



Woolpert

Modelling Capability Statement

Overview

As a long-standing industry leader in the Asia-Pacific region, Woolpert provides advanced modelling solutions to prominent clients across the Architecture, Engineering, and Construction (AEC) industry. Utilising the latest tools and technologies, we collect, analyse, and rationalise complex data into reliable, functional and high-quality model products, tailored to our clients' needs.

Being a full-service geospatial provider, we are able to capture conditions across a broad range of environments, inclusive of on the ground, in the air, and at sea. Our holistic approach enables trust in a comprehensive single source of truth to provide valuable insight on your project assets, whilst eliminating the need for dealing with multiple service providers.

From beginning to end, we keep data and processes in sync, ensuring consistent quality at every phase. With a focus on client needs, we are committed to delivering the best, most cost-effective, and high-quality solutions.

Our core areas of expertise:

- Topographic LiDAR
- Aerial Imagery
- Satellite Imagery
- Bathymetric LiDAR
- Hydrographic Survey
- Land Survey
- UAV / RPAS Survey
- Terrestrial Laser Scanning
- Scan-to-BIM
- Hosted and Managed GIS
- Spatial Digital Twins
- Consulting and Advisory



Why leading AEC companies choose Woolpert's modelling services



Tailored solution: Our models are tailored to your specific requirements and budget, saving time and costs in avoiding unnecessary information.



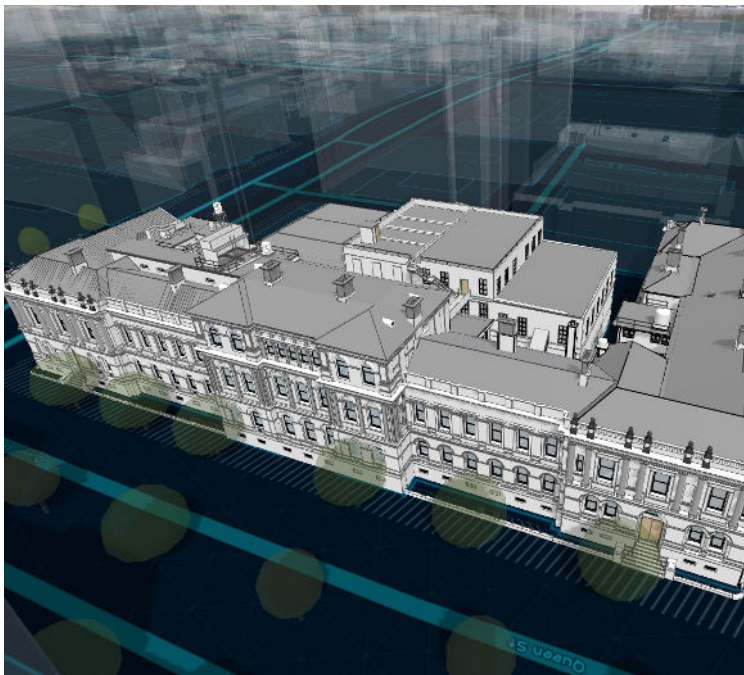
Flexible data delivery options: Flexible model formats for compatibility with your systems and preferences, ensuring ease of use across any design or viewing platform.



Reduced investment overheads: Woolpert models are lightweight, rationalised, and functional representations of captured site data, taking away the need for investment in storage or additional processing hardware to handle heavy point clouds.



People-first safety: As-built survey models support visualisation of current site conditions, ensuring safe analysis from the comfort of your desktop.



The Three "BIM"s

Woolpert recognises that there are a lot of complexities and rhetoric around the concept of "BIM", so in simple terms we look at it as three distinct terms:

- Building Information Models
- Building Information Modelling
- Building Information Management

Having a wealth of experience in supporting our clients in their BIM needs, Woolpert understands what is important and excels in collaboration, integrating deliverables into existing BIM frameworks, and advising on best practice.

Diverse modelling capabilities

Woolpert has the capability to model and deliver in numerous formats across multiple platforms, inclusive of Bentley Microstation, RM & Assoc.'s Rhinoceros 3D, and Autodesk's AutoCAD, Civil3D & Revit.

Additionally, point cloud survey data is available in multiple formats, with supplementary imagery provided through friendly viewer platforms such as Leica's TruView and Riegl RiPANO.

All of the above are just a few of our specialties, with more beyond this that can be utilised depending on project requirements.



woolpert.com
asiapacific@woolpert.com



Tailored modelling solutions

At Woolpert, we understand that each project has its own distinct characteristics, demanding a tailored approach to service delivery.

We provide customised modelling solutions that precisely match the unique requirements of each project. Our commitment to innovation drives us to collaborate closely with our clients, guaranteeing that our services fulfil their exact needs.

Our proficiency in navigating the shifting terrain of construction and design, with specialisations in BIM, Digital Twins, and Smart Cities, is supported by decades of industry experience. Woolpert is dedicated to offering innovative, bespoke solutions for every project, ensuring optimal outcomes and forward-looking results.

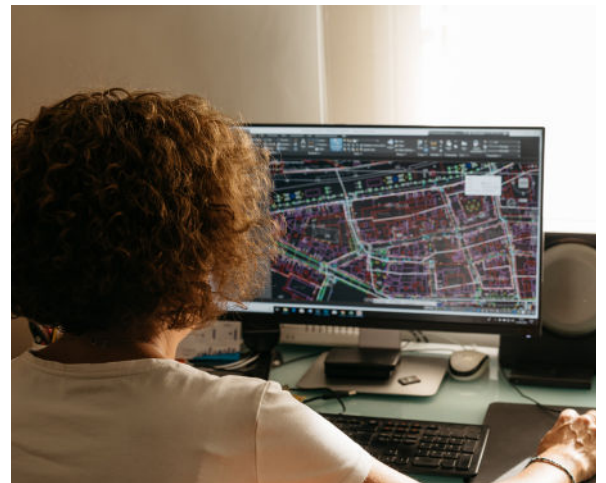


Standards & Compliance

Woolpert positions itself as a leader and innovator, drawing inspiration from the UK's adoption of BIM standards, with recognition of the potential for the same within the Australian market.

Incorporating both international and Australian standards into our practices, as well as Classification and IFC operability, our modelling team ensure BIM-ready models, compliant with industry needs.

With experience across a broad range of project Common Data Environments (CDEs) (e.g. Autodesk Construction Cloud, Oracle Aconex, Asite Adoddle, etc), Woolpert is able to seamlessly integrate within our clients' operational frameworks. This flexible and bespoke approach to our work ensures Woolpert are recognised as the best in our field.



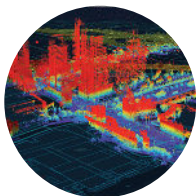
One-stop geospatial solutions provider

Our experts provide accurate and comprehensive information, which can be used for a wide range of applications such as land development, urban planning, mining, and more.

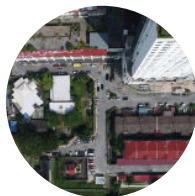
With Woolpert, you can trust that you will receive accurate and reliable survey outputs that will help you make informed decisions.



3D Models & BIM



Point Clouds



Imagery



Terrain Models



GIS & Mapping



3D Photomesh

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Case study

TLS and 3D models of Melbourne CBD block

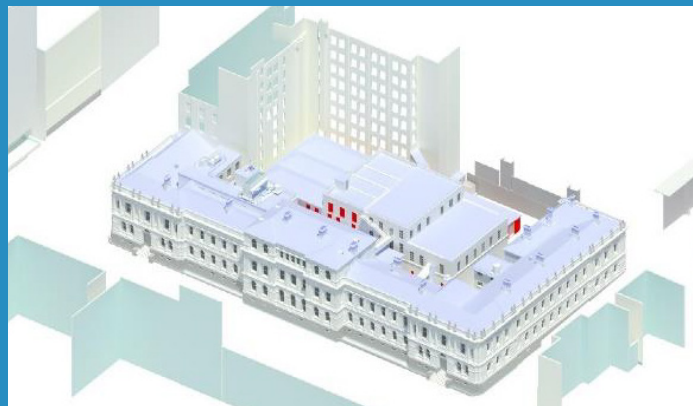
This project is one of a series completed by Woolpert throughout Australia for our client, Architectus.

We deployed our specialist land survey team to undertake Terrestrial Laser Scanning of a Melbourne CBD block to assist with a major property development. This valuable geospatial data provided a higher level of detail at street level, which complemented larger scale Geocirrus building models.



3D modelling and surveying for land titles office

Woolpert was tasked with creating a comprehensive 3D Revit Model for the Melbourne Land Titles Office, covering both the building and its surroundings, enhanced by topographic and Title Re-establishment surveys. Achieving a Level of Detail (LOD) 300, the model was essential for guiding design decisions and future planning. The project involved advanced Terrestrial Laser Scanning (TLS) and 3D modelling techniques, requiring precise surveying and a sophisticated workflow to ensure accuracy and manage the high risks associated with modelling. Woolpert's expertise in 3D modelling over 15 years played a crucial role in the project's success.



Testimonials

As the Sunshine Coast region continues to grow, our airport expansion was designed to meet the needs of the community and support the region's economic growth. Critical to the airport expansion design was highly accurate and reliable spatial data, provided by Woolpert.

-Karl Skoroszewski, Senior Project Manager
Rede Project Consulting

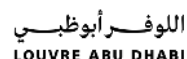


Woolpert's collaborative approach and thought leadership was a cornerstone to the success of the strategy. We're thankful for the close and supportive partnership that we have with the Woolpert team during this project.

-GIS & BIM Manager
Aviation



Our Clients



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asiapacific@woolpert.com

