in STEM Ambassador and Professor at UNSW
- 1035 **Locate Young Professionals Day - Outcomes and opportunities**

1100 **CONCURRENT SESSIONS: EMERGING TRENDS AND SOLUTIONS**

	Location in Action: Delivering Smarter Infrastructure - Solutions	**Location in action: Building a Safer Society**	**Location in action: The Future of Data - Solutions**	**Location in action: Space and Emerging - Space Technologies and the Industry**	**Location in action: Magic Behind the Scenes – Global Collaboration**	**The Locate Hub How we map and what do we miss**
	How does surveying and spatial expertise underpin successful infrastructure projects? We discuss how innovative spatial technologies and methods are being used on mega construction projects for transport, infrastructure, utility services and mining.	*How important is the spatial industry in contributing to a safer and healthier society? Join us for an in-depth discussion on the critical role the spatial industry is playing in emergency responses and the technologies enabling innovative solutions to safer communities.*	*What are the challenges and opportunities to the spatial data, systems, and services, generated and maintained by surveyors, spatial scientists, and analysts? We explore the solutions being offered by spatial systems and data and how they are working to supply fair, ethical data for a digitally enabled Australia.*	*What is the future of our spatial knowledge, technology, and applications? Come and discuss how Australia's growing space industry is providing opportunities for spatial professionals and how we can contribute to this exciting new domain.*	*How do our policies and standards contribute to the utilisation, dissemination, and update of spatial data across all industries? Come and discuss how partnerships and collaboration to produce common standards and policies are building a stronger, more reliable, and interconnected spatial industry.*	*The IWD theme for 2022 is to #breakthebias, and the Hub will be exploring the opportunities for the spatial industry to overcome all biases and meaningfully support the active participation of people from all genders, cultures, ages and across a range of physical/neurological capabilities.*
1100	Water utilities readiness for digital future from 2022 national survey *Graeme Martin, Spatial Vision*	Positioning Australia: empowering Australia's precise positioning capability *Dr Martine Woolf, Geoscience Australia*	Understanding Australia's regions with spatial data *Dr Charity Mundava, The Department of Infrastructure, Transport, Regional Development and Communications*	Why you can't access high resolution satellite imagery *Sebastian Chaoui, Arlula*	Government collaboration - ICSM's role in delivery of foundational spatial data *Craig Sandy, DELWP*	1100 – 1200 Where we are now: Inclusion@Work 2022 and what it means *SSS-DLN*

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1120	HEFT: Mapping Australia's Hydrogen Future *Andrew Feitz, Geoscience Australia*	Leveraging GPS data to measure walkability in regional towns *A/Prof Rachel Whitsed, Charles Sturt University*	Managing data in the National Freight Data Hub for an efficient, safe and resilient supply chain *Warwick Sayers, Nova Systems*	Space and spatial – how (well) are they linked? *Jonathon Ross and Reece Biddiscombe, Geoscience Australia*	Collaboration for co-creation of integrated policies and standards: a partner alliance approach *Ruban Jacob, Geospatial World*	1200 - 1230 Future of the industry – where are you and how can we hear your voices? *Oscar So, Roshni Sharma*
1140	Improving resource development projects with Bluecap's Economic Fairways Modelling *Dr Changlong Wang, Monash University*	1140 – 1145 Discussion with Martine and Rachel **HOT TOPIC: BUSHFIRES AND EMERGENCY RESPONSE** 1145 – 1155 Transforming crisis and emergency response with spatial data *Michael Dixon, Geoscape Australia* 1155 – 1205 Delivering the mission-critical, geospatial technology of the Australian Fire Danger Rating System *Ian Reid, Nova Systems* 1205 – 1215 Near real-time bushfire progression mapping using multitemporal Sentinel-1 SAR data *Saroj Kumar Sharma, the University of Melbourne* 1215 – 1230 Bushfire and emergency response panel discussion	Using partnerships, new data sources and geospatial tools to produce sugarcane statistics for Australia *David Robertson, Australian Bureau of Statistics*	The Earth Observations from Space Technology Roadmap: partnerships for implementation *Dr David Hudson, Geoscience Australia*	The Geospatial Standards Community contribution to the wider use and availability of geospatial information and data *Chris Body, OGC*	
1200	Smart solutions for safer infrastructure: remote and automated approaches to monitoring the Paradise Gorge works *Phillip Parton, Veris*		Trees Near Me NSW: vegetation information. On call. On location. *Michael Day, Department of Planning and Environment*	Panel Discussion	Insights from the WGIC Collaborative Report on Spatial Digital Twins *Harsha Madiraju, WGIC*	
1220	Discussion		Discussion		Discussion	
1230	Lunch					
	The Locate Hub					
	1230	**Technical innovators and business leaders' discussion** *Dr Stefan Hrabar, CEO and Co-Founder, Emesent and Innovation in action panellists*				
	1250	**Vexcel Hackathon finalists**				

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1330	**PLENARY SESSION: COMMUNITIES AND COLLABORATION** The importance of spatial data is seen across a wide number of applications and collaboration between sectors can lead to amazing results for all our communities. Hear from leaders on how the spatial industry is helping drive solutions for a safer society.		**PLENARY SESSION: TECHNICAL INNOVATORS AND BUSINESS LEADERS** Change drivers and disruptors – hear from industry leaders who are using technology and skills to create new pathways and opportunities.	
	1330	Emergency and disaster response *Adrian Turner, CEO, Minderoo Foundation*	1330	Journey from CSIRO to global company *Dr Stefan Hrabar, CEO and Co-Founder, Emesent*
	1400	What makes industry/university collaboration succeed? *Dr Monica Wachowicz, Associate Dean, Royal Melbourne Institute of Technology (RMIT)*	1400	Panel: Innovation in action: responding to change and generating success for your business Chair: Kate Williams, FrontierSI Panellists: *Lee Hellen, Managing Director, Land Solution* *Allison Hornery, Directgor, Cofluence* *Brian Nicholls, Managing Director, AAM, a Woolpert Company*
1430	Short break			
1445	**PLENARY SESSION: GLOBAL OUTLOOKS** In an ever-increasing world of connectivity, hear from leaders on the international outlook for our industry now and into the future.			
	1445	A vision for an integrated Australia *(presenting remotely)* *Jack Dangermond, Founder and President, Esri*		
	1515	Panel: Where to from here? Chair: Dr Zaffar Sadiq Mohamed-Ghouse, Spatial Vision, and Chair of Locate Conferences Australia This panel will provide a retrospective look at the new ideas that have been presented and discussed during Locate22 and then look forward to consider the question, what's next for the industry? *Panellists:* *Dr. Nadine Alameh, CEO and President, Open Geospatial Consortium, USA* *Prof Abbas Rajabifard, Chair UN-GGIM · Professor and Discipline Leader Geomatics, The University of Melbourne* *Alison Rose, Chief of Place, Space and Communities Division, Geoscience Australia* *Roshni Sharma, Project Manager and Analyst, FrontierSI* *Plus, speaker to be announced*		
	1545	Emerging trends in space and spatial *(presenting remotely)* *Thalia Baldwin, Director, UK Geospatial Commission*		
1615	Locate22 closing ceremony			
1630	Conference close			

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