

Geoscape Buildings

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

geoscape.com.au

Ready to use and consistently formatted.

Geoscape Buildings provide statistics about the built environment of Australia at any level of aggregation, from a single address to the whole nation.

The dataset is comprised of over 15 million buildings derived from satellite and aerial imagery and is continually updated.

Geoscape's Buildings data comes with various attributes, such as building area, height, roof type, land zoning, indicators for solar panels and swimming pools and more.

These attributes can answer a range of questions.



Attributes	Urban Areas	Rural Areas
Address Count	●	●
Building Centroid	●	●
Building Outline (polygon)	●	●
Eave height	●	
Ground Elevation	●	●
Ground level z value for vertices and centroid	●	●
Roof Height	●	
Number of vertices	●	●
Polygon area	●	●
Roof colour	●	
Primary roof material	●	
Roof type	●	
Solar panel indicator	●	
Swimming pool adjacent indicator	●	
Building volume	●	
Planning zone	●	●
State/Territory	●	●

Geoscape Buildings Features

Australia-wide building data

Geoscape Buildings cover the entire Australian landmass. Geoscape Buildings data is derived from satellite and aerial imagery and delivers a clear picture of buildings across cities, regional centres and rural communities that make up Australia 7.6 million square kilometres.

Release reports

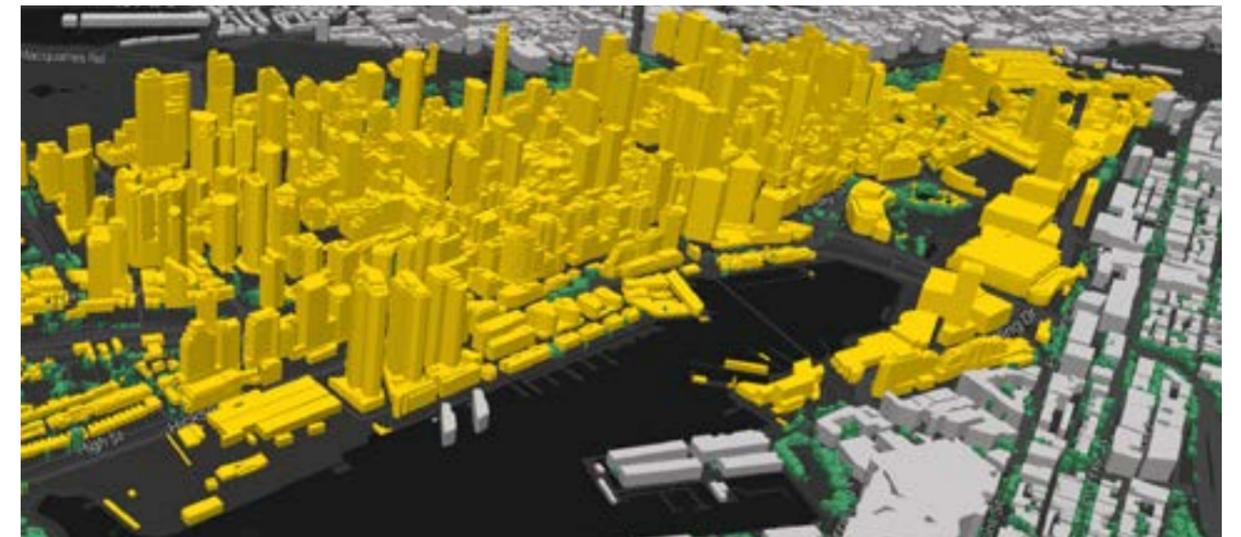
Each release of Geoscape Buildings data includes a report that details enhancements, issues and other changes to the product. The release report contains statistics and information on the data updates included in the release.

Wide range of formats

Geoscape Buildings is a vector-based representation of building outlines, with tabular data for each building's attribution. The vector data is available in GDA94 and GDA2020 coordinate systems and made available through Esri Shapefile, MapInfo TAB, File Geodatabase, and GeoJSON formats. With all the hard work already done, you can access data in the format you need.

Seamless integration

You can integrate Geoscape Buildings in your workflow through the linkages built with Cadastre, Property, and G-NAF. You can be confident of seamless integration between Geoscape's products using these linkages.



Why Geoscape Buildings?

Save time & boost productivity

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

Reduce costs, improve efficiency

You can significantly reduce costs and improve overall efficiency by leveraging Geoscape's sophisticated data and fuel your projects, processes, or products.

Up to date buildings on demand

Our self-serve data distribution platform lets you select your data and download it as you go. Sign in to our self-serve portal <https://geoscape.app/>

Improve decision-making

Location-based analysis can reveal illuminating insights for businesses and fuel predictive analysis. With access to Geoscape's comprehensive, reliable data you can quickly make better, more informed decisions!

Geoscape Buildings features coming soon.

1 Greater spatial accuracy

We are making enhancements to our existing Buildings datasets. From November '21, new urban buildings, derived from aerial imagery, will deliver a higher quality and more accurate representation of the real world.

We will be working in a phased manner to cover Australia's urban areas. Enhancements from aerial imagery capture will improve building alignment with their location in the real world, enabling more accurate relationships with complementary features such as land parcels and addresses.

2 Building representation

Geoscape Buildings provides high-quality building geometry as polygon outlines that help you to view the exact shape of the building. Our enhanced Buildings data captured from aerial imagery represents the real-world buildings with a much cleaner representation of the true shape of the building.

3 Building completeness

With a clearer picture of the urban landscape available from aerial imagery, we're able to target the capture of >98% of all buildings, even those partially obscured under trees. The new Geoscape Buildings dataset will enable improved analysis and visualisation.

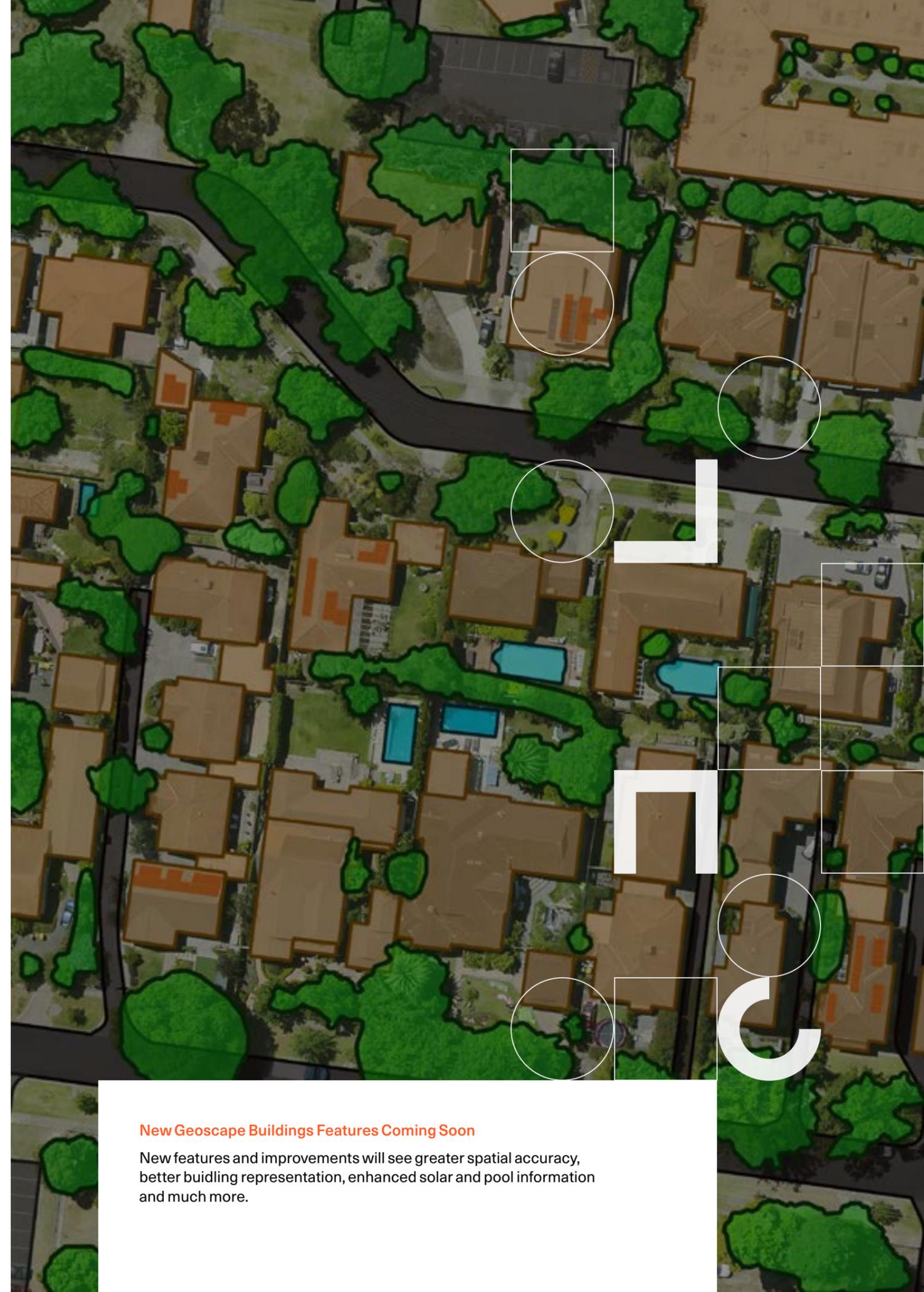
4 Solar and Pool

Sharper imagery coupled with cutting edge AI significantly enhances our ability to associate the presence of solar and swimming pools with buildings.

5 Enhanced currency

Rather than smaller sections, the new Geoscape Buildings will include updates to widespread regions and entire cities which will improve the overall currency of the dataset. Areas will be updated on a regular schedule enabling you to better plan your projects.

Contact us to find out more about what's coming to our buildings dataset: info@geoscape.com.au



New Geoscape Buildings Features Coming Soon

New features and improvements will see greater spatial accuracy, better building representation, enhanced solar and pool information and much more.

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, bushfires, etc.

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



PropTech

The location of a building, links to addresses in that building, information on the planning zone, proximity to vegetation and trees, solar panels and swimming pools, access to roads all collectively can help make the site selection process much easier.

Geoscape Buildings, Cadastre and Planning data includes a range of information to help with the site selection process.



Trusted by:



Urban Planning

The use of 3D buildings data helps create visualisations of design concepts for new development within the context of its surroundings. It reveals how it integrates with the local area and enhances stakeholder consultation while planning future development work.

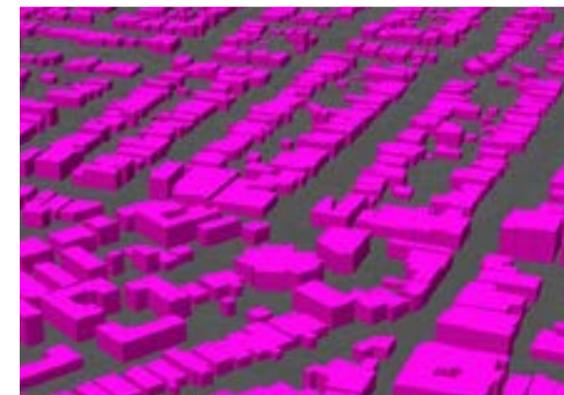


Emergency Management

Geoscape Buildings can help model a flood, bushfire or other disaster 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. 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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