

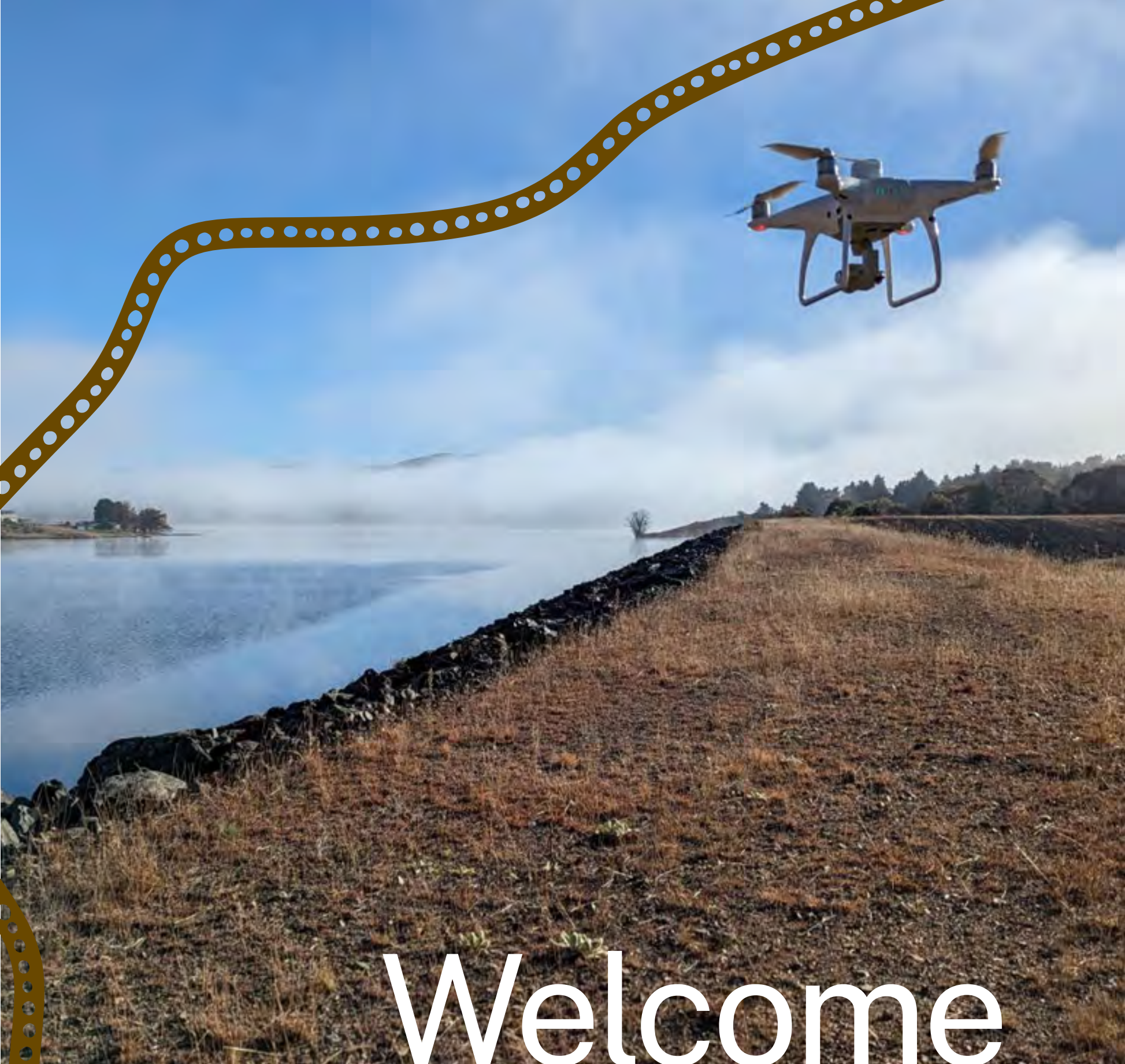
Spatial mapping



NSW Public Works acknowledges that it stands on Country which always was and always will be Aboriginal land.

We acknowledge the Traditional Custodians of the land and waters, and we show our respect for Elders past, present and emerging. We are committed to providing places in which Aboriginal people are included socially, culturally, and economically through thoughtful and collaborative approaches to our work.

Artwork: 'On Country', Charmaine Mumbulla, 2022



Welcome

Spatial mapping

The NSW Public Works Spatial team consists of a multidisciplinary unit of Spatial, CAD and digital data specialists.

The team provide spatial mapping support and digital CAD services to our in-house infrastructure teams and external clients to create innovative digital solutions across a wide spectrum of NSW Government projects.

Web mapping products incorporate the most up-to-date information from external agencies including; best available imagery, emergency services information and other critical government spatial datasets allowing our clients to make better decisions.

Interactive project reporting converts plain Excel spreadsheets and field data into visually appealing dashboards complete with traffic light symbolisation of data, heatmap style mapping and dynamic charts. This reporting type allows the user to rapidly drill down on critical aspects of a project during presentations as an alternative to data-heavy spreadsheets and tables.

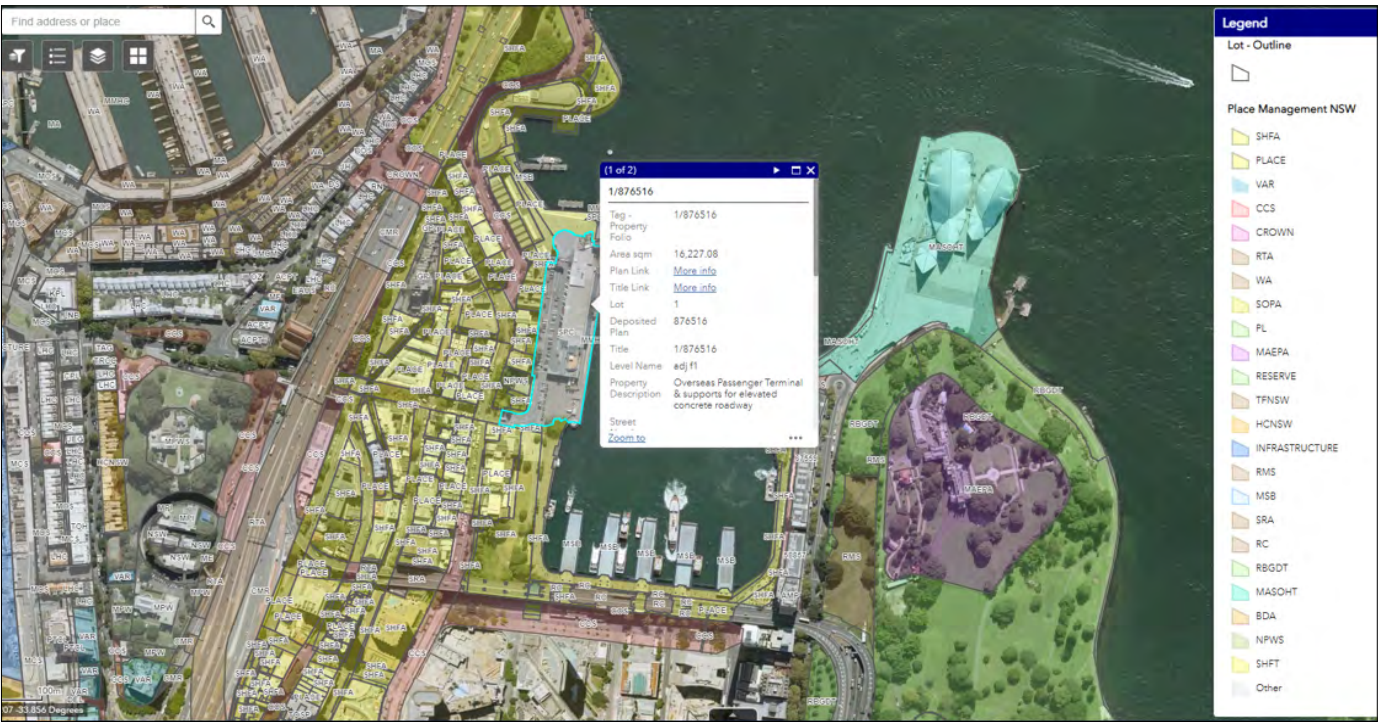
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Our expertise

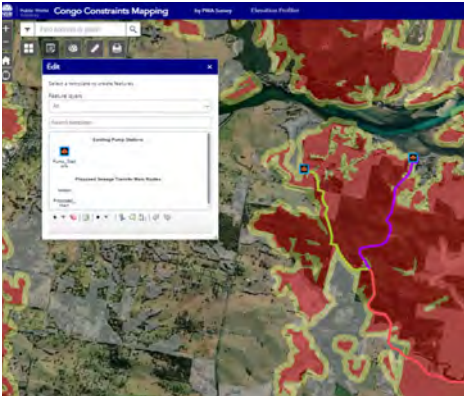
NSW Public Works' (PW) Spatial team ensures the correct **digital mapping solution** is chosen for every project.

- Spatial asset data capture & analysis
- Web Mapping applications
- GIS dashboards
- Field data collection
- Site selection and constraint analysis
- Cartography
- Other GIS Services



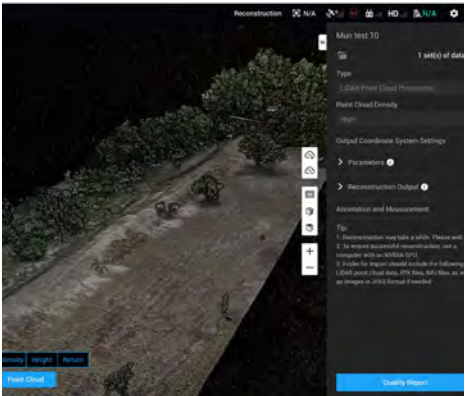
» Web mapping applications

By moving away from paper-based maps the team can create practical interactive web-mapping applications. Utilising ArcGIS Online we can create web apps to allow superior visualisation of data across a project team and with clients. Custom tools within the web apps allow interaction with the data, editing capabilities, routing, filtering and more analysis. The web apps can display data from a variety of different sources including “live” streams of data from government agencies such as Dept. of Planning, Industry and Environment. Keep track of asset locations, a property portfolio and other features. The team can control security settings of individual datasets to restrict access depending on a user’s role and there is also the potential to create web apps for use on Public-facing websites.



» Field data collection

Field data collection is a critical part of infrastructure projects, our team can develop field data collection apps that work on Android and iOS devices utilising ESRI ArcGIS Field Maps. We can tailor the solution depending on what the task is, add fields, ability to capture photos and add documents or videos to a collected feature. Data can be collected live online and viewed back in the office in a WebApp or dashboard or can be collected offline if the data is being collected in an area with limited mobile signal. Data collected in offline mode can be “checked in” as soon as mobile signal returns.



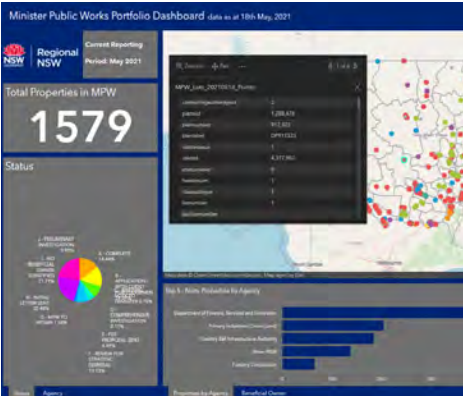
» Cartography

Spatial maps are a valuable tool to visualise data, display project locations or evaluate site constraints. We can prepare maps for multiple uses including project briefings, presentations, briefing notes or large format wall maps up to AO size.



» GIS dashboards

Dashboards are increasing in popularity. By utilising ArcGIS Online Dashboards, you can move away from spreadsheets and MS Access type databases and visualise your data with this exciting and viewer friendly innovation. Obtain a snapshot of stats, graphs, charts, interact with an in-built map and filter by map feature to give you project or feature specific data. From map features, link to documents, project plans or other websites direct from the dashboard. Control access to dashboards based on user roles, have your own customised view of a project or budget. Data updates can be automated so your dashboard updates at set times.



» Spatial asset data capture and analysis

The PW Survey and CAD team work together to deliver an Asset Capture and Management solution utilising modern survey technology and contemporary CAD software packages. Room dimensions and asset information are collected in the field, drafted in the office and then disseminated to clients quickly and efficiently for use in Asset Management Systems.



» Other GIS services

GIS is a powerful tool and can perform many analysis functions such as site suitability, create heat maps, density mapping, view and convert to/from different types of datasets, imagery from planes, drones and satellites, CAD data, KML data and more. We utilise ESRI ArcGIS, ArcGIS Pro, ArcGIS Online, Microsoft Access Feature Manipulation Engine (FME) and Bentley products.

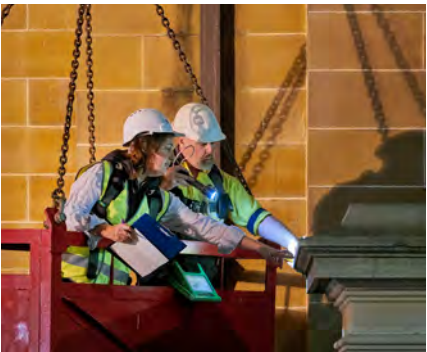


Why choose NSW Public Works?

With more than 400 dedicated staff across our network of 17 regional offices, we are able to quickly and efficiently take on new projects or programs, tailoring the approach to achieve optimal outcomes for the client.

➤ Accredited for planning and delivery of capital works

PW is accredited under the NSW Government Agency Accreditation Scheme for Construction to manage the planning and delivery phases of construction and capital works procurement. NSW State and Local Government entities can directly engage the services of PW under the provision of NSW Government Procurement Board Direction PBD 2021-04 and Section 55 of the Local Government Act 1993, providing efficiencies and cost savings.



➤ Strong focus on quality, environmental and safety management

PW operates under triple certification for quality, work health and safety (WHS) and environmental (QSE) management systems. These systems and processes provide the foundation for delivering quality projects and a continuous improvement culture, that embraces QSE leadership at all levels and integrates QSE into all activities. PW's Project Management Framework is the backbone of our quality system and is used to manage our projects and ensure we deliver to agreed requirements.



➤ State-wide resources

Regional clients benefit from our state-wide network of offices enabling them to source expert project management personnel familiar with the conditions and construction industry issues in their area. This proximity reduces servicing costs, facilitates improved stakeholder communications and enables us to respond quickly to your needs, providing a single point of contact for all services.



➤ Government relationships and knowledge

Successful delivery of complex infrastructure projects relies on effective interaction with stakeholders and regulatory government agencies. PW's unique position within NSW Government enables us to bridge the gap between our clients and Government stakeholders to ensure necessary consultations and approvals are undertaken efficiently and effectively.



➤ Managed risks

We place considerable emphasis on advising clients of their risks on projects, including the options and costs to manage these risks. Wherever possible, risks are identified early and inform our planning and procurement strategy development processes. Risks are continuously monitored and updated as projects progress and discussed and managed with clients and contractors.

Working across NSW



Hunter North West Region

- Newcastle**
117 Bull Street
Newcastle West NSW 2302
- Tamworth**
155-157 Marius Street
Tamworth NSW 2340
- Armidale**
85 Faulkner Street
Armidale NSW 2350
- Dubbo**
209 Cobra Street
Dubbo NSW 2830
- Broken Hill**
Level 1, 32 Sulphide Street
Broken Hill NSW 2880

Greater Sydney & Central West Region

- Parramatta**
6 Parramatta Square
10 Darcy Street
Parramatta NSW 2150
- Sydney CBD**
52 Martin Place
Sydney NSW 2000
- Bathurst**
Level 1, 346
Panorama Avenue
Bathurst NSW 2795

South Coast Riverina Region

- Wollongong**
Level 3, Block E
84 Crown Street
Wollongong NSW 2500
- Moruya**
66 Campbell Street
Moruya NSW 2537
- Queanbeyan**
257 Crawford Street
Queanbeyan NSW 2620
- Wagga Wagga**
4 Coleman Street
Wagga Wagga NSW 2650
- Griffith**
200 Murray Road
Hanwood NSW 2680
- Dareton**
1998 Silver City Highway
Dareton NSW 2717

North Coast Region

- Lismore**
120 Dalley Street
Lismore NSW 2480
- Coffs Harbour**
359 Harbour Drive
Coffs Harbour NSW 2450
- Port Macquarie**
Level 2, 41-47 Horton Street
Port Macquarie NSW 2444

NSW Public Works

- PROJECT MANAGEMENT
- ADVISORY & ENGINEERING
- ENVIRONMENT & PLANNING
- SUSTAINABILITY
- ASSET MANAGEMENT
- SURVEY & SPATIAL



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