



Point Cloud Scanning & Reality Capture Capability Statement

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Empowering
growth.





Point Cloud Scanning & Reality Capture

Projects involving existing assets often begin with uncertainty. Drawings may be incomplete, asset information may be outdated, and as-built documentation may not accurately reflect real-world conditions. When decisions are based on assumptions rather than reality, project risk increases.

We help clients establish a trusted understanding of existing conditions through advanced point cloud scanning and spatial data capture.

Using LiDAR scanning and photogrammetry, we create precise digital representations of the built environment. We can also transform point cloud data into BIM models, providing clients with structured digital information that supports planning, design, construction and ongoing asset management. Combined with WT's project, cost and BIM advisory expertise, this provides a reliable foundation for informed decision-making throughout the asset lifecycle.

Creating trusted digital representations of reality

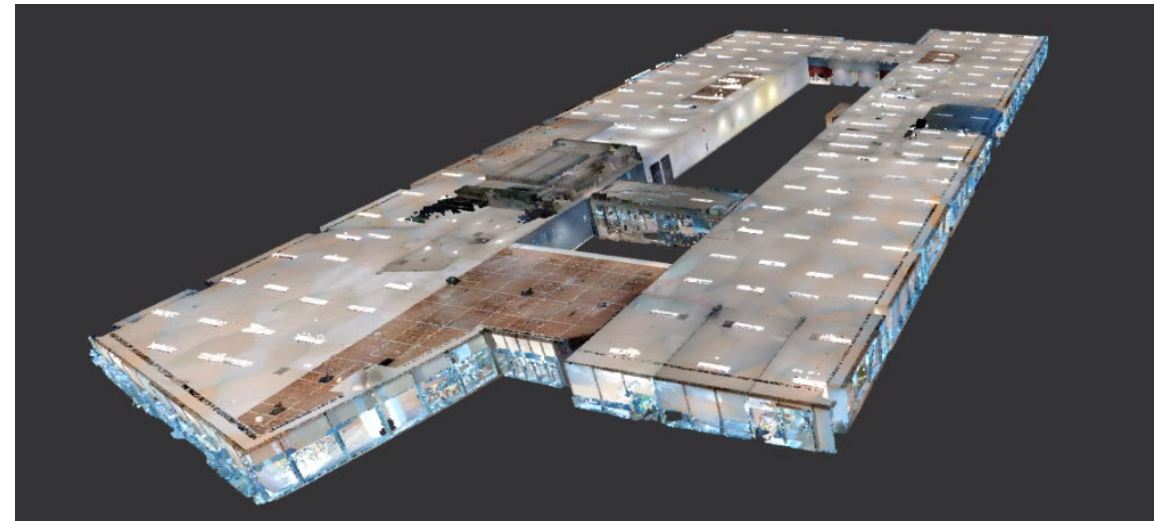
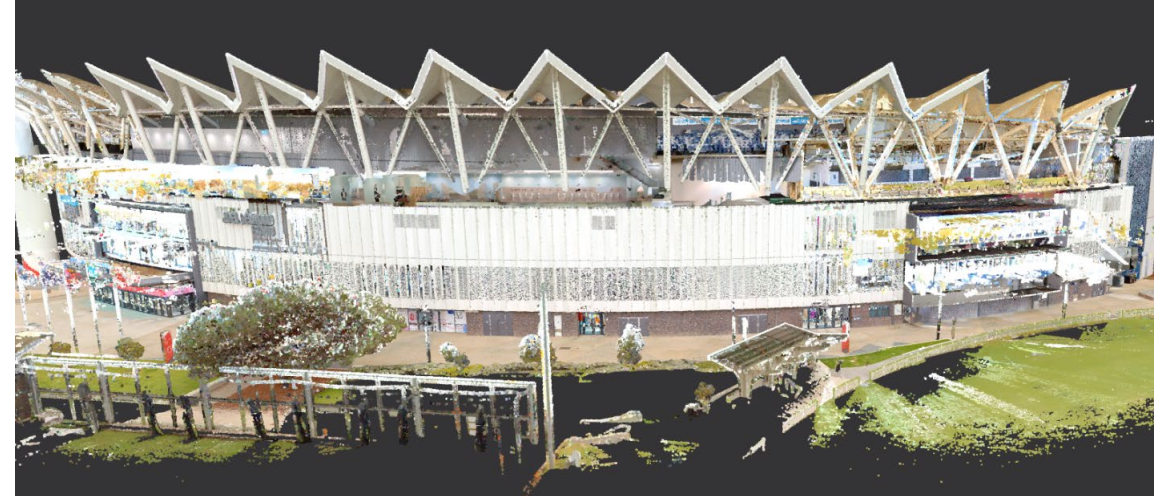
Reliable decisions start with reliable information.

We rapidly capture existing, in-progress and completed conditions with exceptional accuracy, creating dependable digital records that reflect real-world conditions.

Our team combines advanced scanning technologies with practical project and asset expertise to ensure the information captured is not only accurate, but also relevant and usable.

Whether supporting design development, refurbishment planning, asset management or capital works programs, we help clients better understand existing conditions and reduce uncertainty before critical decisions are made.

Point cloud data can be integrated into BIM models, digital twins and broader information environments, or used to create new BIM models from existing assets through Scan-to-BIM workflows. The result is a connected and accurate view of assets throughout their lifecycle.



Supporting better project decisions

Capturing information is only the first step. The real benefit comes from applying that information in a practical way.

We transform complex spatial data into meaningful insights that support project planning, design coordination, delivery and operations. By combining point cloud data with BIM models, project information and asset data, we help organisations identify issues earlier, improve visibility and make more informed decisions.

From validating existing conditions before design begins to monitoring construction progress, improving as-built documentation and supporting Scan-to-BIM model development, point cloud scanning provides objective, verifiable information that helps reduce the potential for rework, delays and disputes.



Better information. Greater certainty.

The value of point cloud scanning extends well beyond data capture.

By integrating scanning outputs with BIM models, asset registers and digital reporting environments, and creating BIM models from captured point cloud data where required, we help clients build a richer understanding of asset condition, configuration and performance. This gives owners, operators and project teams easier access to trusted information that supports maintenance planning, future capital works and long-term asset management.

Combining advanced reality-capture technologies with deep project, asset management and commercial experience, WT helps clients establish a trusted understanding of existing conditions, reduce uncertainty and make decisions with greater confidence throughout the asset lifecycle.



Turning scan data into project value



1.

When to scan

Point cloud scanning can be undertaken prior to a project starting, at key project milestones, at regular intervals or in line with specific programme activities.

Scanning of a site creates an accurate digital record of existing, in-progress or completed conditions. This provides project teams with trusted information to coordinate new works against, monitor construction progress, verify completed works or make more informed decisions throughout delivery.

2.

Accessing and sharing scan data

Captured point cloud data is processed into practical, usable formats for clients and project teams. These large data sets can be hosted on web-based platforms for easy viewing, sharing and analysis.

This can help teams:

- View and navigate the captured point cloud online.
- Share scans with off-site or non-technical stakeholders.
- Create a shared understanding of site conditions and progress.

3.

Using scan data with BIM models

Compare scan data against as-built BIM models to **understand how well site conditions align with design intent.**

This can help project teams:

- Identify construction deviation issues early.
- Convey construction status back to design team for redesign, re-coordination or targeted design planning.
- Track construction progress for payment claims.

4.

Creating a trusted digital record

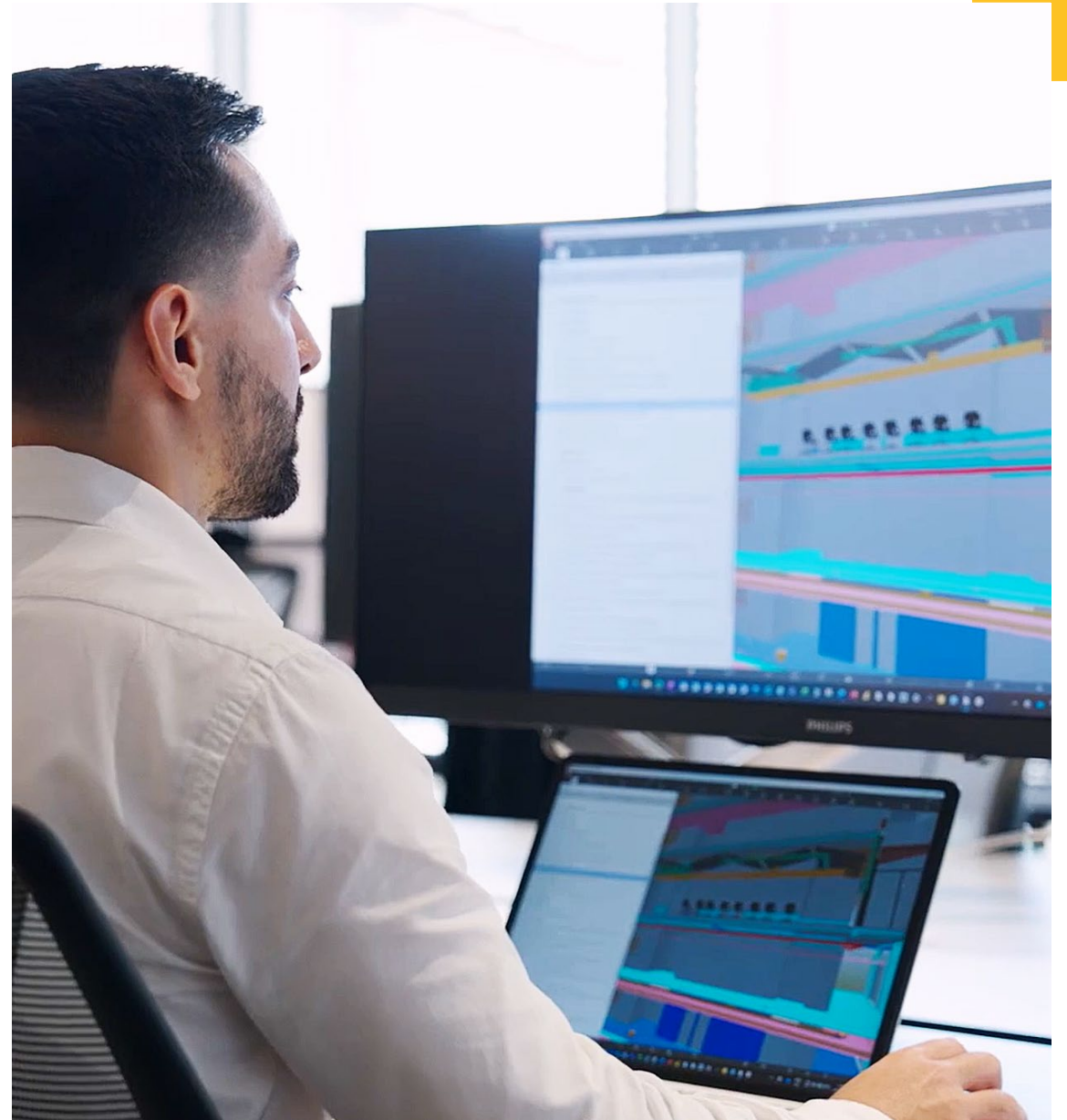
Capture an **accurate digital record of the asset at key stages of construction**, providing trusted information for project delivery and ongoing asset management.

A trusted digital record can:

- Support future upgrades and retrofits.
- Reduce downtime and unnecessary demolition by understanding where building services are located.
- Create a foundation for facilities management and future digital twin applications.

Experience

- Kinnears Footscray | Mixed Use | VIC
- Melbourne Olympic Park Trust | Melbourne, VIC
- 10 Queens Road | Adaptive Reuse Residential Development | Melbourne, VIC





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