



Precise Spatial is a specialist surveying company offering comprehensive survey solutions in the fields of mining infrastructure, transport & construction. Our company boasts extensive experience in catering to diverse project scopes in numerous geographical locations © with both FIFO (Fly-In, Fly-Out) & DIDO (Drive-In, Drive-Out) capabilities.

Since its inception in 2017, Precise Spatial has earned a reputation for its focus on safety, expertise & integrity within the industry. These accomplishments are the direct result of our dedicated team's professionalism, quality assurance practices & commitment to continuous improvement.

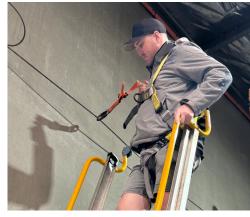
Our Orange and Mascot office locations are designed to facilitate staff movement, training & support for our projects. Since opening the Orange office in 2019, we have continued to service, maintain & support projects in Central West. The Mascot office serves as a hub for interstate staff, enhancing our FIFO capacity and training.











OUR VALUES, VISION & MISSION **SAFETY** - Safety remains our foremost priority. We support & encourage a culture where our employees are productive & vigilant in maintaining a safe workplace. As part of our commitment to safety, we actively employ standards, procedures & toolboxes to implement essential safety precautions, as well as a dedicated safety officer which functions above project specific safety standards.

EXPERTISE - Precise Spatial recognises the values of diversity, experience & best practice opportunities to ensure the company's success in delivering great results. We encourage furthering education & skill development with many staff currently studying. With dedicated CAD & LiDAR departments we are capable of providing a comprehensive solution & manage projects remotely.

INTEGRITY - Consistently act with honesty, integrity & trust within the team & to our clients. We take pride & ownership of all our works & maintain best quality assurance practices.

COMMUNITY - Precise Spatial regards high-quality Science, Technology, Engineering and Mathematics (STEM) education as an important pathway for future surveyors. We are currently supporting STEM programs such as the CSIRO Young Indigenous Women's STEM Academy, which aims to set young women up for success.





OUR EQUIPMENT





NATHAN RICHARDSON - Director

ANDREW JACKSON - Survey Operations Manager

ISAAC RICHARDSON - Survey Manager - NSW Central West & CRP

CAMERON HACKSHALL - Survey Manager - FIFO Projects

LUKASZ SKOP - Digital & Spatial Manager

JASON CALDERON - CAD & IT Manager

ROCHELLE HANANIA - People, Performance & Culture Manager

With over 350 years of combined indsutry experience, Precise Spatial has the expertise & talent to get the job done right. Our extensive background in Surveying, CAD, Digital & Spatial & Management ensures that every project is executed efficiently & effectively.

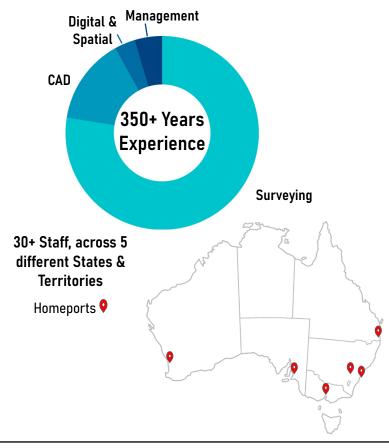
When you choose Precise Spatial, you're partnering with a team that has proven track record of success & a commitment to excellence in all of our work.

Precise Spatial acquires equipment through C.R.Kennedy, the sole & exclusive distributor of Leica Geosystems instruments.

Precise Spatial currently possess the following survey instruments:

- Leica TS16, TS15, TS13 1" & 3" Accuracy
- Leica MS60 0.5" Accuracy
- Leica LS15 Digital Level
- · Leica DS2000 GPR
- · Leica GNSS Rover GS14, GS16 & GS18
- vLoc3-Pro Utility Locator
- Leica HDS ScanStation P40
- DJI Phantom 4 Pro UAV Drone
- DJI Matrice 350 RTK UAV Drone
- CHCNAV AlphaAir 450
- Emesent Hovermap ST-X

Accompanying these instruments are all supporting survey resources.



- Surface Compliant 4WD vehicles
- Underground Mine Compliant 4WD vehicles with Self Rescuers

Programs used to support the survey tasks include:

- 12d Field & 12d Model
- AutoDesk AutoCAD, Civil 3D, Recap Pro, Revit & Navisworks
- Pointerra3D
- Leica Infinity
- · Leica Captivate
- Leica Viva
- · Leica Cyclone3DR
- Leica Cyclone Register 360
- · Leica Cyclone Core
- CoPre 2.0
- Emesent Aura
- MicroSurvey StarNET



At Precise Spatial, we take pride in offering a diverse range of survey disciplines, led by a team of motivated & professional surveyors. Having established ourselves with a wealth of experience & expertise in the Surface & Underground Mining Infrastructure sector, we have branched into Road, Rail, Renewable Energy & LiDAR services.

Our comprehensive survey solutions span a variety of fields & services, offering off-site drafting support, utilising our team's proficiency in programs such as 12d Model & AutoDesk Civil 3D.

We are committed to delivering precision & excellence in every project, ensuring that our clients receive the most accurate & reliable survey solutions tailored to their needs. Our dedication to innovation & quality, sets us apart as a leader in the surveying industry. We strive to utilise & learn the latest technologies, methodologies and training, to stay up to date with emerging trends.





ENGINEERING SURVEY



LIDAR - SCANNING & UAV



SURFACE & UNDERGROUND MINING INFRASTRUCTURE



BUILDING INFORMATION MODEL (BIM)



ROAD SURVEY



SUBSURFACE UTILITIES SERVICES



RENEWABLE ENERGY



MONITORING SURVEY



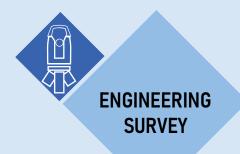
RAIL SURVEY



ENGINEERING DRAFTING







Surveyors provide crucial survey support, inspecting, monitoring & analysing structure designs on a variety of projects, including Civil, Structural, Mechanical & Piping. Using specialised Leica instruments such as TS13, TS15 & TS16, along with CAD programs such as 12d Field & AutoCAD Civil 3D. Precise Spatial is able to conduct accurate survey reports & calculations.







Precise Spatial has established itself as a reliable leader in mining infrastructure projects. Our services covers a wide range of solutions for both surface & underground survey, including:

- Installation, survey & adjustment of complex control networks to a high degree of accuracy
- Intrepretation of PDF design plans, calculated into CAD for on site survey
- Scanning & modelling of design for volume & clash detection
- Set-Out, Pre-Pour & As-Built surveys & reports for Civil, Structural, Mechanical & Piping works

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We possess the capability to efficiently collect road data related to the planning, design, construction & maintenance of roads & ensure that survey reports falls within specified tolerances. We adhere to the Roads & Maritime Services (RMS) conformances & standards, complying with the G71 Specifications to ensure the highest quality & adherence to regulations.



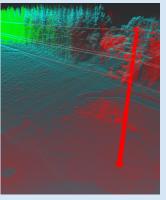






With a commitment to precision, efficiency & sustainability, we leverage advanced technologies such as drone DJI Matrice 350 RTK equipped with our LiDAR systems to support the successful development & operations of renewable energy projects throughout Australia. Our rigorous quality control process ensures that all deliverables are fully compliant with industry standards & regulatory requirements.





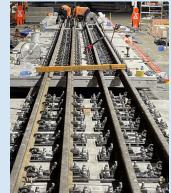




We have worked on the railway network as well as on the pre-fabrication of tracks & alignment installation. Precise Spatial is able to provide support on both ends of the project using the best surveying equipment available to specific Australian standards & ensure work compliances. This is essential for ensuring safety & efficiency for smooth operations of the rail network.







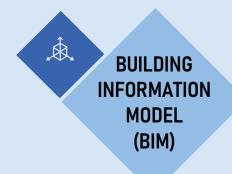


LiDAR services provide unprecedented amounts of data, ensuring large areas are surveyed safely & efficiently. This facilitates further analysis, drafting, modelling, inspection, & obtaining measurements without needing to return to the site. Our methods include the use of the Leica ScanStation P40, which delivers the highest quality 3D data & High-Dynamic Range (HDR) imaging, as well as the latest generations of drone & vehicle-mounted scanners.

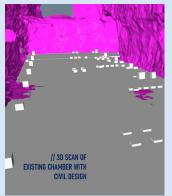


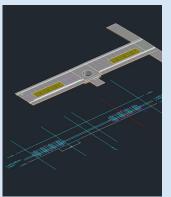


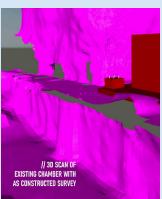




Initial stages of any project, BIM provides visual assessments & verification in 2D & 3D properties. Throughout the project, BIM will be constantly updated with amended or additional information to maintain & ensure reliability. This can generate an immersive virtual environment that can be explored for a greater understanding of the project & assist in future design & verifications.









Using specialised equipment to scan the area, Precise Spatial can provide a detailed report before digging commences. The report can provide details such as type and location of these utilities & ensure all safety precautions are managed for all workers on site as well as the environment. All Precise Spatial Utility Location services are conducted to, & delivered in accordance to the Australian Standard AS 5488.1-2019 Subsurface Utility information (SUI)









Precise Spatial is able to establish control networks & provide measurements & checks of horizontal & vertical movements. These checks are made regularly & repeated in order to determine the amount of movement or deformation in order for it to be reported.



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| 87256.542 | 2 | 0 | 0 | 0 | 0 | 1 | 1 |
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| 43402.280 | -2 | 0 | 1 | 0 | 1 | 0 | 0 |
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Balranald Civils Client: AWCON Location: Balranald, NSW



Sydney Airport - South-East Sector Upgrade Client: Fulton Hogan Location: Sydney, NSW

Parkes Special Activation Precinct (SAP2)

Client: Fulton Hogan Location: Parkes, NSW

The rutile-rich deposit will offer high grade, high quality critical mineral products produced in Australia, including rutile, zircon, synthetic rutile and rear earths. The mineral sand mines will include various processing

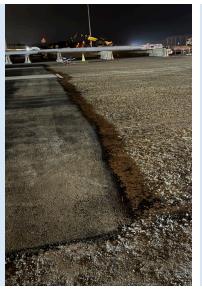
- Intall, survey & adjustment of complex control networks
- Interpretation of PDF design plans, calculated into CAD for on site survey
- Create Pre-Pour & AsBuilt reports for conformance
- Create QA reports for AsBuilt data



The South East Sector Apron
Development is situated in the
Sydney airport's South East sector.

The project is designed to prepare the airport for growing demand and increased passenger traffic, involving construction of two new taxiways, extension of existing taxiways, and development of six new aircraft parking bays.

- Create Set-Out & Pre-Pour reports for conformance
- Survey requirements for conduits & piping



Parkes precinct covers an area of 4,800 hectares in the Central West region of NSW. It is situated at the only junction of Australia's two rail spines, the Inland Rail and the Trans-Australian Railway. Stage 2 is the installation of polyethlene pipe through open trenching & underboring roads & rails accompanied with two pump stations.

- Monitoring & reporting of rails during underboring
- Survey requirements for open trenching & underboring utility installation
- Create QA reports for AsBuilt
 Data



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Carrapateena Surface - Coarse Flotation Building Client: AWCON

Location: Carrapateena, SA



Carrapateena Surface - Ventilation Riser Client: AWCON Location: Carrapateena, SA



North Head Water Resource Recovery Facility
Client: San Marcos

Location: North Head, NSW

Works continues at the Carrapateena Expansion Project, with the team providing comprehensive survey solutions for the Coarse Flotation Building, which plays a pivotal role in the mineral processing phase of the project.

- Install, survey & adjustment of complex control networks
- Interpretation of PDF design plans, calculated into CAD for on site survey
- Create Pre-Pour & AsBuilt reports for conformance
- Create QA reports for AsBuilt Data
- Create verticality reports



Our team is providing crucial data to ensure accurate placement & alignment verification, supporting the installation of the Ventilation Riser at the Carrapateena Surface Structural, Mechanical & Piping Project.

- Install, survey & adjustment of complex control networks
- Interpretation of PDF design plans, calculated into CAD for on site survey
- Create Pre-Pour & AsBuilt reports for conformance
- Create QA reports for AsBuilt Data



The project involves the construction of two new digesters & associated structural & mechanical install that will treat up to 336 million litres of wastewater daily. This system will serve an area covering 452 square kilometres, including Seven Hills in the west, Bankstwon to the south & extending north to Ku-ring-gai & Calloray

- Install, survey & adjustment of complex control networks
- Create Monitoring Reports
- Create Set-Out, Pre-Pour &
 As-Built reports for
 conformance
- Create QA Reports of As-Built Data

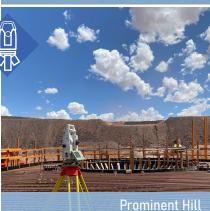




Orange Southern Feeder Road Stage 4 Client: MAAS Location: Orange, NSW



Cadia U/G Expansion Project Client: NEWCREST Location: Orange, NSW



Shaft Collars & Civil
Client: AWCON
Location: Prominent Hill NSW



Flyers Creek Wind Farr

Client: LAKEFIELD Location: Flyers Creek, NSW



VR11 & VR51
Client: M2P
Location: Winmalee, NSW



Cadia Expansion Project Stage 1 Civil & SMP Client: M2P Location: Orange, NSW



Carrapateena U/G Expansion Project Client: AWCON Location: Carrapateena, SA



Wastewater Treatment
Plant Upgrade
Client: Ferrycarrig



Cadia Expansion Project Stage 2 Civil Client: ACG Location: Orange, NSW



Cobar Mine Replacement Mill Client: KMS Location: Cobar, NSW



Sydney Harbour Bridge Redecking Client: Brefni Location: Sydney, NSW































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