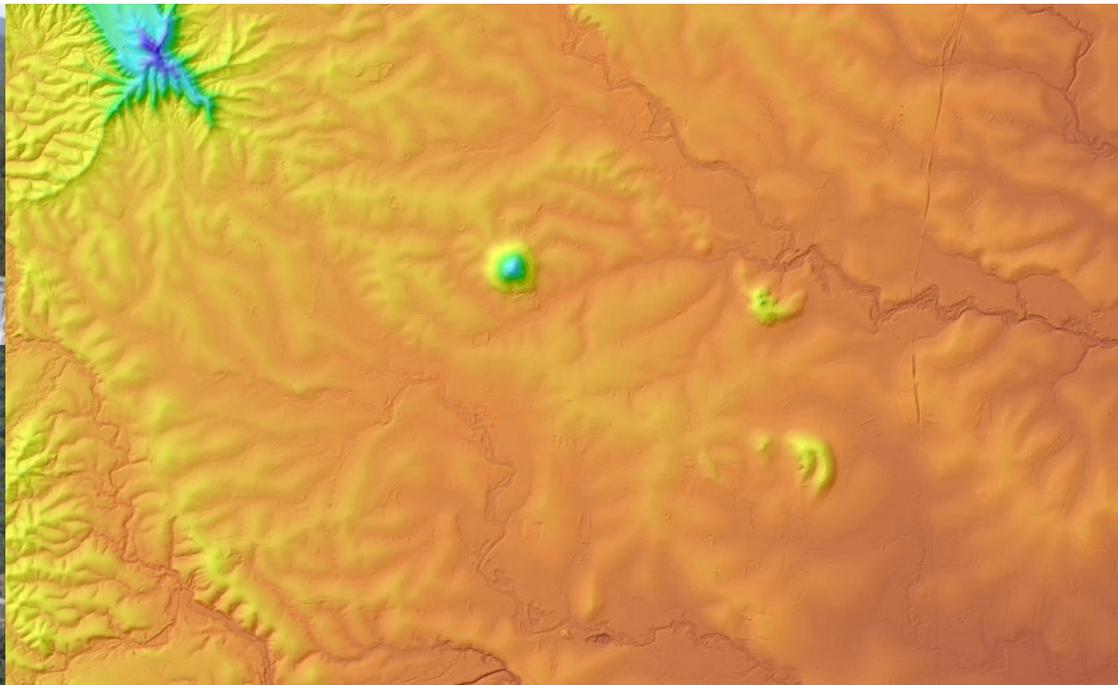




Geospatial Services

# A bird's eye view of our world





Geospatial Services

## A bird's eye view of our world



Geospatial information enables a better understanding of the world around us and assists planners, decision-makers, users and the community to comprehend issues and participate in solutions. That's why geospatial data and solutions are essential in almost any environmental project. GIS streamlines the model to identify problems and find the ultimate solutions.

Ecosure's GIS team and professional ecologists take a shared approach to problem solving, working together seamlessly to deliver integrated solutions to complex issues within the government, airport, defence, mining and resources, infrastructure and development, and energy sectors.

Ecosure uses geospatial services to synthesise information and provide clarity around sometimes complex ecological systems and issues.

Here is just a sample of what we can do:

### Mobile mapping solutions

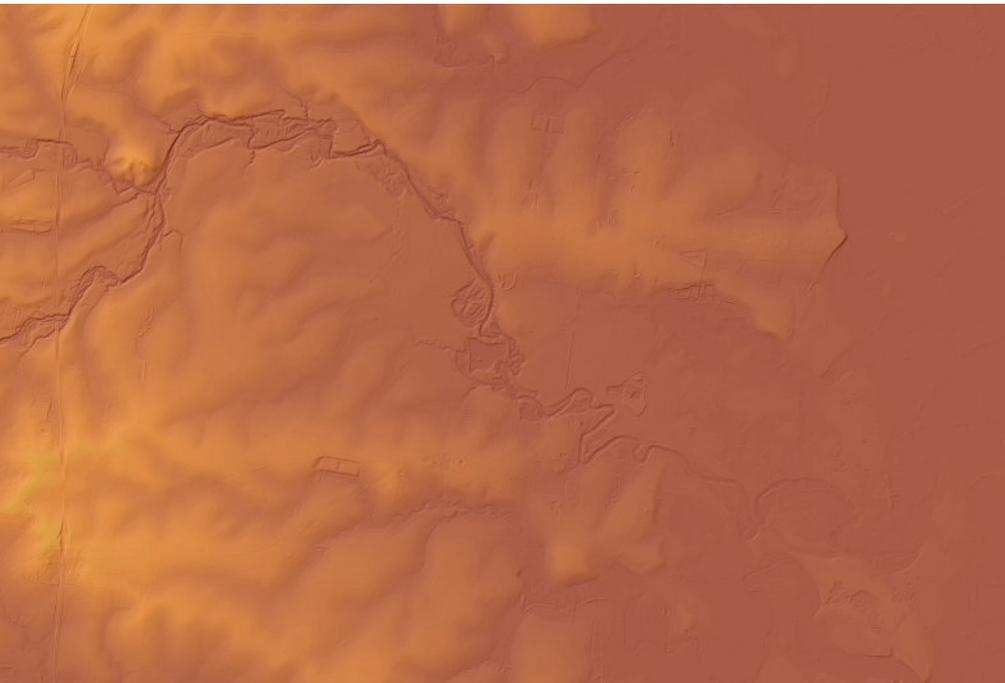
- Ecological assessment and planning
- Weed mapping

### Spatial analysis

- Large-scale resource sector environmental approvals
- Ecological offset site selections and implementations
- Catchment-scale water resource assessments

### Conservation planning

- Modelling for systematic conservation planning
- Prioritisation for acquisition and conservation activities
- Threat identification and mitigation planning



## Our Experience

# A sample of our recent projects

### Proactive Weed Mapping

Our client conducts weed mapping for a large conservation reserve to facilitate understanding of the current extent of weed infestations, provide a scientific basis for prioritising and resourcing weed control projects and identify new weed threats.

Ecosure's GIS team played a key role in this project, supporting the field crews to efficiently and effectively conduct field surveys. Ecosure designed and implemented electronic data collection forms to streamline data collection in the field. Scripting and form customisation tools were used to ensure integrity of collected data and eliminate errors. Forms were pre-loaded with drop down entries and tailored values enabling the field crew to efficiently collect geo-referenced data, while remaining data fields populate automatically based on the data entered within the rest of the form.

Data was available for processing immediately after surveys were complete, facilitating rapid analysis and reporting to our client and contributing to early intervention weed control in sensitive and protected reserves.

### Substantial Remnant and Core Habitat Mapping

Our client had identified four substantial remnant patches and one coastal wetland and island core habitat area within the 'Urban Footprint' designation of the Regional Plan. Without clear delineation and defensible buffers, the risk of future development within these patches was significant.

Ecosure recommended and used Marxan, a GIS based conservation planning system, to define the boundaries and buffers of the remnants

and to prioritise properties for acquisition and inclusion in conservation programs.

The products from this project will inform our client's future planning scheme and ensure that, despite development pressures, the most valuable habitat will be protected into the future and prioritised for conservation investment.

### Aerial Mapping of Madeira Vine and Cats Claw Creeper

The invasive Madeira Vine and Cats Claw Creeper represent significant threats to the ecosystems of sub-tropical Australia. Locating their presence deep in rugged bushland demands radical and cutting edge solutions.

Using an Ike laser operated by an experienced ecologist from the open door of an R44 helicopter, occurrences of these weeds were mapped to an accuracy of less than one metre with repeated aerial passes during just one flowering season ensuring accuracy reliability of between.



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