

Geographic Information System (GIS)

Capturing, recording and sharing spatial data is vital to engineering projects.

Our experienced team unlocks the full potential of GIS on your projects with creativity and simplicity. We have a strong track record in bringing together technical and discipline-specific information and presenting it in meaningful ways. These outputs enable our clients to easily identify issues and constraints.

As part of planning and feasibility assessments, CNC Project Management can take your vision for a project and find an optimal site or alignment to meet that vision. We have access to key information about the project area from established mapping databases, such as threatened species registers.

We provide options that balance constraints and opportunities to inform project decision-making.

Our in-house GIS team uses the latest technology to capture project information. For example, we use GIS applications on tablet devices for field data collection activities. Data is accurately recorded, stored and made available in a range of useful formats.

This easy-to-use technology increases effectiveness in the field and delivers significant benefits to project planning and design.

We offer the following GIS services:

- **Managed data service** – source, manage and maintain spatial data with high quality cartographic and reporting outputs
- **Alignment sheet generation** – mapping linear projects such as pipelines, power lines and transport corridors
- **Terrain modelling** – terrain surface generation, line-of-sight and viewshed analysis, cut and fill calculations
- **GPS and field data collection** – use of GPS units, tablets and mobile phones in the field to capture relevant survey data at a suitable scale
- **Pipeline alignment mapping** – GIS database design, alignment selection and decision making, alignment sheet generation, construction and survey area creation
- **Land tenure assessments** – GIS desktop based assessments of client landholdings and assets
- **Constraints and opportunity analysis** – site suitability, analysis and design
- **GIS support for environmental planning and visualisation** – GIS input into impact assessments, line lists and surveys.



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- Constraints and opportunity analysis



CONTACT US

Contact Iain Mackey, CNC's Data and GIS Manager, to find out more:

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