

Geoscape Buildings

Get data on every building across
Australia's 7.6 million square kilometres

Ready to use and consistently structured

Geoscape Buildings is a continually updated dataset comprised of over 16 million buildings derived from satellite and aerial imagery.

It's valuable data provides a statistical picture of Australia's built environment at any level of aggregation. Use various attributes, such as building area, height, roof type, land zoning, indicators for solar panels and swimming pools to answer questions relating from a single address to the whole nation.



Attributes	Urban Areas	Rural Areas
Address count	○	●
Building centroid	○	●
Building Outline (Polygon)	○	●
Eave height	○	
Ground elevation	○	●
Ground level value for vertices and centroid	○	●
Roof height	○	
Number of vertices	○	●
Polygon area	○	●
Roof colour	○	
Primary roof material	○	
Roof type	○	
Roof shape	○	
Estimated levels	○	
Tree overhang	○	
Solar panel indicator	○	
Swimming pool adjacent indicator	○	
Building volume	○	
Planning zone	○	●
State/Territory	○	●

Geoscape Buildings Features

Australia-wide building data

Geoscape Buildings represents the entire Australian landmass. Data delivers a clear picture of buildings across the cities, regional centres and rural communities that make up our country's 7.6 million square kilometres.

Release report

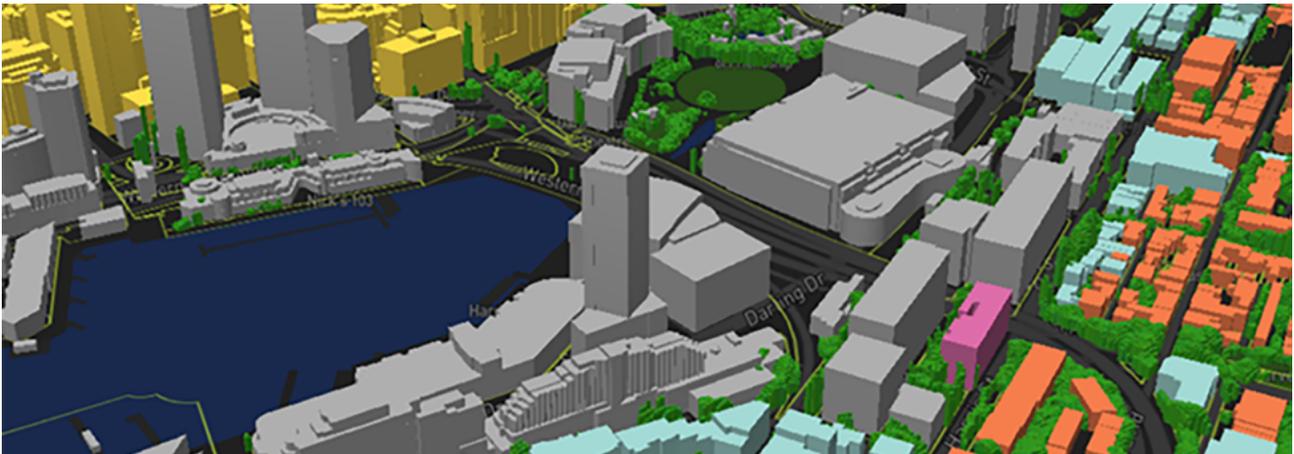
Each release of Geoscape Buildings data includes a report that explains enhancements, issues and other changes to the product. The release report contains statistics and information on the data updates included in the release.

Wide variety of formats

Geoscape Buildings data is available in a variety of coordinate systems and formats. Our team can also deliver custom data solutions in various structures and formats required to power your applications. We do all the hard work so that you focus on your business. **Get in touch** with our team to learn more.

Seamless integration

You can integrate Geoscape Buildings in your workflow through linkages to **Geoscape Cadastre, Property, and G-NAF**. Reliable and seamless integration between Geoscape's products saves you time.



Why Geoscape Buildings?

🕒 Save time & boost productivity

Whether your goal is to power projects and processes, or create a location-based solution, our accessible, easy-to-use data allows you to spend less time gathering data and more time using it.

📄 Up to date buildings on demand and also as custom data solutions

Our self serve data distribution platform lets you select your data and download it as you go. Or, if you are looking at custom data solutions for Geoscape Buildings to power your application, our team can help.

📊 Reduce costs, improve efficiency

You can significantly reduce costs and improve overall efficiency by leveraging Geoscape's sophisticated data. Avoid manual data work and reduce your lead times. Consistent formats cut back integration issues.

📈 Improve decision-making

Location-based analysis can reveal illuminating insights for businesses and offer predictions through modelling. With access to Geoscape's comprehensive, reliable data you can make better, more informed decisions and track the results over time.

Latest updates to Geoscape Buildings

We have enhanced our Geoscape Buildings dataset to include new urban buildings derived from aerial imagery. You'll now see an even higher level of quality and accuracy.

1 Greater spatial accuracy

Enhancements from aerial imagery have improved building alignment with location in the real world, enabling more accurate relationships with complementary features such as land parcels and addresses.

2 Building representation

Our enhanced Geoscape Buildings data provides a cleaner representation of the true shape of a building through polygon outlines.

3 Building completeness

Using aerial imagery combined with our existing methods allows us to get a clearer picture of the urban landscape. We target the capture of >98% of all buildings, even those partially obscured under trees. You now have access to improved analysis and visualisation.

4 Solar and pool

Sharper imagery coupled with cutting edge AI has significantly enhanced your ability to associate the presence of solar panels and swimming pools with buildings.

5 Enhanced currency

Rather than updating smaller sections, the latest Geoscape Buildings is updated in widespread regions and entire cities to improve the overall currency of the dataset. Areas will be updated on a regular schedule so you can plan your projects with certainty.

See more. See it clearly.

New features and improvements deliver even greater spatial accuracy, better building representation, enhanced solar and pool information, and updates you can rely on.

Accessing Geoscape Buildings data is easy.

You can source buildings data for your project via API integration, downloading data from our self-serve portal or through established partner network. Our team can also deliver custom data solutions in formats you need to power your applications.

Geoscape Buildings use cases are limited only by your **imagination**

Insurance

It is essential for insurance underwriters to understand the precise location of buildings and their proximity to hazardous events such as storms, flood zones and bushfires.

Geoscape Buildings data, along with **Geoscape Addresses, Cadastre, Property and Trees data**, can support powerful risk analytics and algorithms. This gives insurers greater confidence that premiums appropriately account for risk.



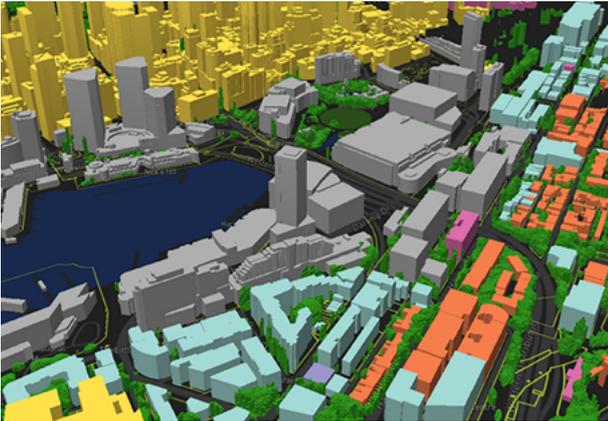
PropTech

By understanding the full potential of an area, real estate companies can determine short- and long-term development opportunities. Integrated interactive map visualisation tools using **Geoscape Buildings, Cadastre and Property data** can help proptech companies identify growth opportunities in an area and track changes over time.



Trusted by:





Urban Planning

The use of 3D buildings data helps create visualisations of design concepts for new development. You can identify changes in the urban landscape, such as subdivisions of greenfield sites, development of blocks into multi-building dwellings, or new high-rise buildings. Understand building layout to enhance stakeholder consultation while planning future development work.



Emergency Management

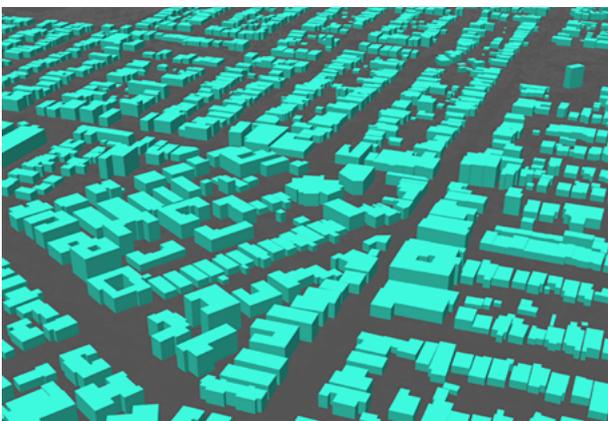
Geoscape Buildings can support modelling for flood, bushfire or other disasters, and anticipate the impact on people and property. It helps guide risk management, early warning systems, emergency response and post-event assessment.

Noise Modelling

Geoscape Buildings data used by acoustic engineering companies enables them to produce noise models to support construction plans and activities. Building outlines can help deliver acoustic, air quality modelling and visual amenity assessment to forecast the impact of infrastructure projects.

Research Studies

Geoscape Buildings data has been used by researchers to see how affordable housing and its neighbourhood context impacts health. Studies have looked at the characteristics of the places we live and how they may impact lifestyle activities and cognitive health. The data is being used to generate new exposure variables for use across multiple research projects.



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ONEMAP



Geoscape delivers the power of location to business and governments.

Geoscape Australia is an independent and self-funded company owned by the governments of Australia.

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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

