



# mapped **Out** 2017

Showcasing the use of Spatial Data  
to enhance the operation and delivery  
of Government Services

**Thursday 9 November 2017**

Rules Club, Cnr Fernleigh & Glenfield Rds

Wagga Wagga NSW 2650

HOSTED BY:

**RivSiG**  
RIVERINA SPATIAL  
Information Group

**REROC**  
RIVERINA EASTERN REGIONAL  
ORGANISATION OF COUNCILS



## DAY ONE THURSDAY 9 NOVEMBER 2017

**Jezza Room, Rules Club, Wagga Wagga**

**8.30 – 9.15** Registration & Coffee

### SESSION ONE

**9.15 – 9.30** Welcome

**9.30 – 10.00** **Ron Avery**, Office of Environment & Heritage and **James Miller**, Informed Solutions – *Sharing and Enabling Environmental Data (SEED) portal*

**10.00 – 10.30** **Sam Ebert**, TAFE NSW – *What we have learnt through our Drone Essentials training*

**10.30 – 11.00** Trade Stands Panel

**11.00 – 11.30** Morning Tea & Trade Stands

### SESSION TWO

**11.30 – 12.00** **David Southwell**, Australian Bureau of Statistics – *Census Data*

**12.00 – 12.30** **George Havakis**, GISSA International – *A collaborative approach delivering integrated benefits to life cycle management of infrastructure assets*

**12.30 – 1.15** **Dr John Dawson**, Geoscience Australia – *SBAS Satellite Positioning, GDA2020 and ELVIS Elevation Information System*

**1.15 – 2.00** Lunch & Trade Stands

### SESSION THREE

**2.00 – 2.30** **Mike Day**, Office of Environment & Heritage – *Regional Scale State Vegetation Type Map: Methods, Products and Innovations*

**2.30 – 3.00** **James Davis**, Junee Shire Council – *Delivering council strategic outcomes through spatial data*

**3.00 – 3.30** **Stephanie Plattner**, State Emergency Service – *NSW Flood Data Access Program*

**3.30 – 4.00** **Wayne Patterson**, NSW Spatial Services – *Update and overview of Spatial Services*

**4.00 – 4.15** Wrap & Close

## DAY TWO FRIDAY 10 NOVEMBER 2017

**Garden Room, Rules Club, Wagga Wagga**

This year your registration fee for the Mapped Out Conference includes registration to an additional half day session on presentations from NSW Spatial Services.

**8.30 – 9.00** Registration & Coffee

### SESSION ONE

**9.00 – 9.45** **Brenton Ray** – *Smart State NSW*

**9.45 – 10.30** **Michael van den Bos** – *What's in a name? Naming Principles, Processes and Guidelines*

**10.30 – 11.15** **Thomas Grinter** – *Preservation of Survey Infrastructure (POSI)*

**11.15 – 11.45** Morning Tea

### SESSION TWO

**11.45 – 12.30** **Greg Windsor** – *NSW Whole of Government Addressing Initiatives*

**12.30 – 1.15** **Adrian White** – *Cadastre NSW*

**1.15** Wrap & Close



## SPEAKERS AND TOPICS:

**Ron Avery**, Office of Environment & Heritage and **James Miller**, Informed Solutions

*Sharing and Enabling Environmental Data (SEED) portal*

Ron is the Manager of Biodiversity Information Systems and the business owner of SEED in OEH. His current focus is to ensure the data within SEED is current and relevant for local government, industry and community needs.

James specialises in geospatial data and platform architectures, and was the Data Architect on behalf of Informed Solutions on SEED.

Informed Solutions partnered with NSW Government to deliver the Sharing and Enabling Environmental Data (SEED) portal. SEED is an open, whole-of-government portal providing a central, trusted source of Environmental Data for everyone across Government, Community, Academia and Industry. SEED allows anyone to easily search, visualise, and export environmental data such as water, land and air from across government, as well as providing open APIs for consumption by external services. James will share insights into how user engagement and the adoption of open data and platform architectures delivered a new, innovative data platform for NSW. Ron will explore how SEED is being used by government, the new vegetation and biodiversity data, as well as the future roadmap.

**Sam Ebert**, TAFE NSW

*What we have learnt through our Drone Essentials training*

Sam has had a varied spatial background from working at CSIRO in Townsville as a Spatial Analyst investigating the sugar industry, to the role of GIS Manager at the Victorian Department of Sustainability and Environment (now DELWP), to his current role as Head of Department at TAFE NSW's Department of Surveying and Spatial Technologies.

Drone technology is being utilised across most industry sectors. TAFE NSW Department of Surveying and Spatial Technologies developed a short course that was targeted at anyone across NSW interested in learning about drones, RPAS, UAV etc. The course was developed in conjunction with the Australian Association of Unmanned Systems (AAUS), QBE Insurance and local drone specialists. In the 14 months the course has been running over 400 people have participated. This presentation will discuss how the course has evolved, who has participated, what we have learnt, and where to from here.

**David Southwell**, Australian Bureau of Statistics

*Census Data*

David has been a member of the 'Census User Support and Engagement' team at the Australian Bureau of Statistics for two years where he provides support to users of Census data. A large number of clients are TableBuilder users who are looking to analyse complex details from Census results.

David's presentation aims to:

- demonstrate the importance of why the census data is collected, using real world examples that have benefitted businesses, organisations and communities;
- focus on local data to discuss key findings, comparisons over time and across geographies;
- show how to find data products such as QuickStats, Community Profiles and TableBuilder, and how to use these tools to get relevant data;
- explain how to use the data to get the most out of it.

David will highlight detailed data stories from the local area as well as provide data usability services.

**George Havakis**, GISSA International

*A collaborative approach delivering integrated benefits to life cycle management of infrastructure assets*

With over 24 years in the Geospatial Industry as a consultant/adviser to government and business, George combines project management experience with specific knowledge of the intricacies and dependencies of asset management and its supportive technologies.





Effective and efficient asset management needs a framework that allows for consistent practices of data usage, processing and analysis. In order to maximise community utility of infrastructure in terms of asset performance and finance management, A-SPEC, a metadata specification, has been developed. From one council in 2002, A-SPEC has grown to over 55 + authorities across Australia and New Zealand in 2017. This presentation will outline the challenges and benefits, from technical, governance and cultural perspectives.

**John Dawson**, GeoScience Australia

*SBAS Satellite Positioning, GDA2020 and ELVIS*

John leads the Positioning Section at Geoscience Australia. John is responsible for the Australian Government's National Positioning Infrastructure (NPI) which includes a trial of a Satellite-Based Augmentation System (SBAS). He holds a PhD in Earth Physics from the Australian National University.

This presentation will address three significant Geoscience Australia geospatial projects, SBAS, GDA2020 and ELVIS. In part one, the progress of the trial of an Australian Satellite-Based Augmentation System (SBAS) will be overviewed. The SBAS trial will demonstrate for the first time anywhere second-generation (multi-constellation, multi-frequency) SBAS as well as regionally transmitted Precise Point Positioning (PPP) corrections which will enable ten-centimetre positioning accuracies. The unique challenges and opportunities for Australia emerging from these developments will be highlighted. In part two, the update of the Geocentric Datum of Australia 2020 (GDA2020) will be overviewed. In part three, the Elevation Information System or ELVIS will be overviewed. ELVIS is an online system for discoverability and delivery of elevation data. Released in March 2016, ELVIS has delivered increasing quantities of elevation data to users using Cloud based technology.

**Mike Day**, Office of Environment & Heritage

*Regional Scale State Vegetation Type Map: Methods, Products and Innovations*

Mike is a Senior Scientist, Spatial/Remote Sensing Science Division, Native Vegetation Information Science Branch.

This presentation provides an overview of the Regional Scale State Vegetation Type Map; its methods, products and innovations. Recent updates to Riverina and Murray will be illustrated along with remote sensing innovations over the Western Division. Coastal mapping strategies will be explored along with an illustration of the state-wide aerial photo interpretation of vegetation structure.

**James Davis**, Junee Shire Council

*Delivering council strategic outcomes through spatial data*

James is the General Manager of Junee Shire Council. James has worked in local government for twenty five years and in private enterprise for eight. He holds a Masters in Planning, Diploma of Government Financial Services and Graduate Certificate in Local Government. James has held senior leadership positions within the Riverina area.

James will present on how everyday spatial data delivers on strategic outcomes for councils.

**Stephanie Plattner**, State Emergency Service

*NSW Flood Data Access Program*

Stephanie has worked with the NSW State Emergency Service as the Geospatial Intelligence Program Coordinator since May 2016, coming to the agency with over 10 years NSW state government experience.

The NSW Flood Data Access Program is a joint partnership between the NSW State Emergency Service and the NSW Office of Environment and Heritage. The program has 2 main initiatives, the NSW Flood Data Portal and the NSW Flood Database, both of which aim to improve the sharing of key flood data within government and to other stakeholders, so that this information is more broadly available to be considered in strategic level decision making.

**Wayne Patterson**, NSW Spatial Services

*Update and overview of Spatial Services*



## Friday 10 November 2017 NSW Spatial Services

### Brenton Ray

#### *Smart State NSW*

Brenton is the Supervisor of the Environmental Spatial Program for Spatial Services, the custodians of the environmental theme in the Foundation Spatial Data Framework. He is also currently the Project Manager for Smart State NSW, a transformation project aimed at delivering benefits for Tourism and Regional Development, Facilities and Asset Management, Emergency Management / Counter Terrorism and Environmental Management.

Spatial Services is leading the way for government in developing reality models. This rapidly evolving technology now enables high resolution 3D models to be created from various photographic techniques from multiple platforms. The benefits of the Smart State NSW project extend into a 3D built environment for augmented reality, support critical functions such as flood modelling, planning and environmental management, and operating in real time with precise locations for emergency services to name a few. This developing technology increases the value and compliments existing datasets.

### Michael van den Bos

#### *What's in a name? Naming Principles, Processes and Guidelines*

Michael is the Manager, Placenames, Spatial Services and Secretary of the Geographical Names Board (GNB). He is the custodian of the place theme within the NSW FSD and works with the NSW Surveyor General, GNB Secretariat and the Board to assign place names, determine address localities and evaluate new road names.

Everything happens somewhere; and a place name is the most widely used reference for identifying a location. Place names are also increasingly playing a role in identify management. This talk will touch on the importance of place naming in a society and its role in the provision of services such as emergency responses. The presentation will provide a practical overview of how to assign names for places, address localities and roads, and what policies and principles are applied.

### Thomas Grinter

#### *Preservation of Survey Infrastructure (POSI)*

Thomas Grinter is a Senior Surveyor at Spatial Services –DFSI, managing Survey Operations – Regional. Thomas' role includes working with Local Government and other government agencies in preserving and upgrading the NSW State Survey Control Network.

Survey marks provide a wealth of important information and

support billions of dollars in investment, property rights and infrastructure across the state. The loss of survey marks can significantly degrade the integrity of the legal property boundaries and impact on the costs of development projects that depend on accurate position and height. Recently, Surveyor General's Direction 11 was updated in order to provide up-to-date advice on the best way to preserve this important infrastructure.

### Dr Greg Windsor

#### *NSW Whole of Government Addressing Initiatives*

Greg currently heads up the Spatial Services' team that maintains and manages NSW administrative foundation spatial data. This role encompasses custodian responsibilities for the State's addressing, transport, features of interest and administrative spatial datasets. Greg has successfully completed a research based PhD focusing on spatial data and data mining techniques and has achieved a distinction level bachelor in Spatial Information Systems.

Citizens provide their residential addresses to government agencies on a daily basis. Whether applying for a driver's license, requesting a birth certificate or booking into hospital, your address is one of the primary pieces of information required on most government forms.

Spatial Services are looking to improve government customers experience by automating address entry on these forms. This automation will reduce the keystrokes required to enter the address by using state of the art predictive text technology. These enhancements will also allow other key pieces of information to be captured and disseminated in a way that provides summary statistics about each transaction.

### Adrian White

#### *Cadastre NSW*

Adrian is the Program Manager for Cadastre NSW. He has a background in surveying and has worked primarily on business improvement projects across Spatial Services and formerly Land and Property Information. For the last three years, Adrian has led stakeholder engagement activities for cadastral reform, in particular coordinating the creation of a joint Government and industry vision for Cadastre NSW and the capture of current state issues and reform priorities.

Cadastre NSW is the keystone program for Spatial Services, underpinning the development of the Property Development Pipeline. The current program activities include back-capture (conversion of 2000 registered plan images per week into digital landXML data), proposed layer implementation and fast-tracked spatial cadastral upgrades. This presentation will provide an update on progress to date and outline the creation of a Property Development Pipeline to enhance business intelligence in the property sector.

# REGISTRATION FORM Thursday 9 November and Friday 10 November 2017

## Names of Attendees:

1: .....

2: .....

3: .....

Council /Organisation Details: .....

Address: .....

.....

Contact Person: .....

Phone:..... Fax: .....

Email:.....

**Cost: \$165.00 (incl GST) per person and \$132.00 (incl GST) for the second attendee and each subsequent attendee.**

For catering purposes, please indicate if you are attending the half-day session on Friday 10 November 2017\*

Registration cost is inclusive of Friday half day session.

## Payment:

Please find attached the cheque for payment (made out to REROC). Direct Deposit available.

Please invoice quoting Order No:.....

Signed: .....

Dated: .....

**Please Note: Closing date for Registrations – 2 November 2017**

## SEND YOUR REGISTRATION TO

**MAIL:** REROC, PO Box 646, Wagga Wagga NSW 2650

**OR FAX:** 02 6931 9040

**OR EMAIL:** mail@reroc.com.au

## CONFERENCE TO BE HELD AT

Jezza Room, Rules Club, Cnr Fernleigh & Glenfield Rds, Wagga Wagga NSW 2650

## ACCOMMODATION

Accommodation is available at the Quality Hotel Rules Club at a discounted rate. To access the special rate for the Conference please book through this link <http://www.choicehotels.com/AU883?srp=LMEM> or call the hotel on 02 6931 2000 and advise that you are attending the Mapped Out Conference.

## FOR FURTHER INFORMATION

**PHONE:** (02) 6931 9050 **EMAIL:** mail@reroc.com.au **www.reroc.com.au**

*\*To attend the second day session,  
you must be registered to attend Mapped Out*

THIS EVENT HAS BEEN ORGANISED BY:

**RivSiG**  
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