

Geoscape Roads

The digital representation of Australia's road infrastructure

With **Geoscape Roads**, you can access consistent details about Australia's road infrastructure – including public, private and rural roads. Get road geometry and attributions such as the number of lanes, lane direction, speed limit, road material, access type and more. The roads are defined and classified at a national level using government road records.

We've done the work to aggregate road networks across the country into a single network. We review and correct any road connectivity issues at state and territory borders by cross-checking against high-quality imagery and other reference data, which is standardised, integrated and topology-corrected before being released.

For a broader view, **Geoscape Transport** is made up of road, rail and airport datasets. When used together, you get a detailed spatial picture of Australia's transport network.

Industry Use Cases

Visualisation and analytics

Use road data to build base maps as visualisations of the road network. This will support dynamic segmentation and other valuable analysis.

With connected borders and rigorous topology rules, Geoscape Roads is the ideal base for creating reliable visualisations.

Transport modelling

Predict patterns, assess future potential scenarios, identify actual and potential bottlenecks, and simulate network changes.

Be better informed to make decisions about proposed developments or infrastructure needs.

Logistics planning

Plan, manage and maintain your infrastructure more effectively.

Understand the limitations of roads. Check road materials and lane types. Plan better routes so you can build safe and reliable roads and highways.

Planning Data Features

1 Australia-wide

A national digital dataset representing the road network across all states and territories of Australia. Urban and rural areas are available in a data model to suit your needs.

2 Descriptive road attributes

Geoscape Roads is made up of numerous categories and attributes. You can find out whether the road is a street, circuit, avenue or place. You can classify roads into hierarchies such as national or state highways, arterial or sub-arterial roads and further define them into service roads, busways, ferries and footpaths. Lane descriptions tell you whether it's a single-lane or has multiple lanes. Public roads can be differentiated from private roads in some areas, and surface type can reveal whether it's a sealed or unsealed road.

3 Frequent updates

With Geoscape, you can focus on your business and save money by relying on us for a consistent, continuously processed representation of Australian roads. We update any changes to road attribution or geometry and release it monthly.

4 Multiple formats

Geoscape Roads is a vector data product. It is available for formats that can store the data and maintain its spatial precision, including ESRI Shapefile, MapInfo TAB, File Geodatabase and GeoJSON. Access the entire country's road infrastructure in an easily accessible single national file (format permitting).

5 Road network connectivity

We aggregate isolated road networks into a single national file so you get maximum consistency in road geometry and attribution across borders. By manually reviewing and correcting any connectivity issues at state or territory borders, you can be certain the data is standardised and ready for you to start your analytical and visualisation work.

6 Simple model with improved description

Geoscape Roads is a feature-based product. Roads typically have one or more linear spatial representation within the dataset. It has the state or territory abbreviation of the jurisdiction where its linear geometry predominantly intersects.



Sample Geoscape Roads data today

Get in touch with us at
info@geoscape.com.au to learn more.

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ABN 23 089 912 710

Unit 6, Level 2, 113 Canberra Ave, Griffith ACT 2603
+61 2 6260 9000 | info@geoscape.com.au

geoscape.com.au