

3DS Technologies Inc.

High Resolution 3D Laser Scanning



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- About us
- What is 3D Laser Scanning
- Why use 3D Laser Scanning
- Benefits of 3D Laser Scanning
- Case studies and examples





when it has to be right





Using the most up to date equipment and technology, 3DS primary focus is 3D Laser Scanning and helping customers use that data effectively.

With a background in industrial manufacturing, construction and engineering, 3DS is committed to providing the most detailed and accurate information available to ensure your project is a success.



WHAT IS 3D LASER SCANNING?



- 3D laser scanning captures 3-dimensional data in a 360 degree rotation. The Laser, or LiDAR scanner measures up to two million "points" per second. Each point is assigned an X, Y, and Z coordinate in space. Together, these points create a "point cloud" and exact measurements can be determined from any 2 points.
- Basically, Laser scanning is a method to convert the physical to the digital with speed and precision.
- 3D Laser Scanning is a non-contact, non-destructive technology that digitally captures the shape of physical objects using a line of laser light. 3D laser scanners create "point clouds" of data from the surface of an object.



How does it work?



 A laser scanner is placed on a tripod and a scan is taken in a 360 rotation measuring 2 million points per second followed by a 360 panoramic image. The scanner is then moved to another location where the process is repeated. These scans are then "stitched" together, creating a 3D virtual copy of the physical space.

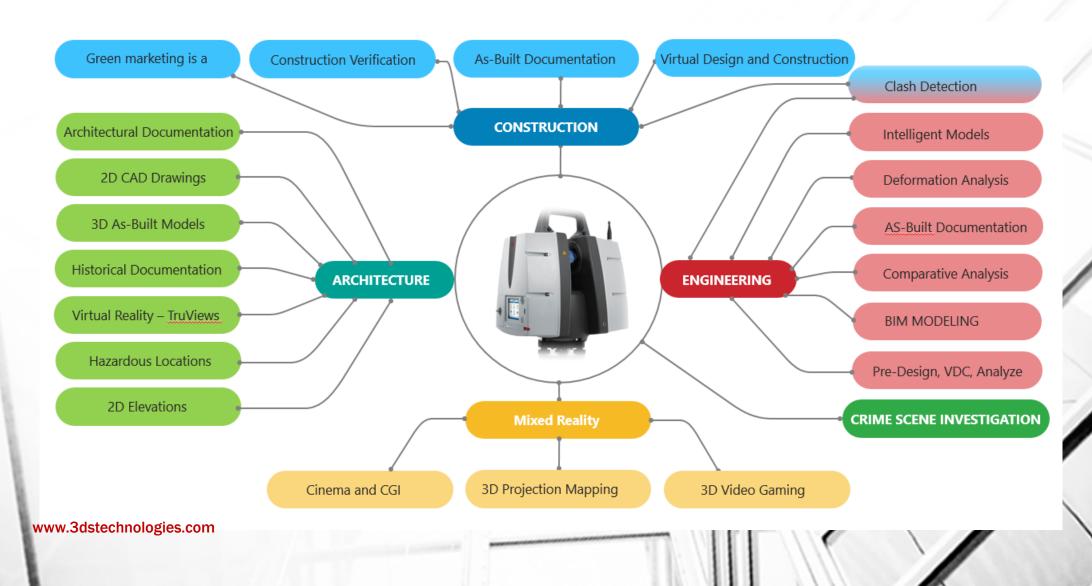






WHY USE 3D LASER SCANNING?



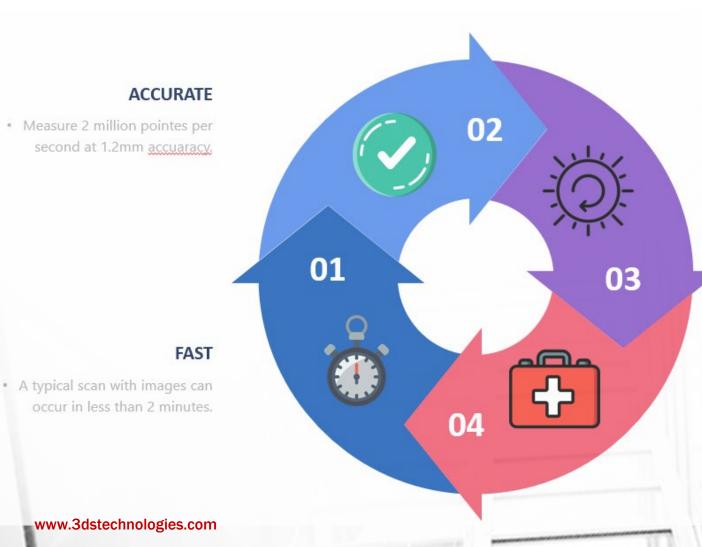


BENEFITS OF 3D LASER SCANNING



ACCURATE

· Measure 2 million pointes per second at 1.2mm accuaracy.



EFFICIENT

- · A quick scan can eliminate errors, reduce costs associated with change orders or errors.
- · Operational downtime is not required to access measurements.

SAFE

- · Class 1 Laser invisible to naked eye
- · Range of up to 1000m. Access hard to reach or hazardous measurements.

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occur in less than 2 minutes.

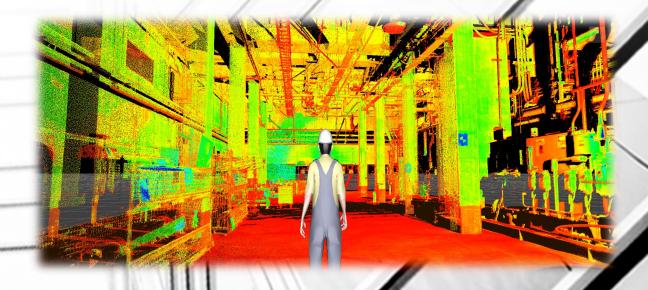


SCAN DELIVERABLES



Before you begin with any laser scanning project, 3DS will assist you with the outcome or deliverable. Examples are:

- ➤ 2D CAD Drawings
- > 3D CAD or Revit model, Solidworks, Civil 3D, MicroStation
- > Virtual Walkthroughs, fly throughs, etc
- ➤ Reports on structural analysis, 3D Comparisons, Floor Flatness reports etc.





iGuide DELIVERABLES



Accurate Floor Plans and Square Footage

3D Virtual Tours

No Subscription. Host on iguide pay as you go or download and host

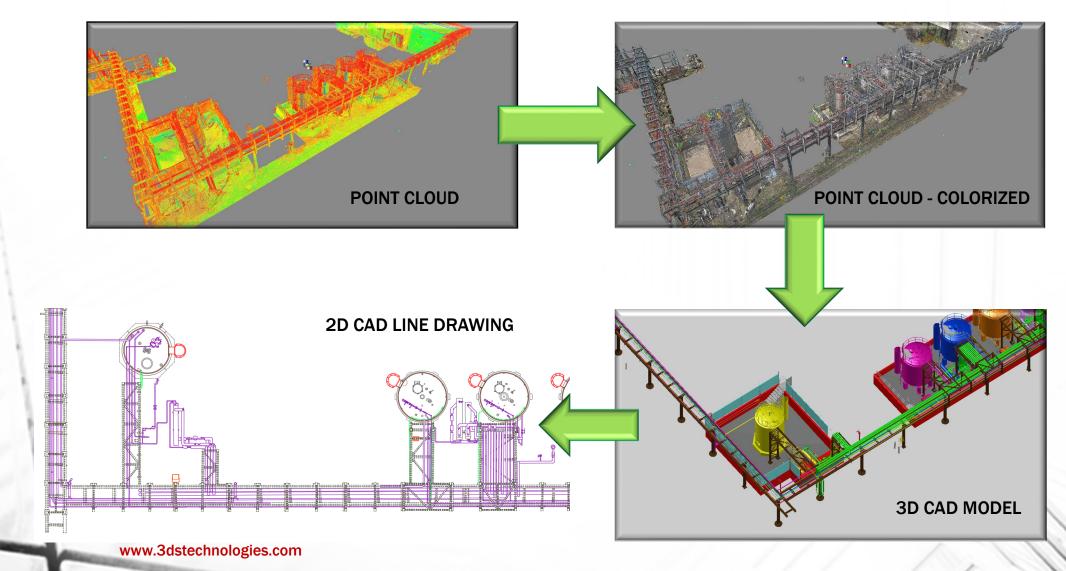
yourself.

Fully editable panoramic images.



Point Cloud to Cad 2D





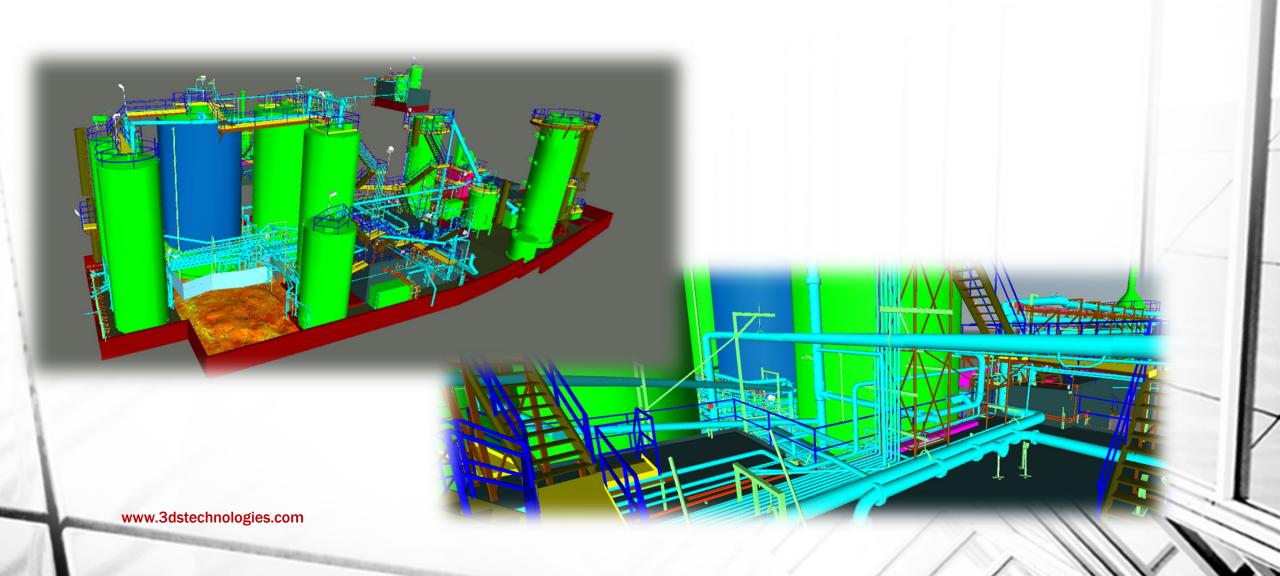
CASE STUDIES





As-built Data Capture and Modeling

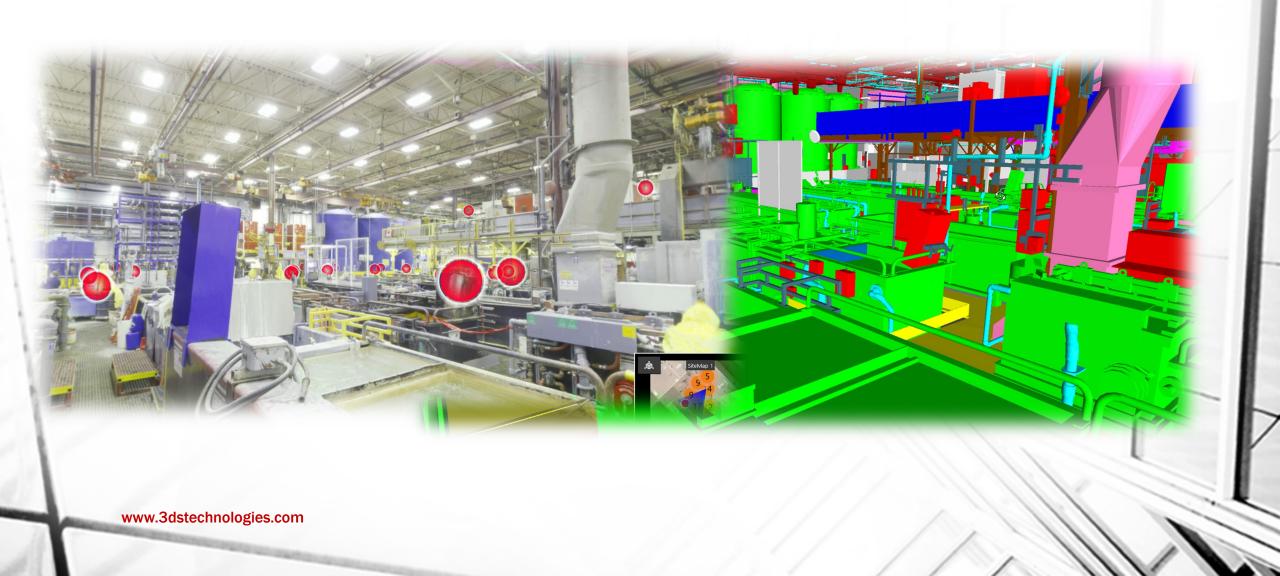






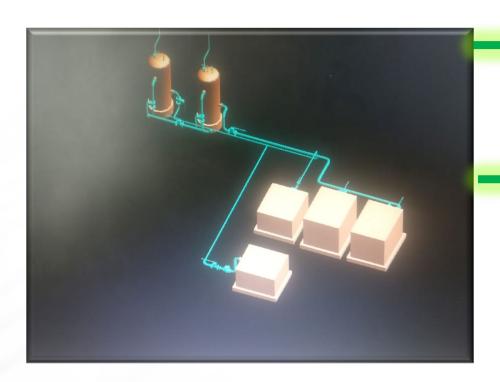
3D Virtual Truspace - Digital Twins

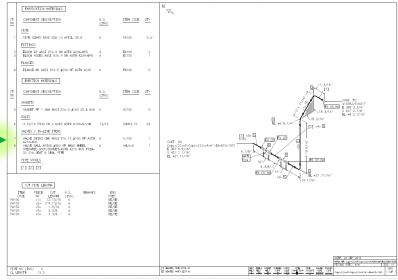




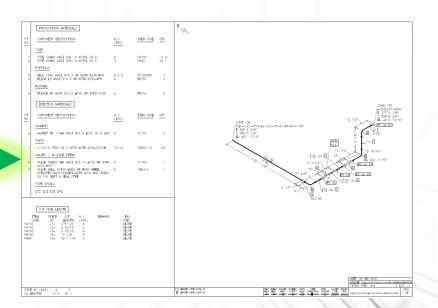


ISO Drawings





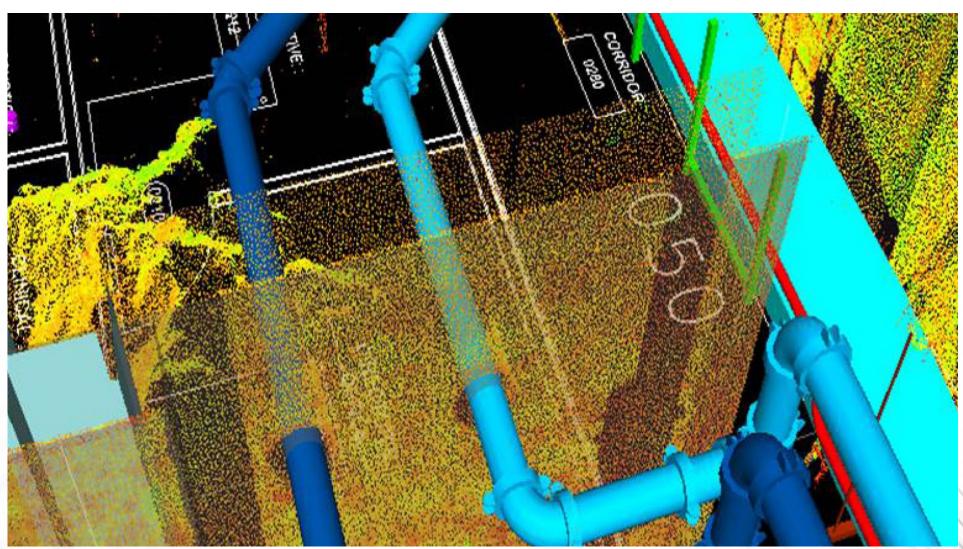






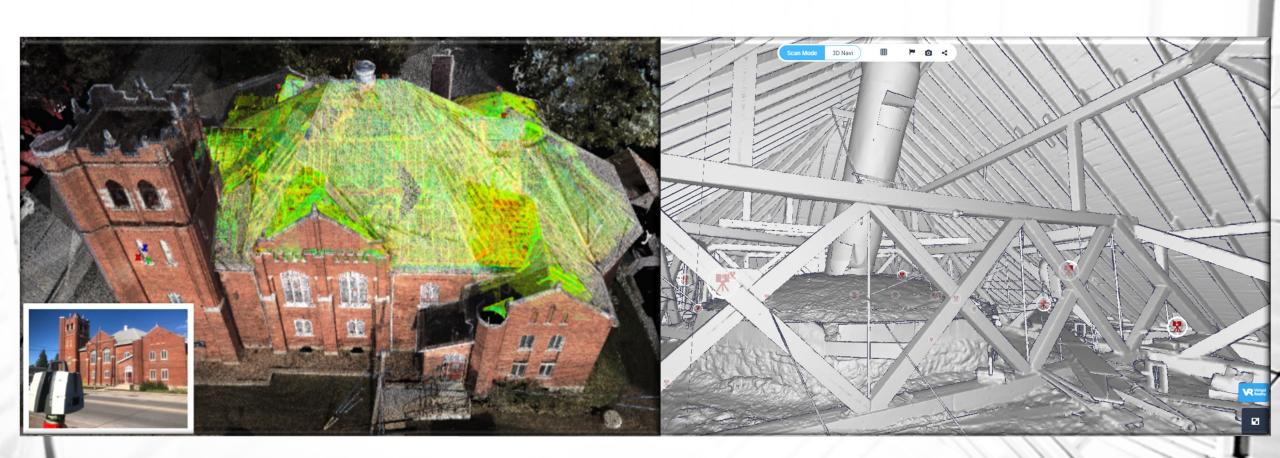
Combine Laser Scan – Model - CAD Drawings





Dark and Hard to Reach Locations

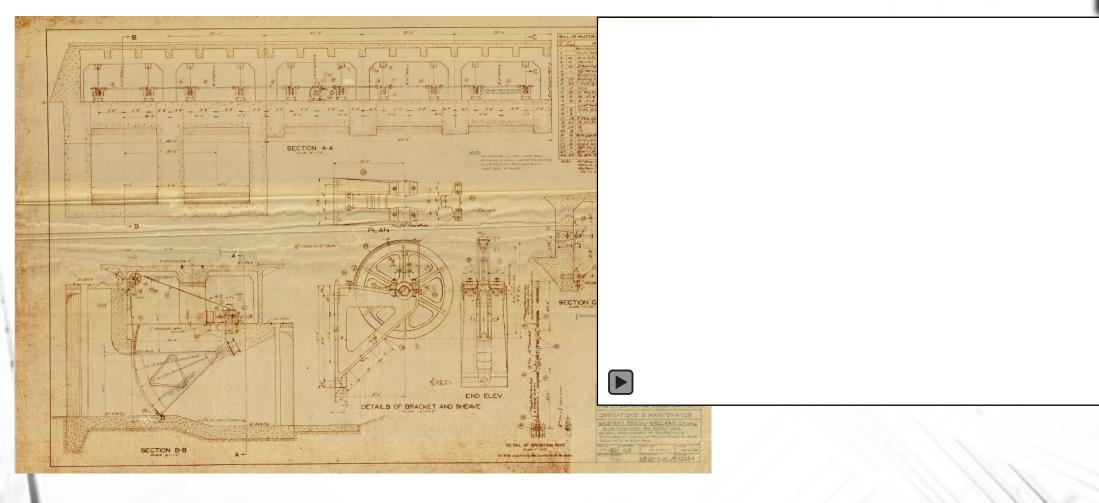






Update Historical Drawings

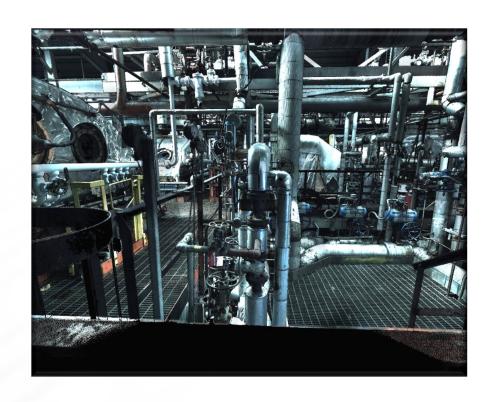






Petrochemical Piping



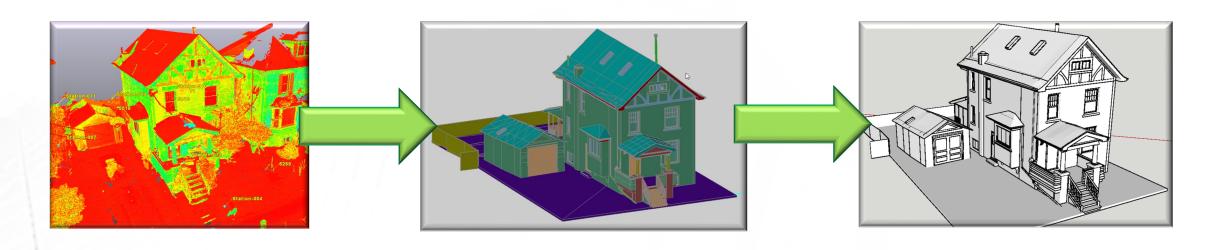






Model for Renovation



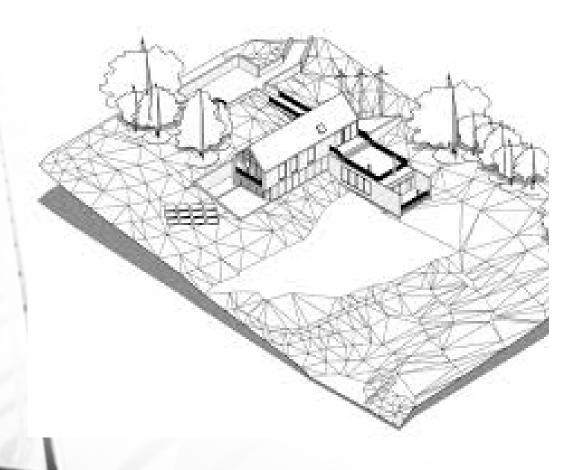


SCAN AutoCAD 3D Google SketchUp



Map complex site



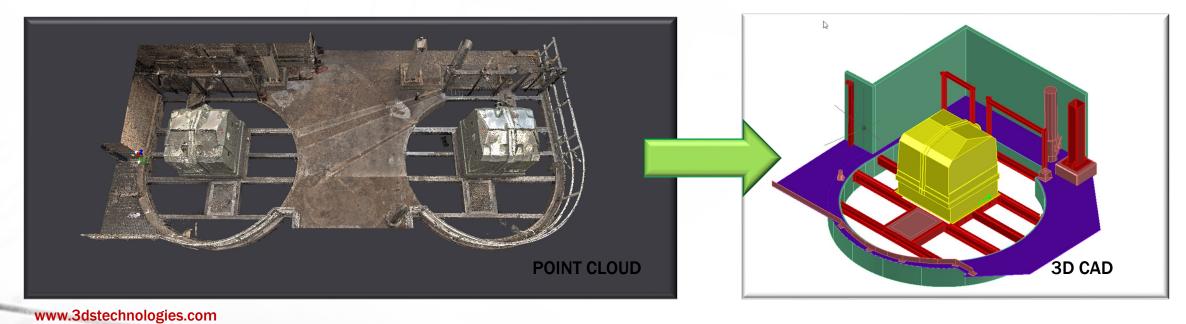




3D Model requested to design grating over open pit



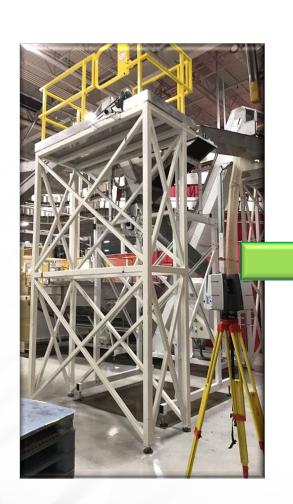


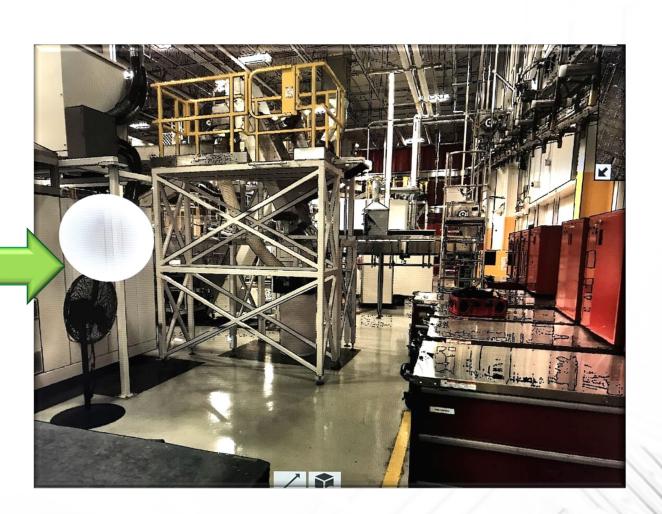


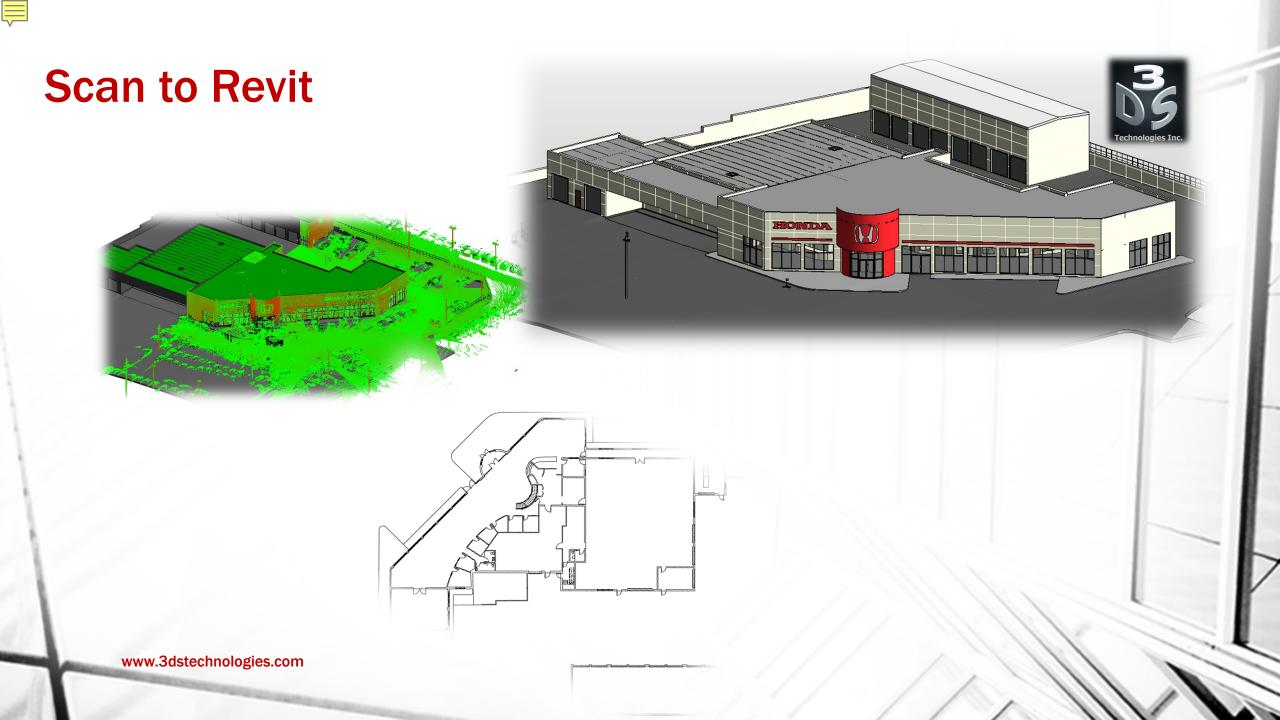


Platform Design





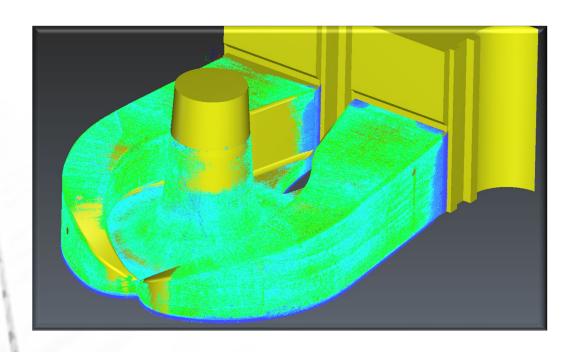


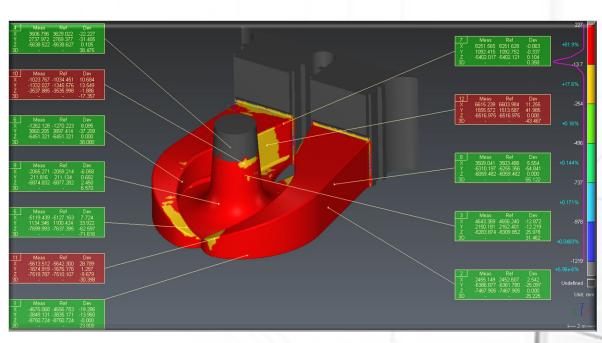




3D Comparison





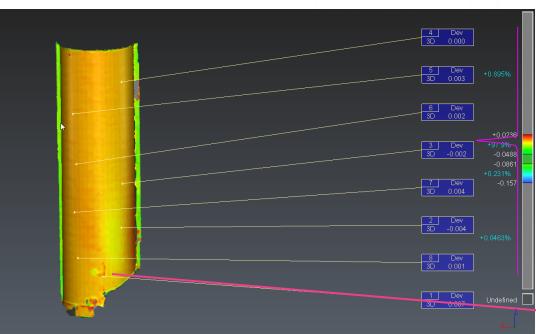


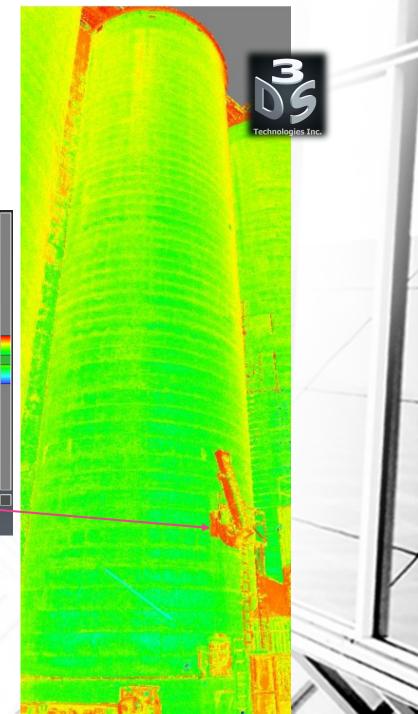
Scan Data Over Model

Comparison

3D Comparison







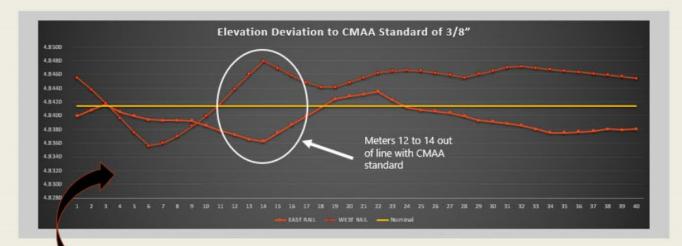


3DS Technologies

Crane Rail Surveys

R

Capturing Every Detail



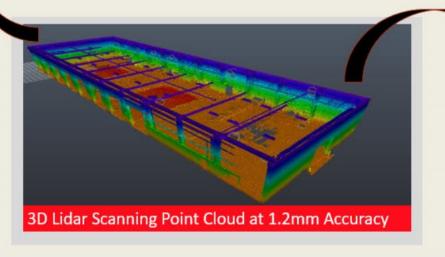
Get a Quote:

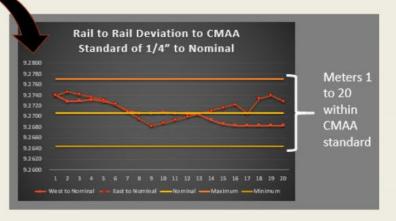
Email: info@3dstechnologies.com

Phone: 519-766-5885

Survey Includes

- Informative Easy to Read Graphs
- Survey Report
- Scan Data (easily utilized for future projects)
- Option for ongoing tracking of rail alignment







Reverse Engineer



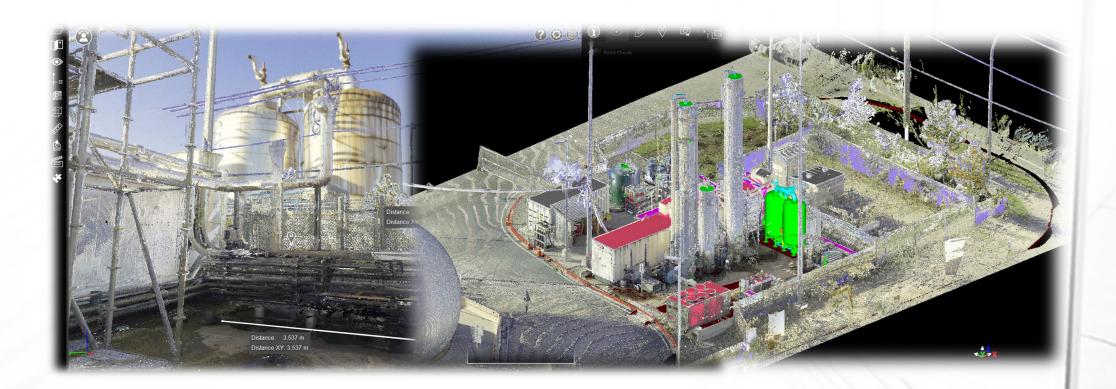
Trees for Children's Playground



STL File for Solidworks



Pre-Installation Verification and Planning



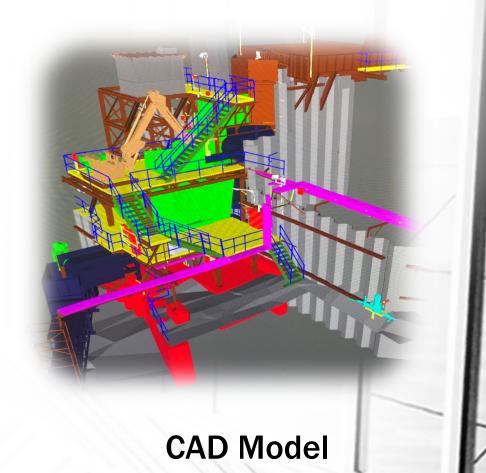
Reality Capture to 3D CAD



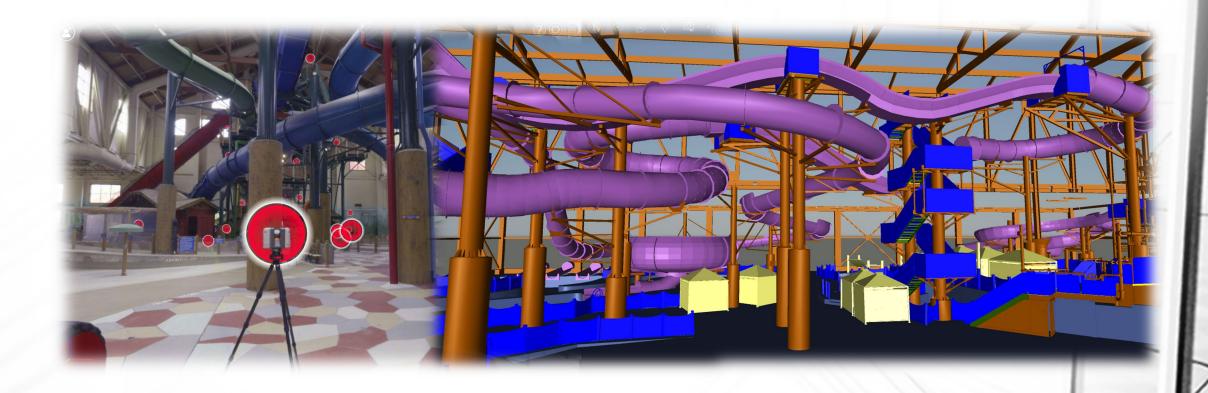


Capture

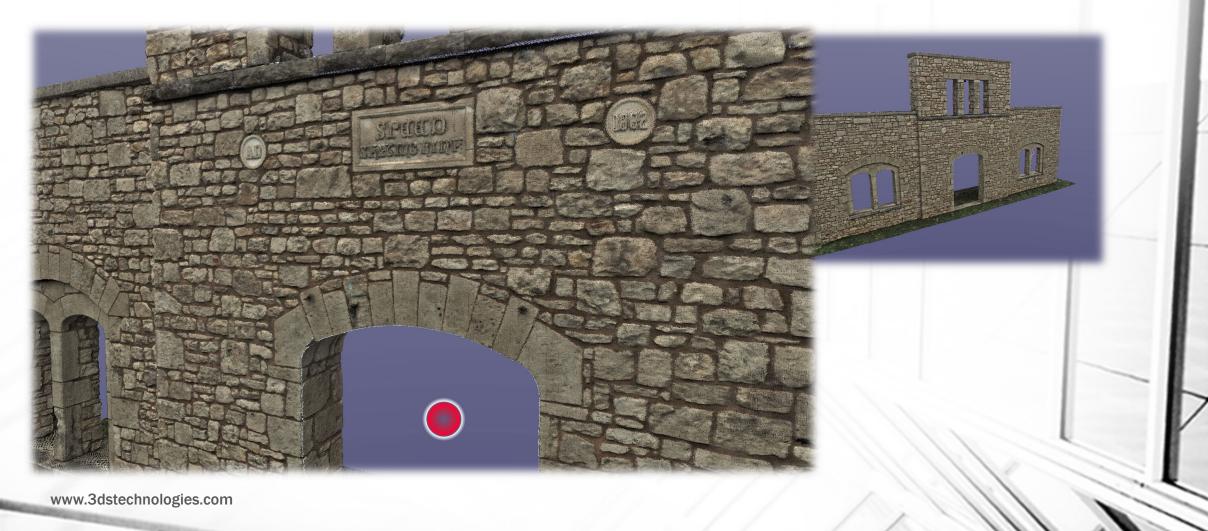
Register and Quality Assurance



Water and Amusement Park Design



Capture Every Detail



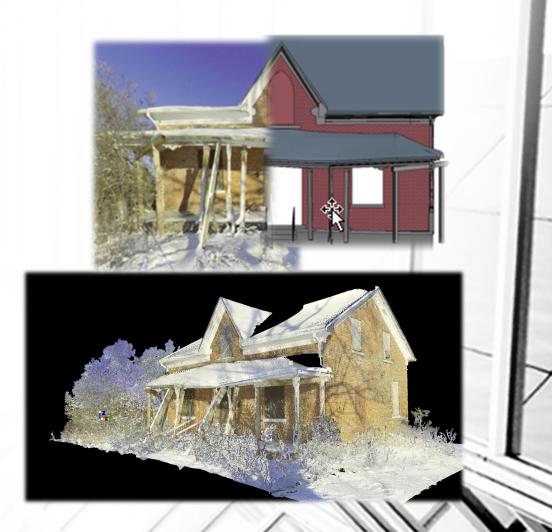
Cases



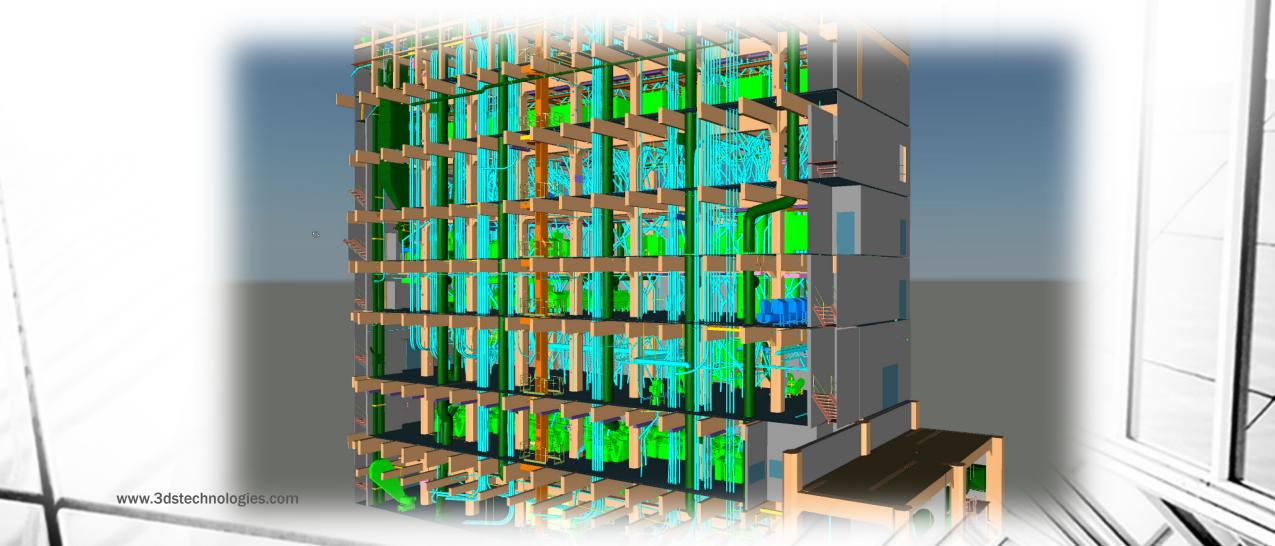
Bridges, EA Assessments

Historical Documentation





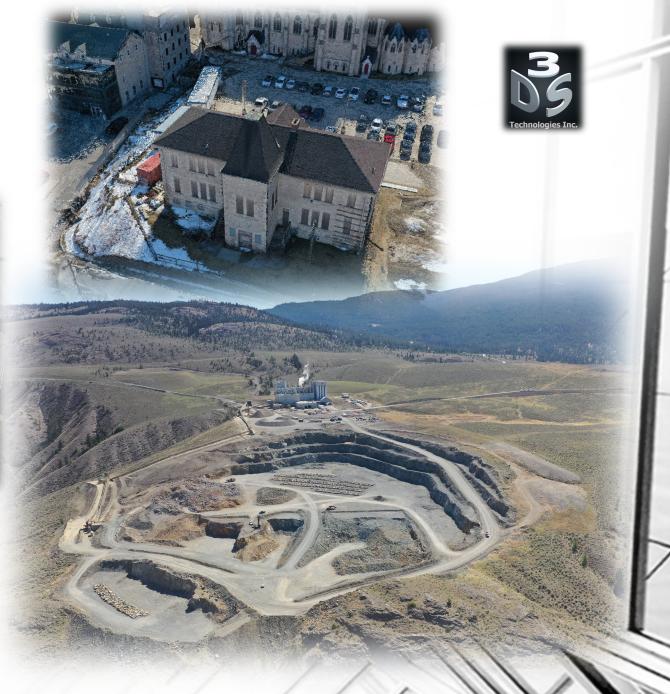
Easily Visualize and Track Complex Piping





Drone Services







The Leica Difference







Major Competitor data



3DS TECHNOLOGIES CUSTOMERS

















GRAHAM





















safetech



conestogo mechanical inc.

WitzelDyce



dustrial Inc

Multi-Trade Contractor









Nestlé



















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