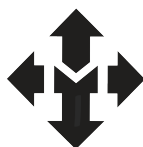
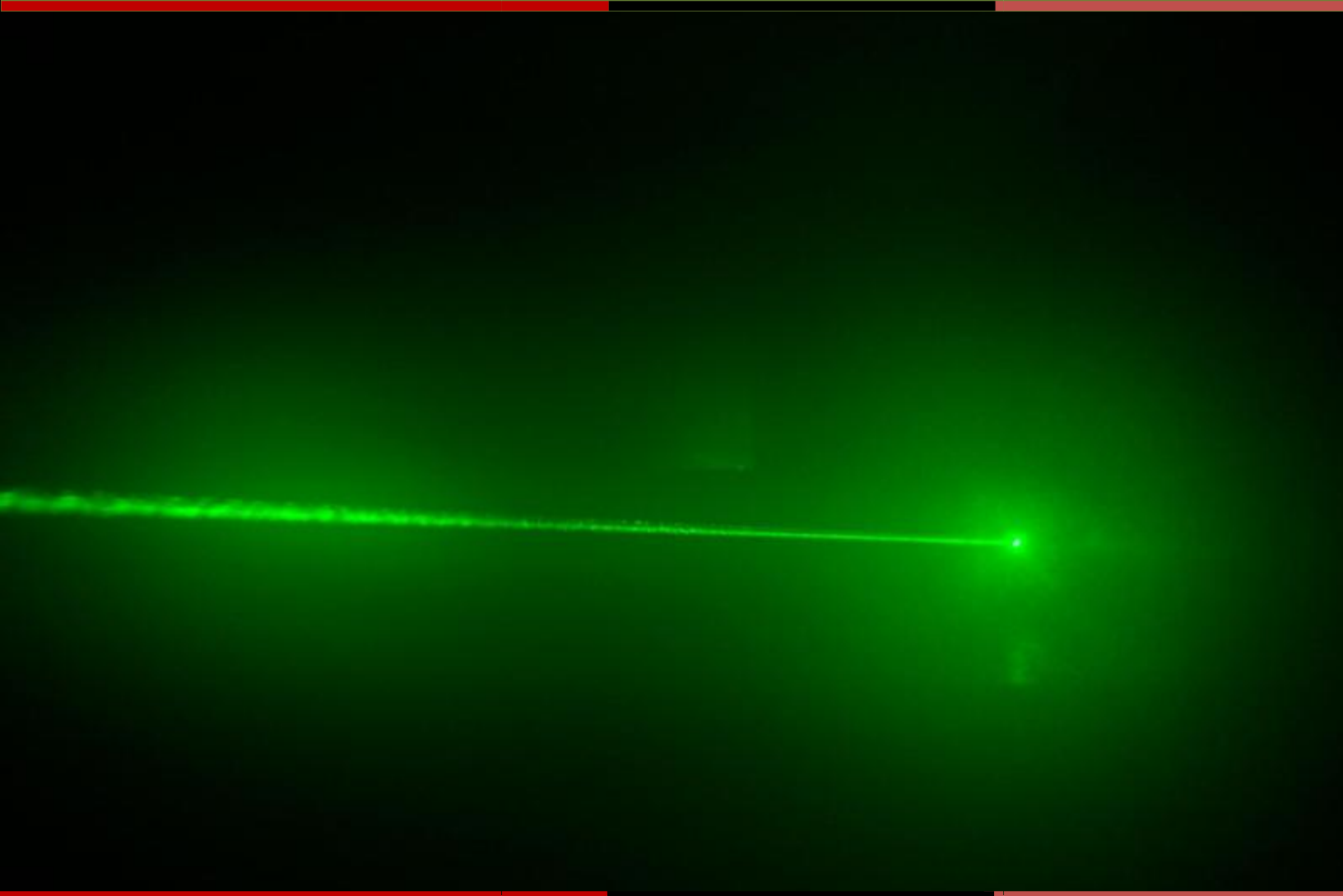


McNEIL ENGINEERING

3D Laser Scanning Technology



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Our Services

3D Laser Scanning Technology

Mining: Volume
& Topographic
Surveys

Industrial/
Refineries

BIM/ 3D
Modeling

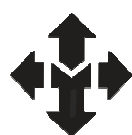
Airports

Settlement/
Movement
Studies

Transportation

Historic
Preservation

ALTA/ACSM
Land Title
Surveys



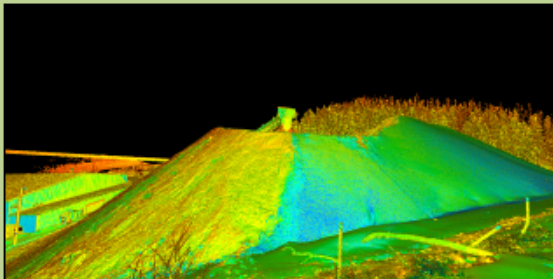
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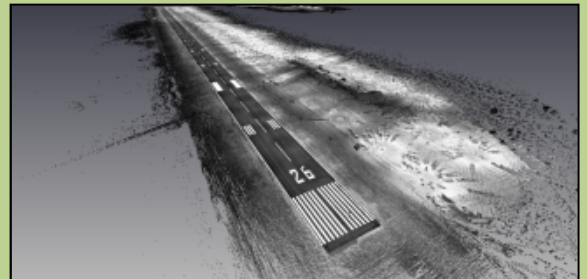
Our Services

3D Laser Scanning Technology

Mining: Volume & Topographic Surveys



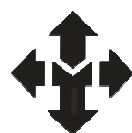
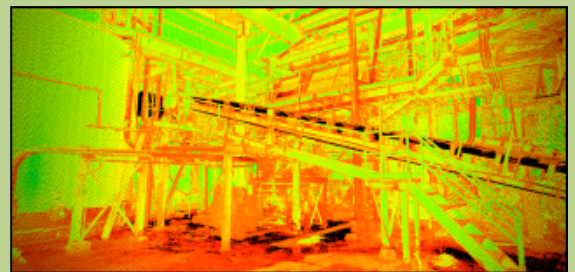
Airports



Transportation



Industrial/ Refineries



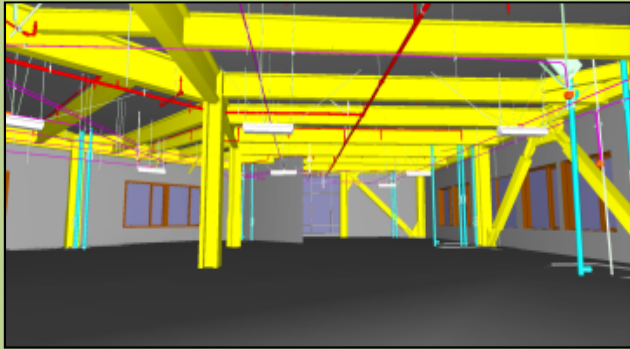
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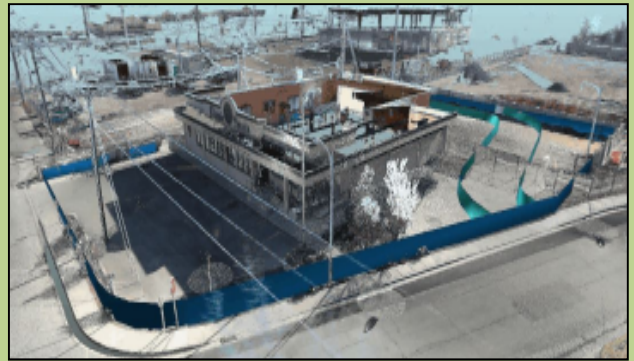
Our Services

3D Laser Scanning Technology

BIM/ 3D Modeling



ALTA/ACSM Land Title
Surveys



Historic Preservation



Settlement/Movement Studies



How it Works

3D Laser Scanning Technology

Scan Location

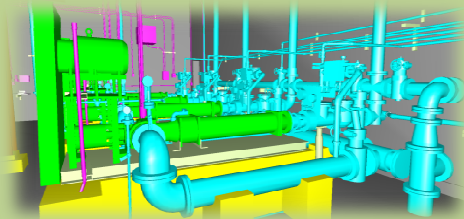


Scan Data



Scan to Design

3D Model

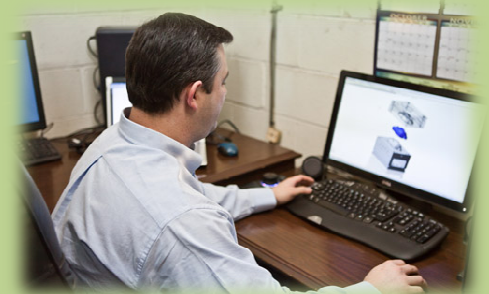


Leica C10 Scanner



Our Leica C10 scanner collects up to 50,000 survey grade points per second.

Design



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McNeil Engineering Notable Scan/Modeling Projects

International Projects

Project	Location
British Embassy	Gurgaon, India
Saifee, Hussaini, Qutbi, Dhanwadi, and Handiwala Mosques, and Roza Building	Mumbai, India
3 Mile Port of Brisbane Motorway	Brisbane, Australia
Rio Tinto	Port Dampier and Parker Point, Australia

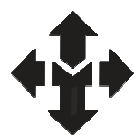
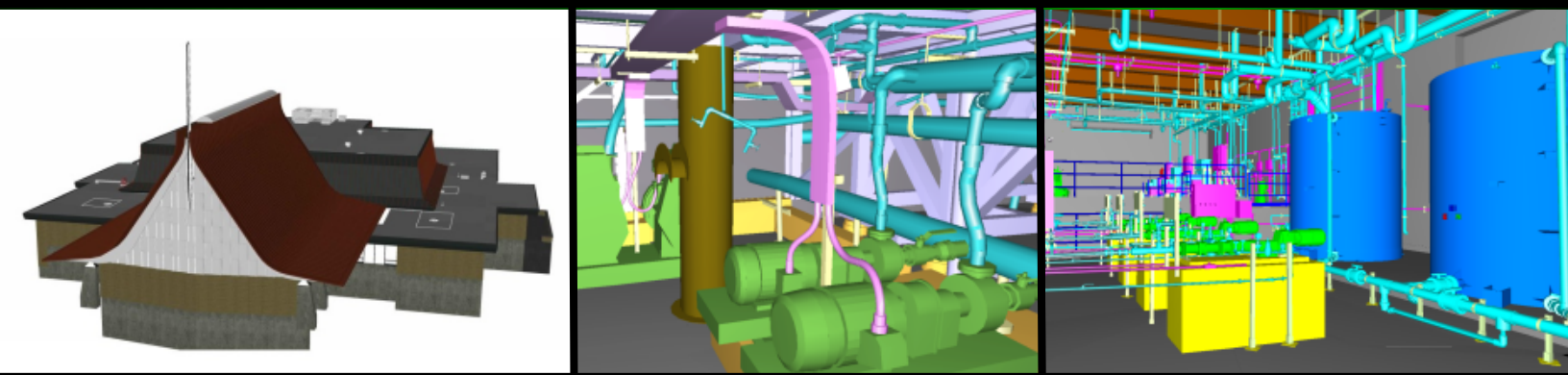
United States Projects

Client	Project	Location
Alaska Airlines	LAX	Los Angeles, CA
American Equipment	Pearl Harbor Naval Base	Pearl Harbor, Hawaii
Banamex USA	Brownsville Mall	Brownsville, TX
Big-D Construction	Ogden Temple	Ogden, UT
Big West Oil	Change Room	Woods Cross, UT
Bowens & Collins	South Valley Water Reclamation	West Jordan, UT
Canyon Fuel Company	Skyline Mine	Schofield, UT
Cargill Salt	Cargill Salt Facility	Grantsville, UT
Fashion Place and Newgate Mall	General Growth	Murray and Ogden, UT
Great Salt Lake Mineral	Great Salt Lake Mineral Facility	Ogden, UT
Hansel Phelps	Kaiser Permanente Hospital	Irvine, CA
Harris Mechanical	Hill Air Force Base	Layton, UT
Hubbard Engineering	LA Dodger's/ Chicago White Sox/ Camelback Ranch	Phoenix, AZ
Hubbard Engineering	Westworld Horse Arena	Phoenix, AZ
Hubbard Engineering	Psycho Hotel	Phoenix, AZ
Hyatt Hotel	Hyatt Hotel	Scottsdale, AZ
Infigen Energy	Infigen Energy	Santa Rosa, NM
Intrepid Potash	Intrepid Potash Facility	Wendover & Moab, UT
Job Industrial	Holly Refinery	Woods Cross, UT & Cheyenne, WY
Jviation	Wendover Airport	Wendover, UT
LDS Church	Visitors Center	Park City, UT
Los Angeles City	Martin Luther King Jr. Hospital	Los Angeles, CA
Malcom Pernie	Flood Plain Study	Birmingham, AL
McDonald's	McDonald's	Colorado and Nebraska
Morton Salt	Morton Salt Facility	Grantsville, UT
MWH Americas	Logan 3 rd Dam and Powerhouse	Logan, UT
PacifiCorp	Naughton Plant	Kemmerer, WY
Riverton City	13200 South and 2700 West	Riverton, UT
Sandia National Laboratories	Sandia National Laboratories	Albuquerque, NM
Tesoro	Tesoro Refinery	Salt Lake City, UT
UDOT	Taggart Bridge	Taggart, UT
United States Army Corps of Engineers	Soo Locks Canal	Sault Ste Marie, Michigan
URS	Roosevelt and Lexington Substation- New York Subway System	New York, NY
Wasatch Electric	Huntington Power Plant	Huntington, UT
West Jordan City	4000 West Street	West Jordan, UT
West Jordan City	9000 South Tunnel	West Jordan, UT
Wilcox Engineering	205th Street	Torrance, CA

Application

3D Laser Scanning Technology

BIM/3D Modeling



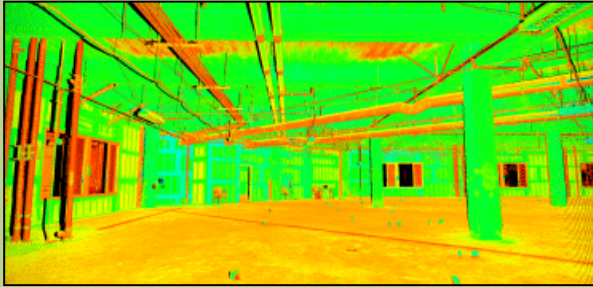
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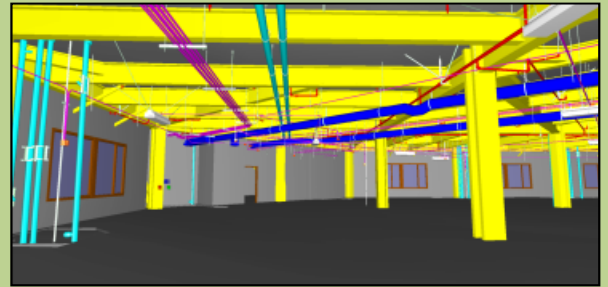
Application

BIM/3D Model

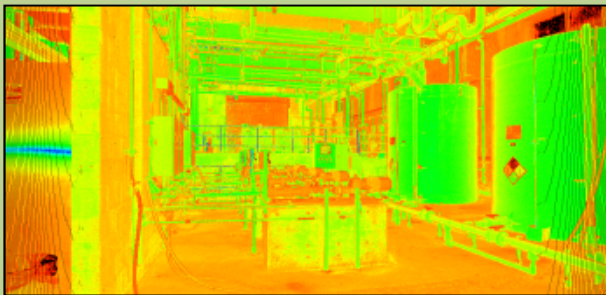
PointCloud Data



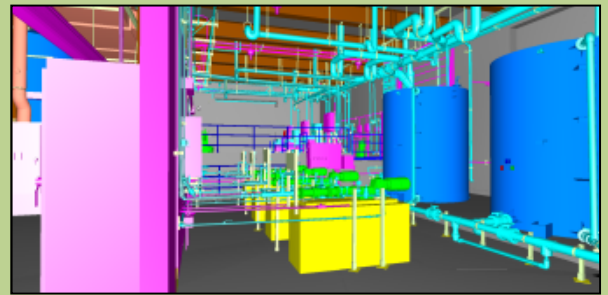
Hospital 3D Model



PointCloud Data



Industrial 3D Model



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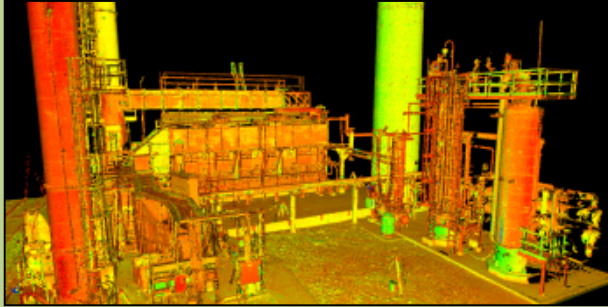
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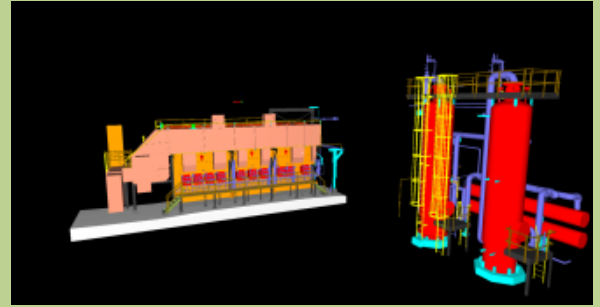
Application

BIM/3D Model

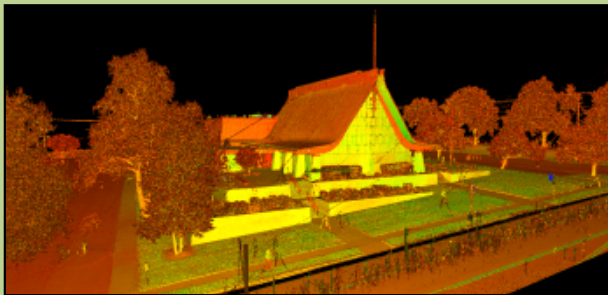
PointCloud Data



Refinery 3D Model



PointCloud Data



Church 3D Model



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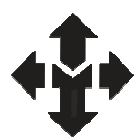
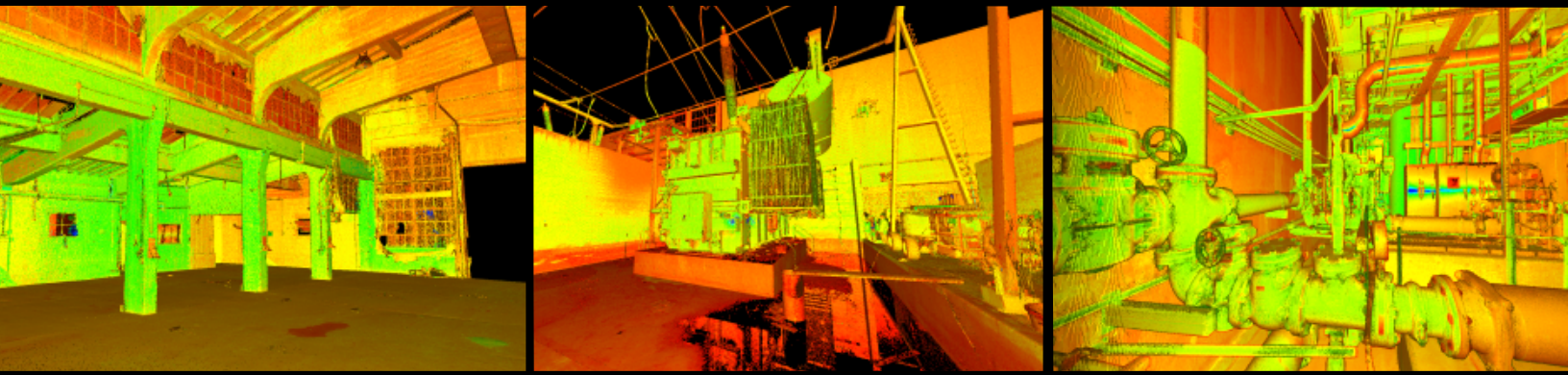
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Application

3D Laser Scanning Technology

Industrial/Refineries



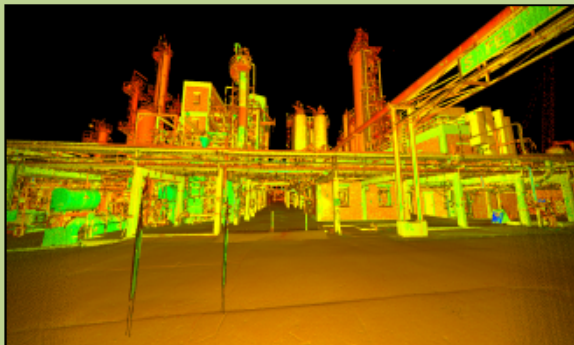
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Application

Industrial/Refinery

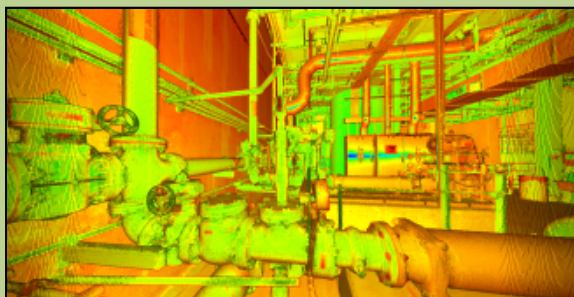
Tesoro Refinery Scan,
North Salt Lake, UT



Mill Building Scan,
Intrepid Potash
Wendover, UT



South Valley Water
Reclamation Scan,
West Jordan, UT



Holly Refinery Scan,
North Salt Lake, UT



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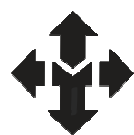
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Application

3D Laser Scanning Technology

Transportation



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Application Transportation

Taggart Bridge Scan,
Morgan County, UT



205th Street Scan,
Torrance, CA



13200 South Scan,
Riverton, UT



4000 West Scan,
West Jordan, UT



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Application

3D Laser Scanning Technology

Mining: Volume &
Topographic



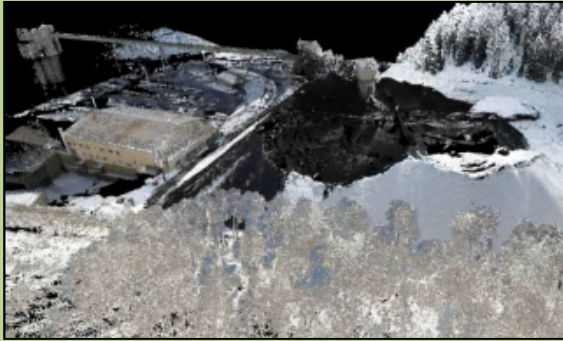
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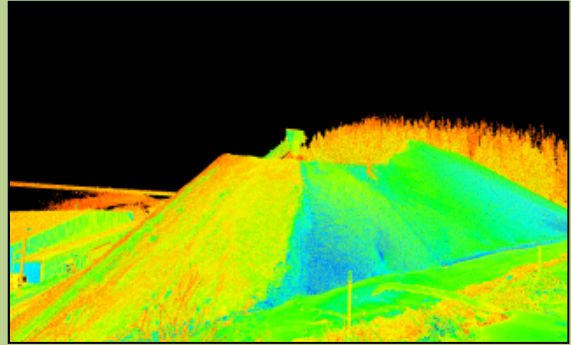
Application

Mining: Volume & Topographic Surveys

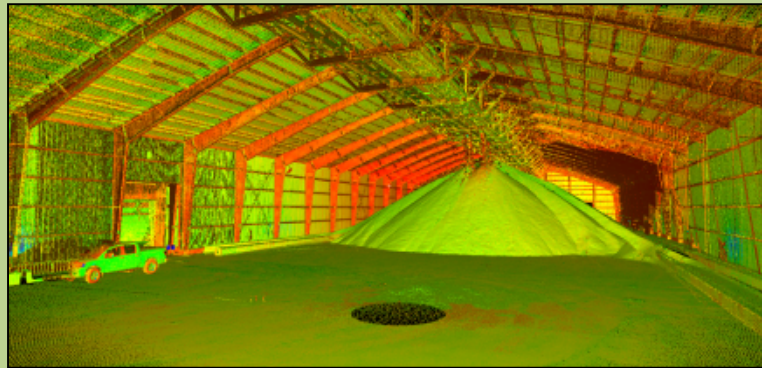
Volume Calculation Scan,
Skyline Mine



Volume Calculation Scan,
Skyline Mine



Volume Calculation Scan,
Intrepid Potash



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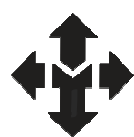
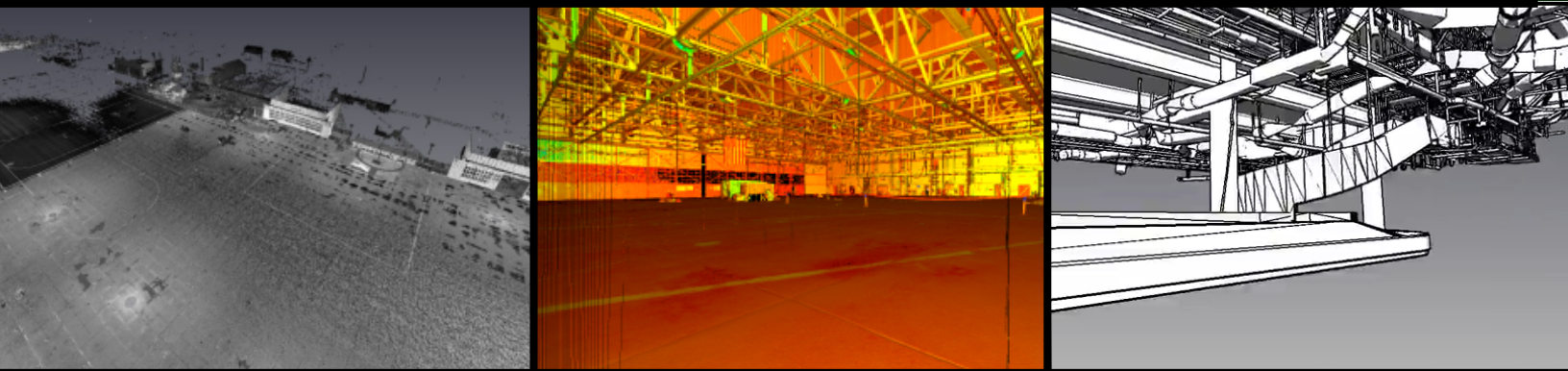
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Application

3D Laser Scanning Technology

Airports



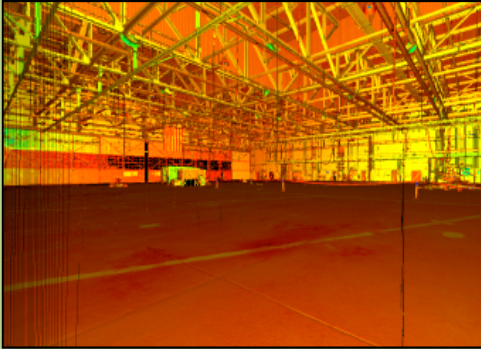
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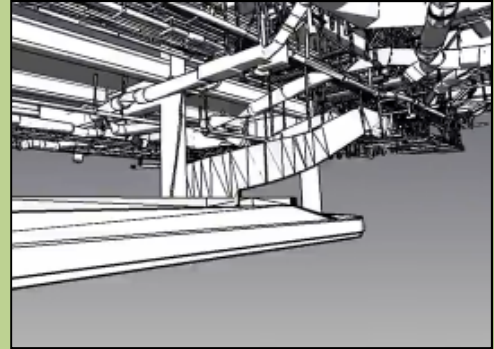
Application

Airports

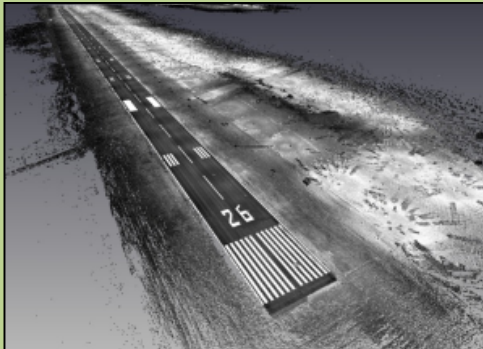
Hill Air Force
Base Hanger Scan



Alaska Airlines, LAX
Baggage Claim Scan



Windover Airport
Runway Scan



Salt Lake International
Airport
Expansion Scan



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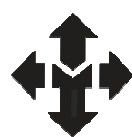
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Application

3D Laser Scanning Technology

Historical
Preservation



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Application

Historic Preservation

Garfield School Scan,
Salt Lake City, UT



Santaquin Chieftain
Museum Scan,
Santaquin, UT



Barrister Place
“Psycho Hotel” Scan,
Phoenix, AZ



Masonic Temple Scan,
Salt Lake City, UT



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Application

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ALTA/ACSM Land Title Surveys



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Application
**ALTA/ACSM Land
Title Surveys**

Classic Trends Scan,
Salt Lake City, UT



Hillcrest Junior High Scan,
Murray, UT



TOSH Scan
Intermountain Healthcare
Murray, UT



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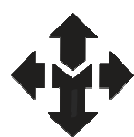
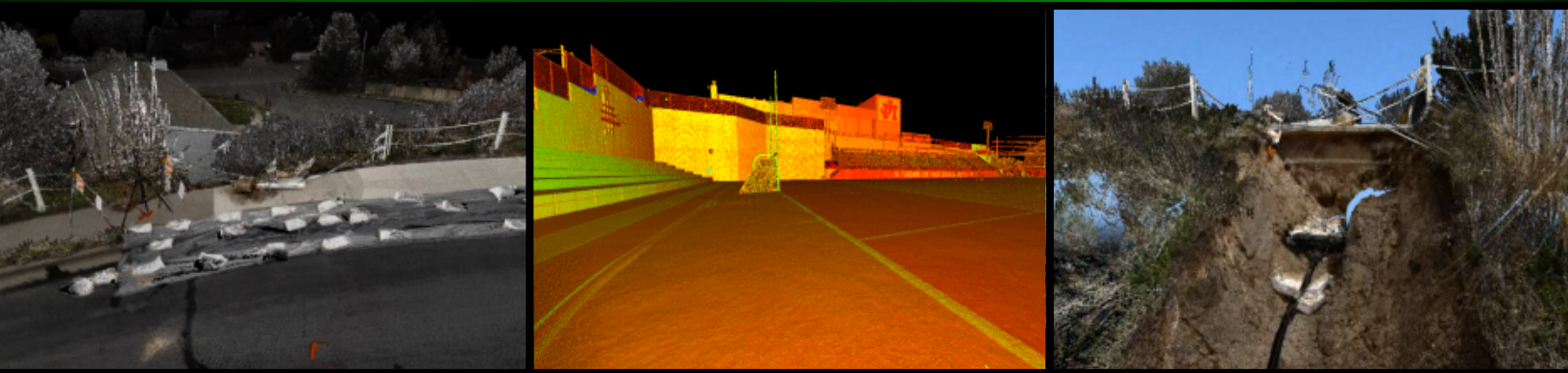
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Application

3D Laser Scanning Technology

Settlement/
Movement Studies

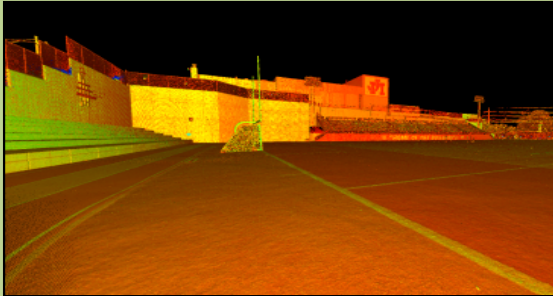


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Application Settlement/Movement Study

Football Field Scan,
Judge Memorial HS
Salt Lake City, UT



Kari Circle Scan,
North Salt Lake, UT



Wind Farm Scan,
New Mexico



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What sets McNeil Engineering apart from the competition...

- We want to be a part of a great team and we understand great teams rely on **trusting teammates**. We understand that relationships are all about trust and that trust is hard to get and easy to lose. We strive to earn and keep relationships that are built on **trust** and **confidence**.
- Our vision and goals extend beyond one project - we are in the business of **building relationships**, not just projects. We recognize that the better we understand our clients and their objectives, the more effective and efficient we can be in our services. This often requires a longer-term relationship extending beyond one project.
- **Communication and Responsiveness**: The other day a client said, "one of the reasons I love working with McNeil is that I know they will call me back promptly." Everyone understands the frustration of not being able to get a simple response from someone in a reasonable amount of time. Lack of communication can create delays. We understand communication is critical to the success of a team, and our goal is to respond to all forms of communication (phone calls, emails, meetings, etc) as quickly as possible.
- We recognize the importance of getting the **approval entity** (the city, county or state) **involved** in the process early to weed out **potential issues** before they become a **crisis**. This is similar on the old phrase "you can pay it now or pay it later". In our experience, the sooner we can get feedback from the review authority, the better. While it may take a bit more time early in the project, it will almost always save time in the long term.
- We have a **proven ability** to bring **creative solutions** to the table for nearly any size project. We have been providing creative design solutions to our clients for more than 30 years. We successfully completed projects on everything from single-family plot plans to regional shopping malls.
- Our highly qualified staff is willing to look at **outside of the box solutions** - no cookie cutter solutions here. What works for one project may not work for the next. We spend a lot of time and effort evaluating alternatives for each project with the goal of providing informed choices for our clients.



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