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- Engineering Solutions
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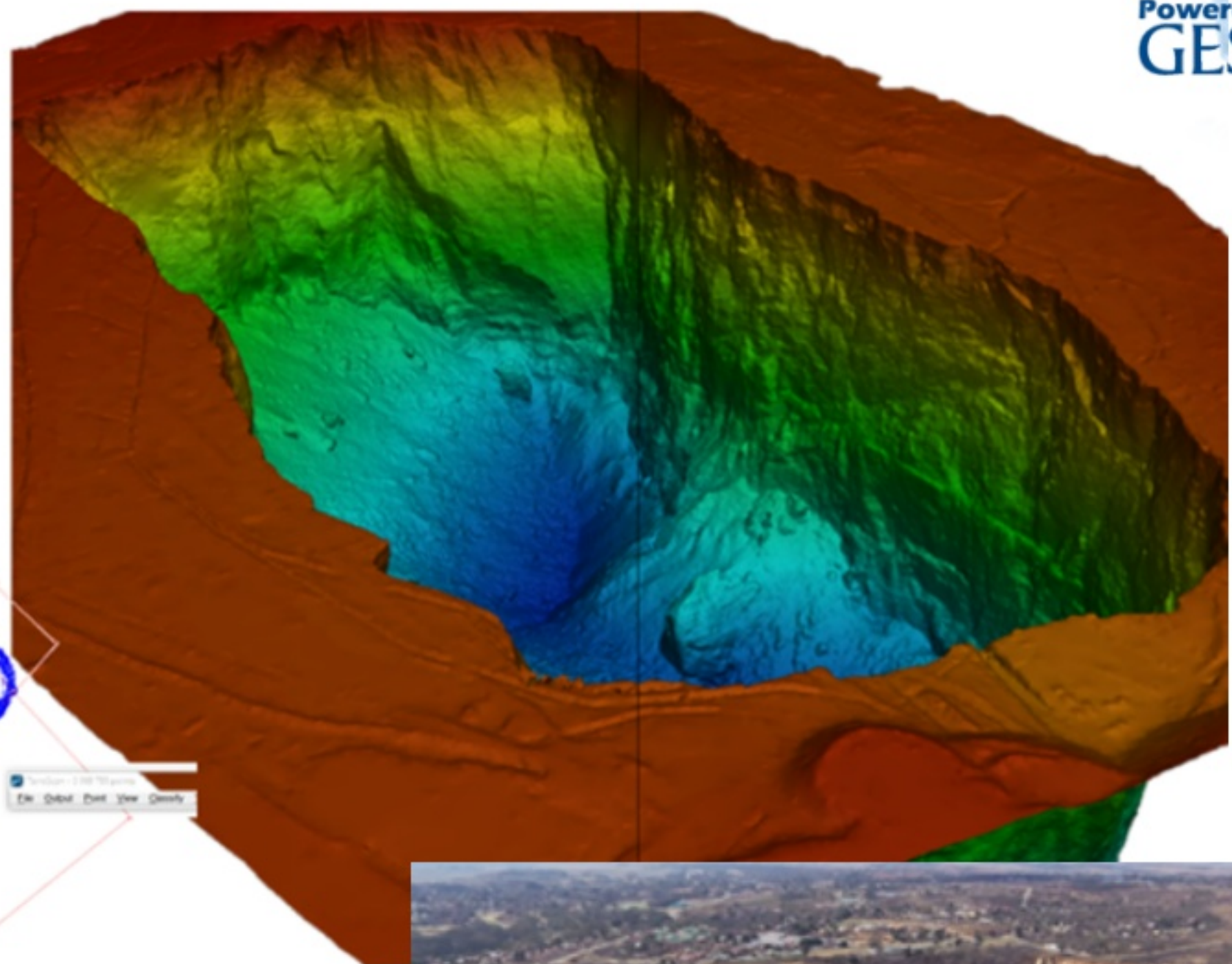
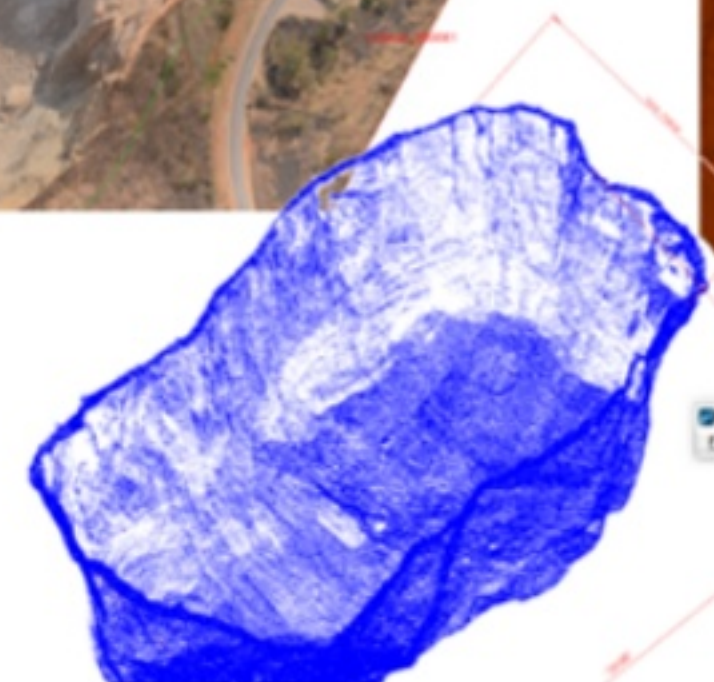
GRAPHIC ENGINEERING SOLUTIONS & SERVICES



- IT Solutions
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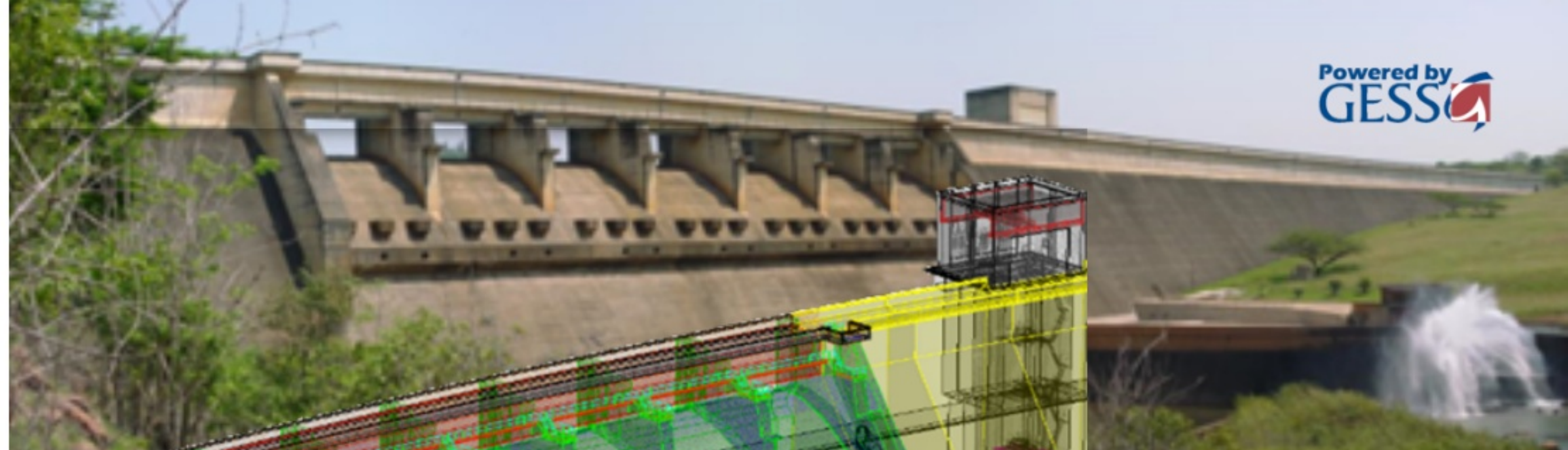
Project History 2002-2024

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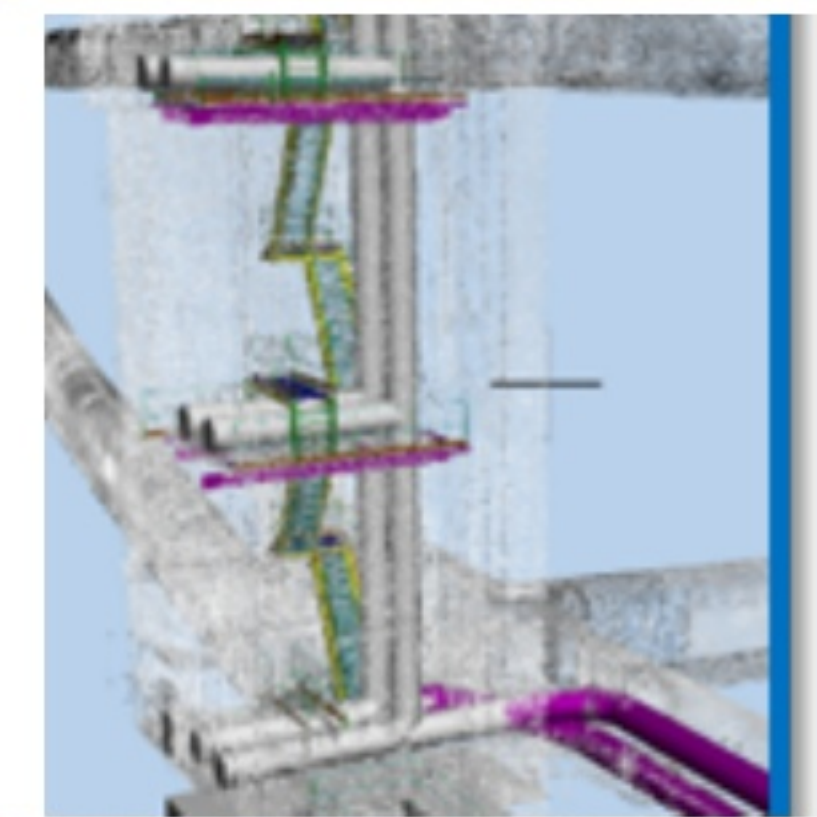
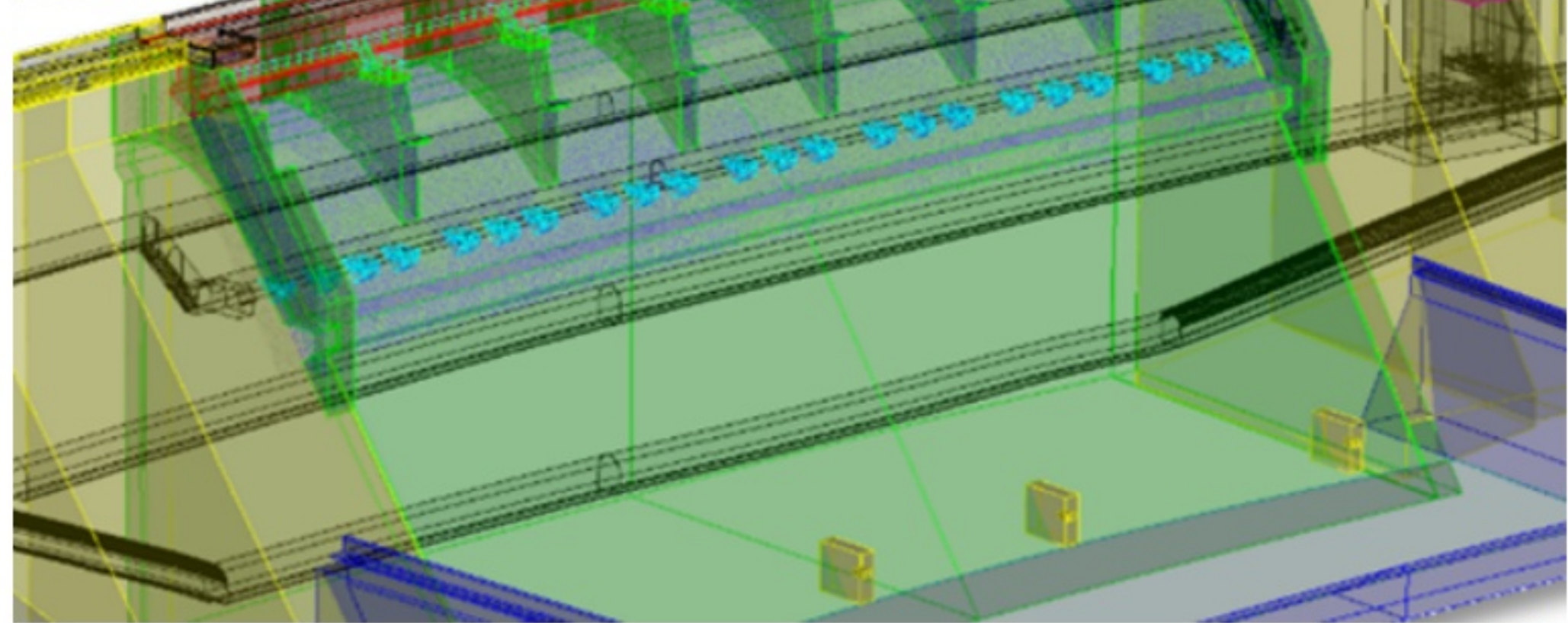


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Cullinan Pit Aerial LiDAR Survey Project
Petra Diamonds
2015
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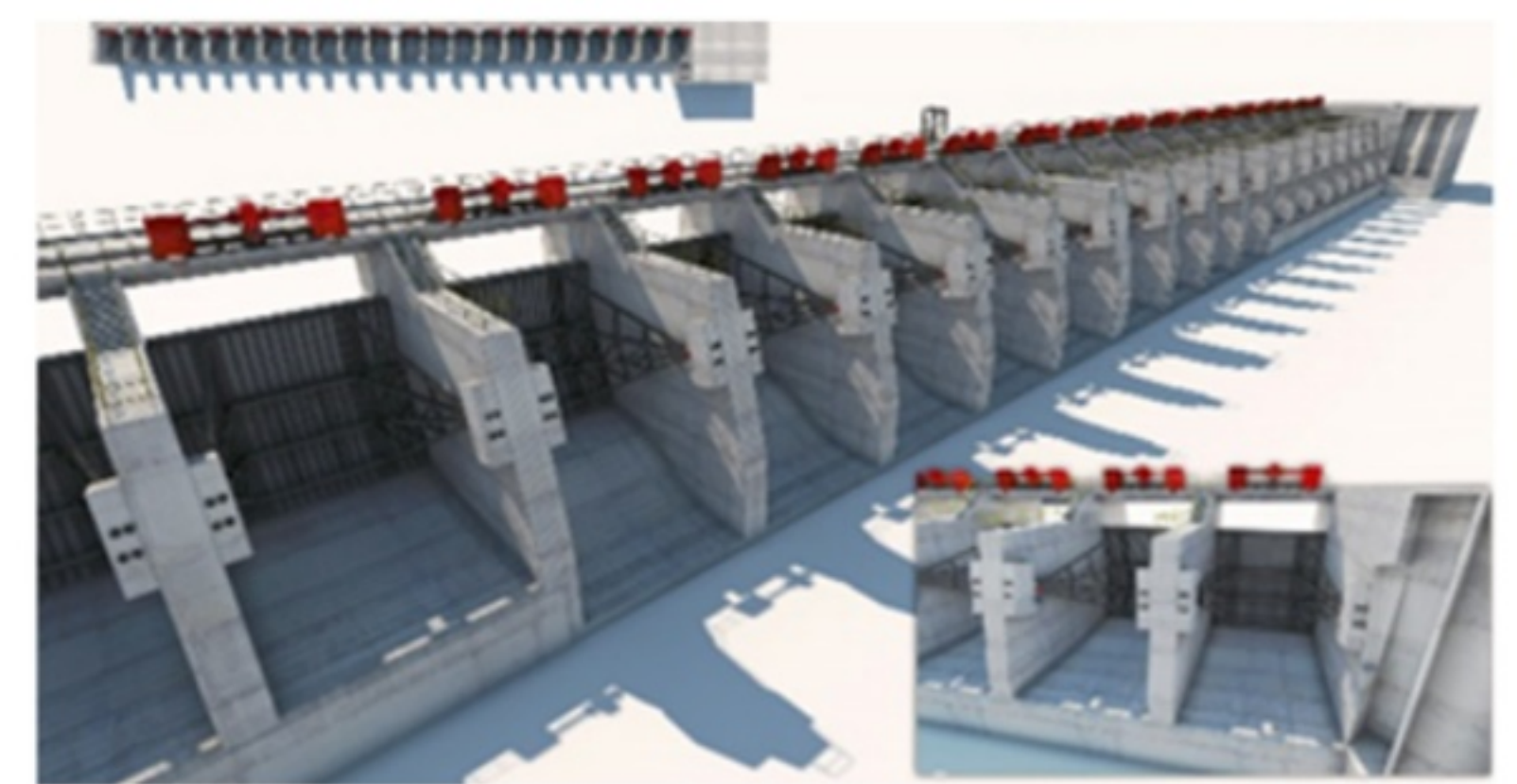
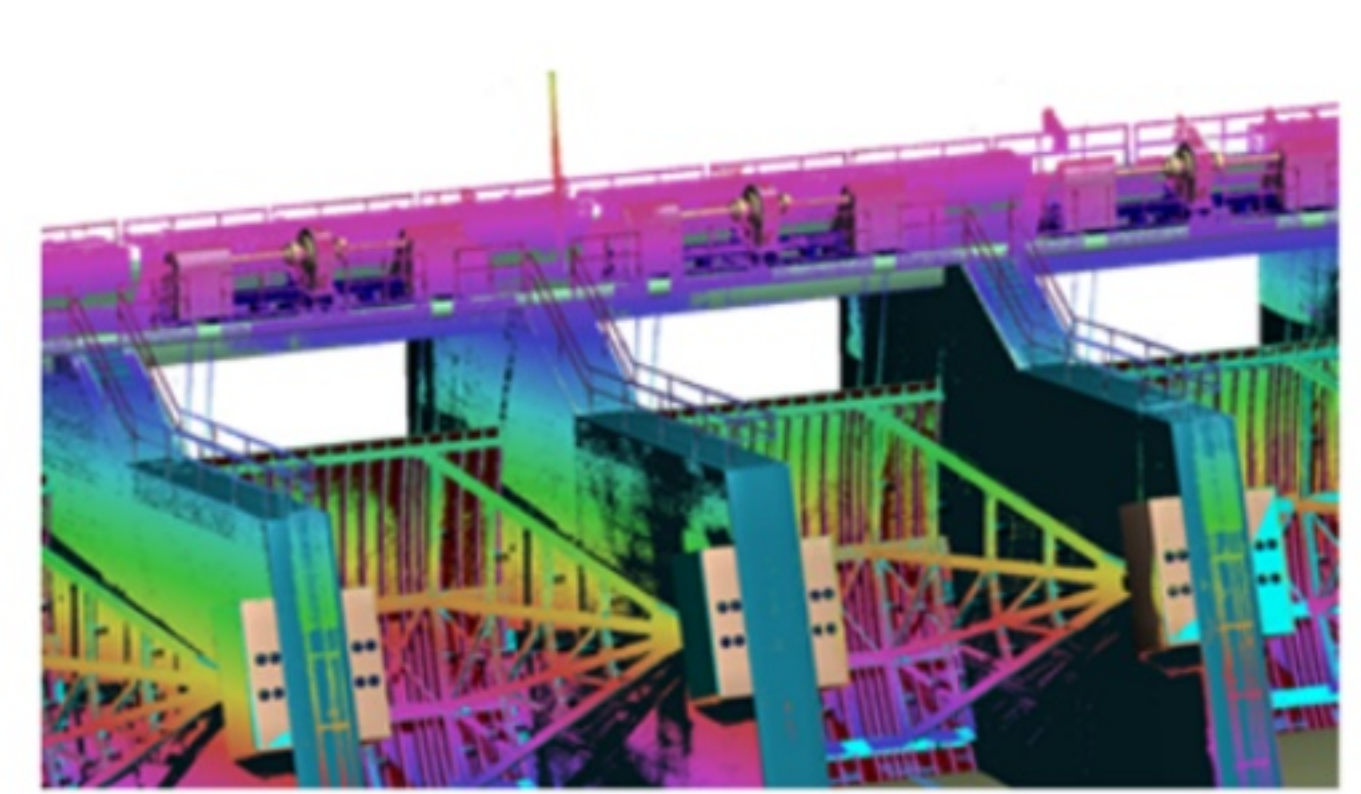
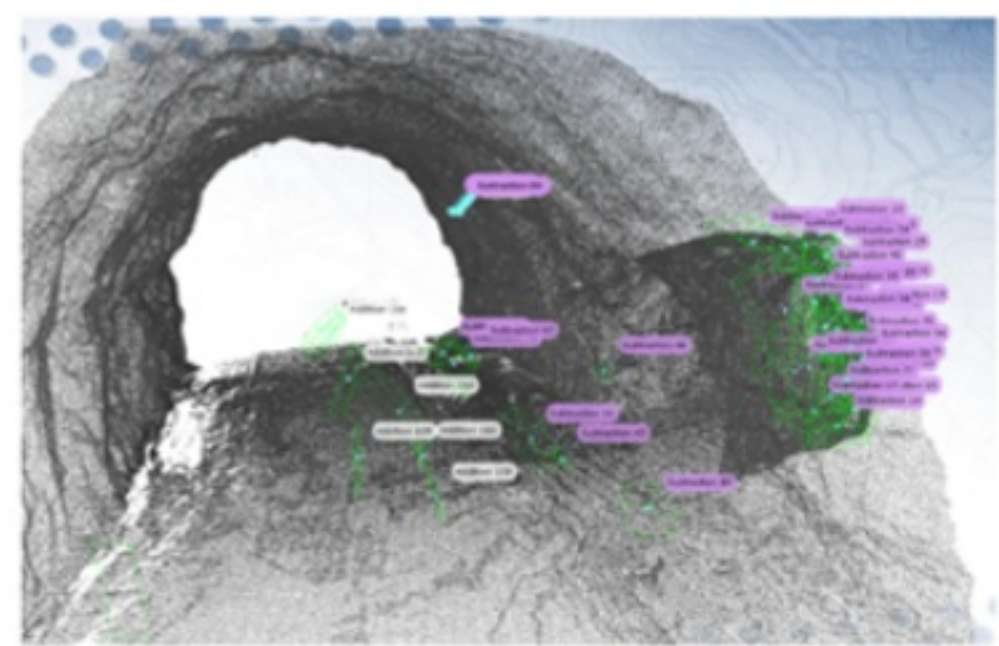
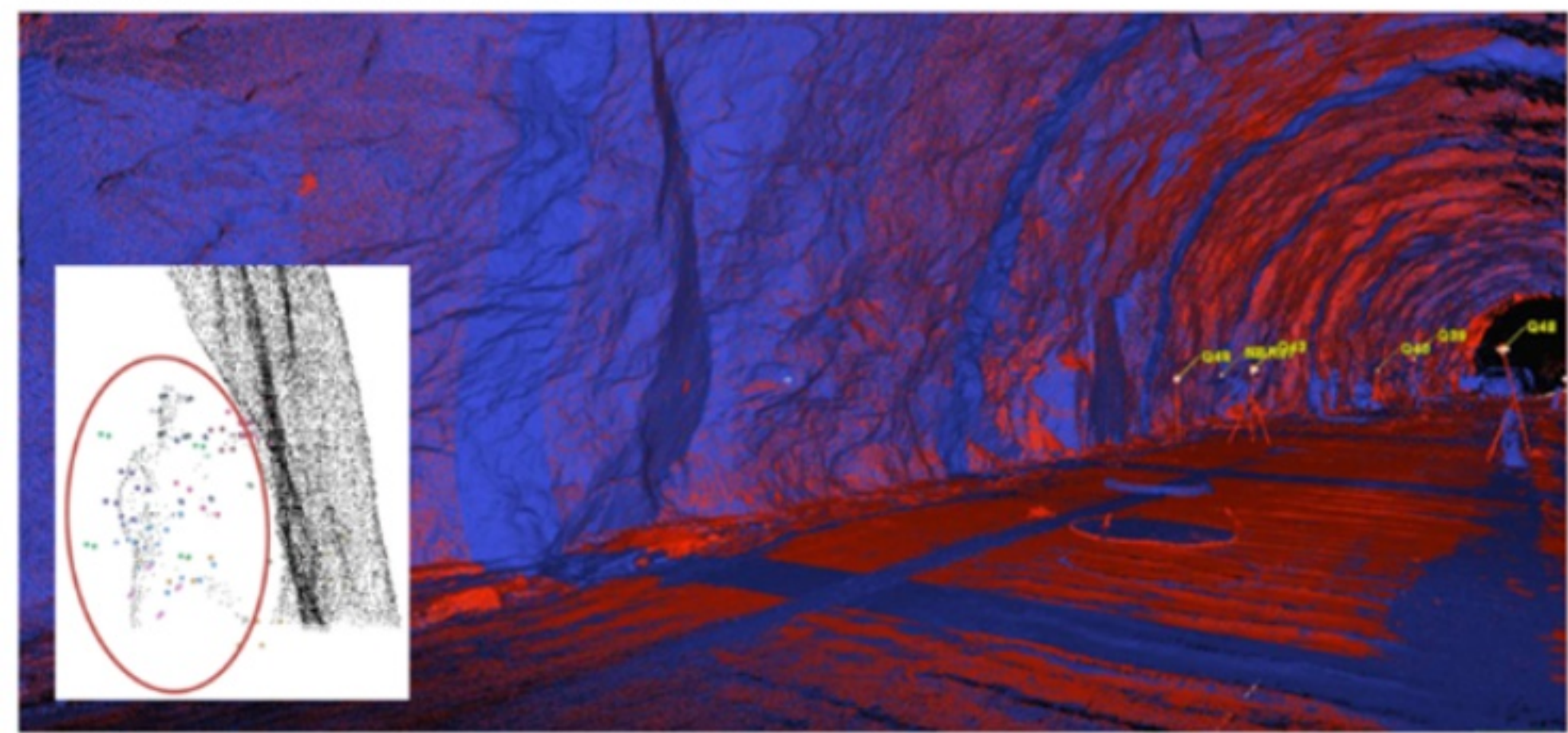
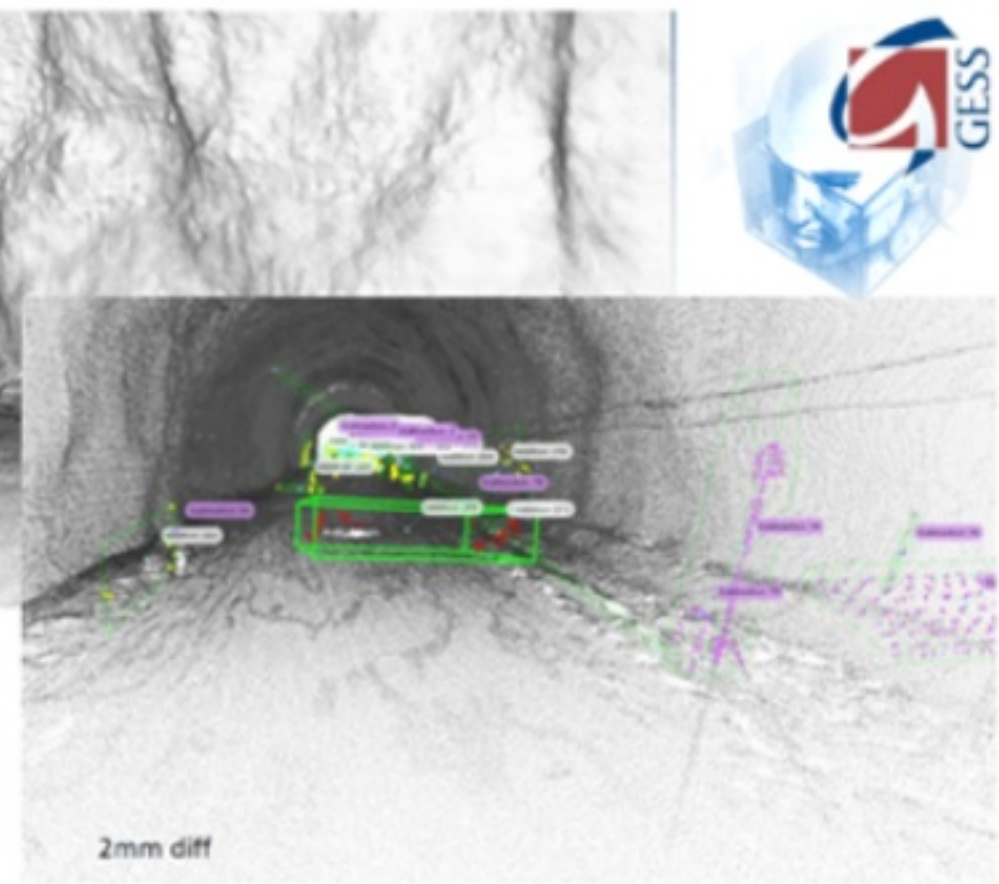
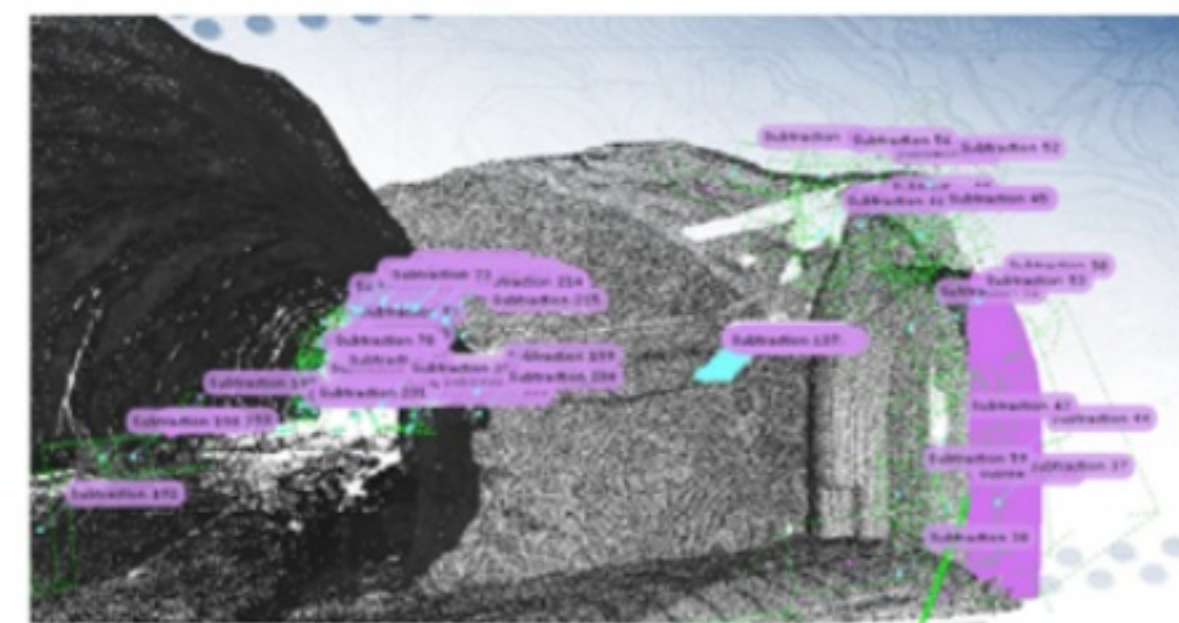


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Hazelmere Dam Scanning & Reverse
Engineering: Digital Twin
Ingerop, DWAF
2012



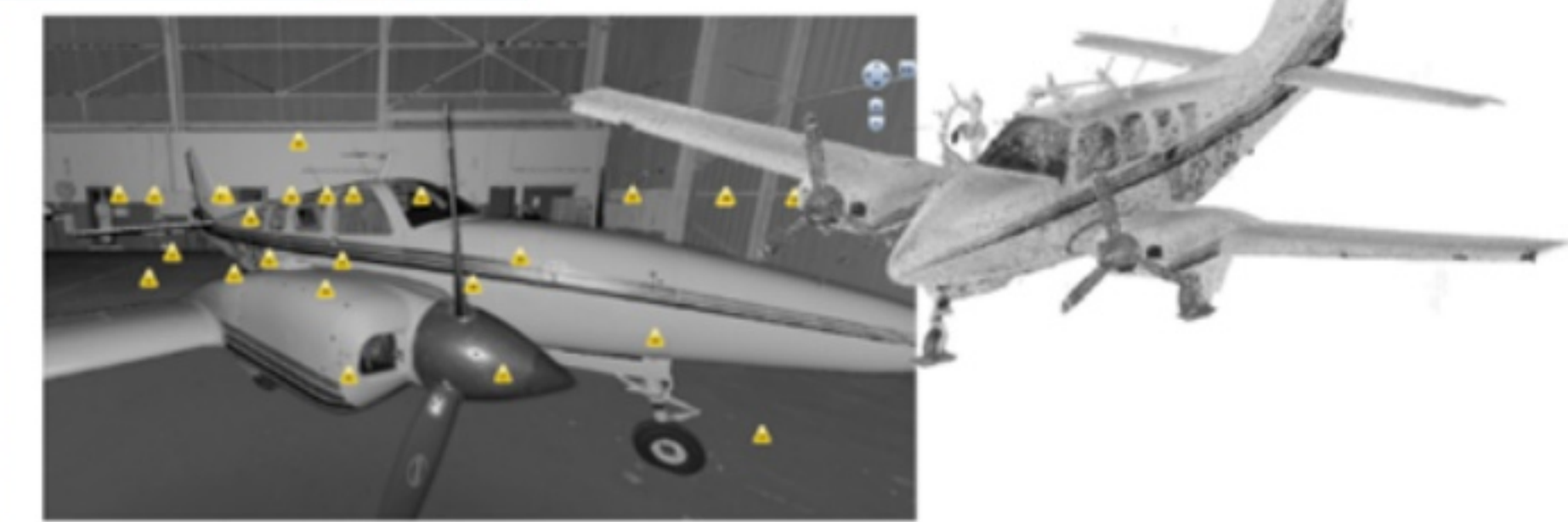
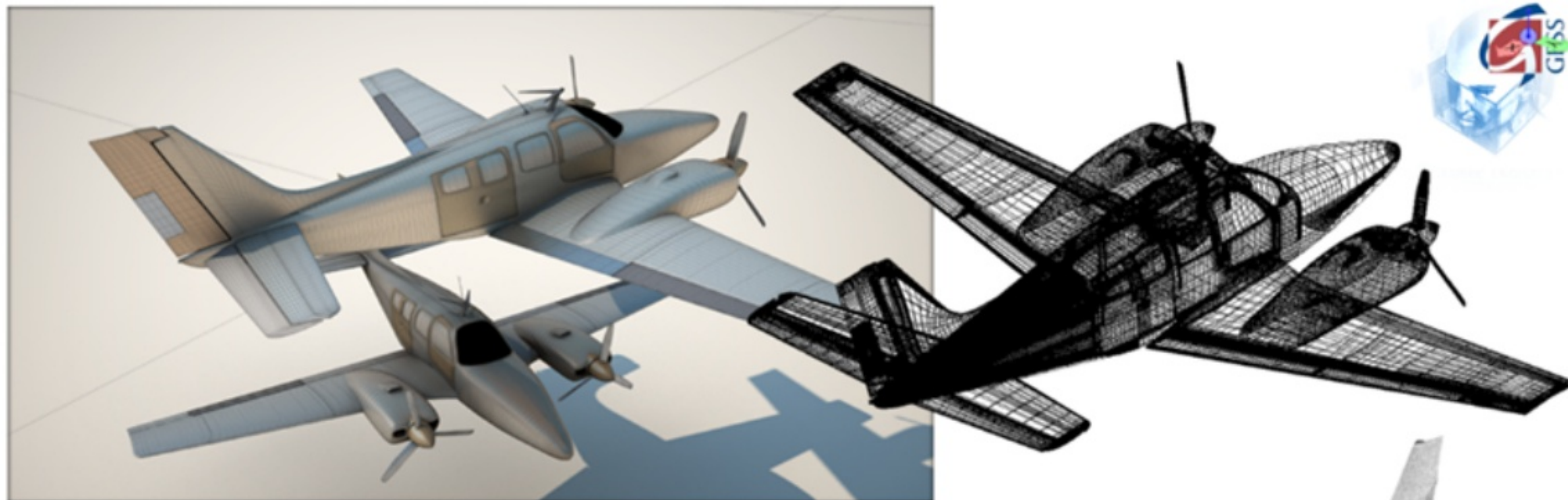


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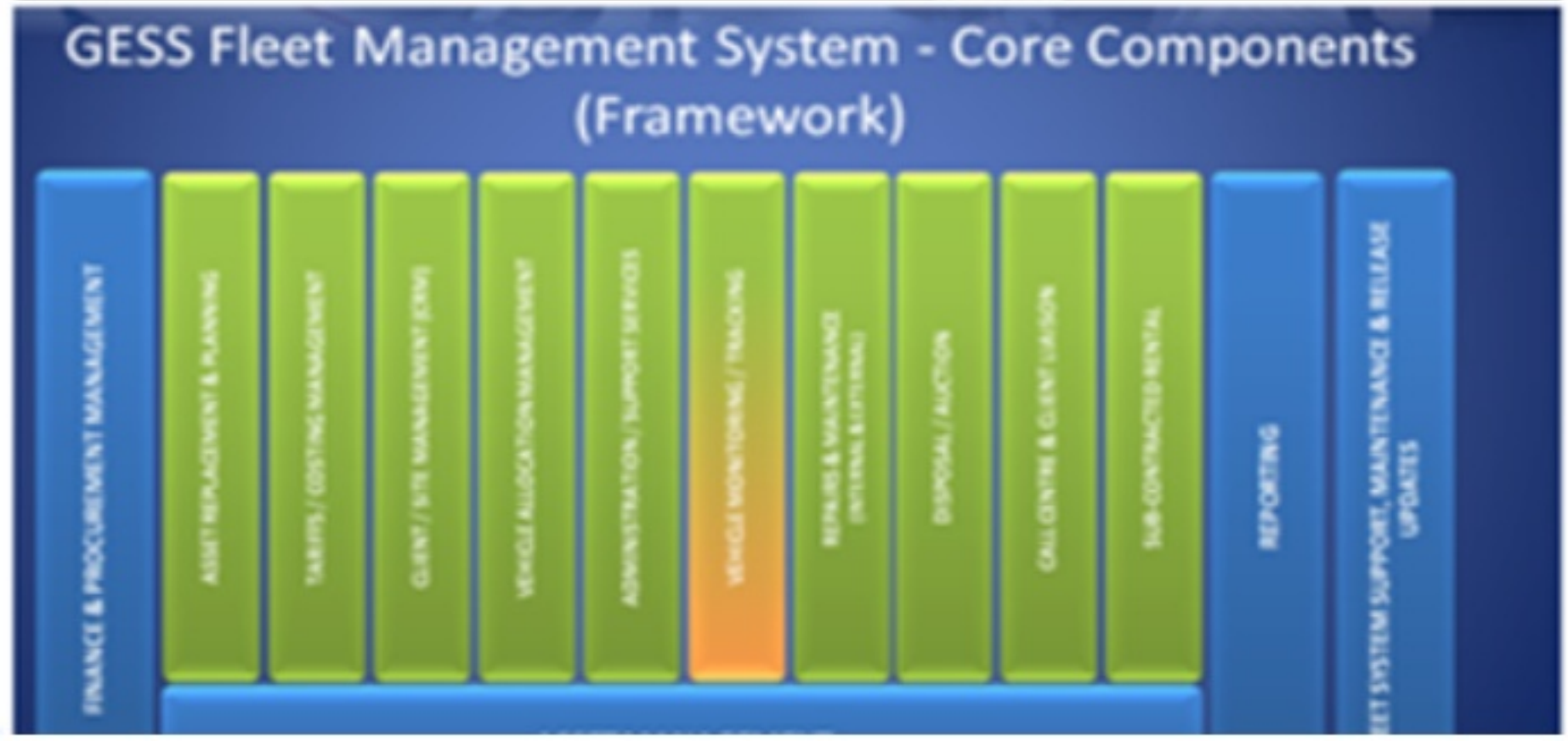
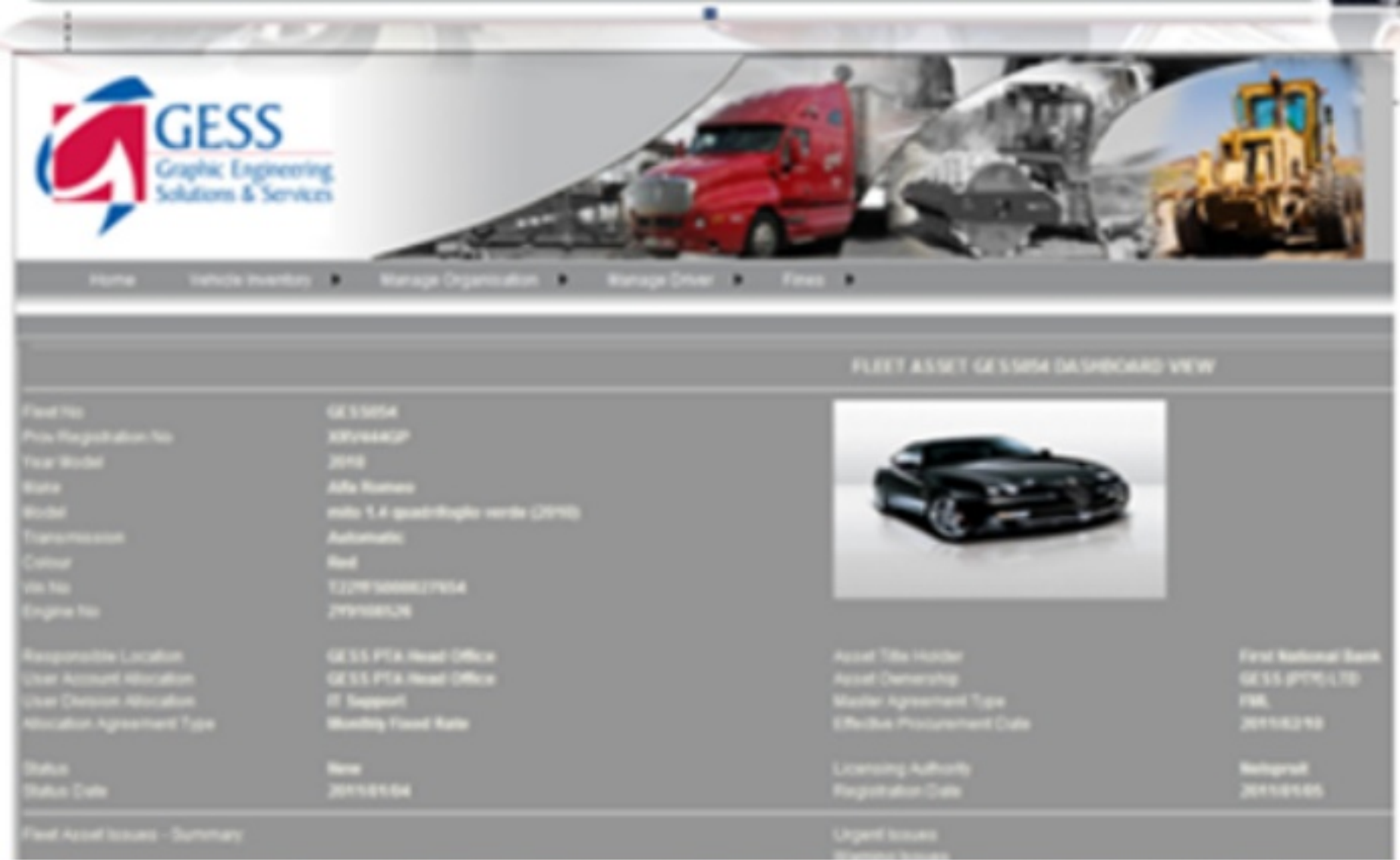
Huguenot Tunnel Terrestrial LiDAR Survey
SANRAL
2010

Phalaborwa Barrage Dam Wall Scanning &
Reverse Engineering
DWAF 2012



Aircraft Scanning and 3D Modelling for System Calibration : CSIR 2016

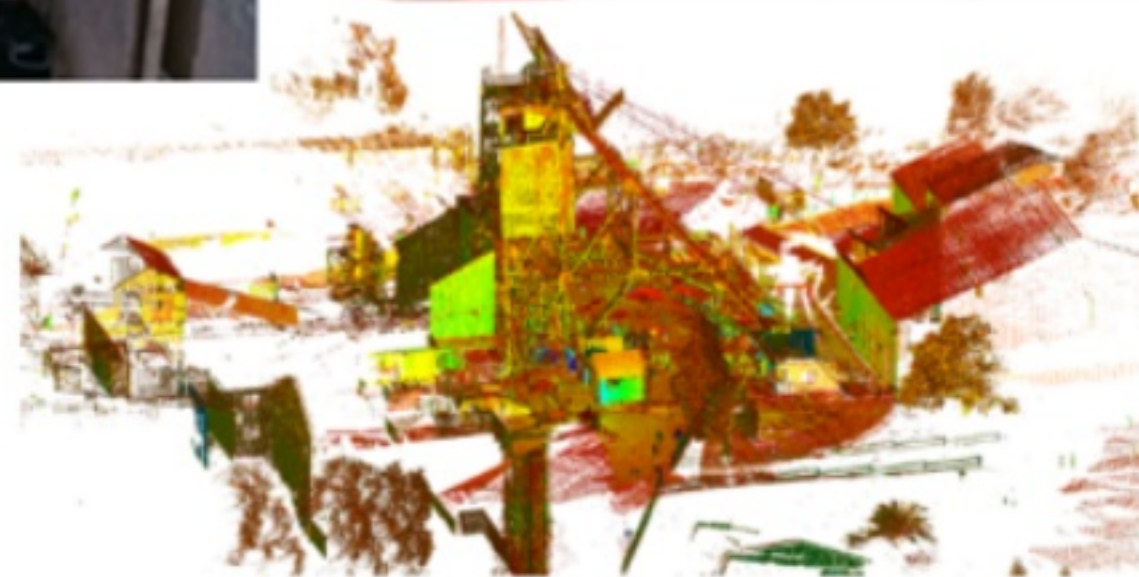
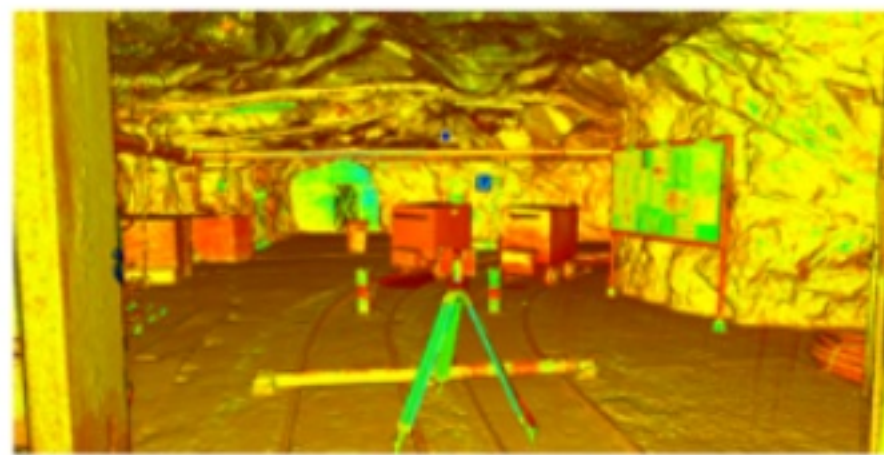
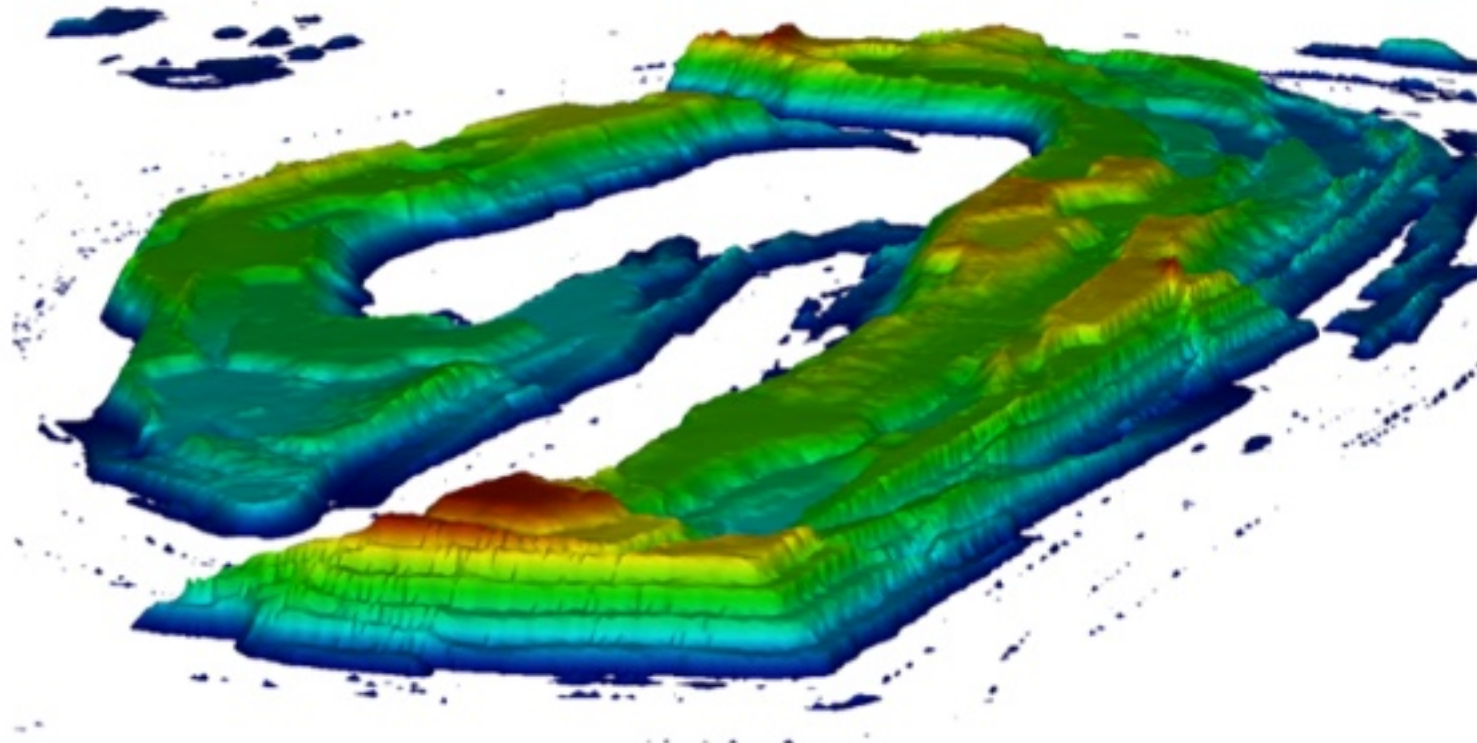
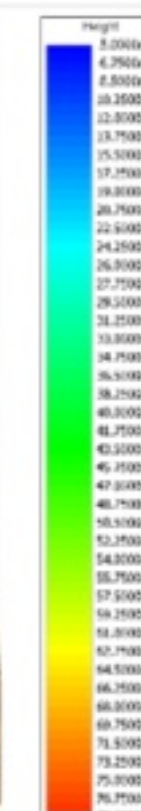
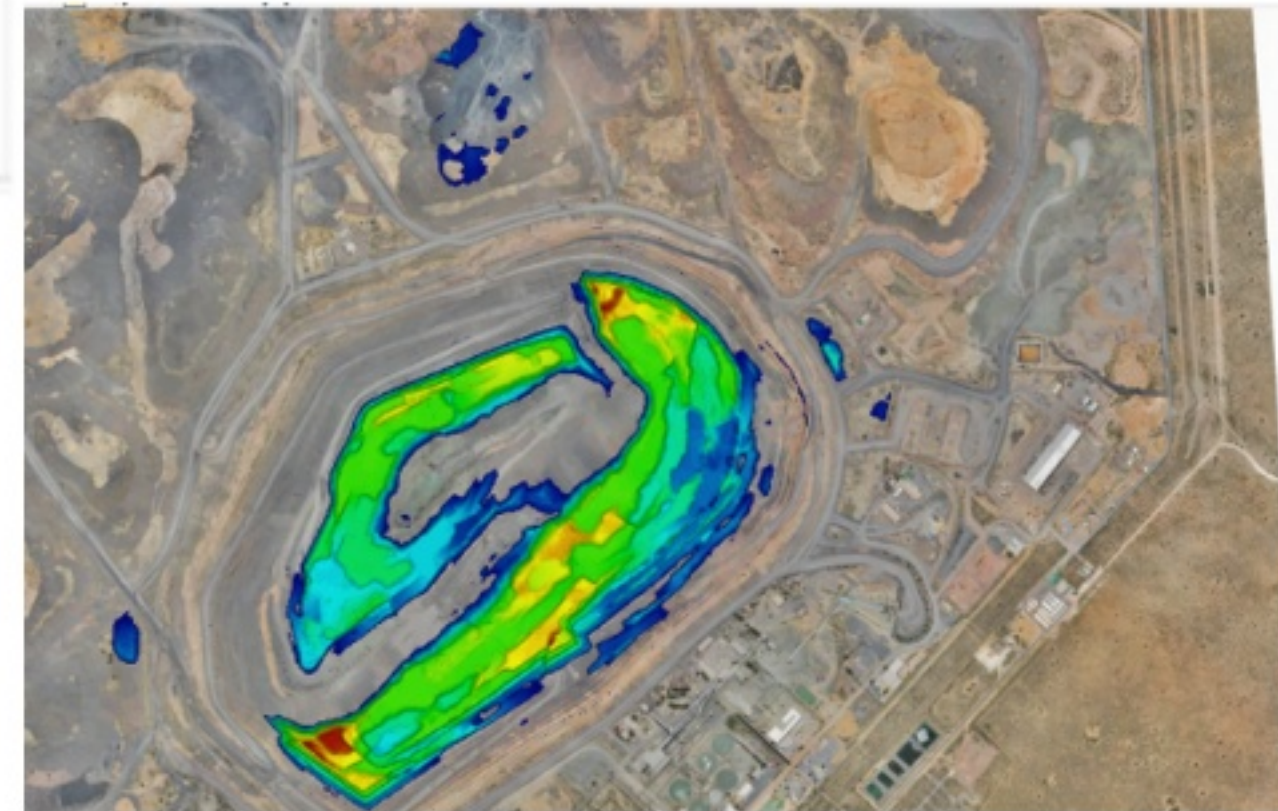
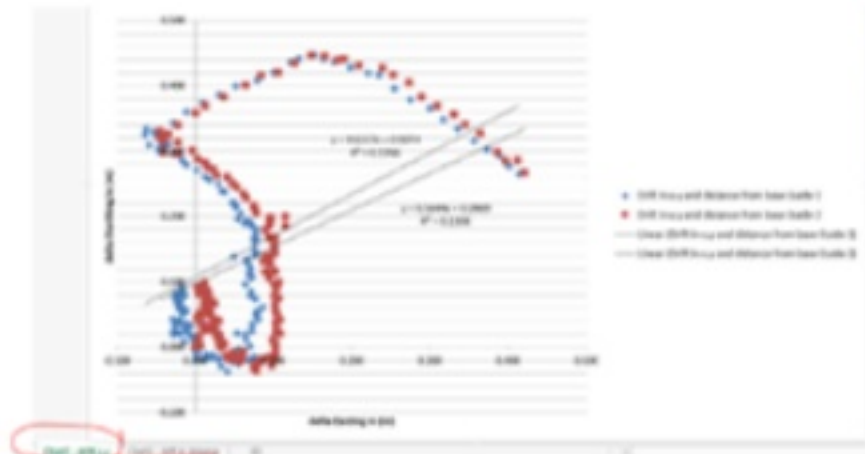
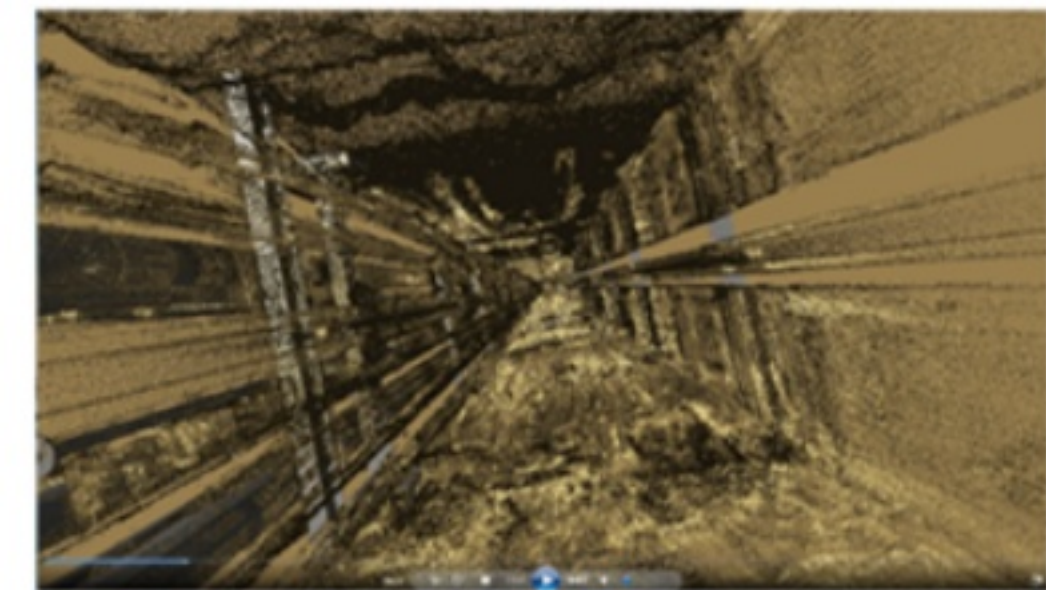
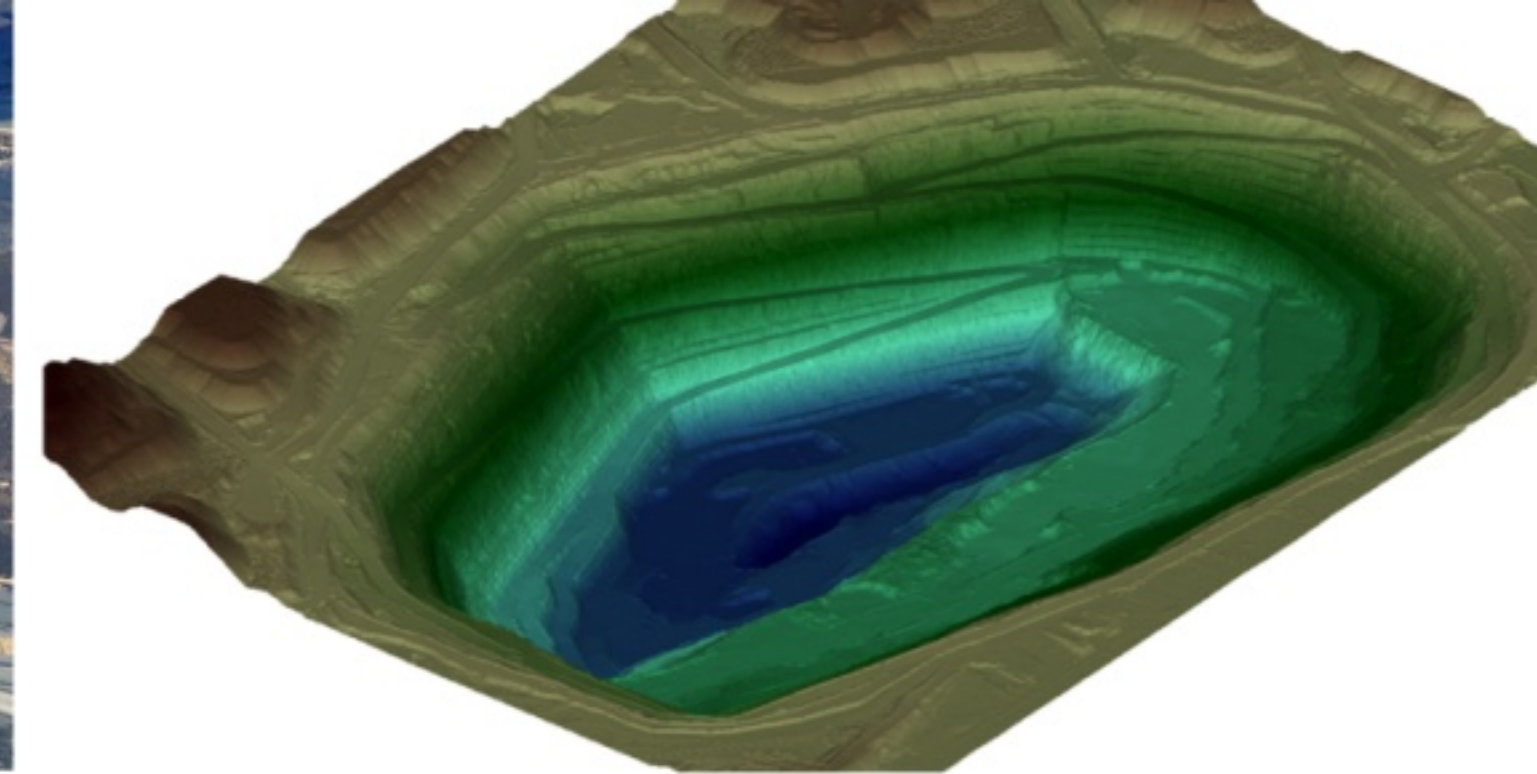
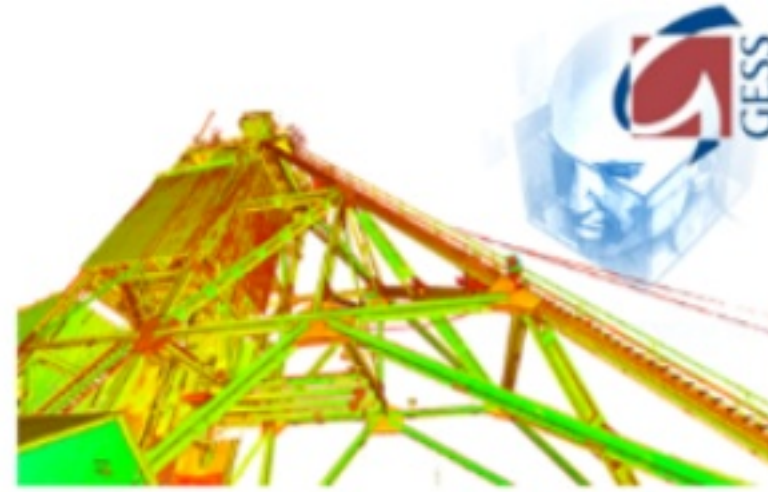
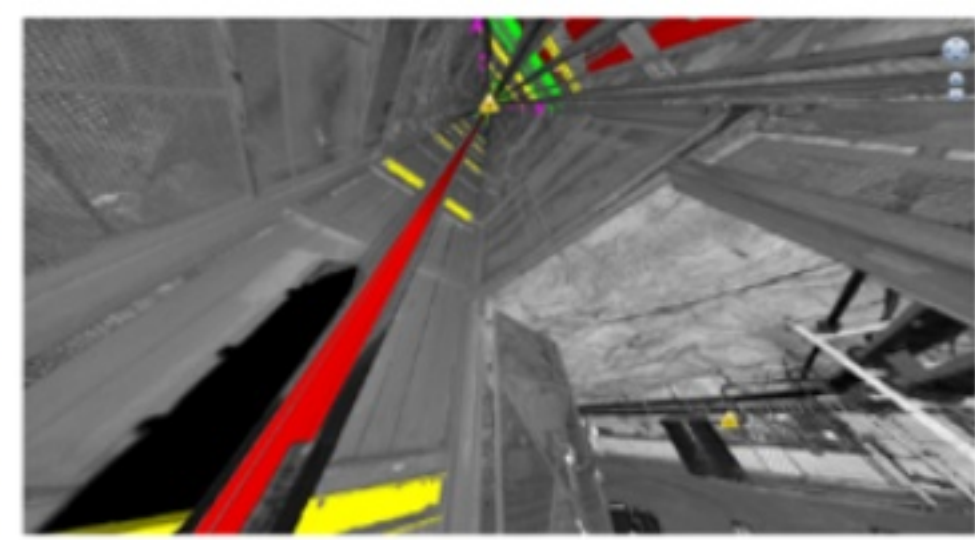
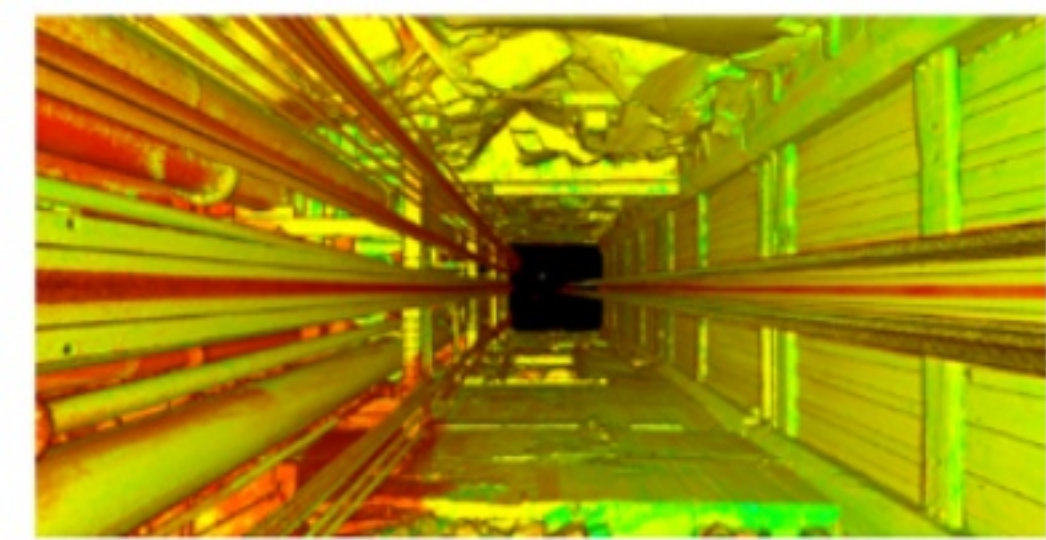
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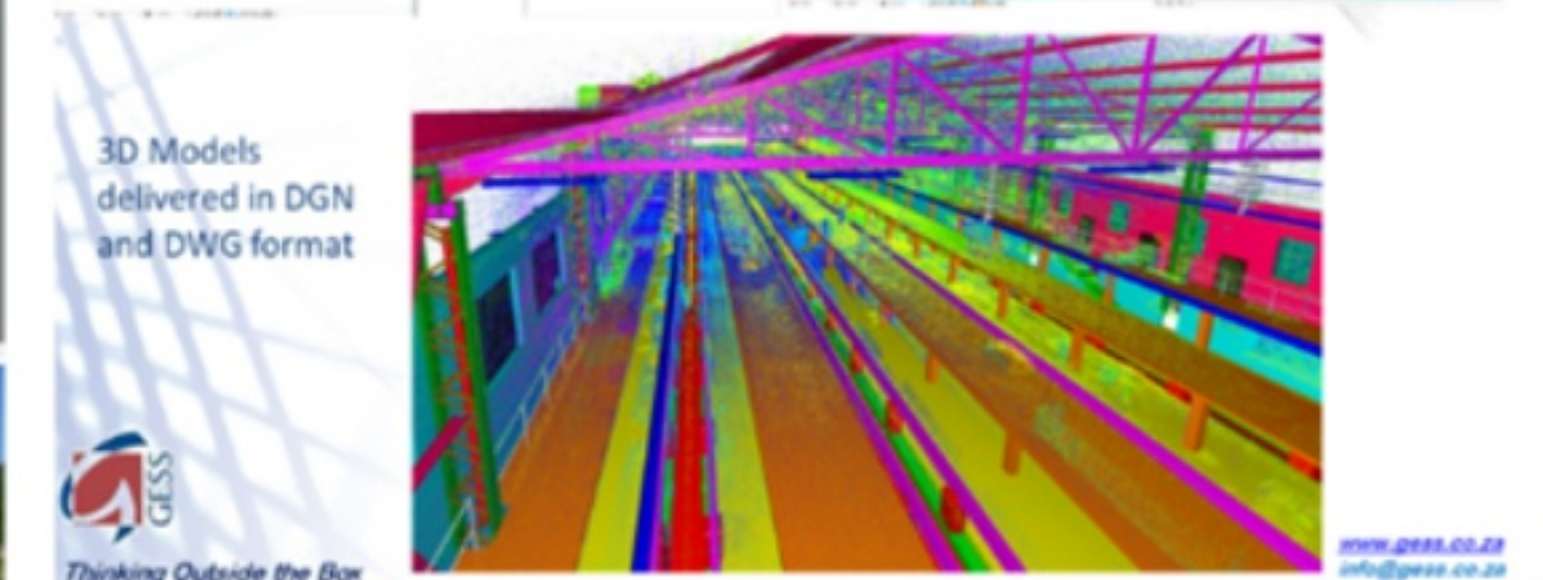
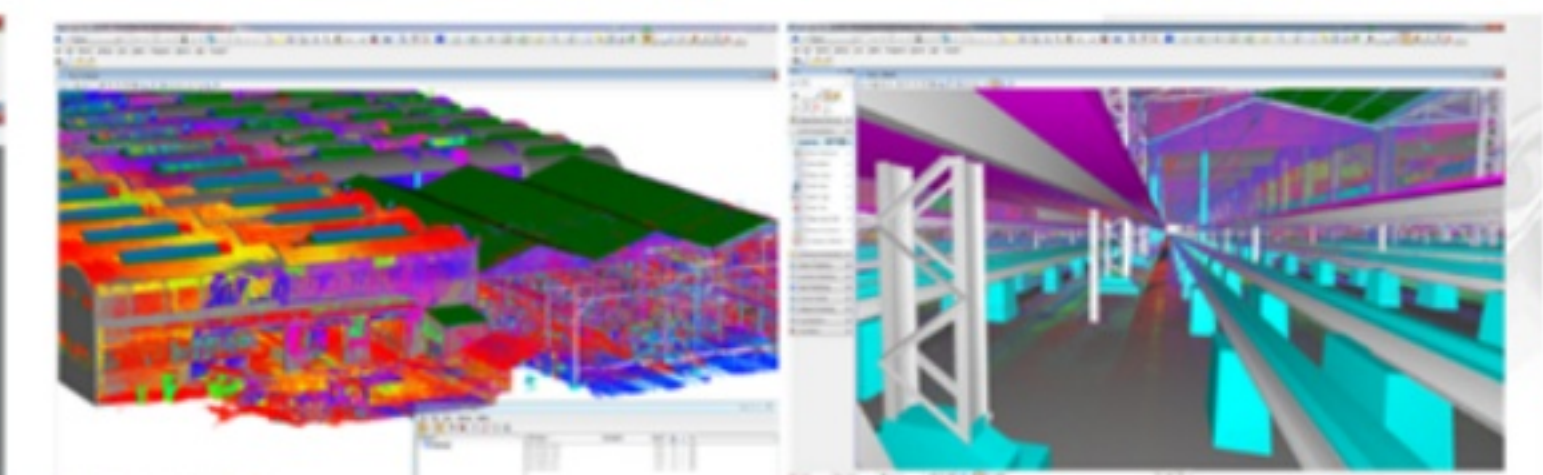
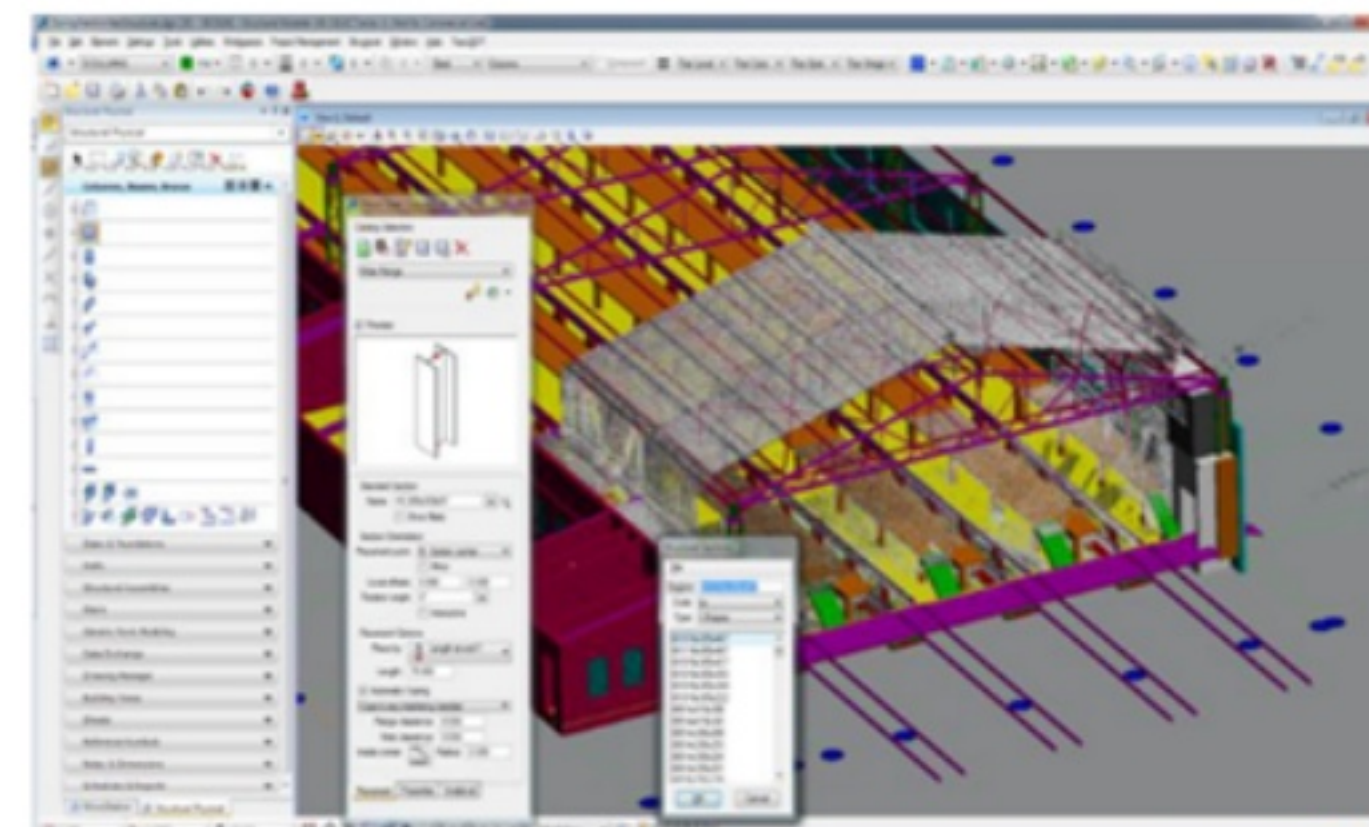
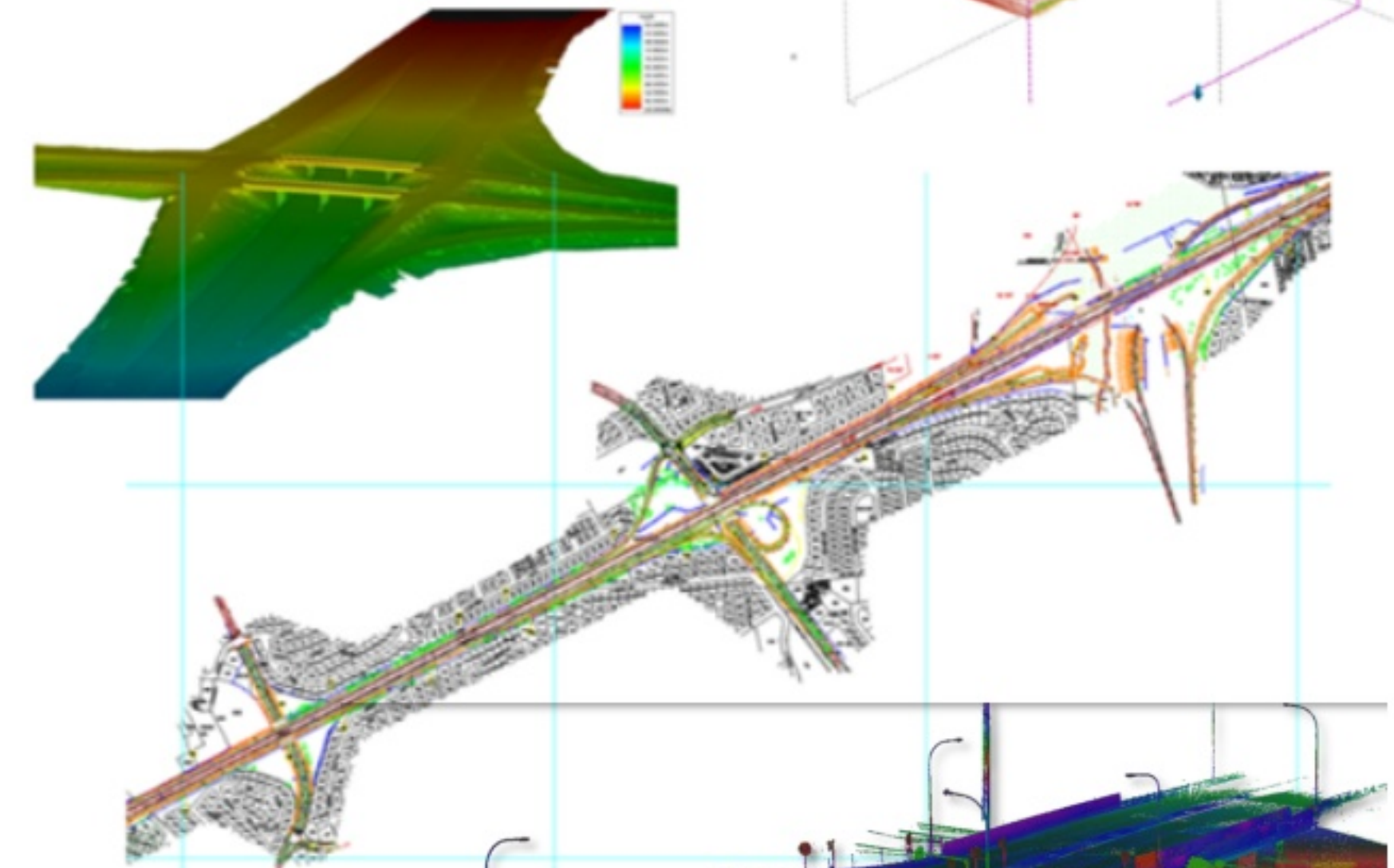
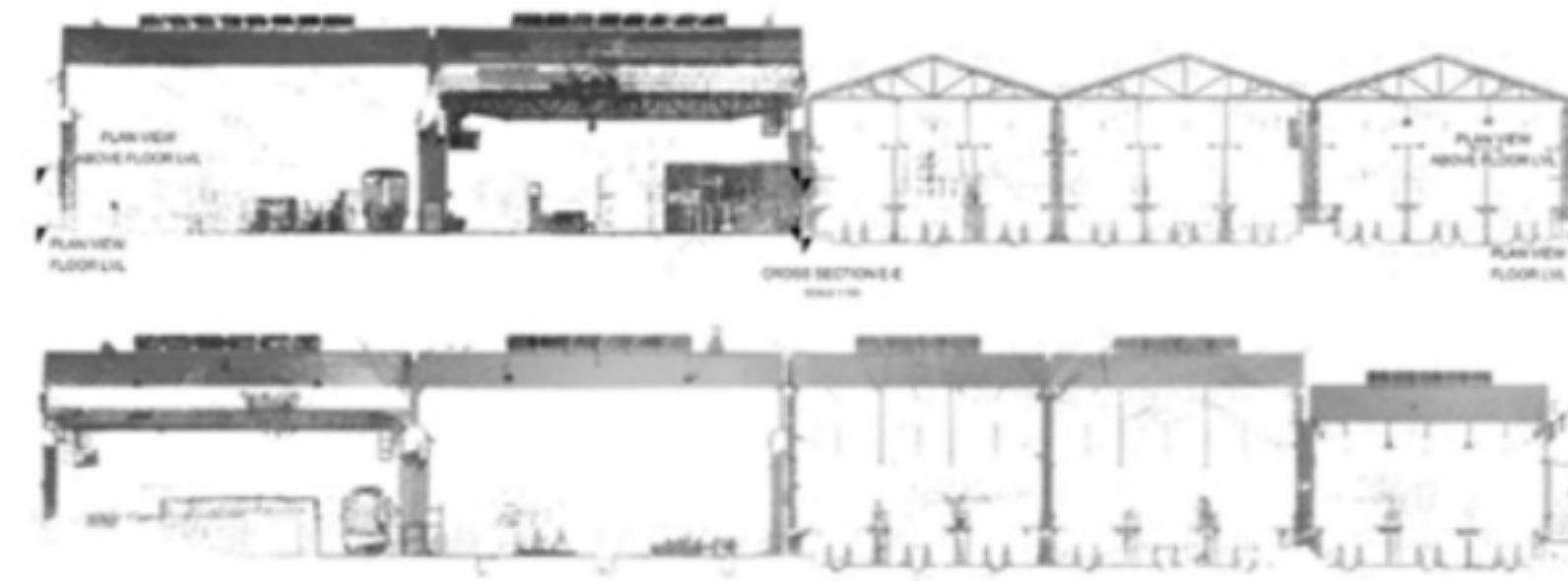
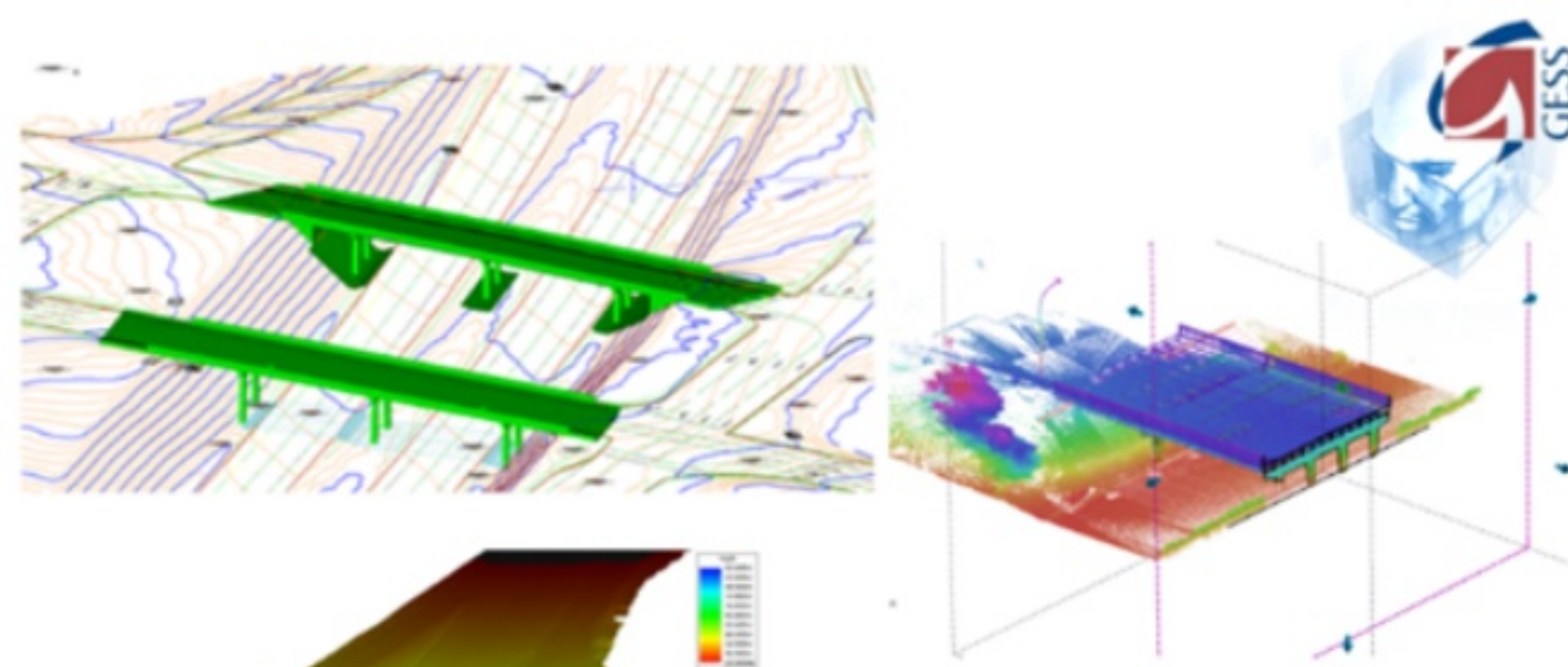
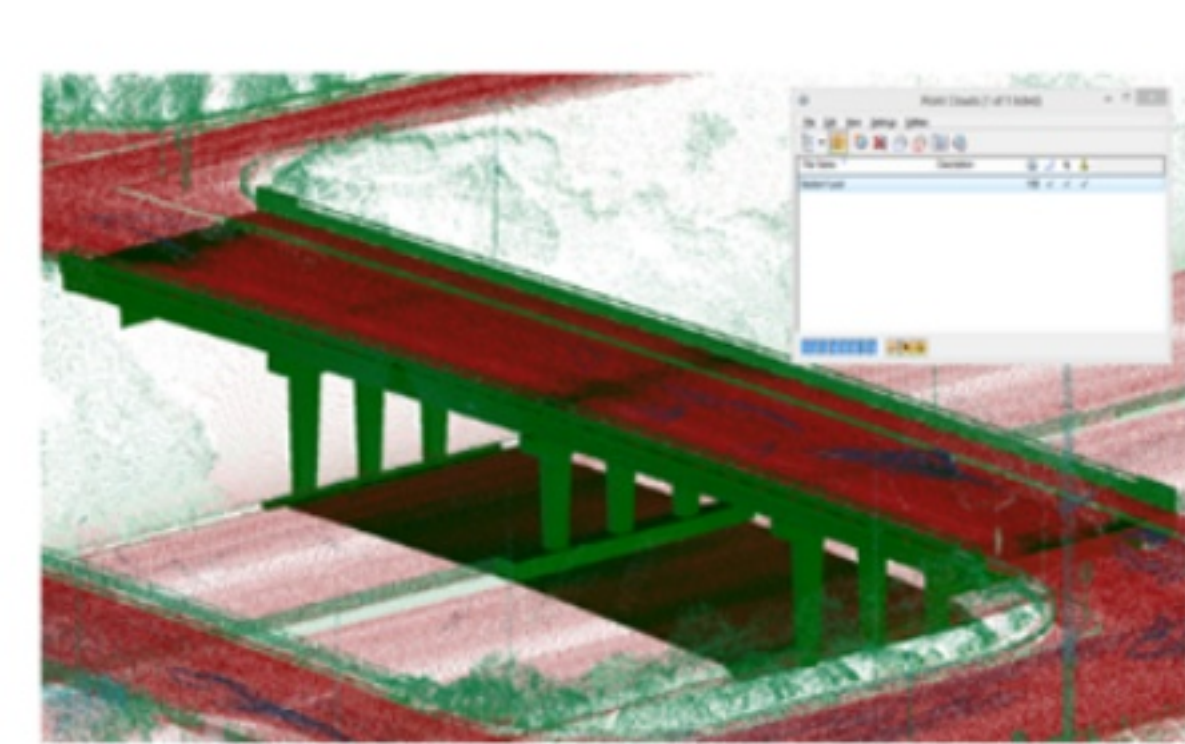


Fleet Management Software Development g-Fleet 2014

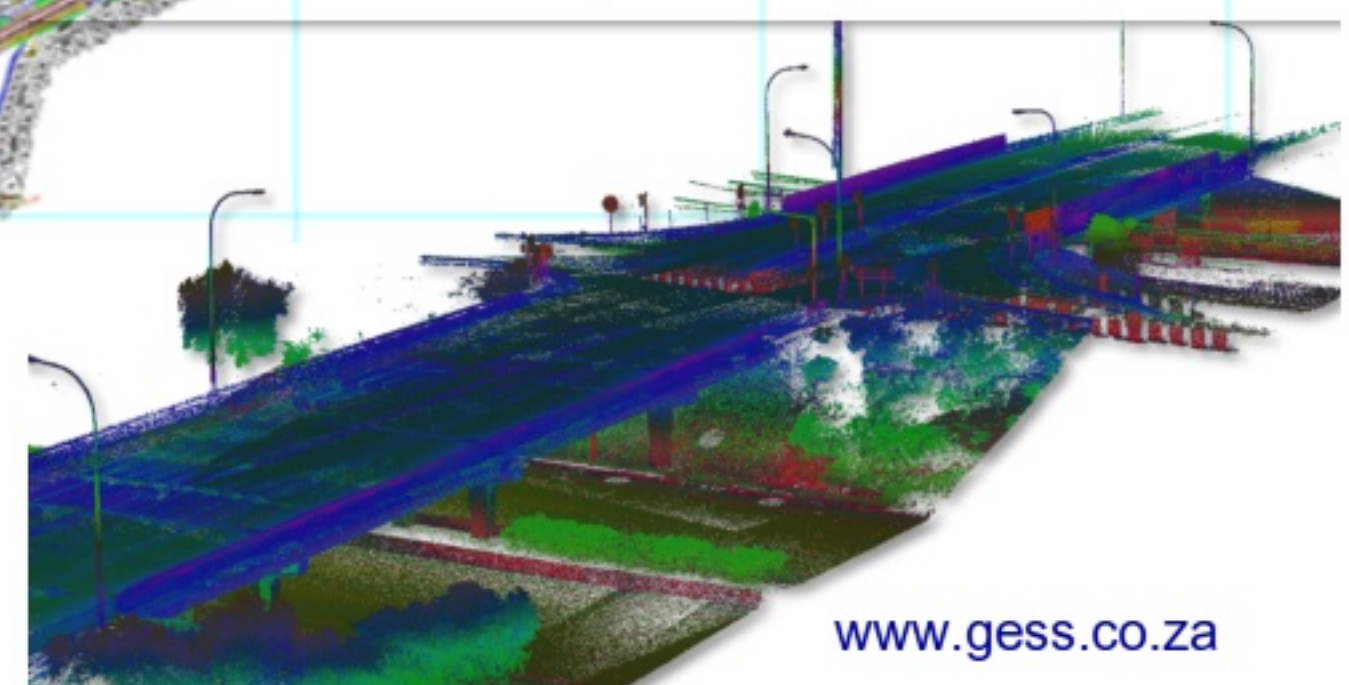


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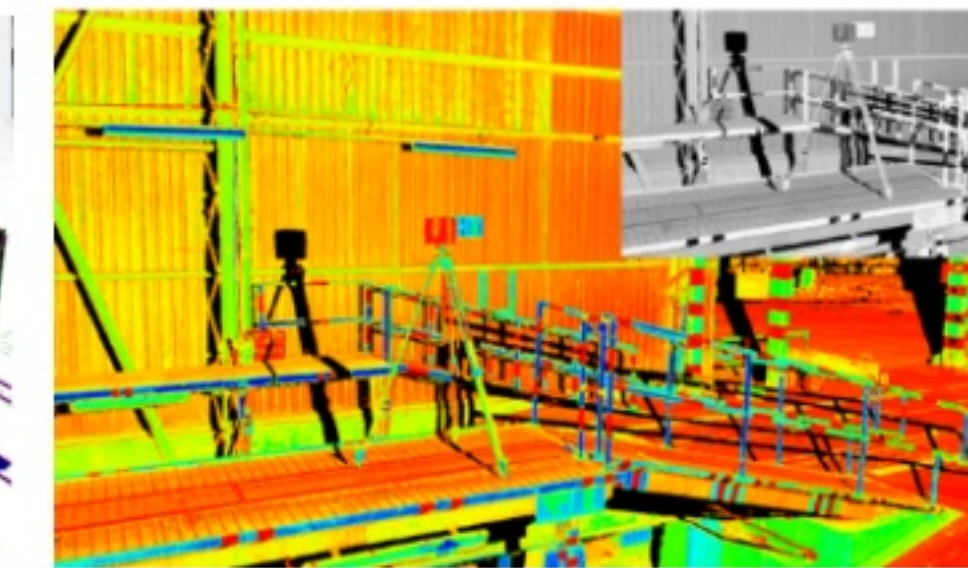
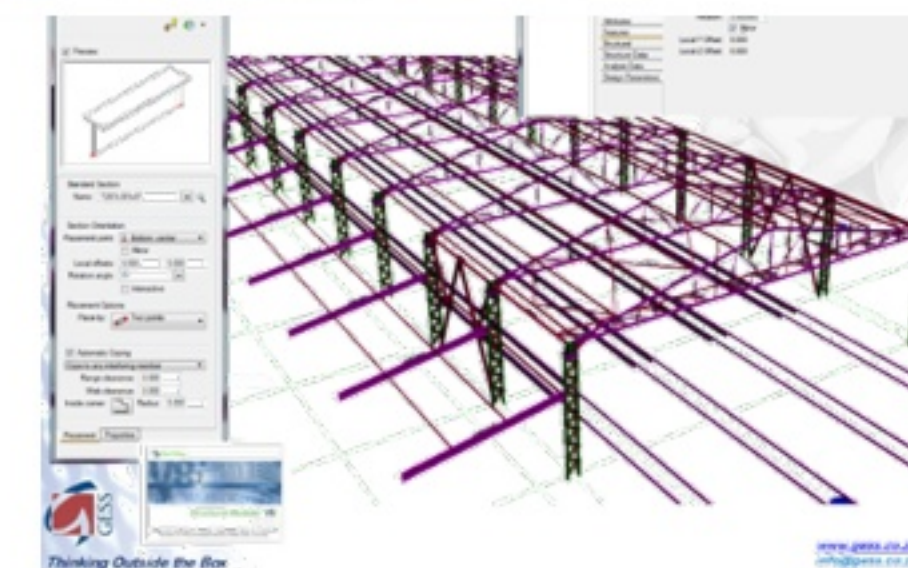
N1 - Mobile LiDAR Survey and 3D Modelling,
Topo Survey :
Western Cape
2014



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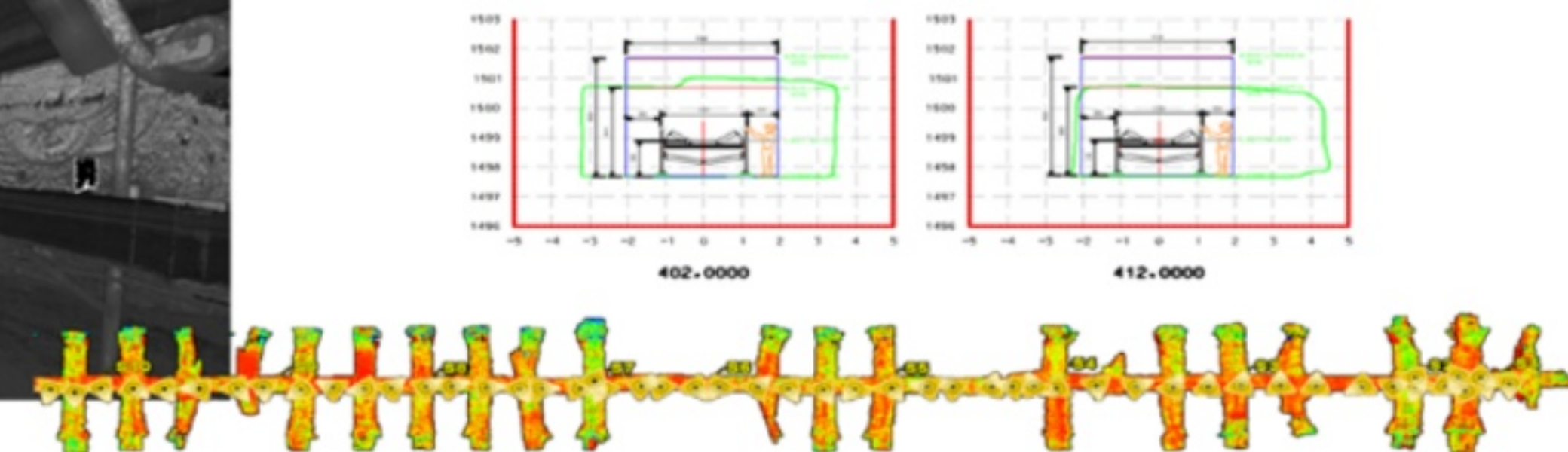
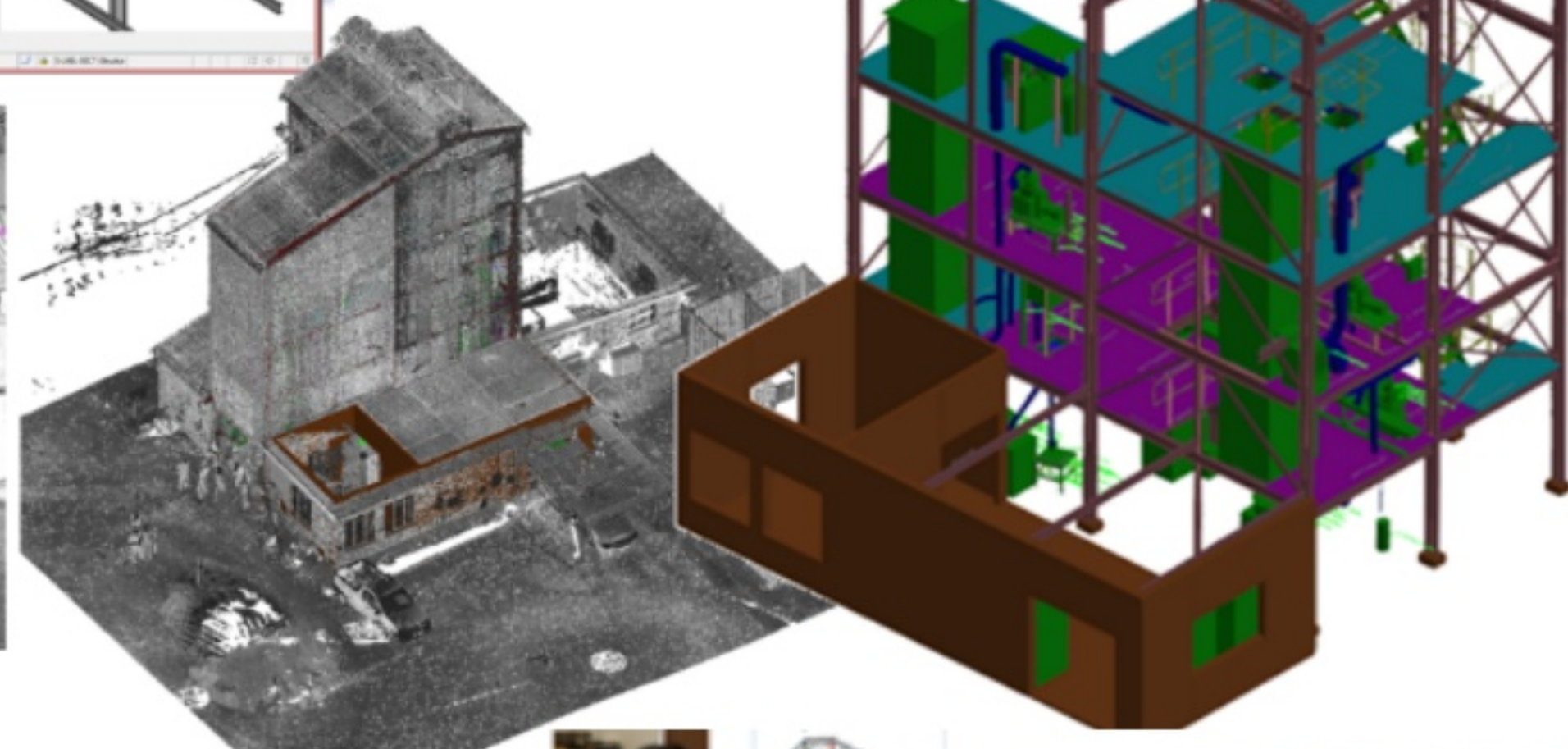
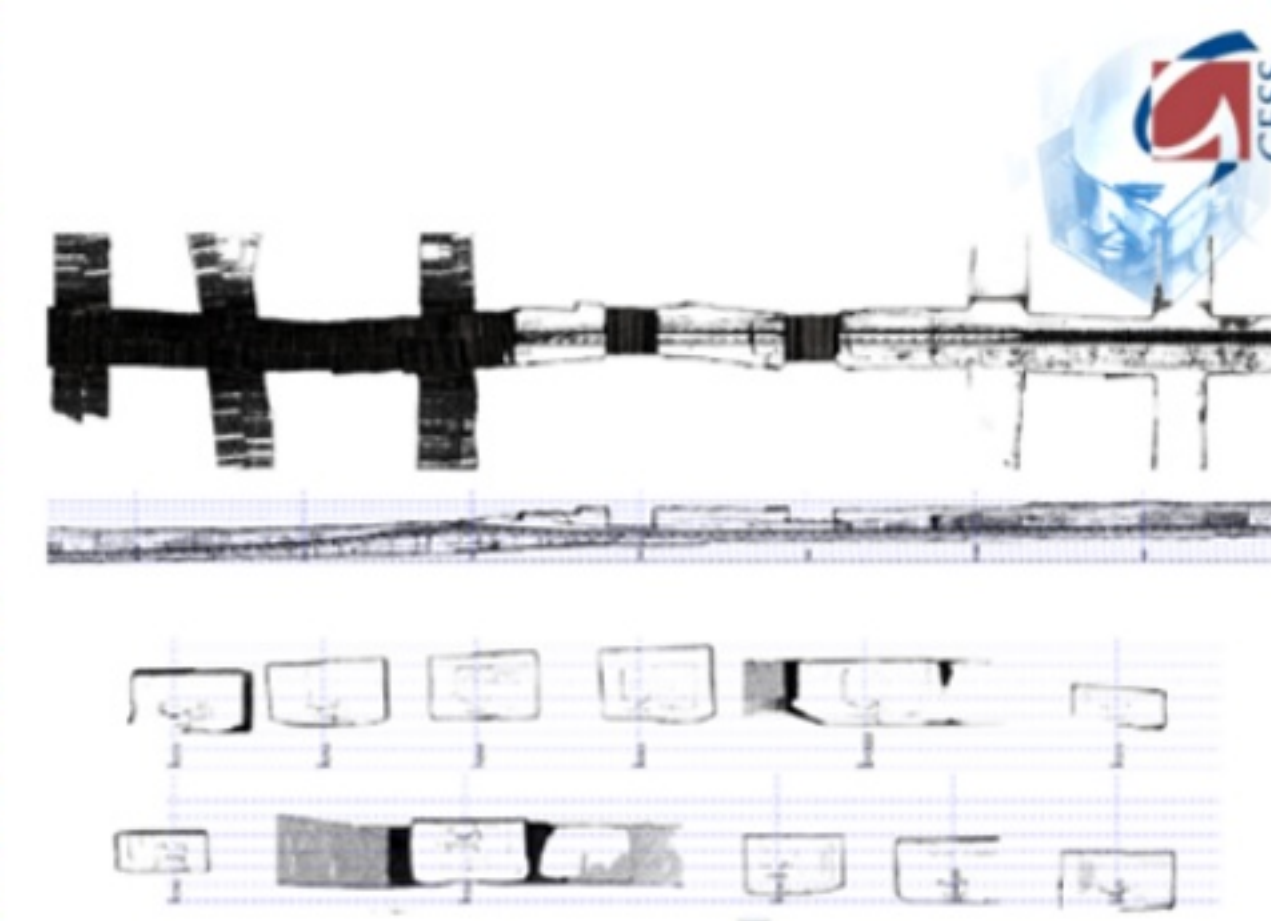
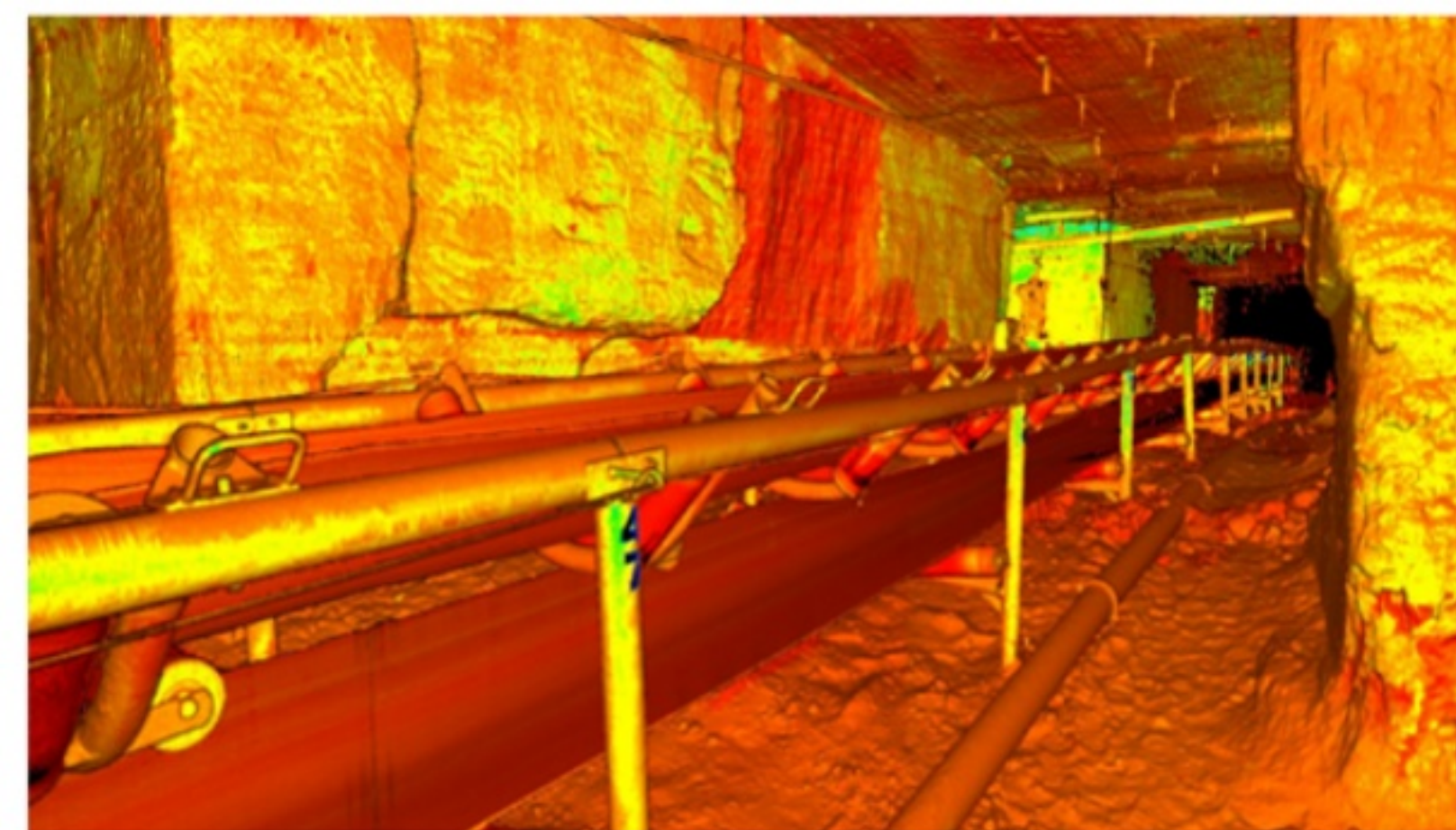
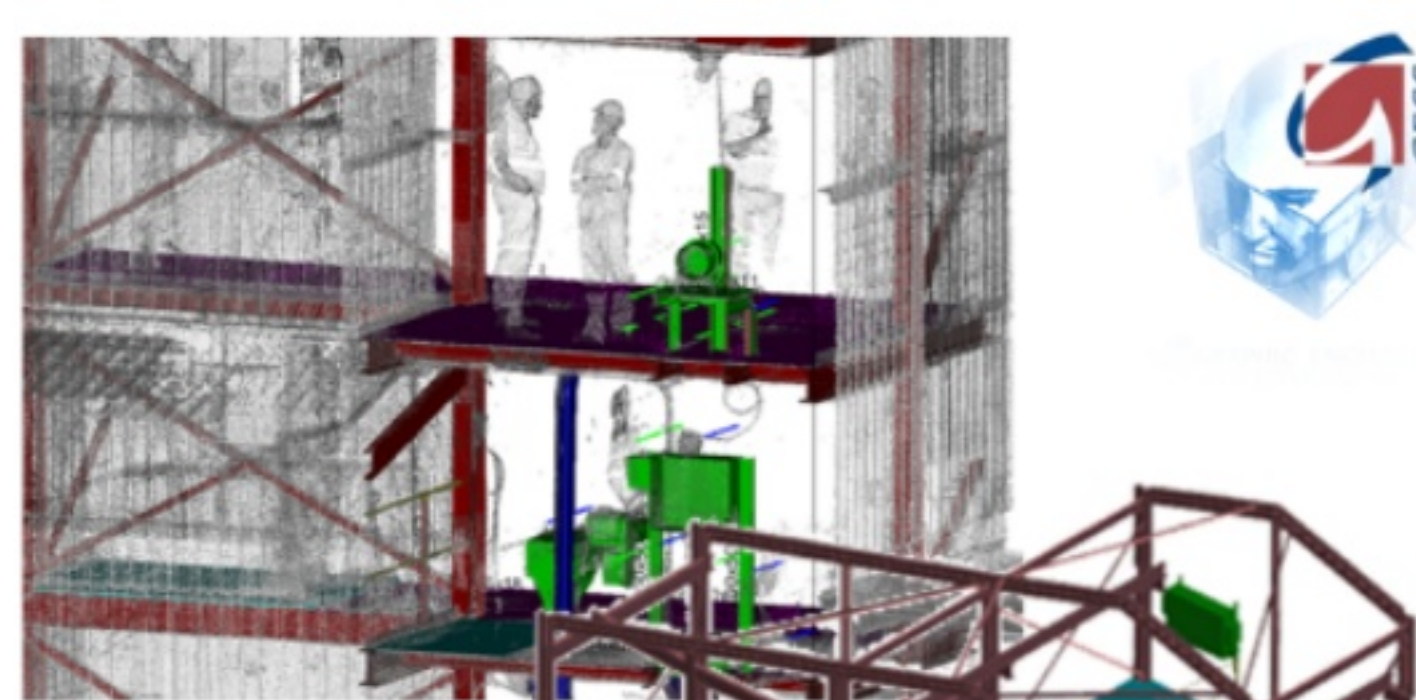
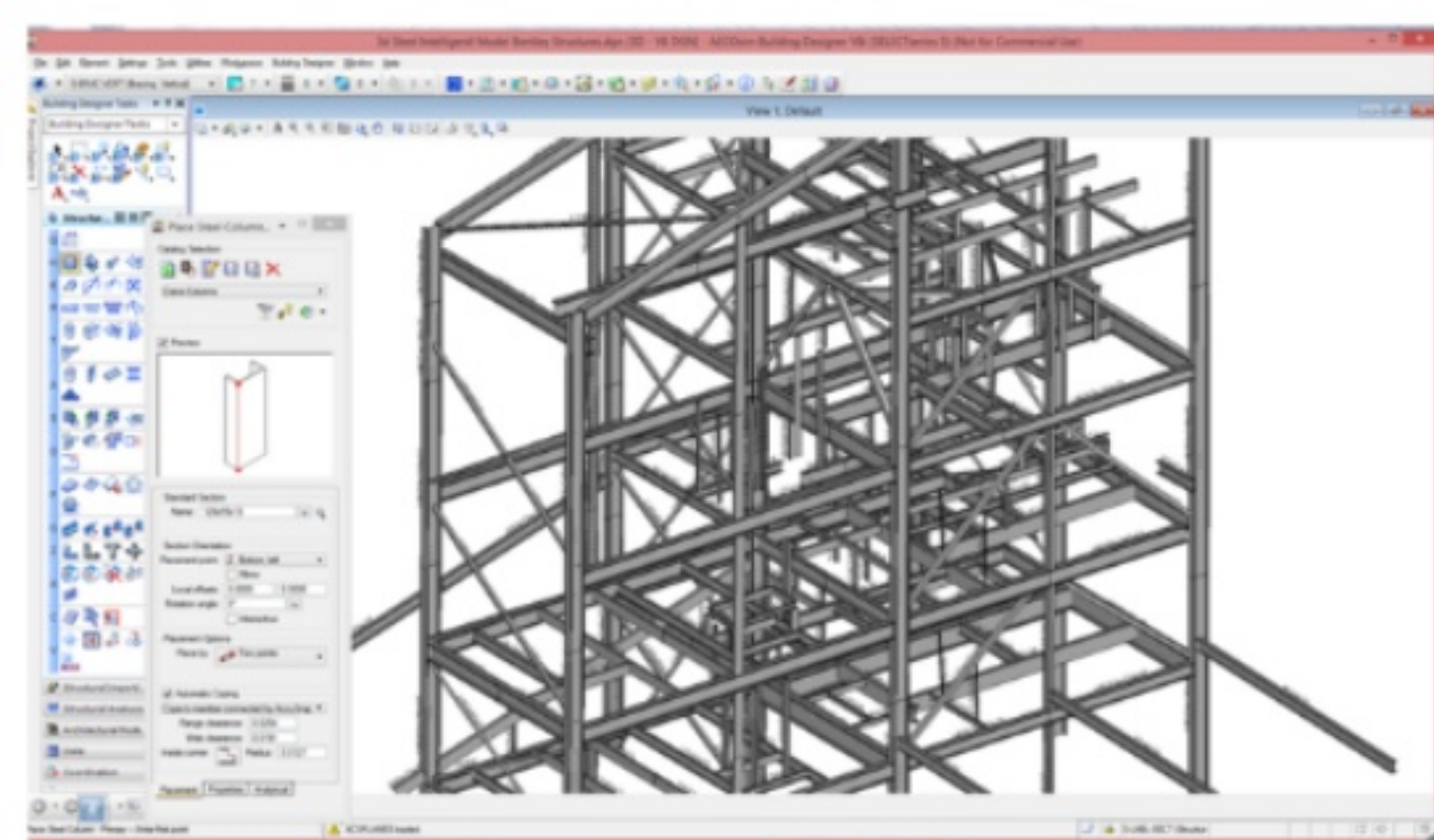


Prasa Workshops Terrestrial Lidar
Survey, Reverse Engineering,
Digital Twin Project
Prasa 2013



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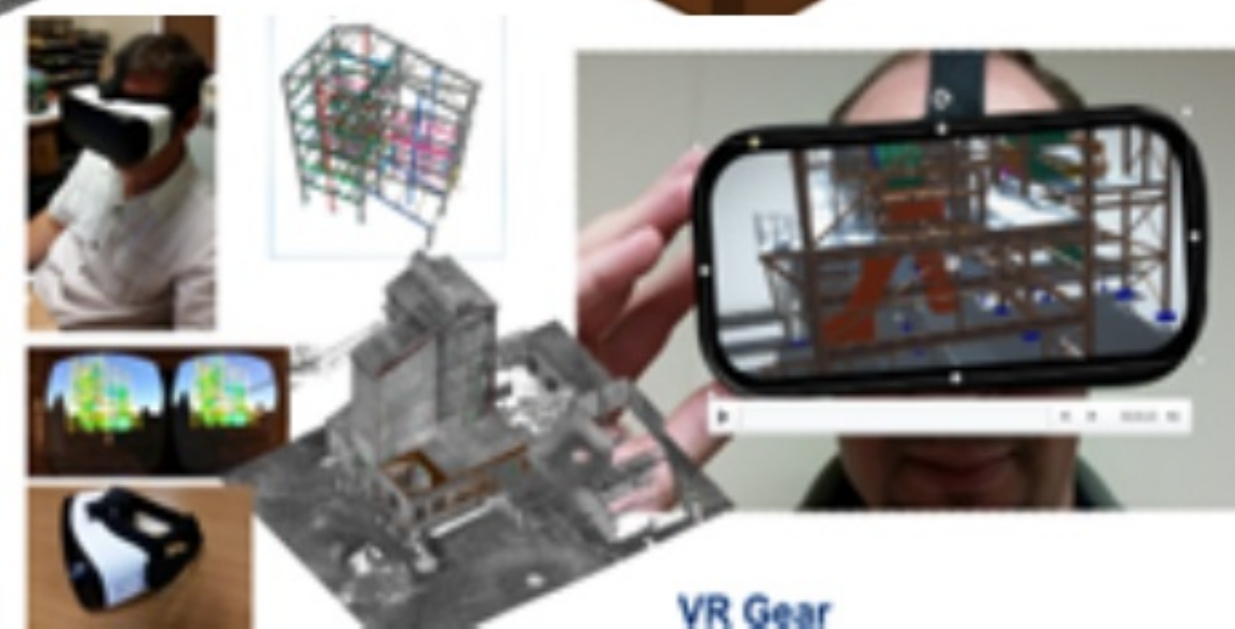
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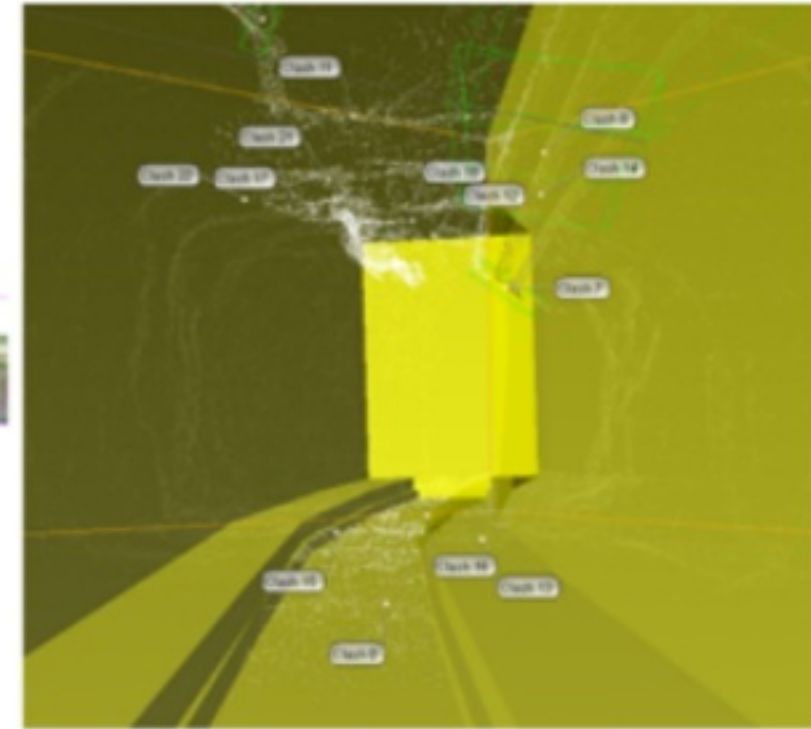
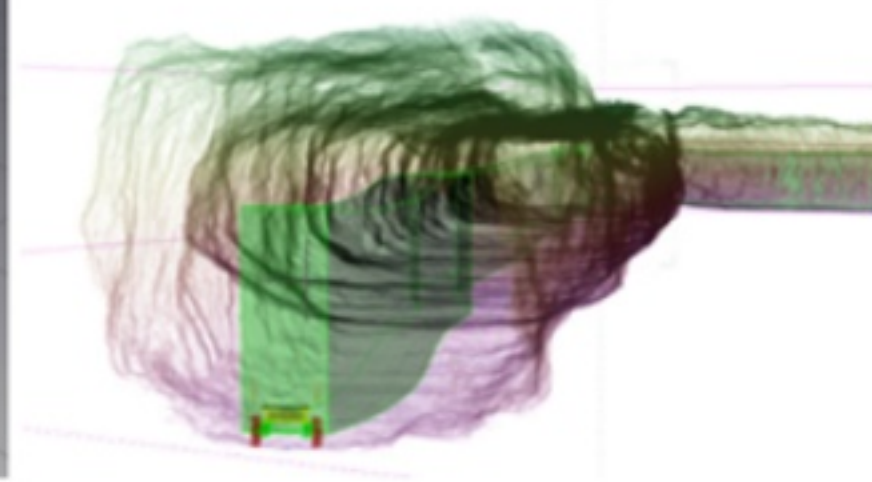
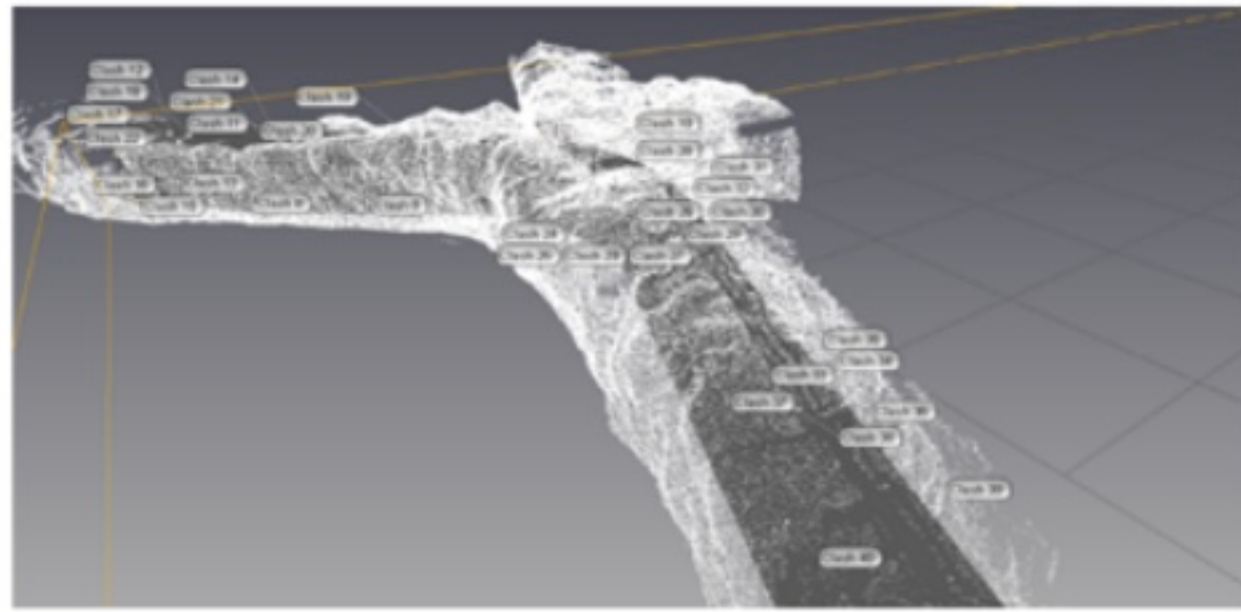
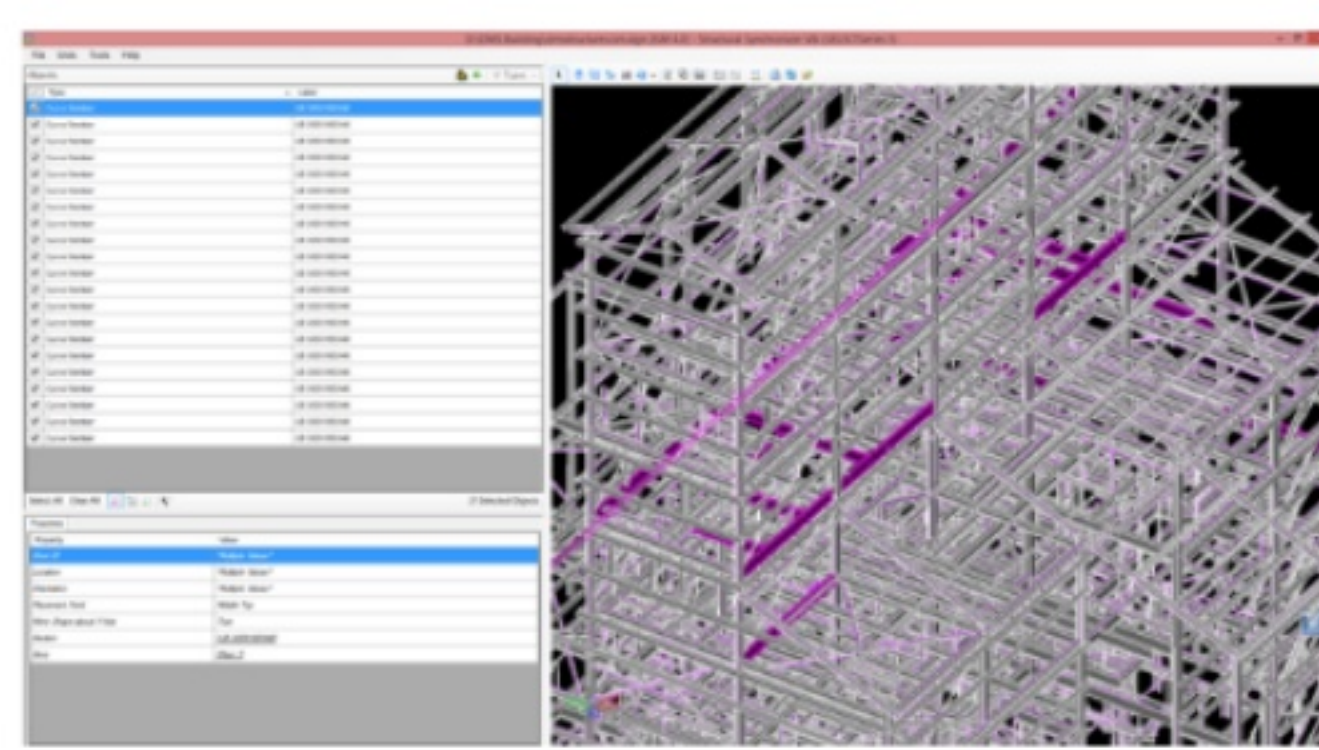
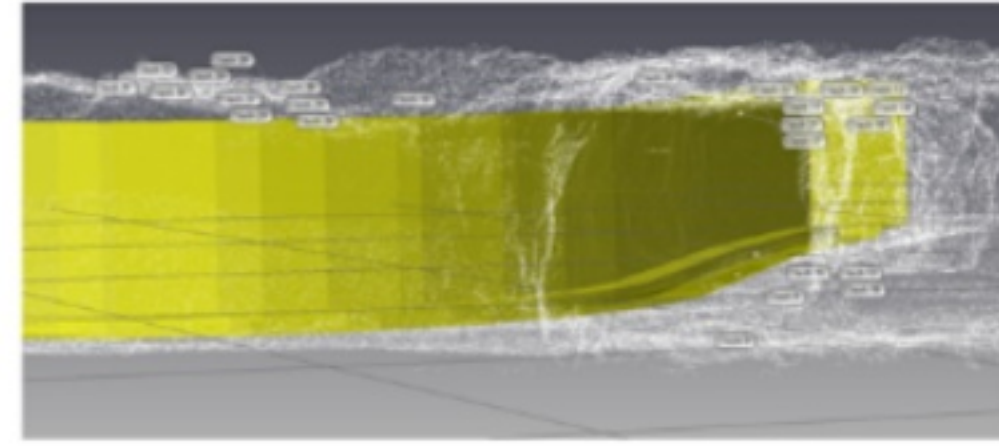
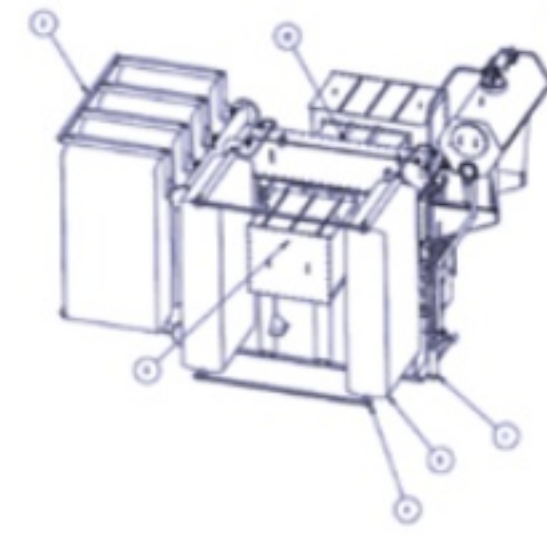
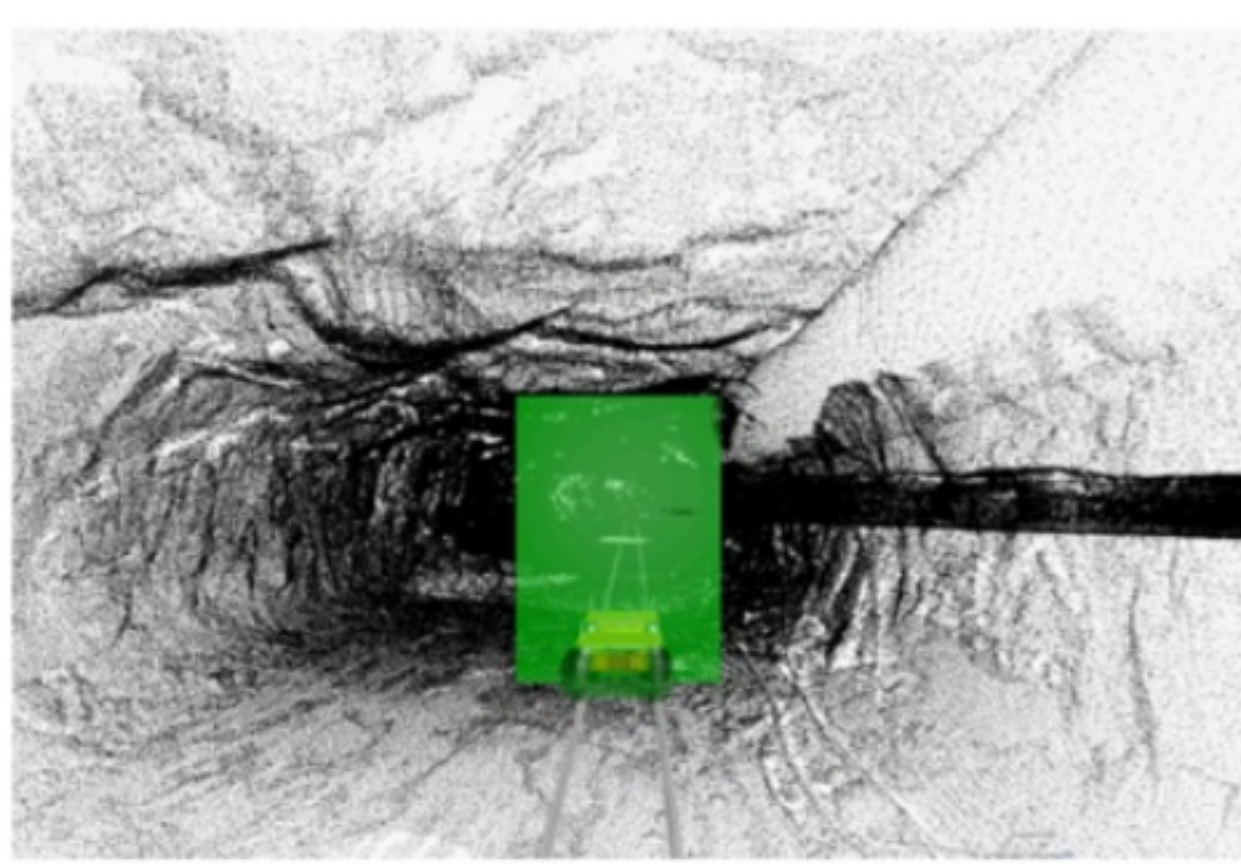


Zibula Conveyor Underground Scanning, Reverse Engineering & Clash Detection
Semane 2014

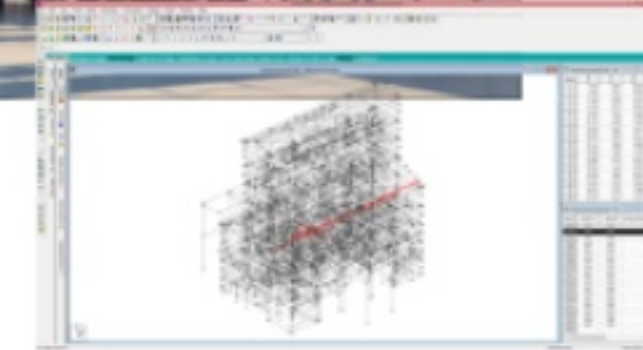


Sishen Sampling House Structural Audit, Terrestrial Scanning, Reverse Engineering & Analysis Modelling
KIO 2015

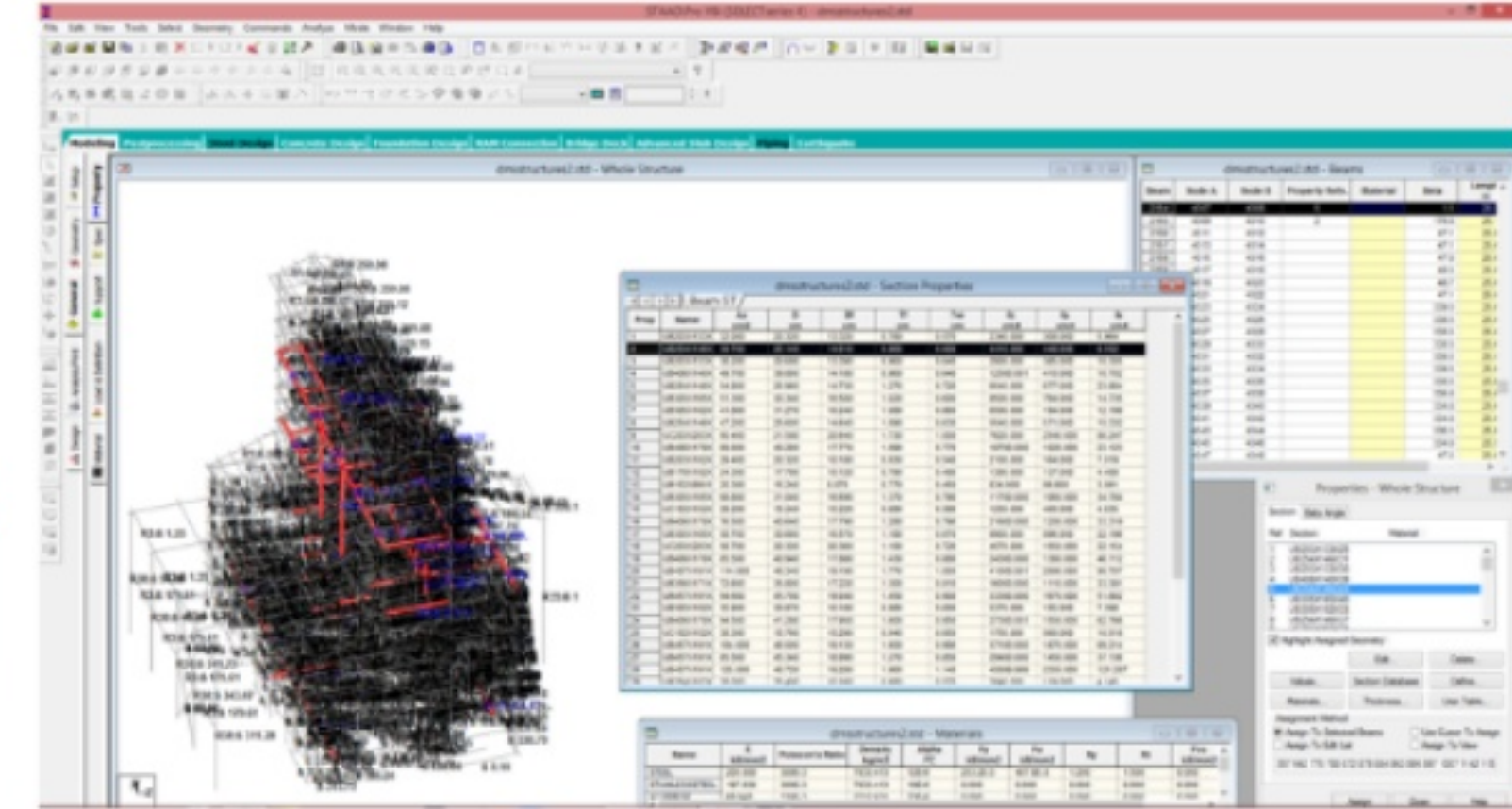


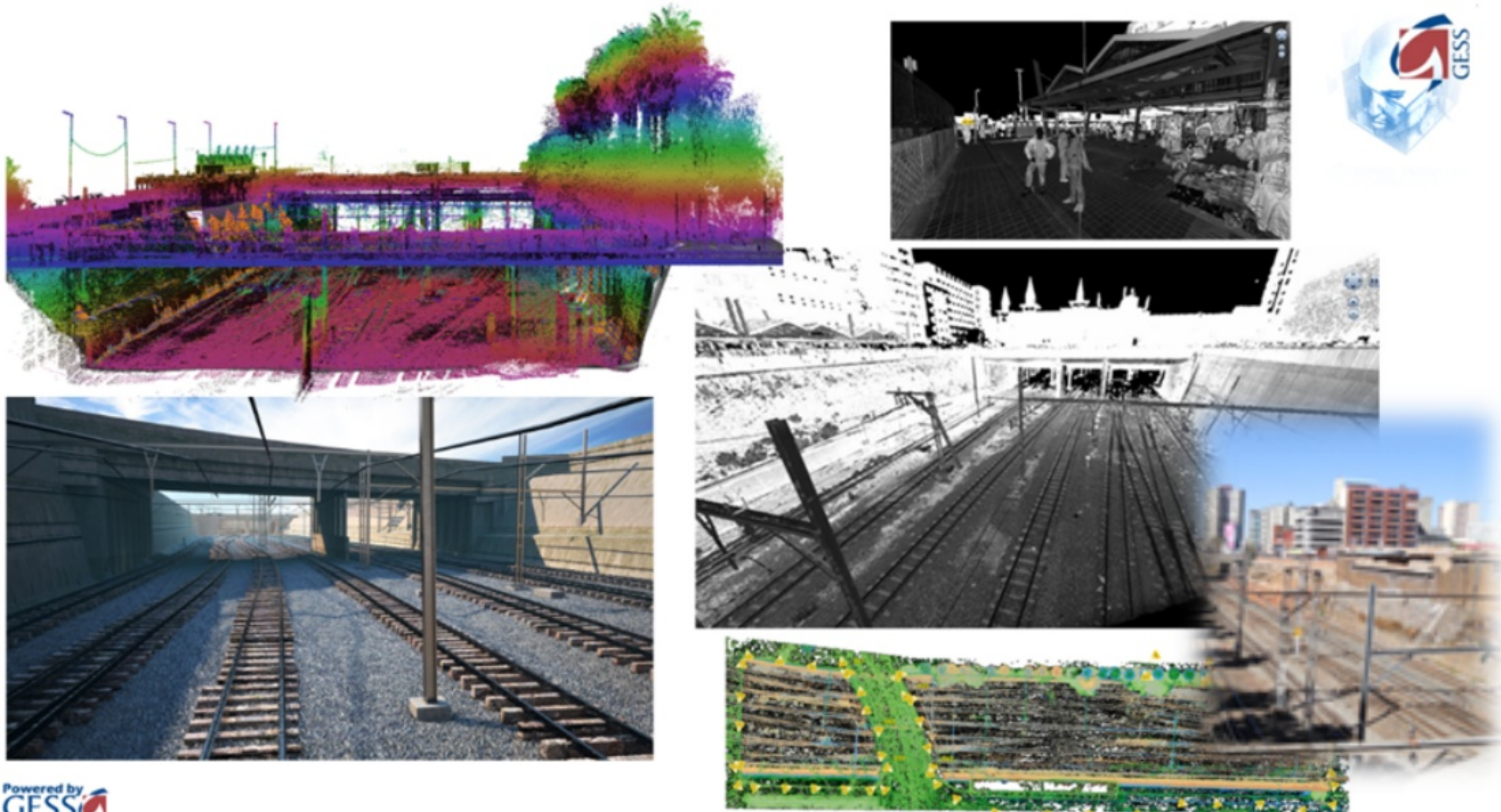


Level 116 Underground Scanning, Electrical transformer installation clash detection
Anglo Gold 2013



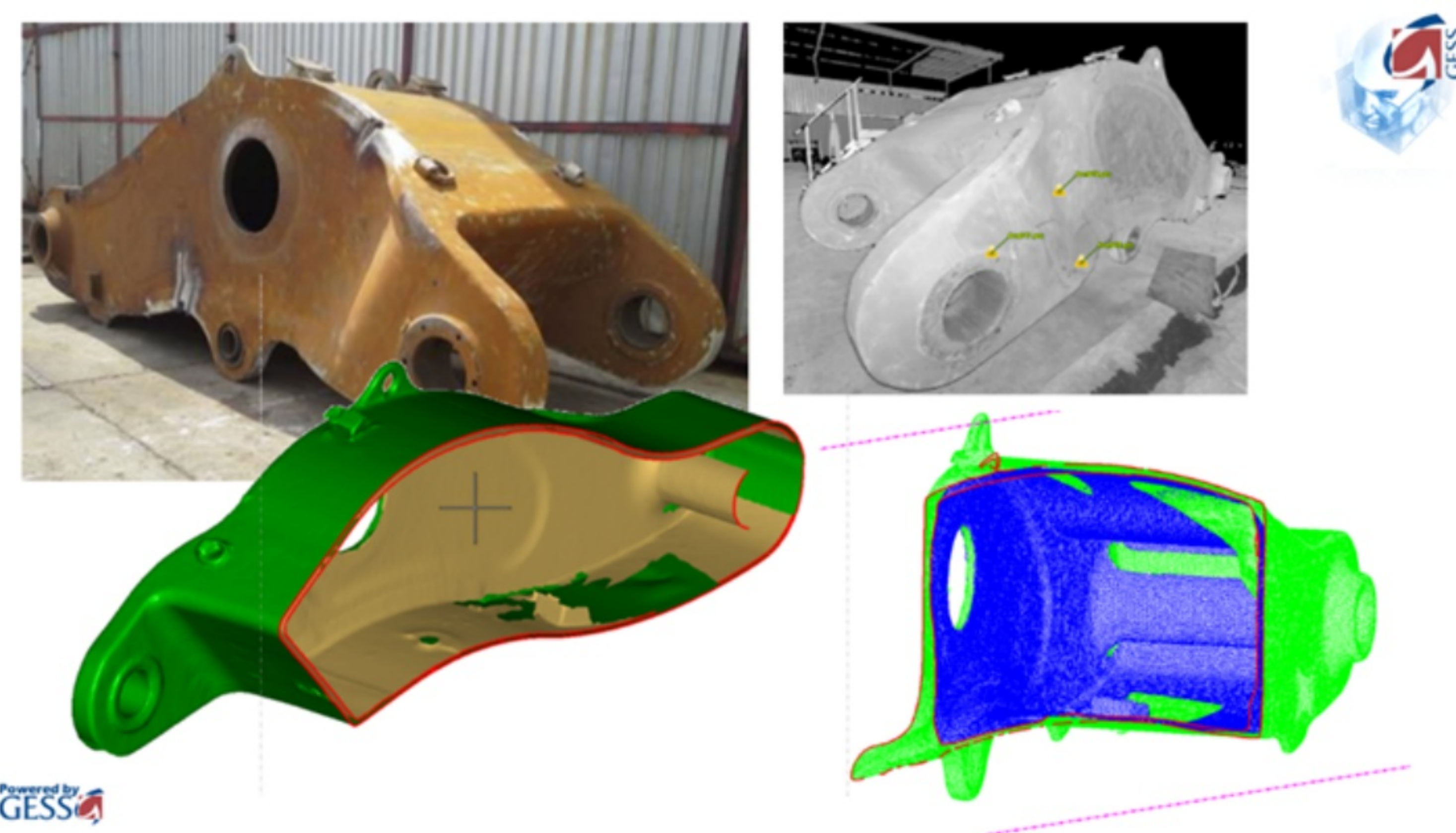
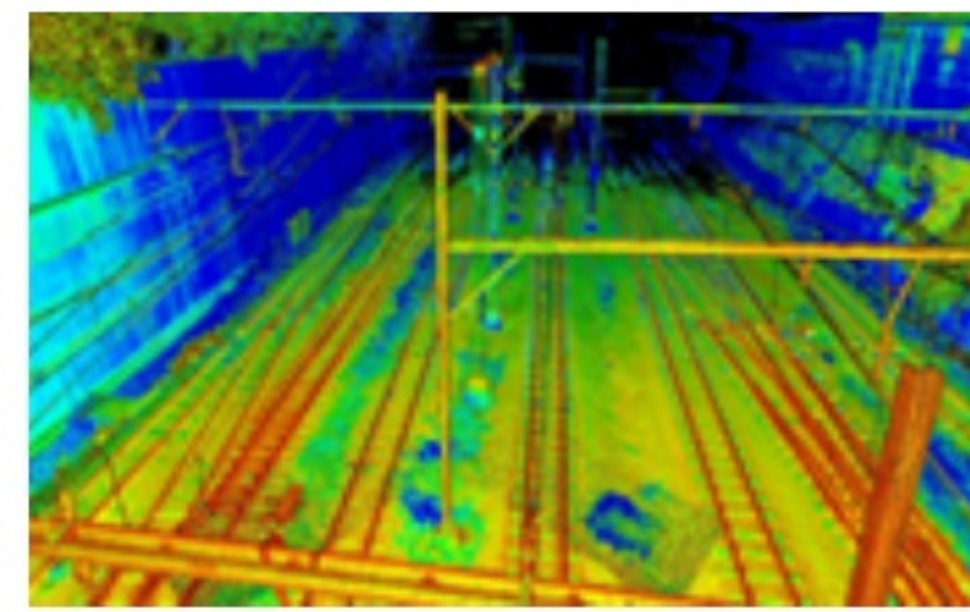
OLDM Structures - 3D Terrestrial Scanning, Reverse Engineering & Analysis Models
Debswana 2018





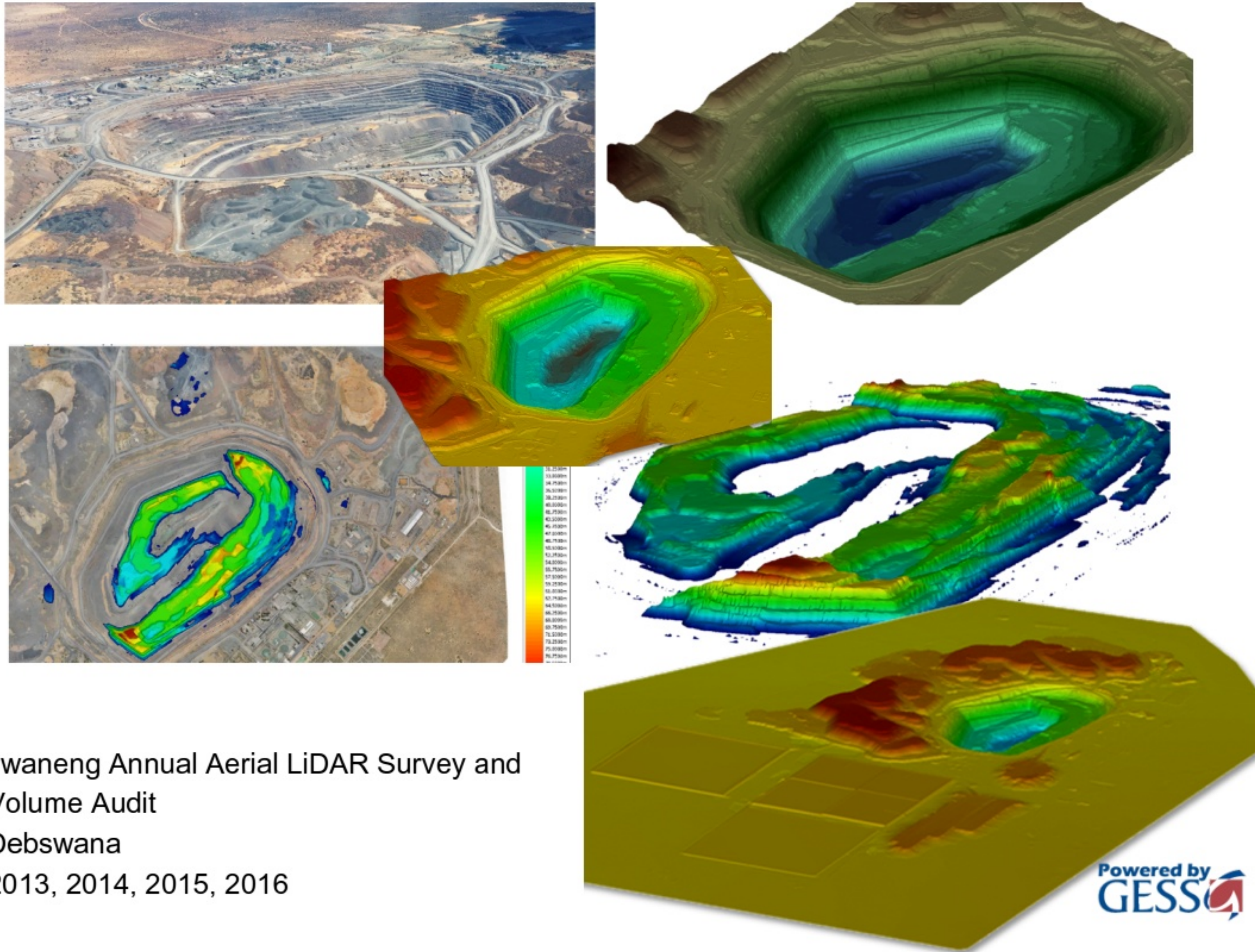
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JDA Art Gallery Precinct Art - Transnet Rail
 Scanning and 3D Modelling project
 Ingerop, Johannesburg Development Agency
 2014

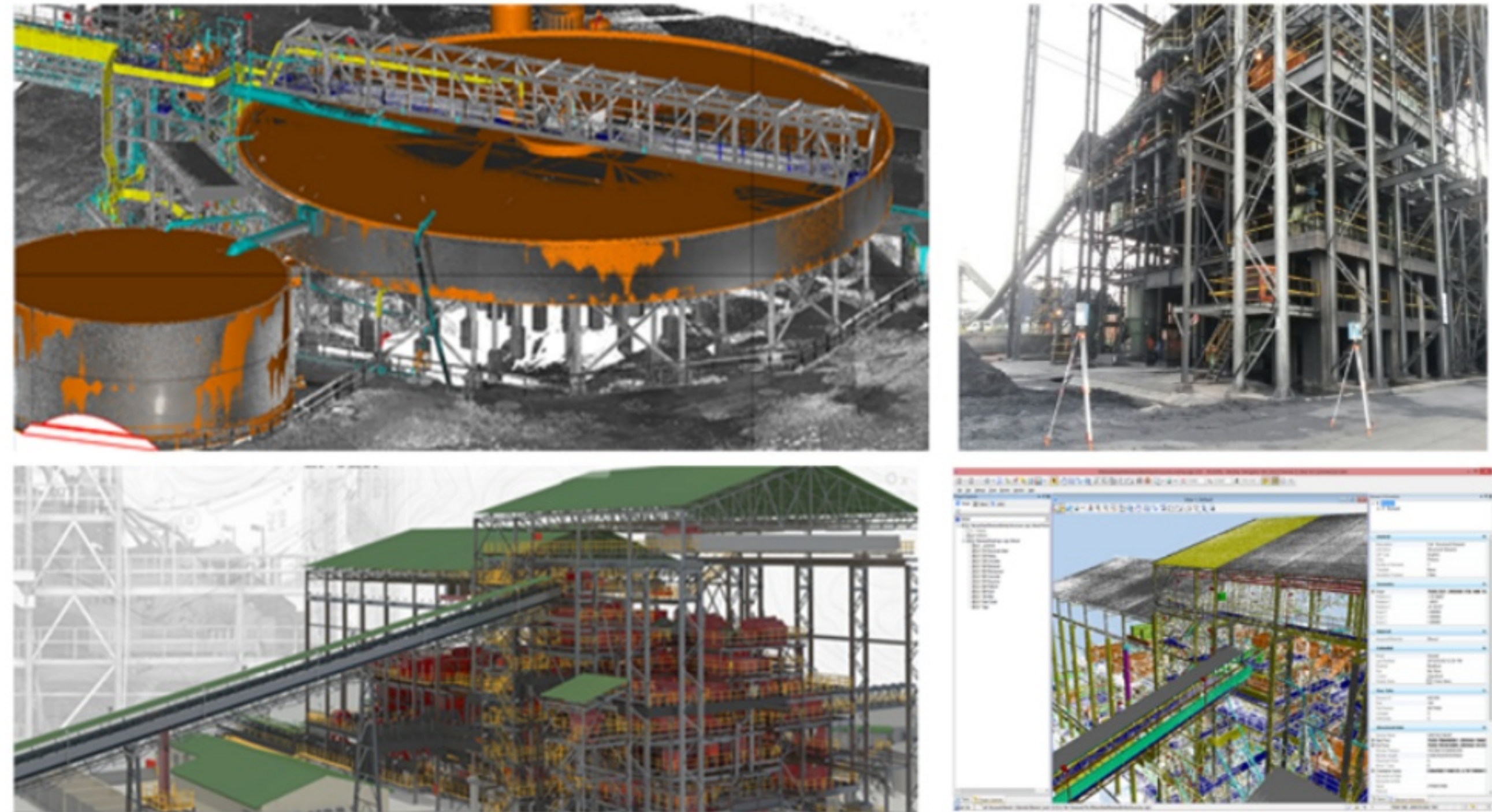


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Link Arm : Terrestrial Scanning & 3D Surface
 Modelling for FEM Analysis
 Anglo Platinum
 2013



Jwaneng Annual Aerial LiDAR Survey and Volume Audit
 Debswana
 2013, 2014, 2015, 2016

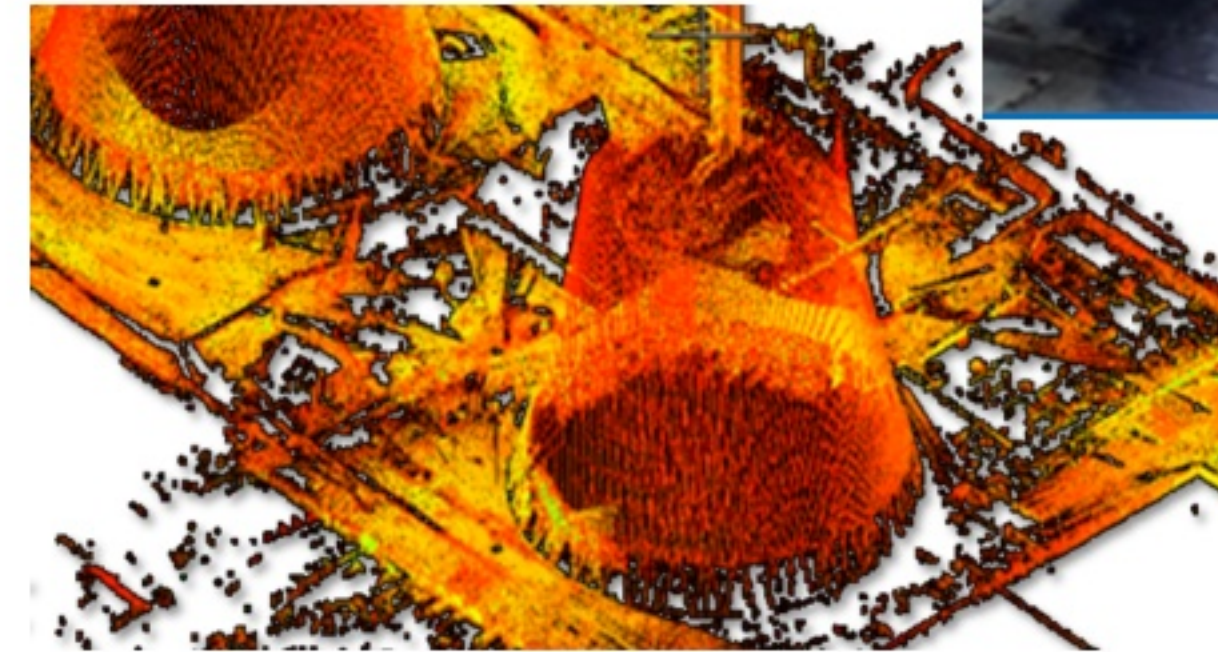
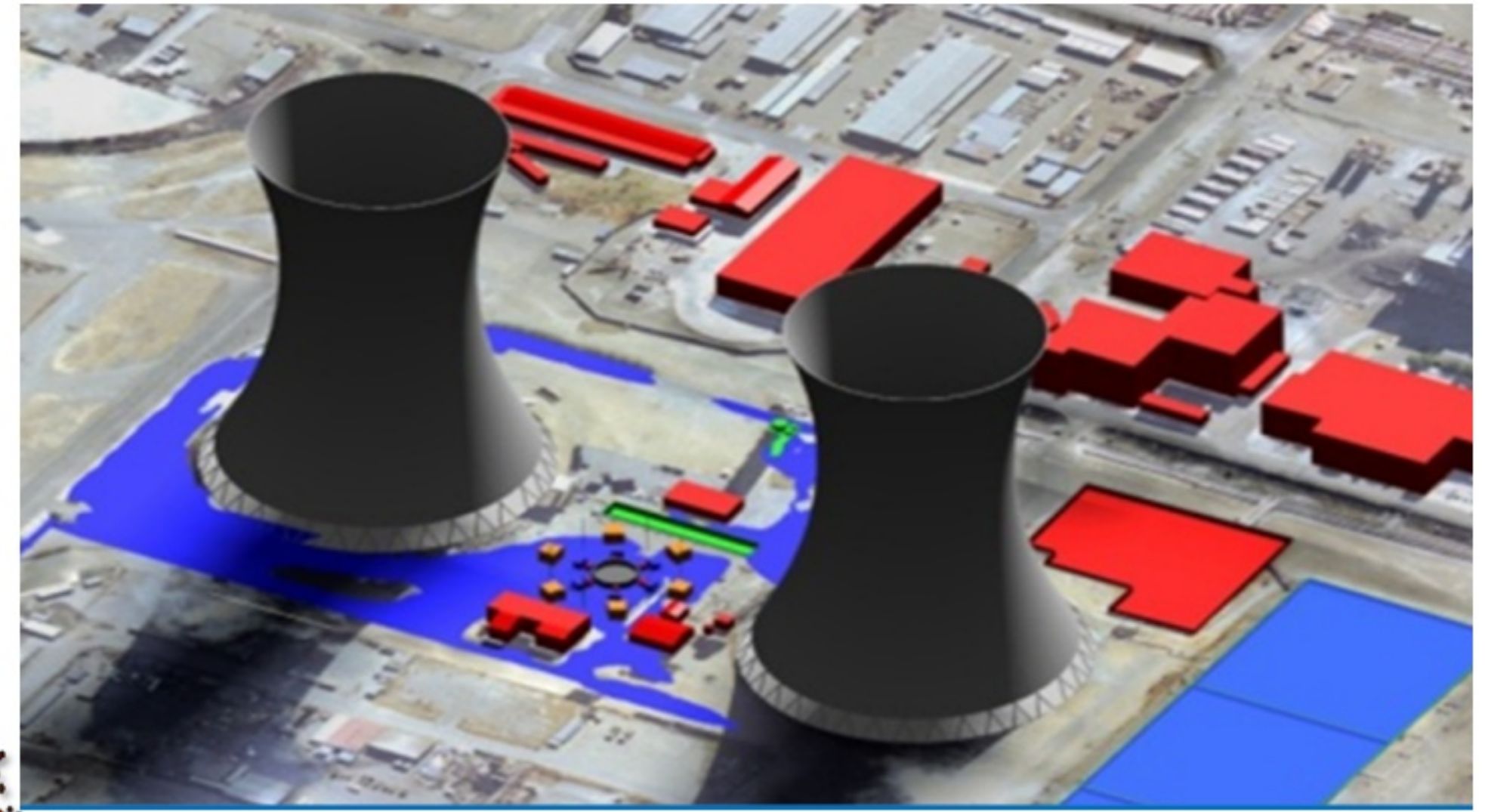
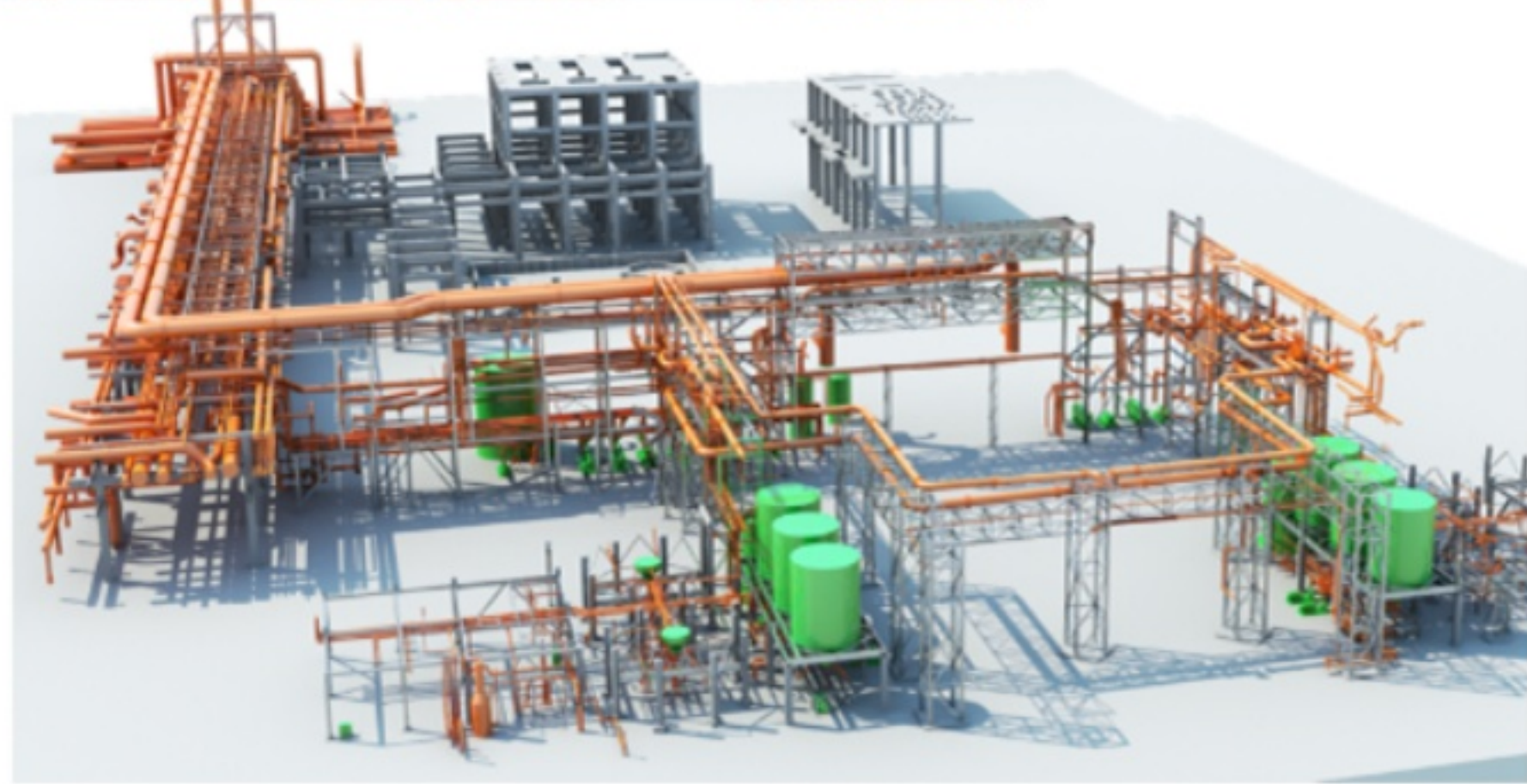
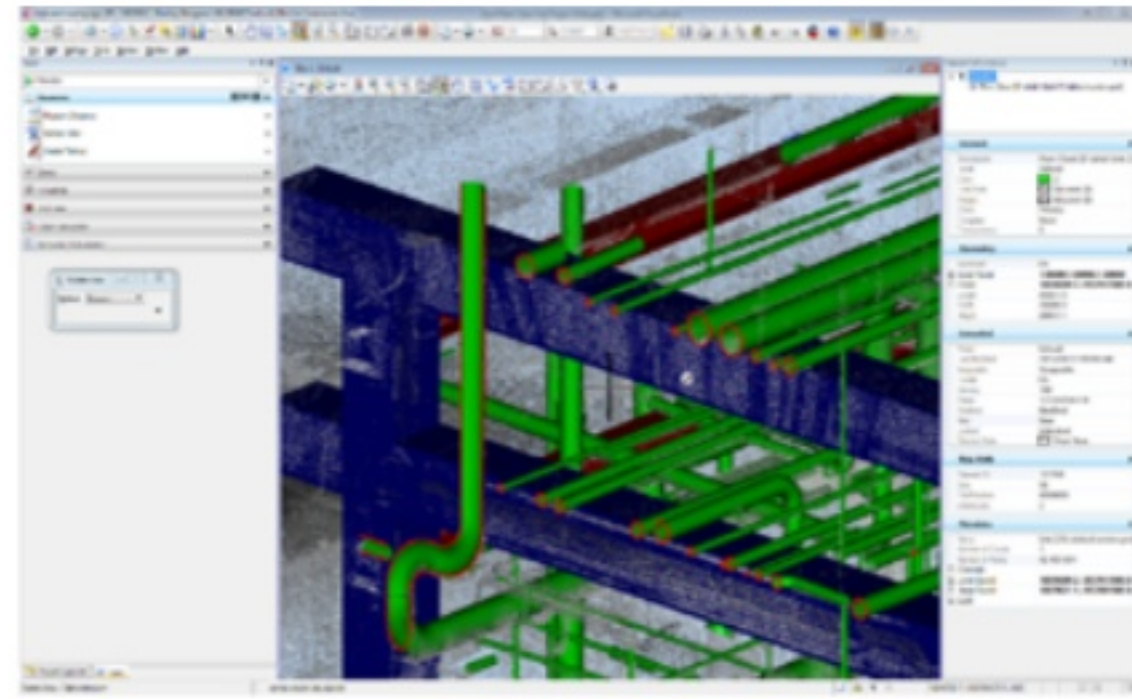


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Mafube DMS Terrestrial Laser Scanning, 3D Modelling
 ACS, Anglo American & Exxaro
 2015

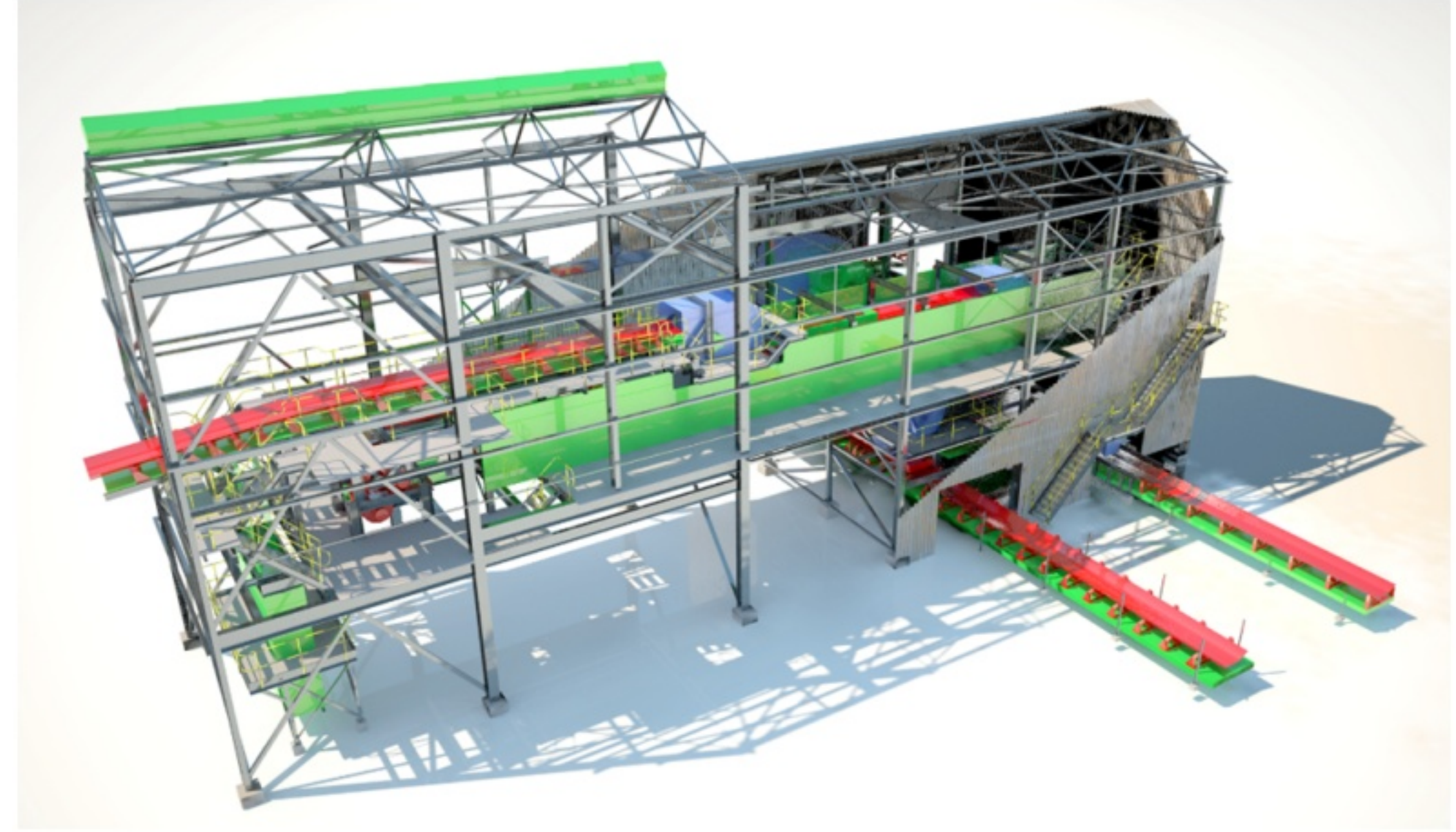
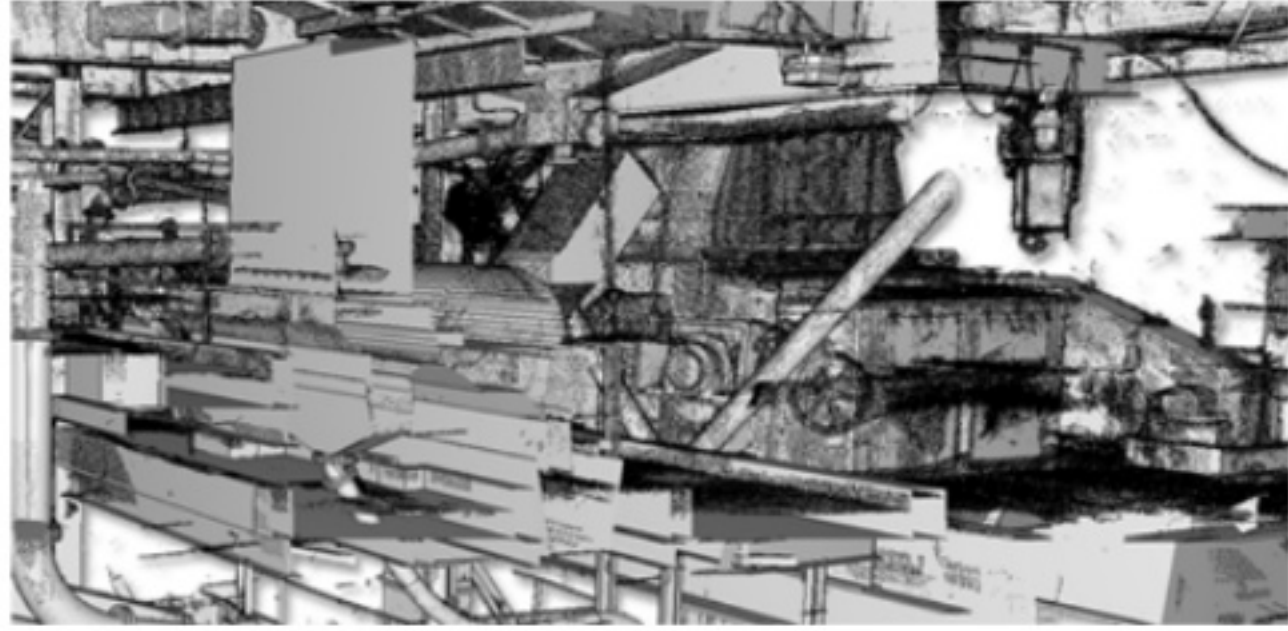
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SASOL PDMS Structure Terrestrial Scanning
& 3D Modelling As Built Audit
ACS UHDE SASOL
2014

Sasol Flood Analysis : Terrestrial Scanning, DTM
Modelling, Flood Analysis
SASOL
2014



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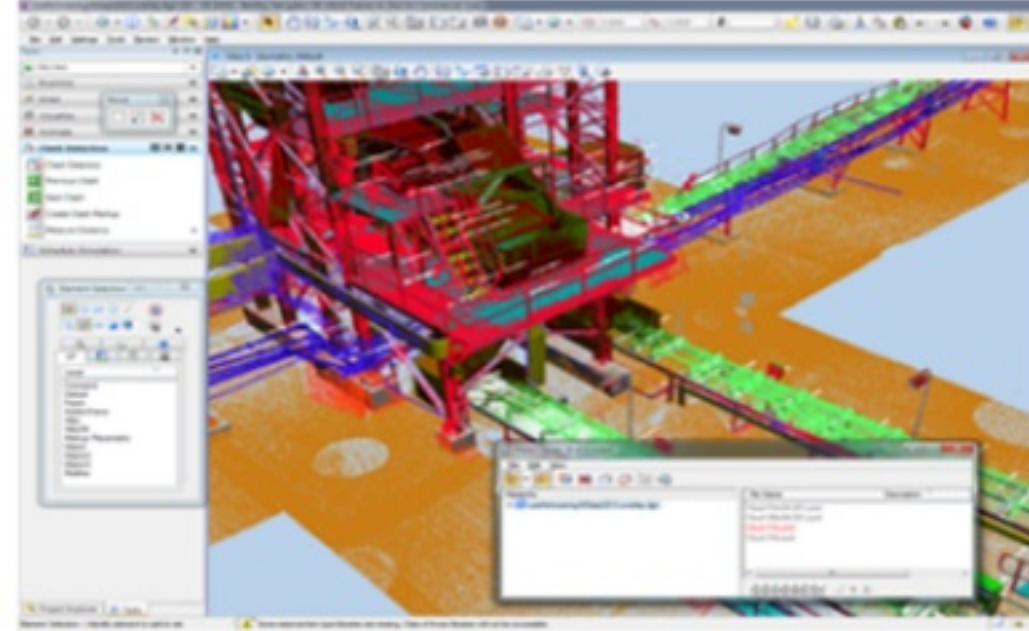
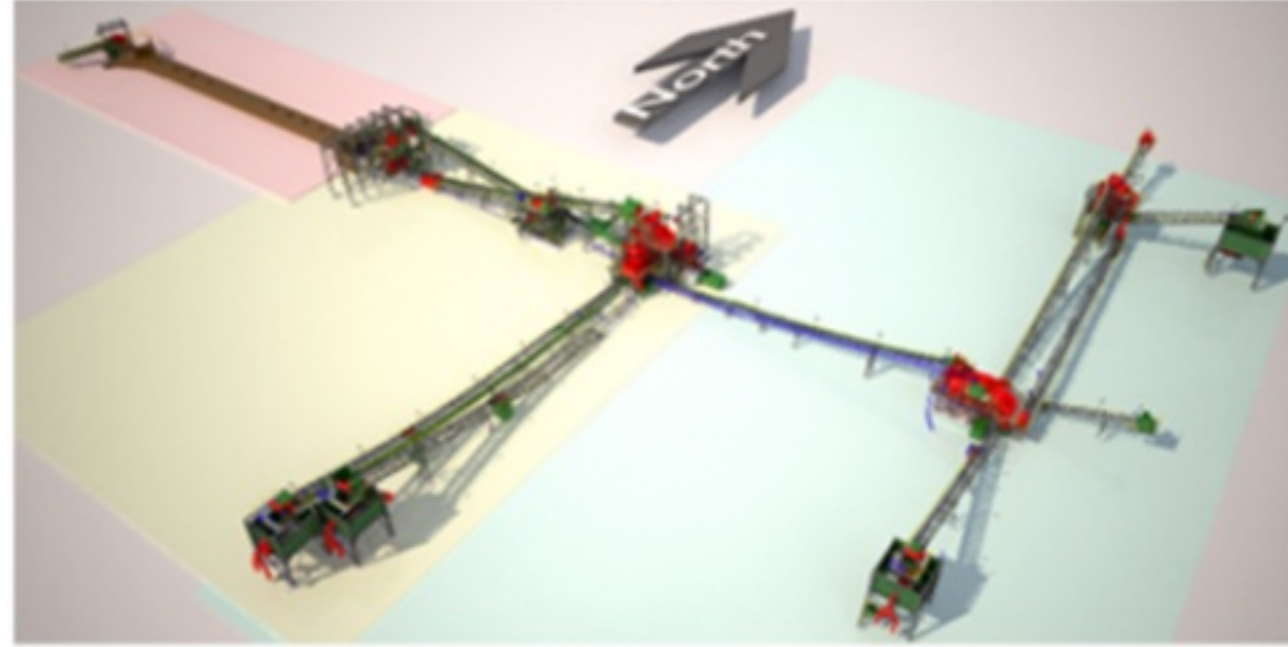
Goedehoop DMS Plant
3D Terrestrial Scanning & 3D Modelling,
Intelligent Structures
Anglo Coal
2014

www.gess.co.za



Goedehoop Transfer House
3D Terrestrial Scanning & 3D Modelling,
Intelligent Structures
Anglo Coal
2014

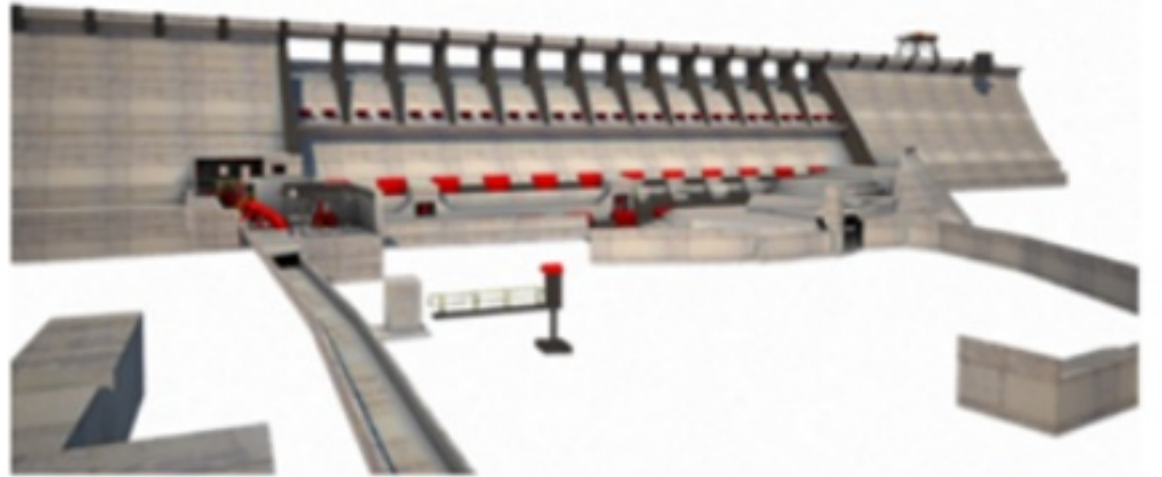
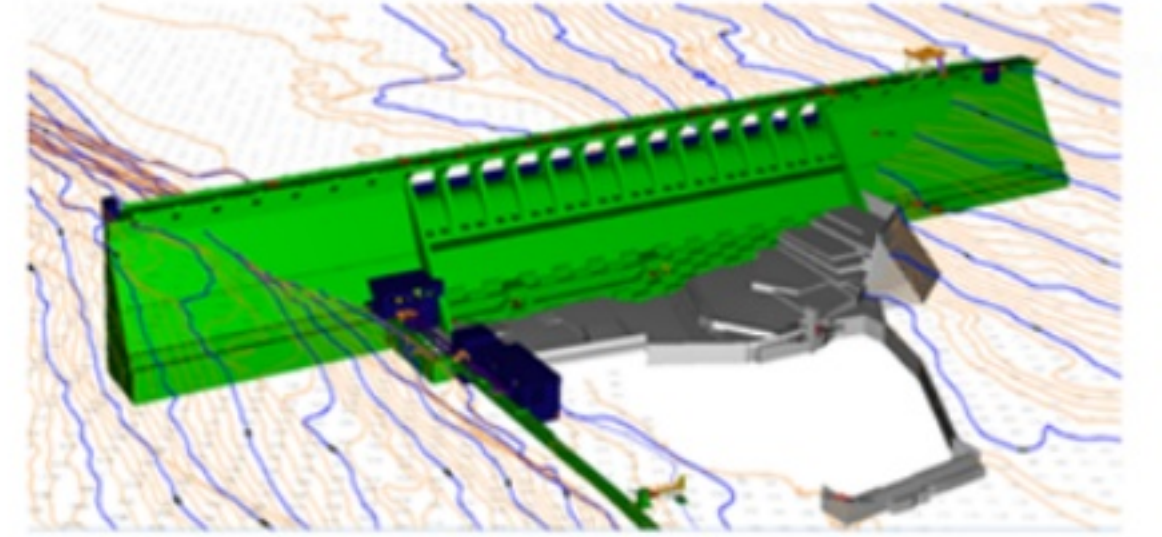
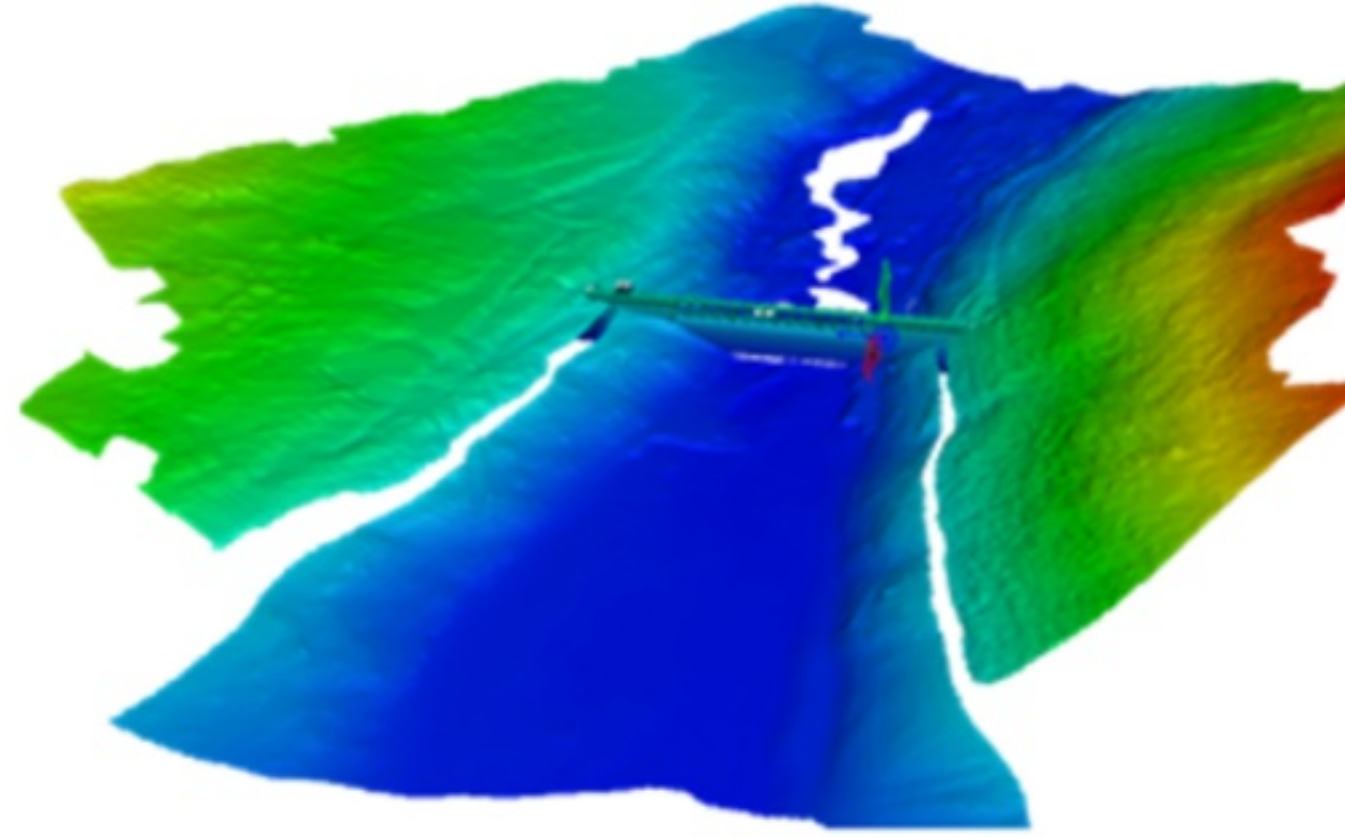




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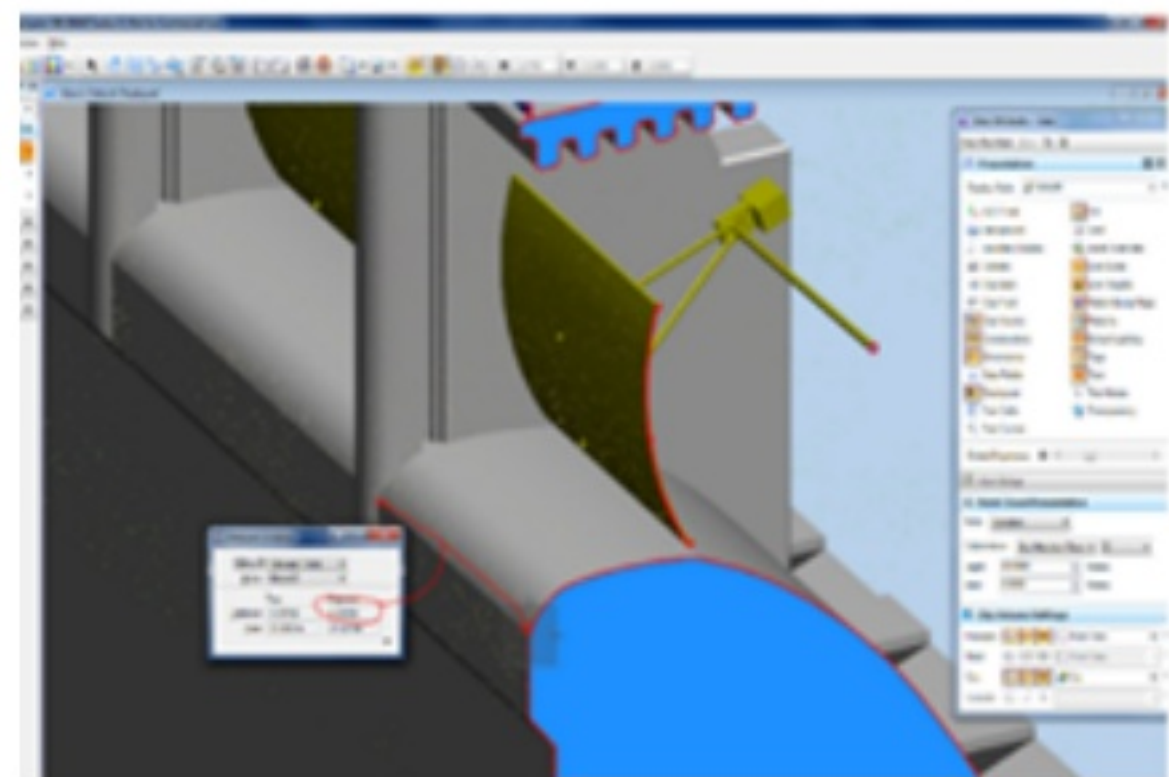
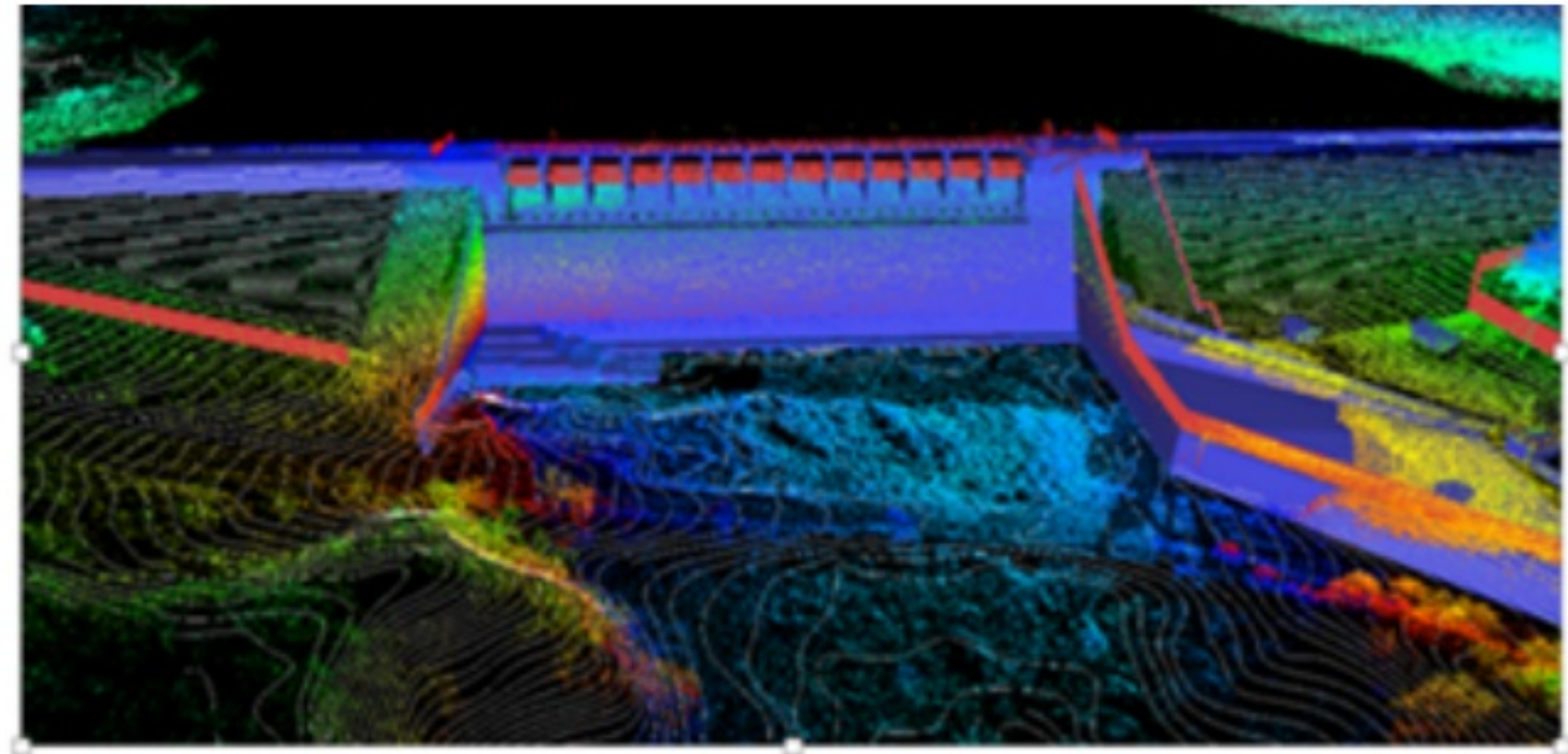
PDMS Structure Terrestrial Scanning
& 3D Modelling As Built Audit
ACS UHDE SASOL
2014



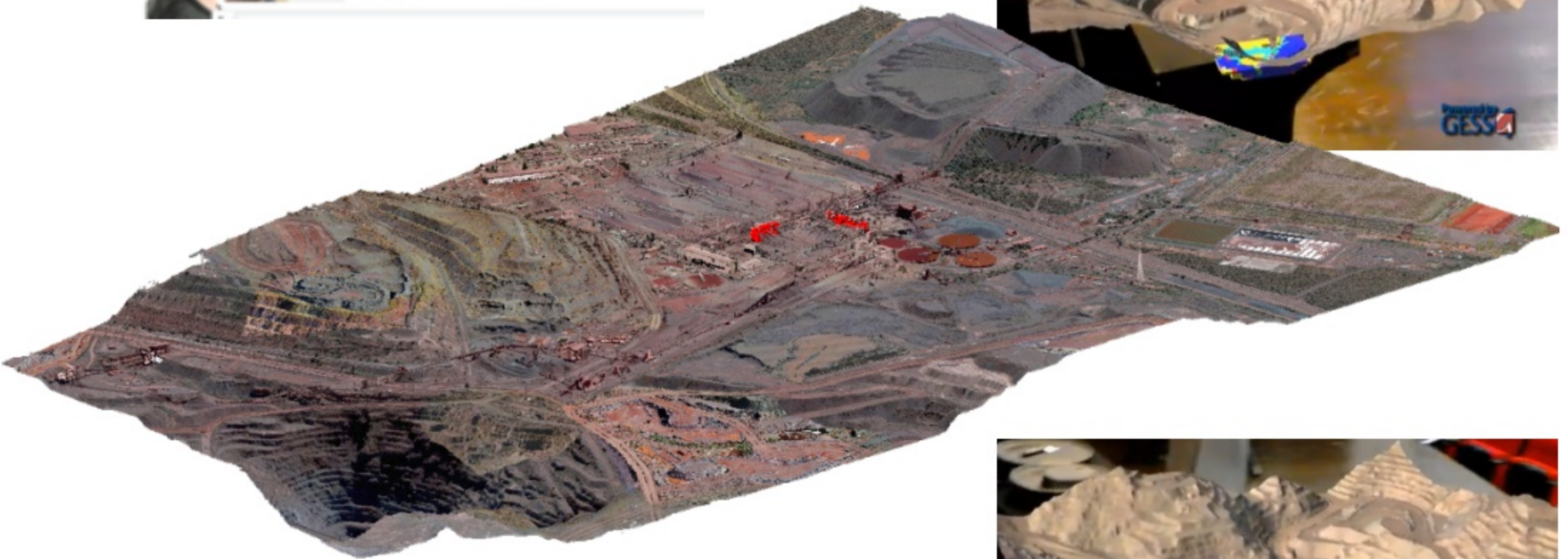
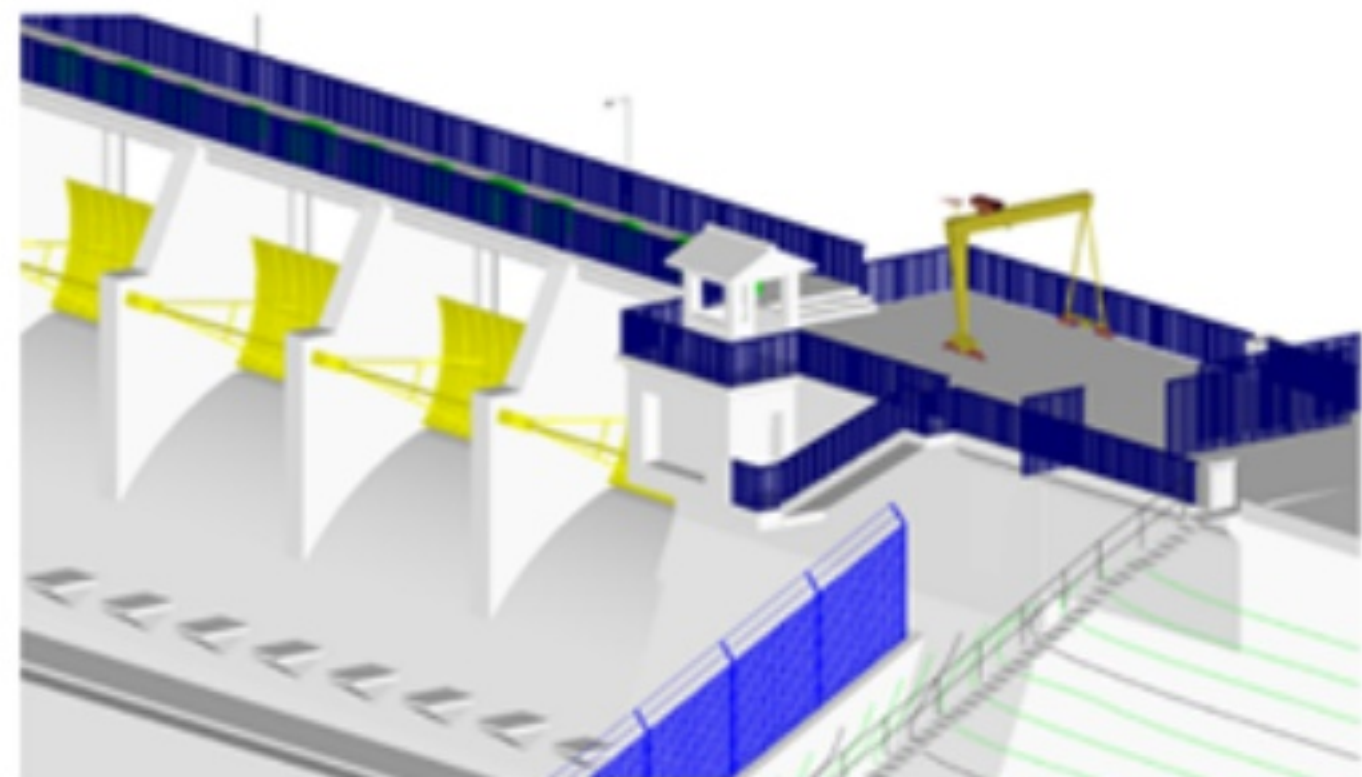
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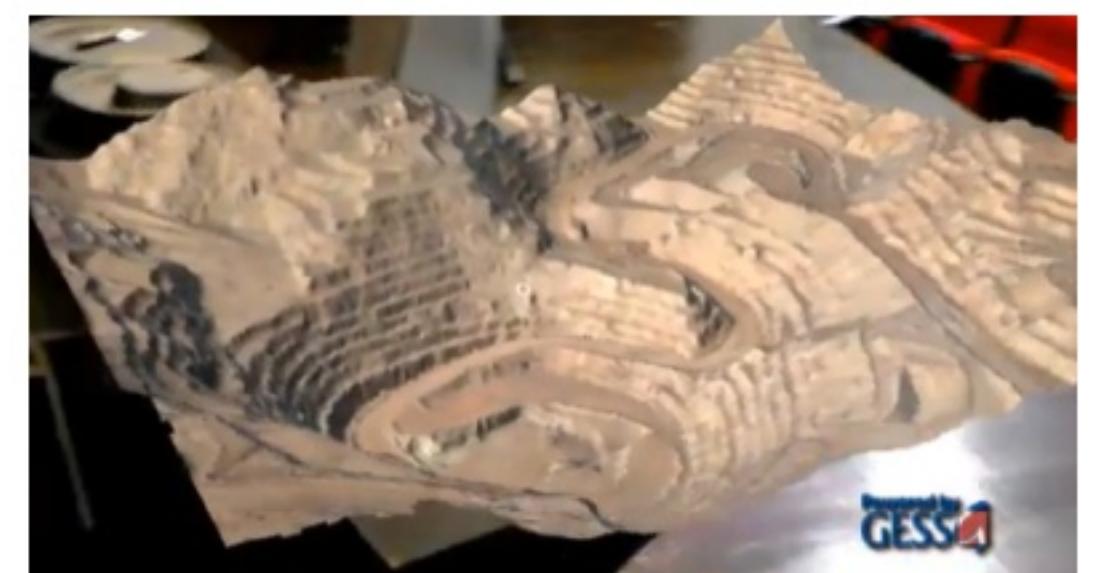
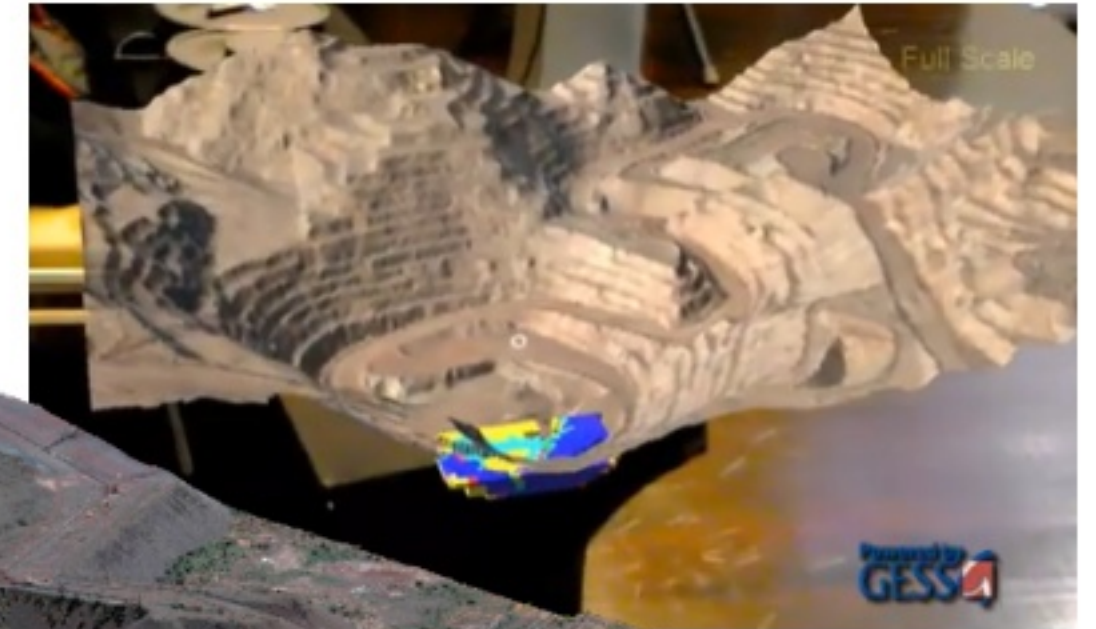
Glanwilliams : Terrestrial Scanning, Sonar
Scanning, DTM Modelling, 3D CAD Modelling
DWAf
2014

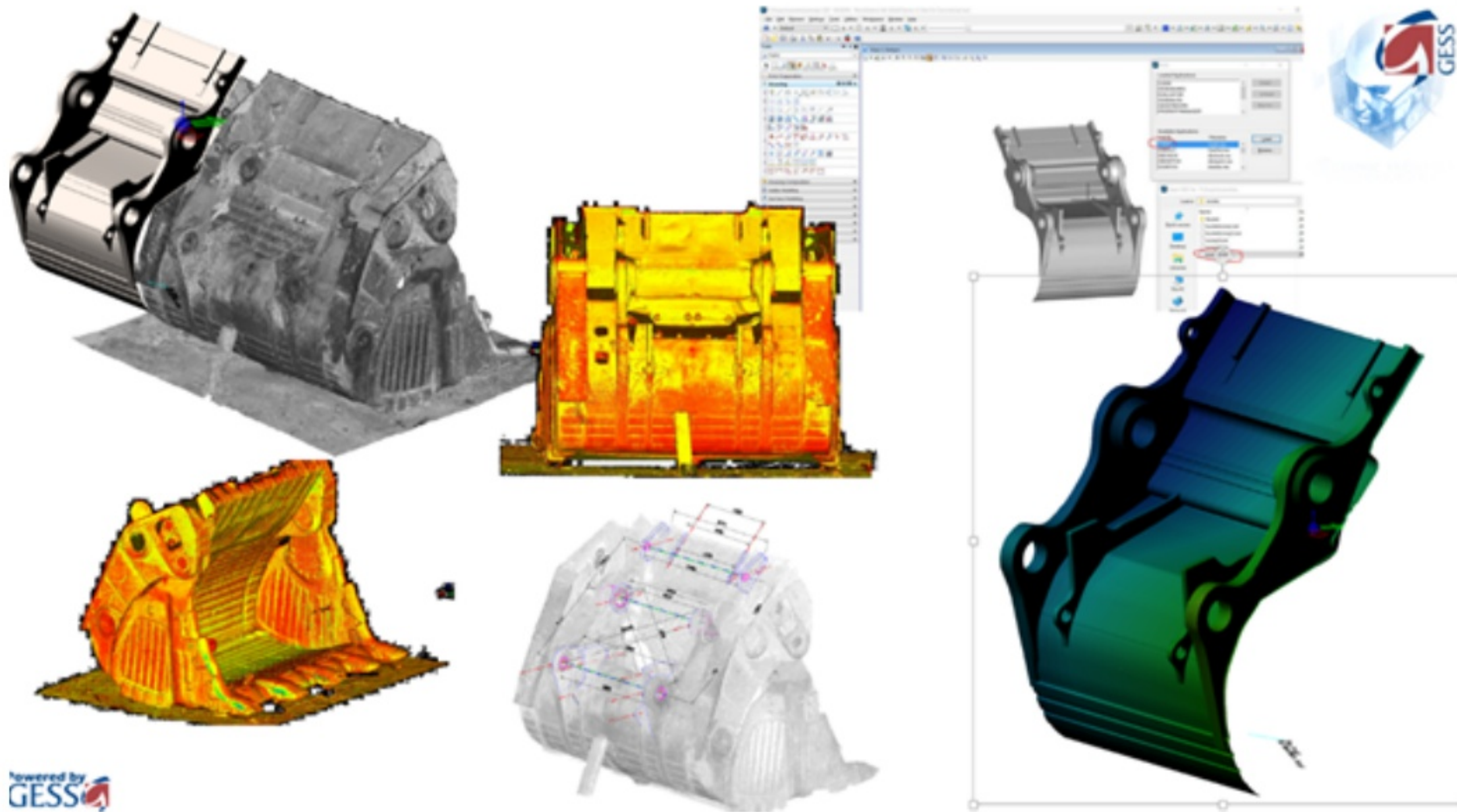


Albasini Dam Terrestrial Scanning & 3D Modelling
DWAf 2011



Sishen KIO Open Pit Augmented Reality Hologram

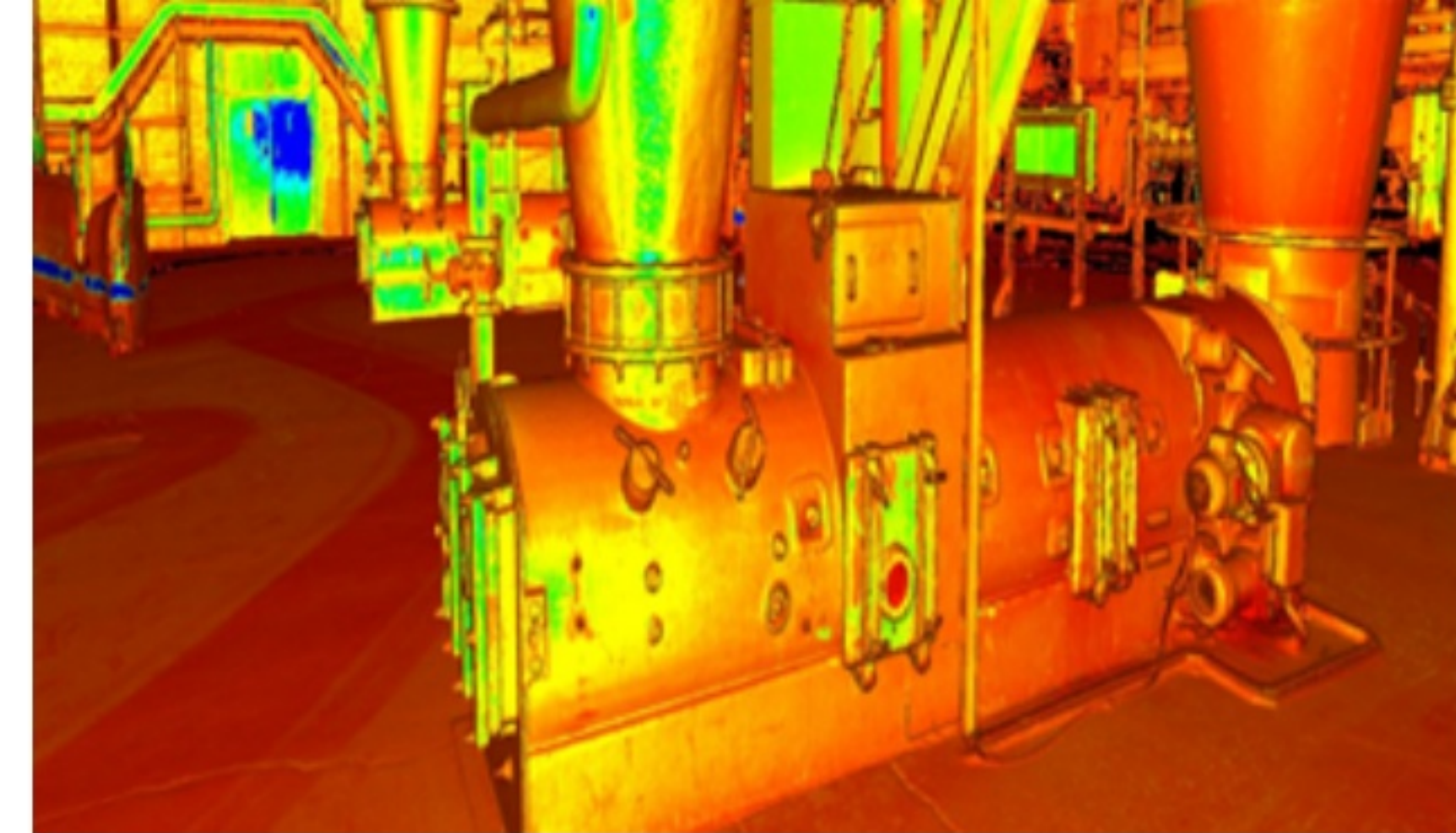
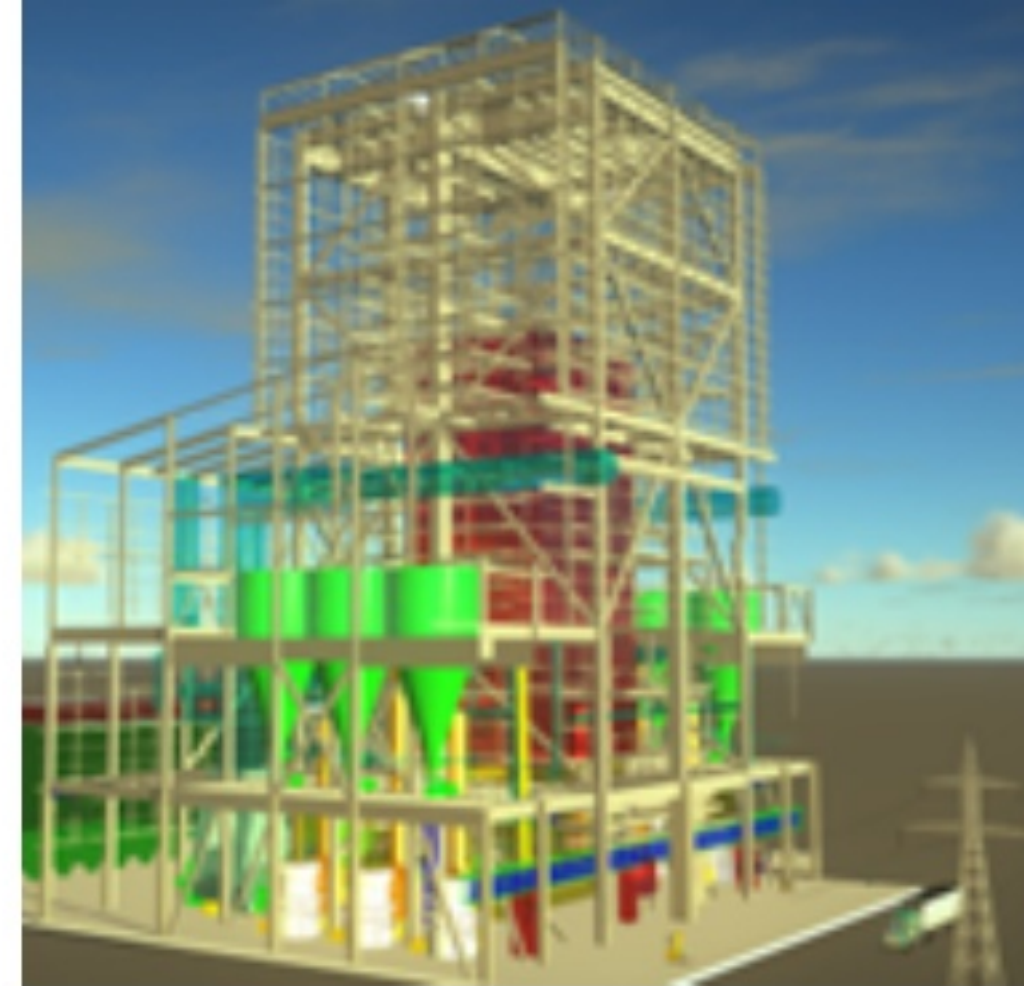




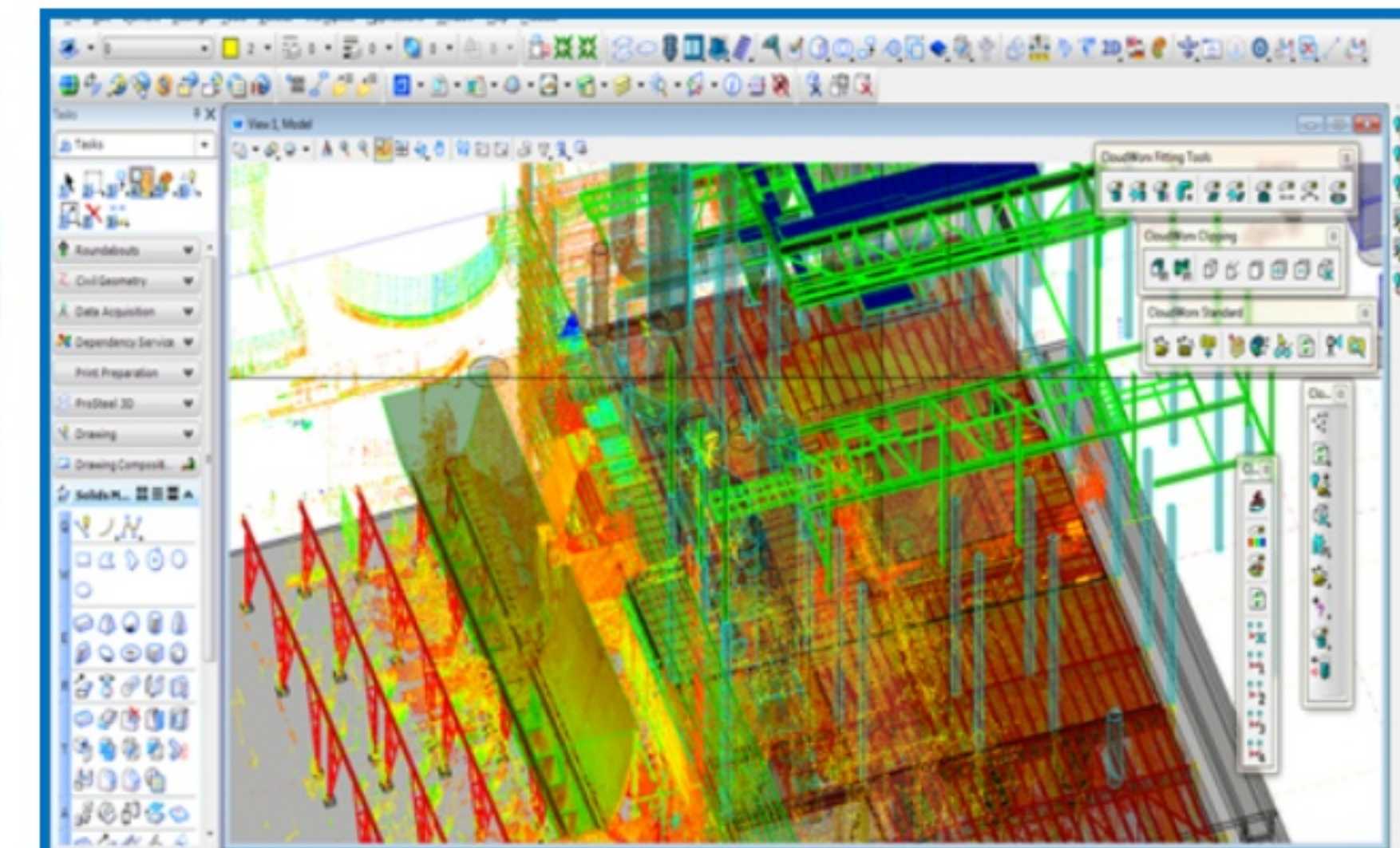
Bucket Failure Analysis : Terrestrial Laser Scanning, 3D Mesh Modelling
Debeers
2014

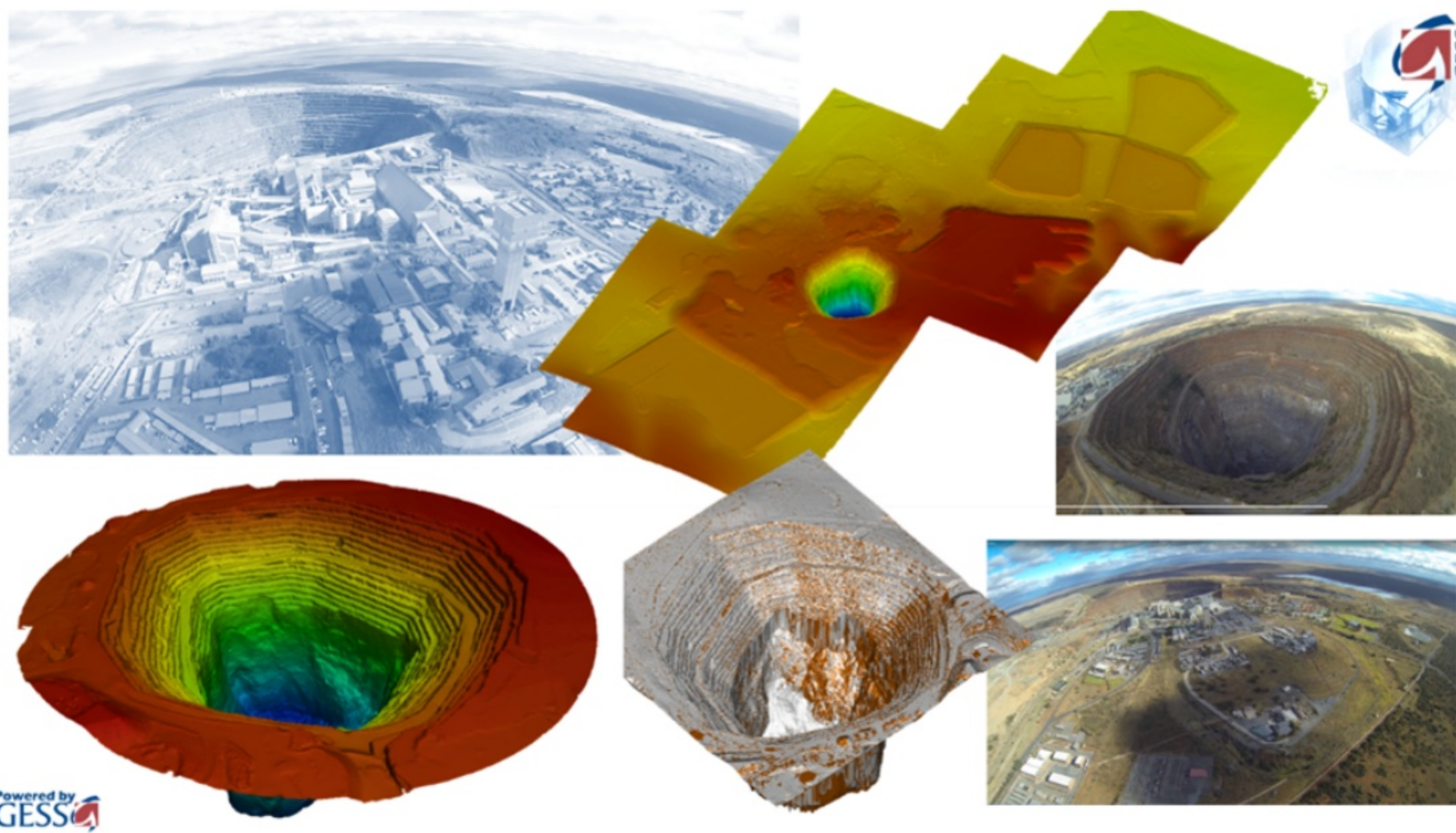


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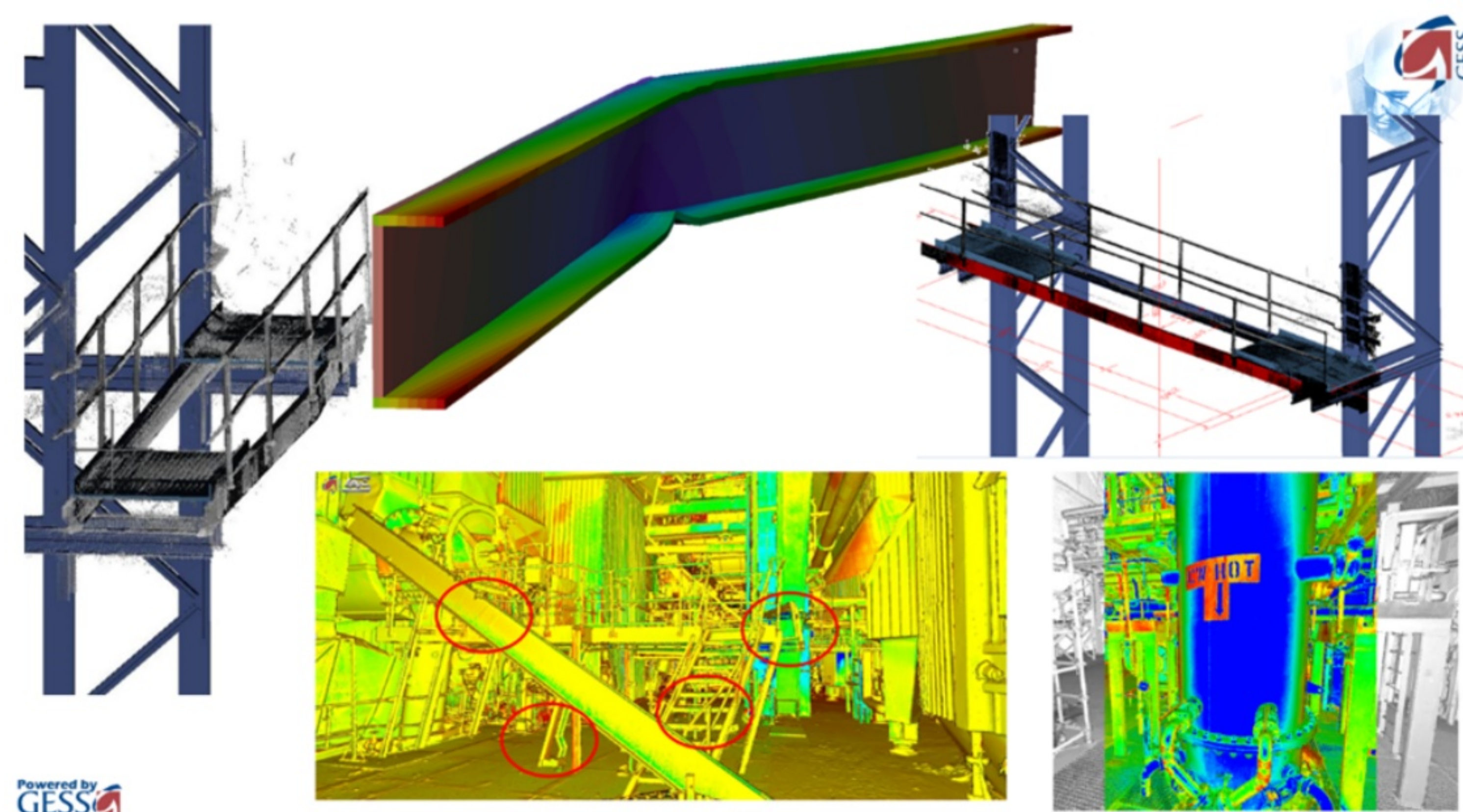
Duvha Structural Analysis :
Terrestrial Scanning, 3D Intelligent
Structural Modelling , 3D animation
DRA ESKOM
2016





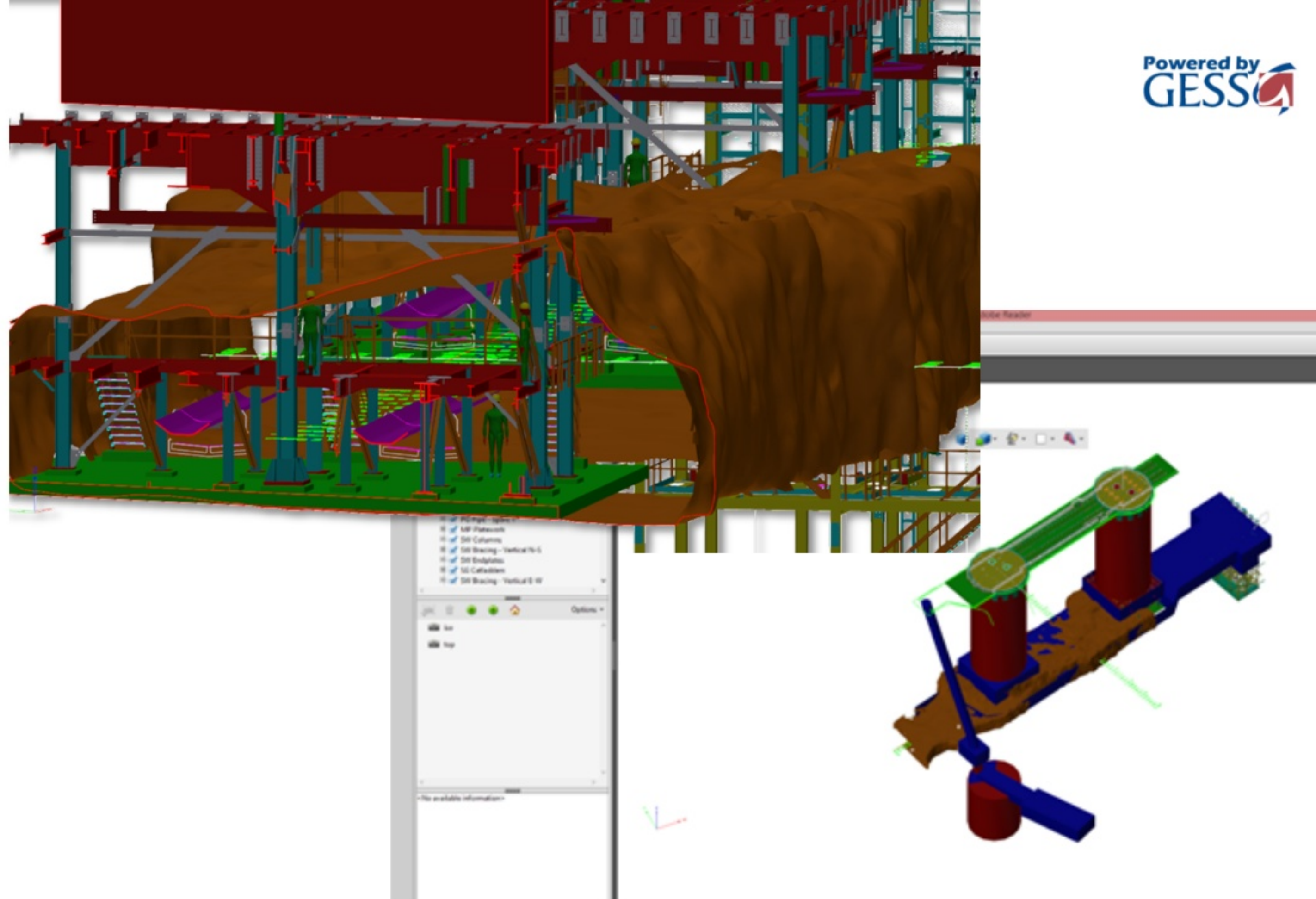
Finsch Mine LiDAR Scanning 3D Modelling, Volume Extractions
 Petra Diamonds
 2014

www.gess.co.za

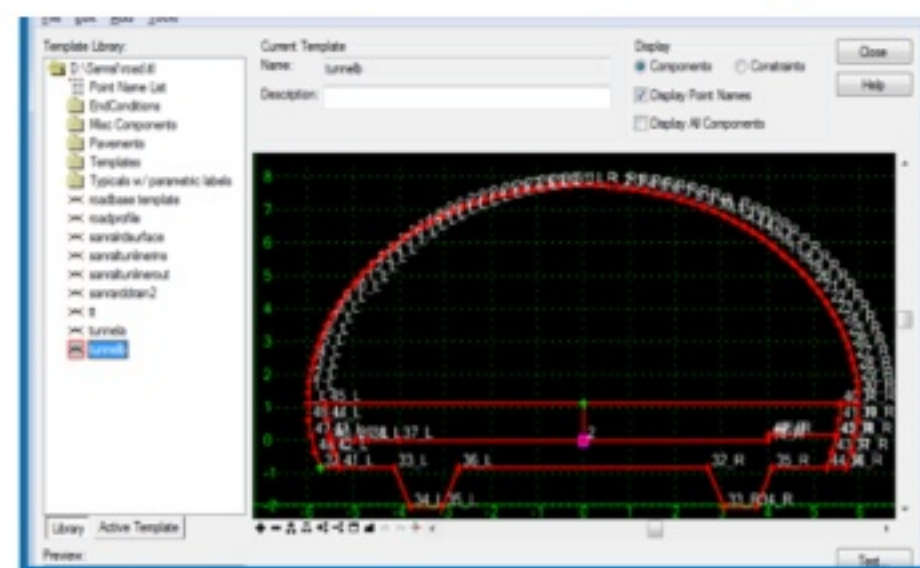
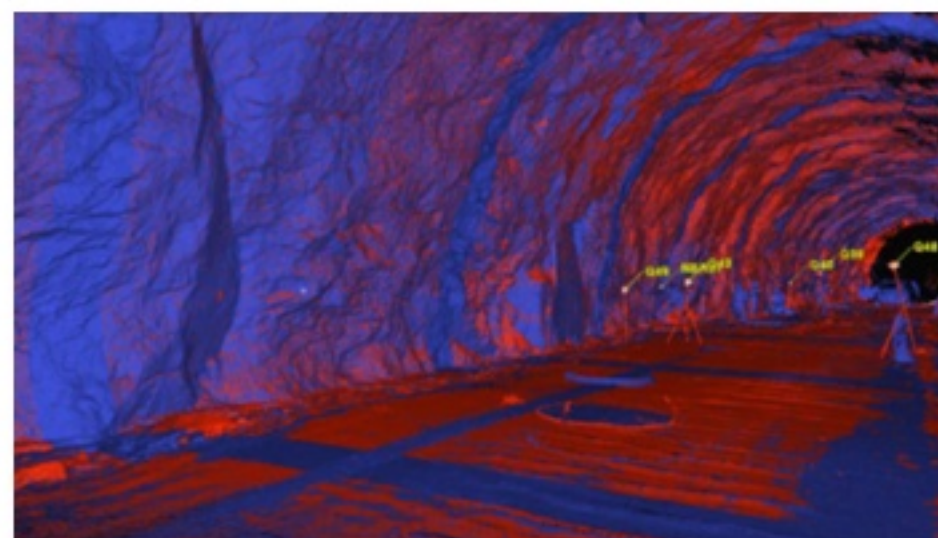
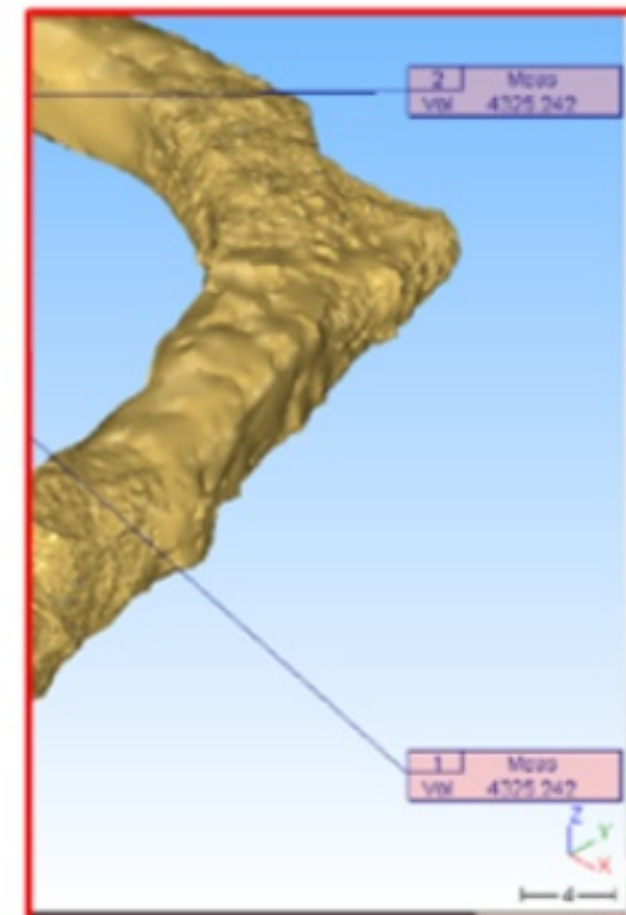
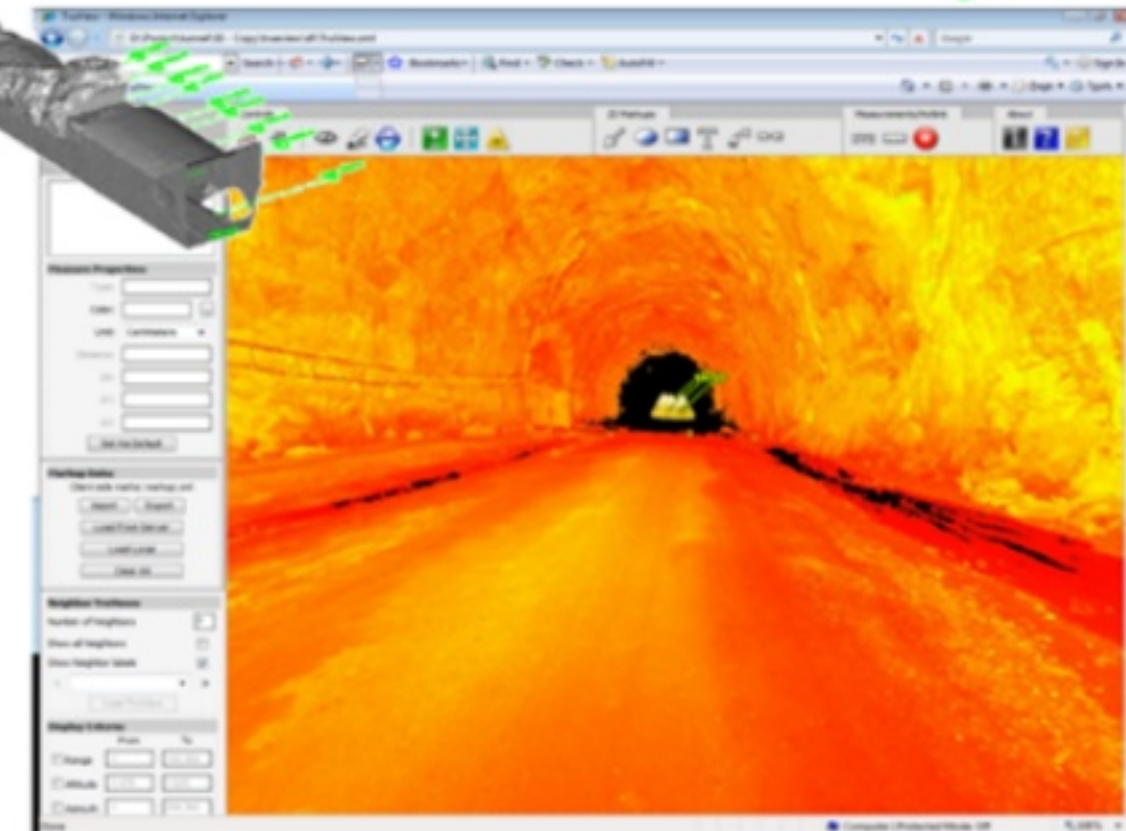
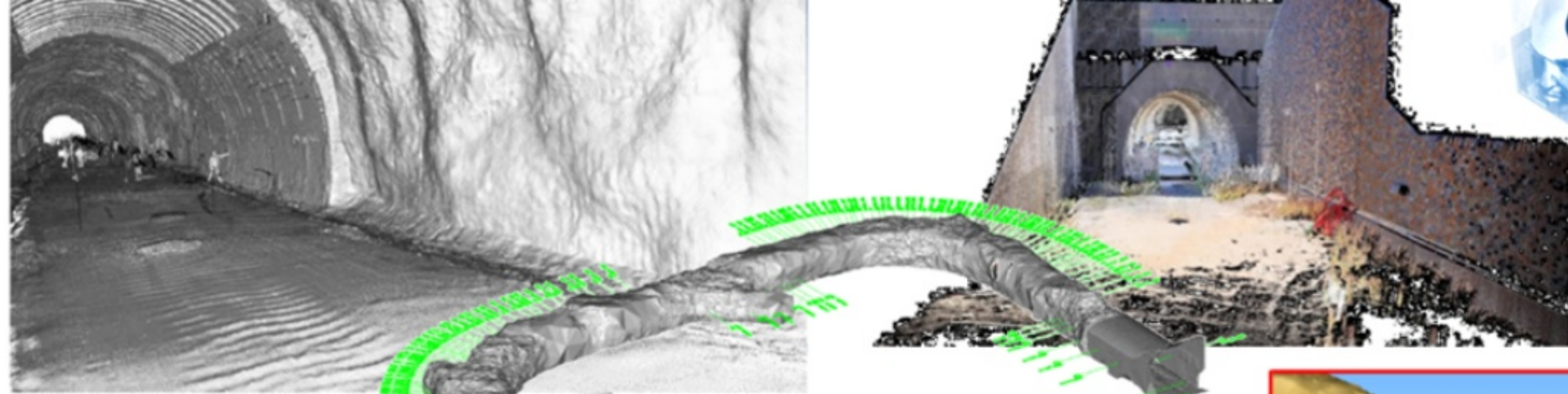


Incident Analysis: Terrestrial Scanning & 3D Modelling
 Various Clients 2000 - 2023





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GESS

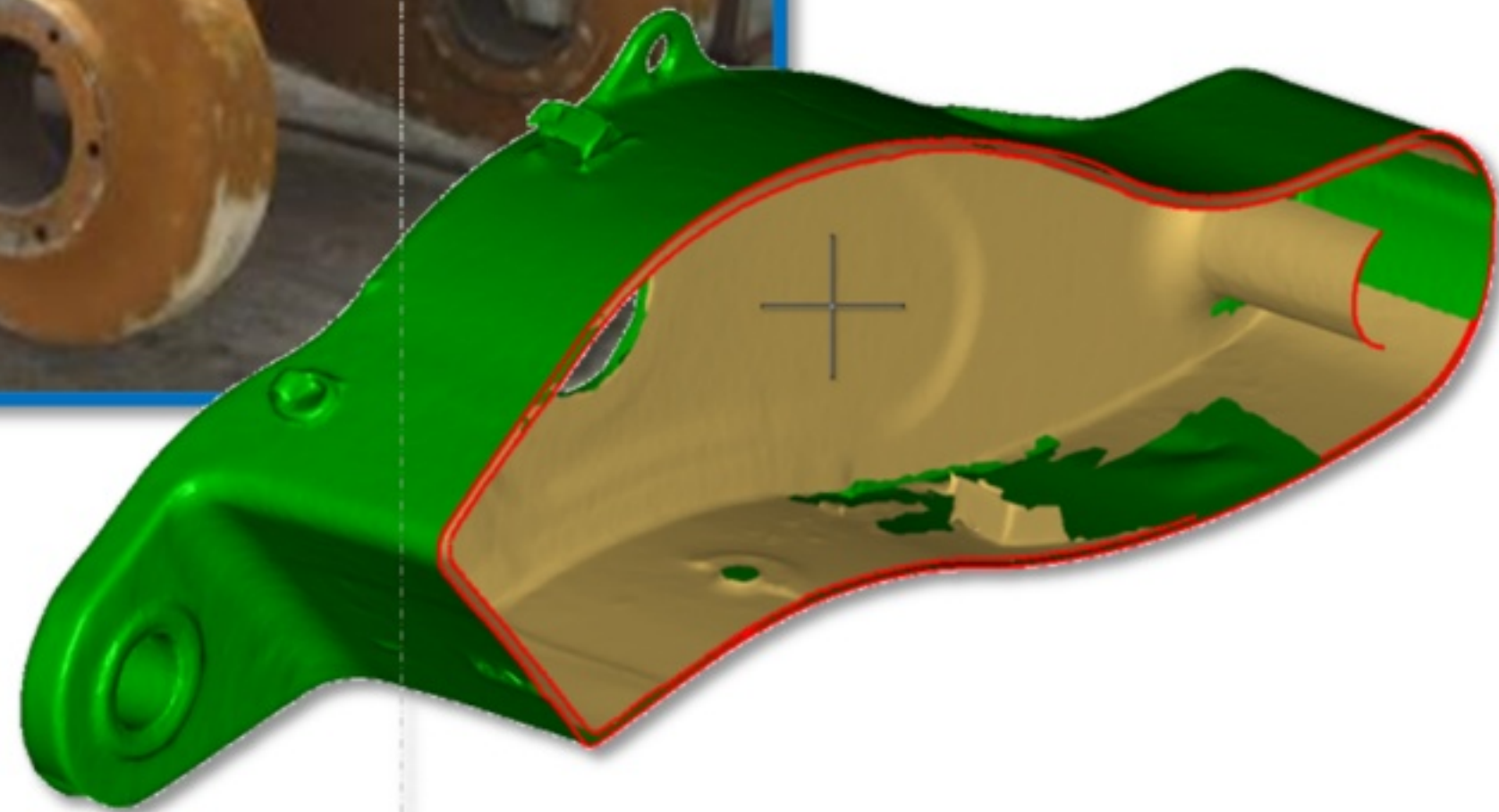


Cullinan underground scanning and New Process Plant Clash detection 2015

www.gess.co.za

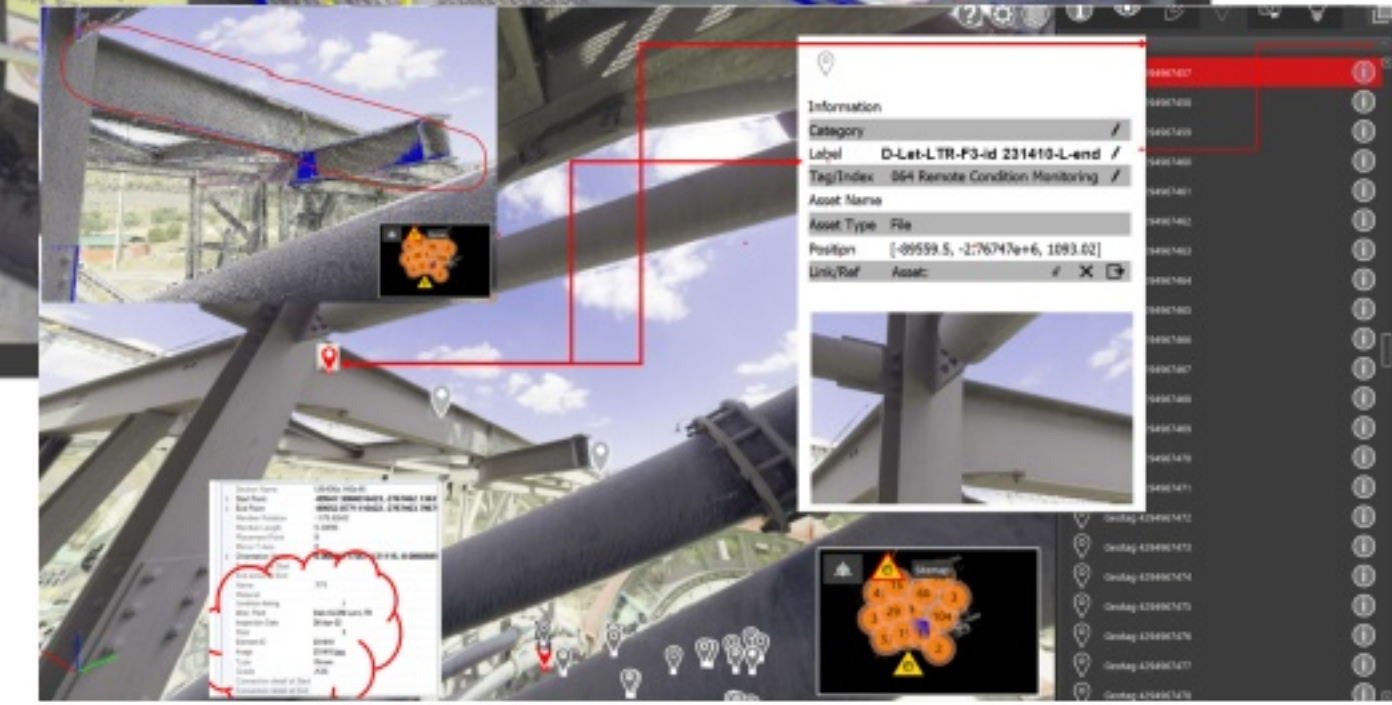
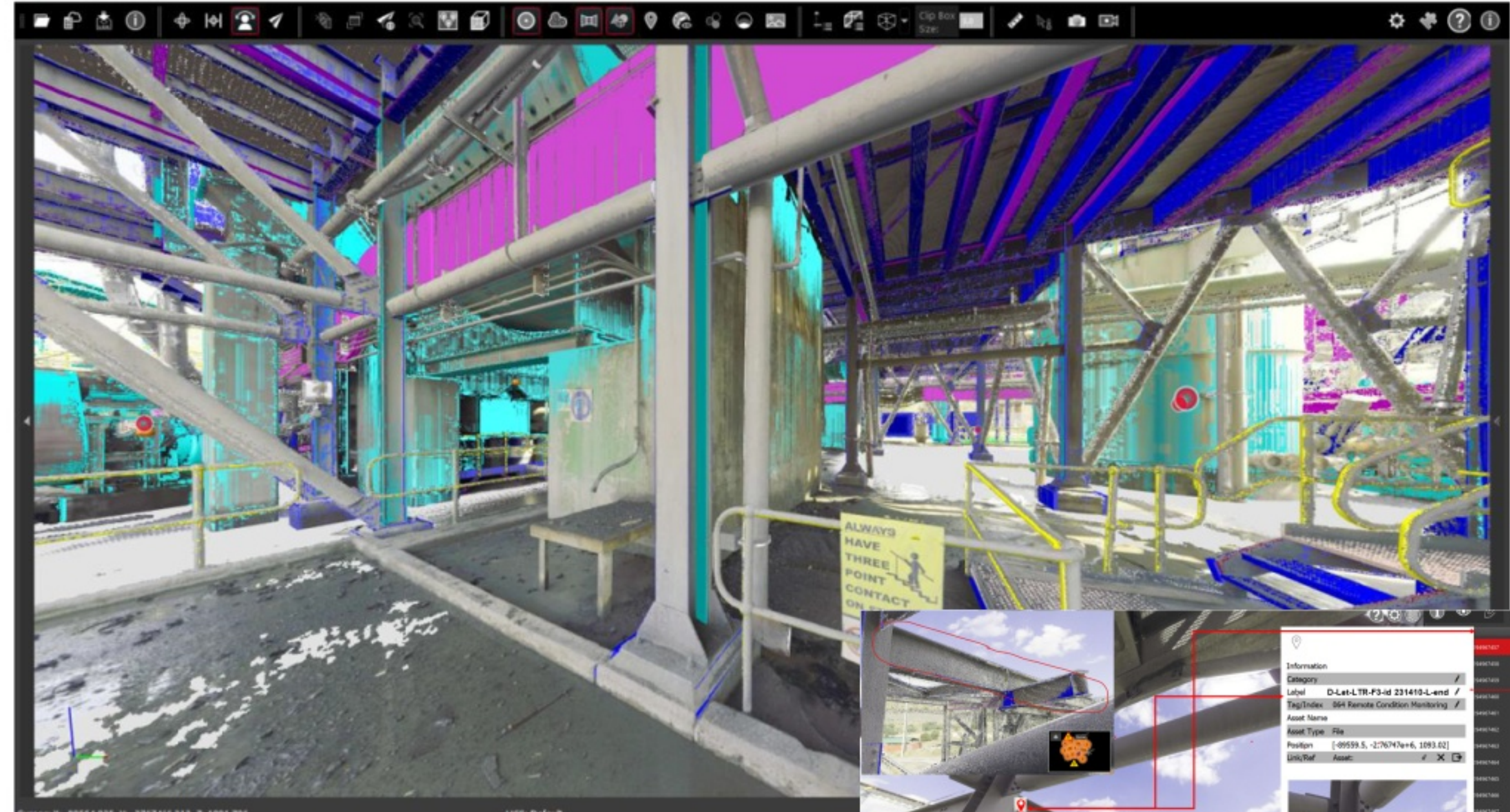
Huguenot Tunnel: 3D Scanning, 3D Underground
Surface modelling, Road & Tunnel Design

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GESS



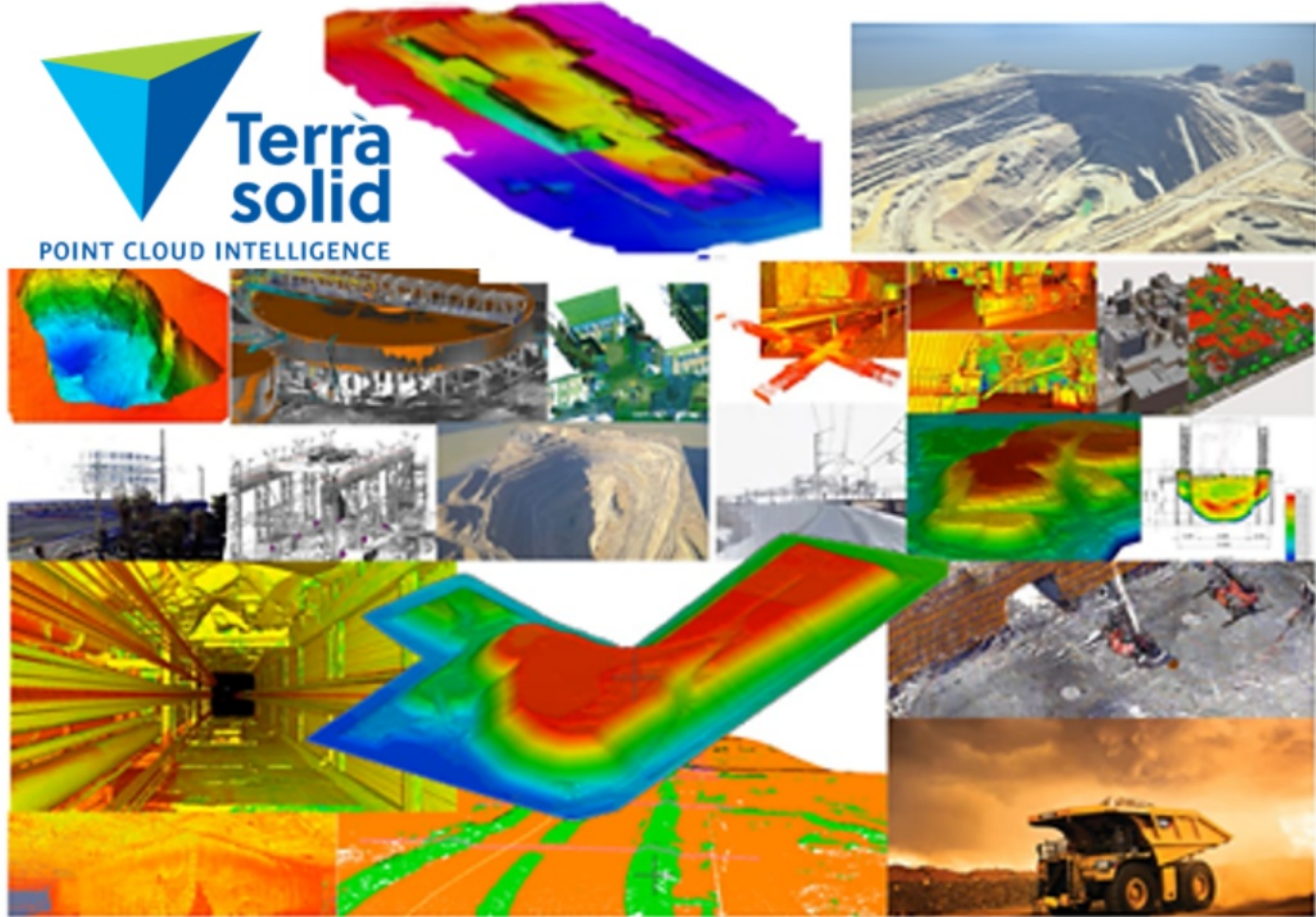
Anglo Platinum -
Link Arm Scan and 3D Modelling for Structural Analysis

www.gess.co.za

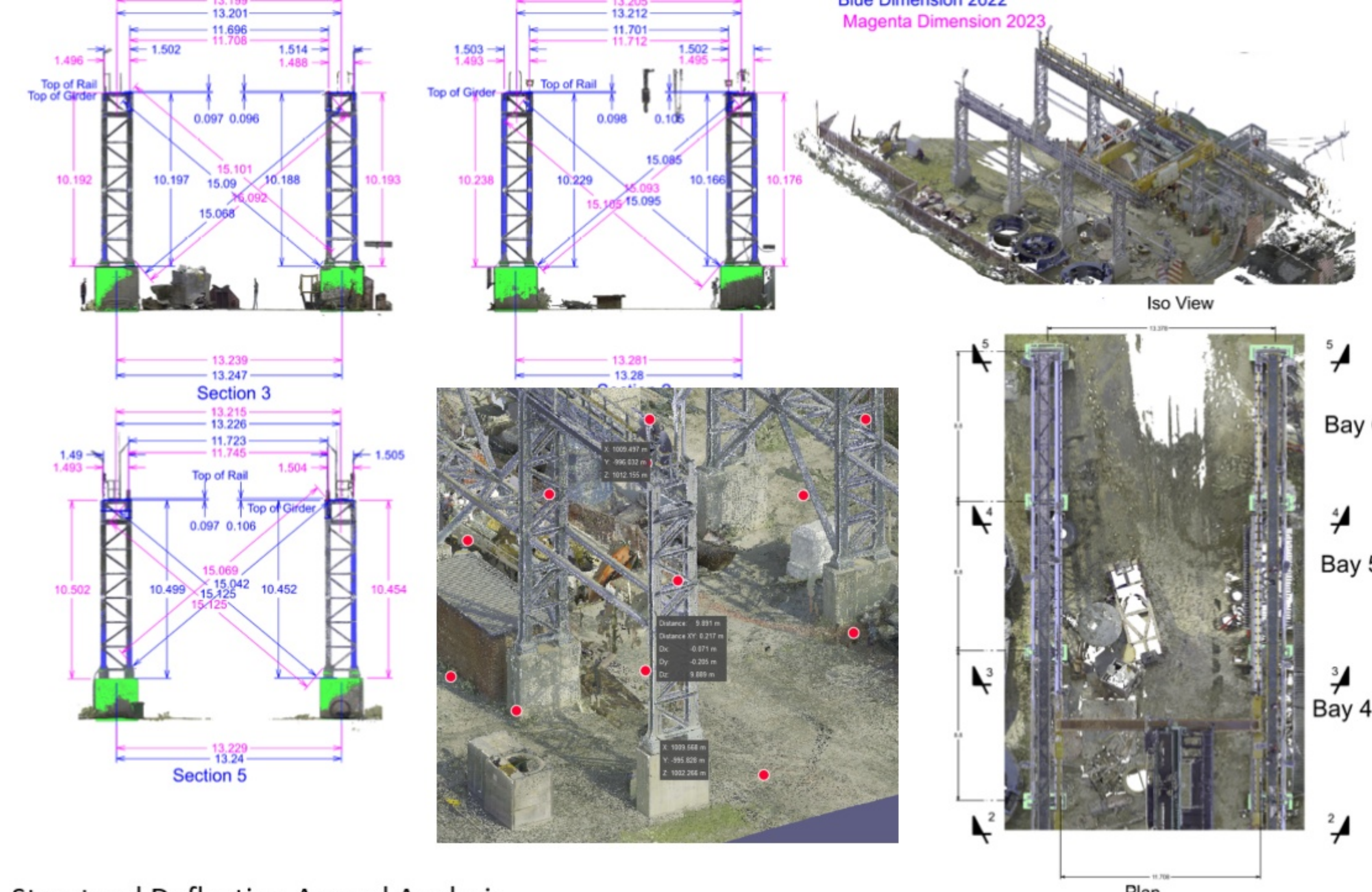


Amandelbult 3D Scanning & Modelling





Terrasolid Sales, Support, Training, Customisation & Intergration 2012 - 2024

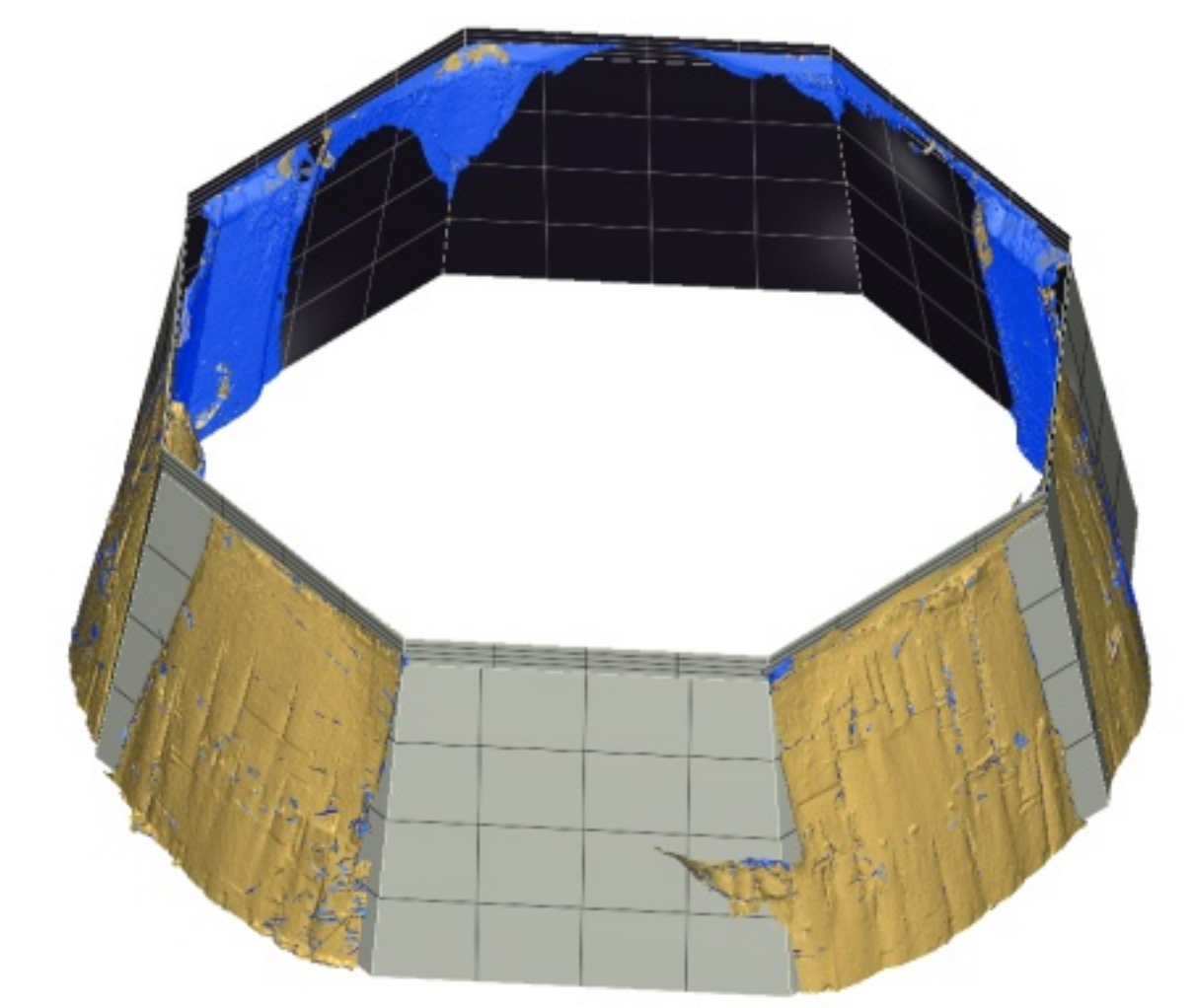
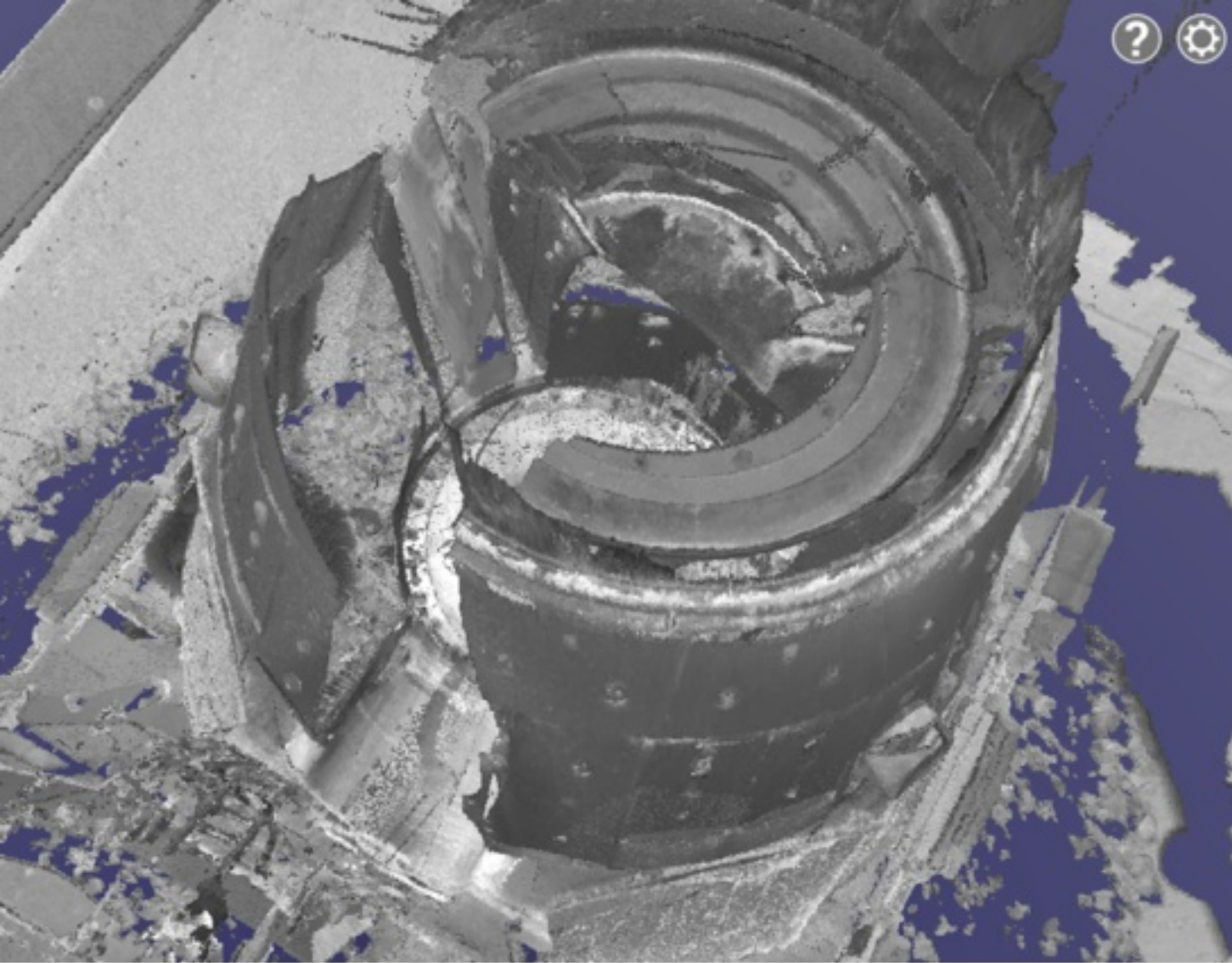


Structural Deflection Annual Analysis

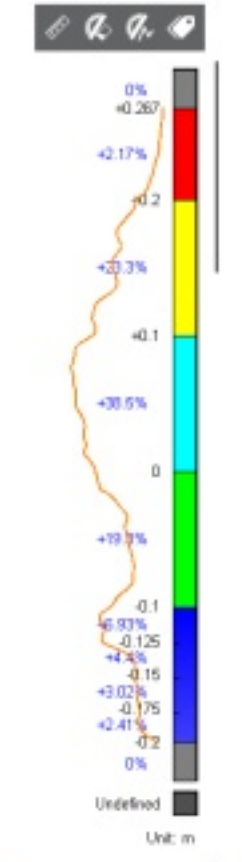
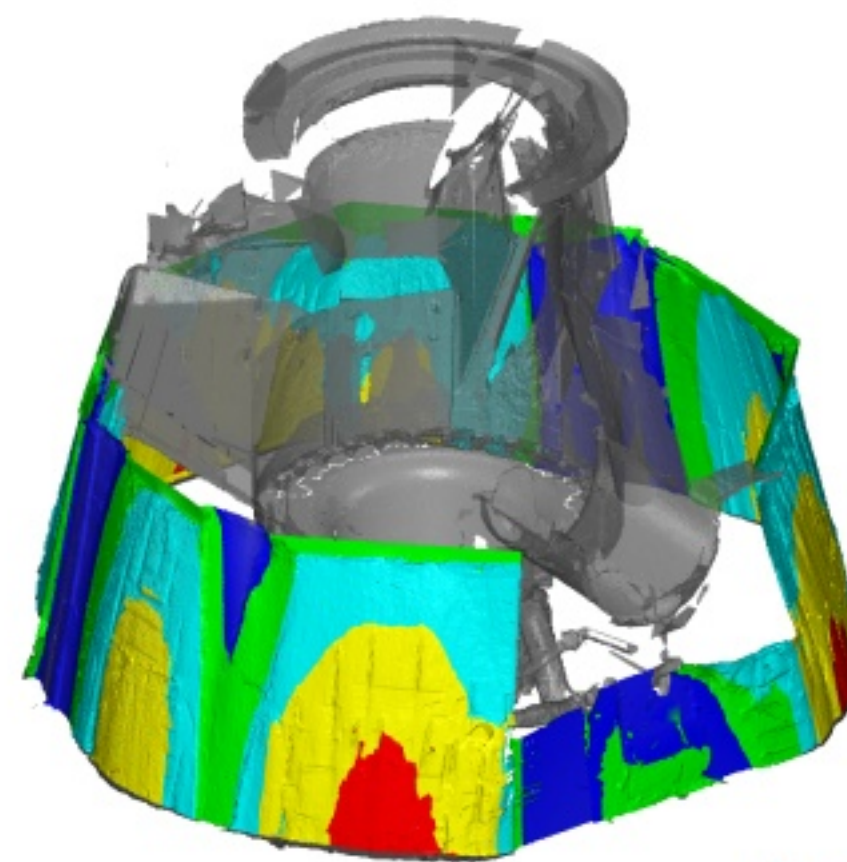
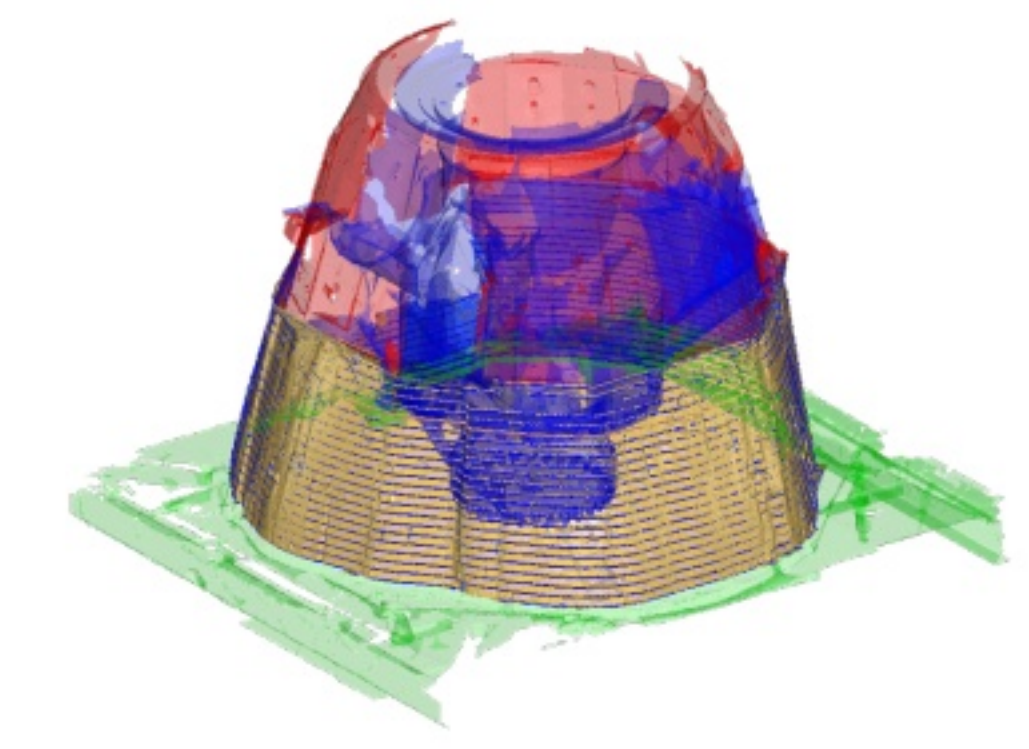
Mogalakwena Crusher Sturcture 3D Scanning, Modelling and Deflection Analysis



www.gess.co.za



- Cloud Group
- Mogalakwena ...ell - Ground
- Mogalakwena ...ress Steps
- Mogalakwena HC Attachment
- Mogalakwena HC Chair
- Mogalakwena ...al Equipment
- Mogalakwena H... Inside Wall
- Mogalakwena ... Top Section
- Mesh Group
- Mogalakwena H... Inside Wall
- Mogalakwena ... Top Section
- Mogalakwena ...al Equipment
- Mogalakwena HC Attachment
- Mogalakwena ...Access Steps
- Contour Group
- Contour lines ...side Wall 0.0
- Contour lines ...side Wall 1.8
- Contour lines ...side Wall 1.1
- Contour lines ...side Wall 0.2
- Contour lines ...side Wall 1.3
- Contour lines ...side Wall 0.9
- Contour lines ...side Wall 0.7
- Contour lines ...side Wall 0.5
- Contour lines ...side Wall 2.2
- Contour lines ...side Wall 1.5
- Contour lines ...side Wall 2.0
- Contour lines ...side Wall 1.0
- Contour lines ...side Wall 1.4
- Contour lines ...side Wall 0.8
- Contour lines ...side Wall 0.1
- Contour lines ...side Wall 1.9
- Contour lines ...side Wall 0.3
- Contour lines ...side Wall 0.4
- Contour lines ...side Wall 1.6



Crusher Rock Box 3D Scanning, Modelling & Surface Analysis



Innovating the Digital Future Empowering our Clients

VR Gear – 3d walk thru

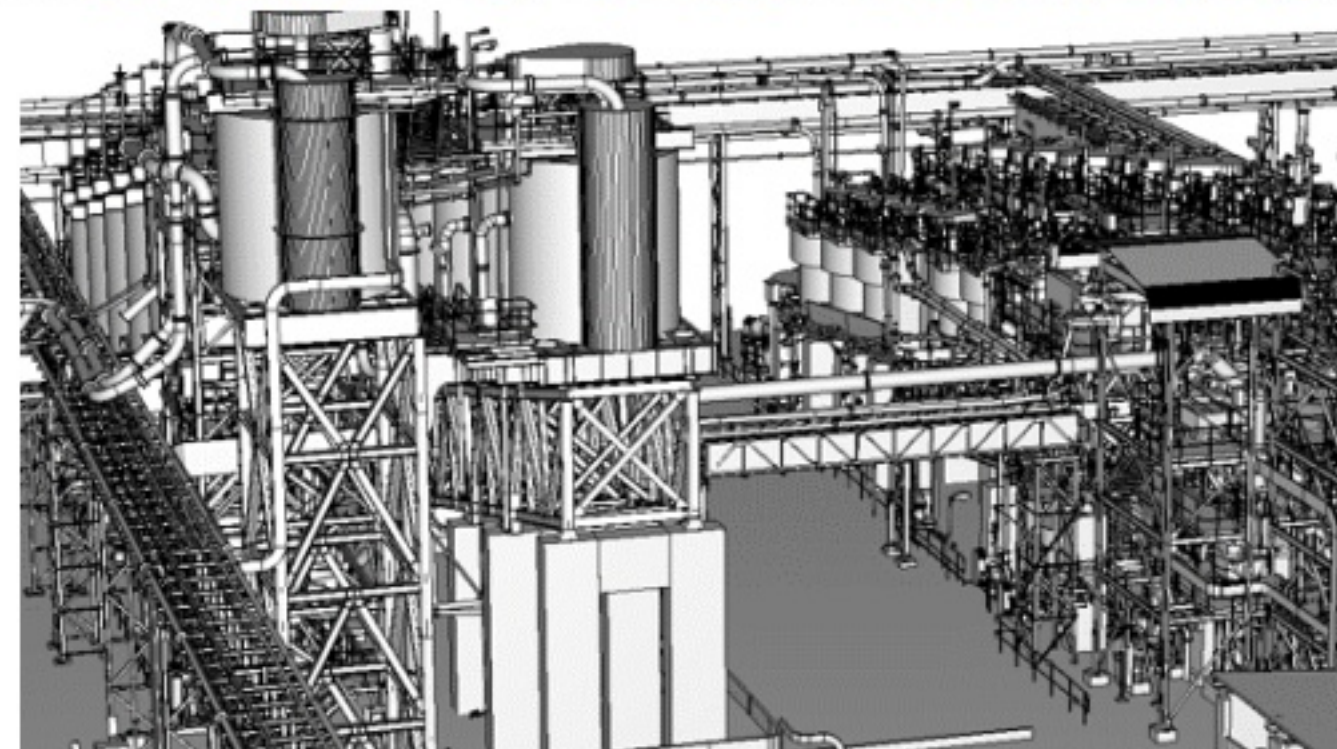
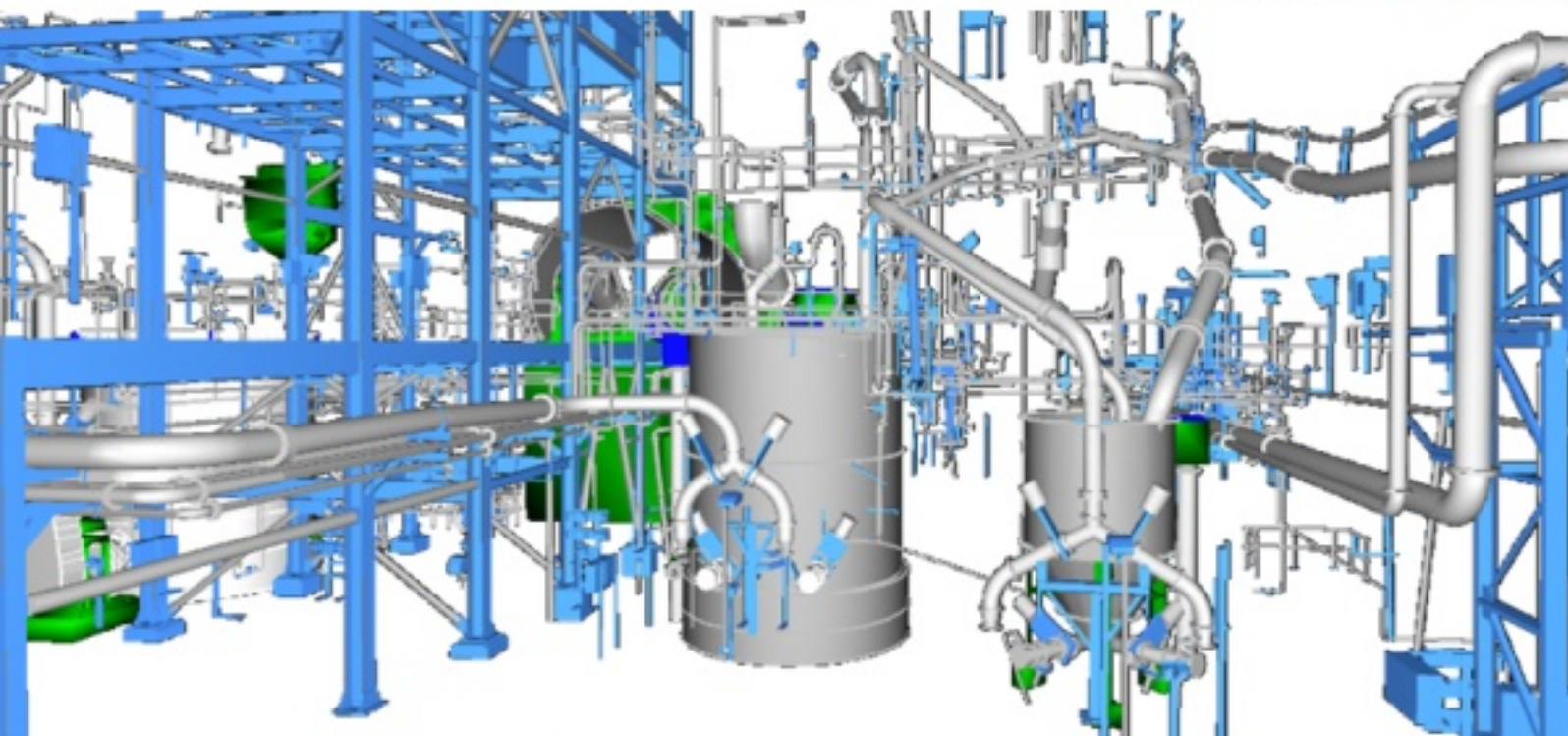
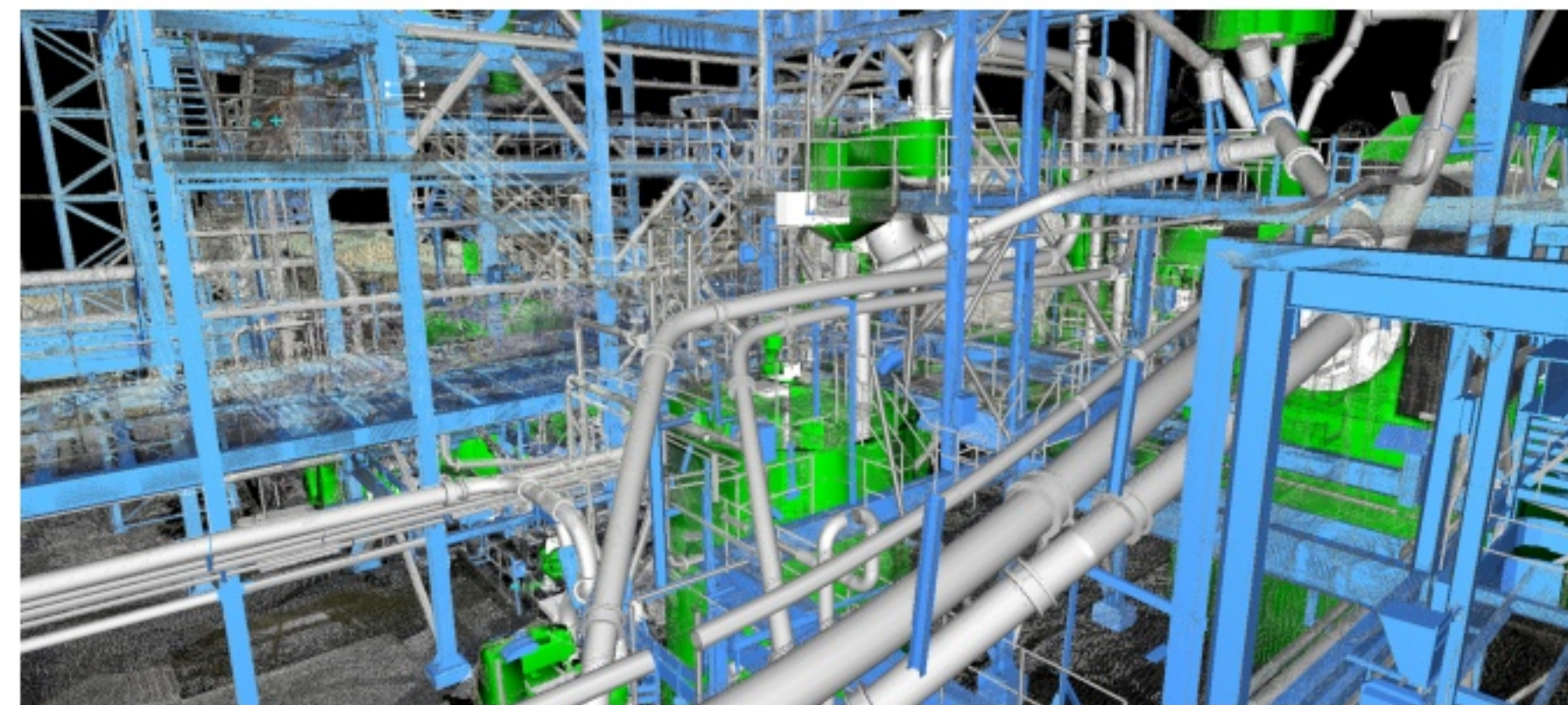
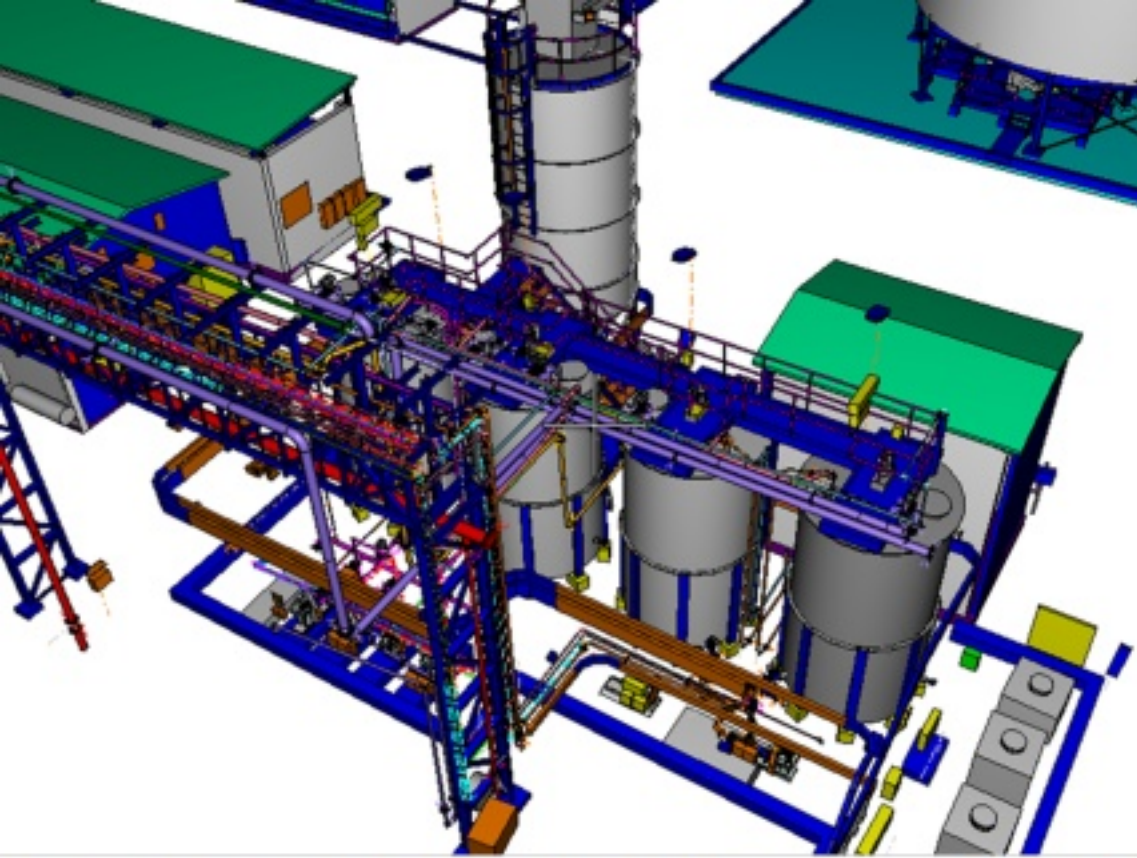
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Sishen Sample Plant 3D Scanning, Intelligent Structural Modelling and Analysis

www.gess.co.za

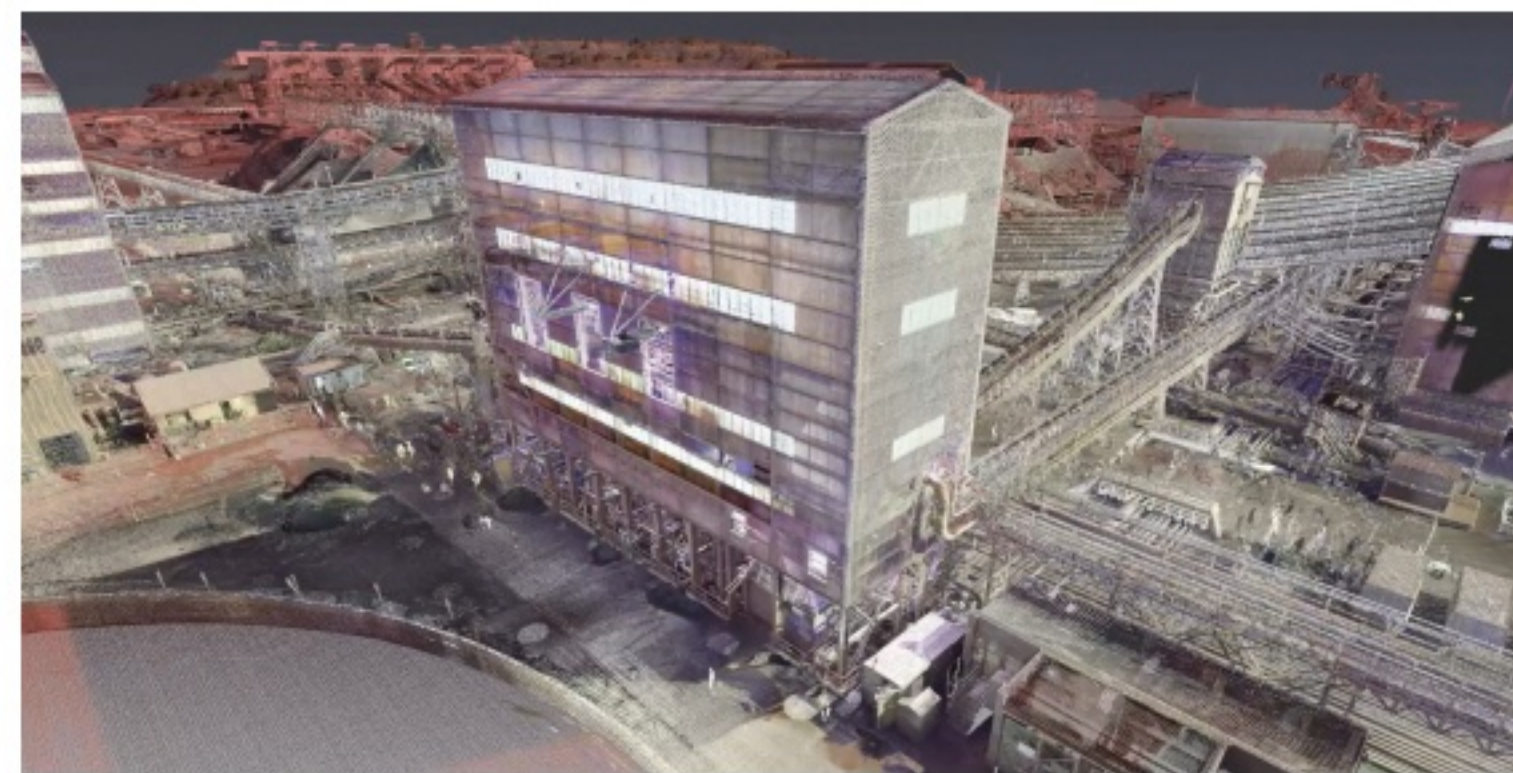
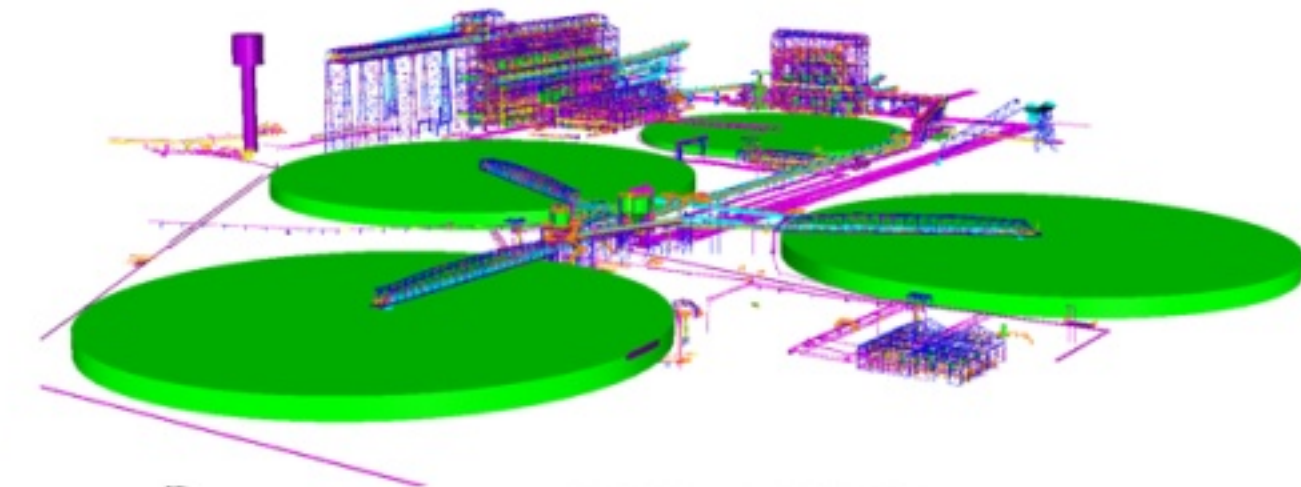
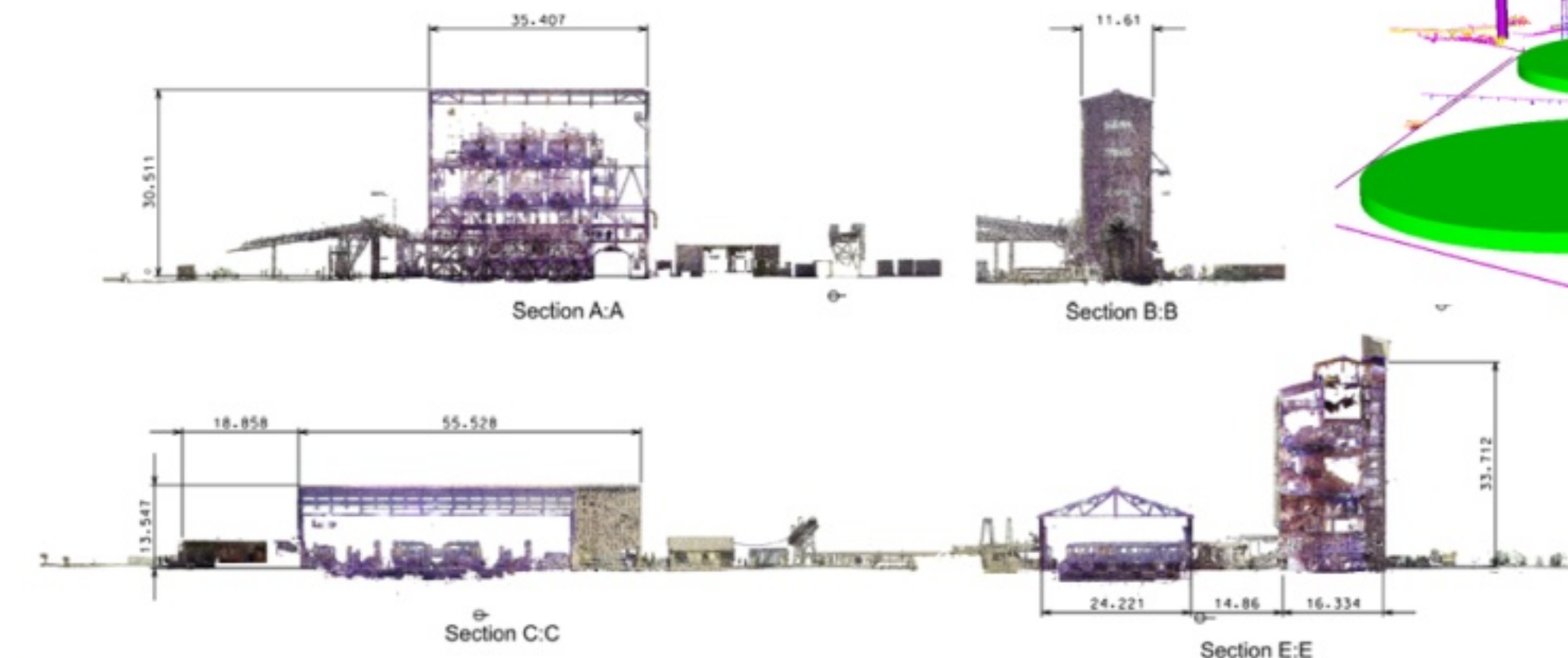




Mototolo Plant Reverse Engineering Digital Twin Scanning & 3D Vector & Intelligent Modelling

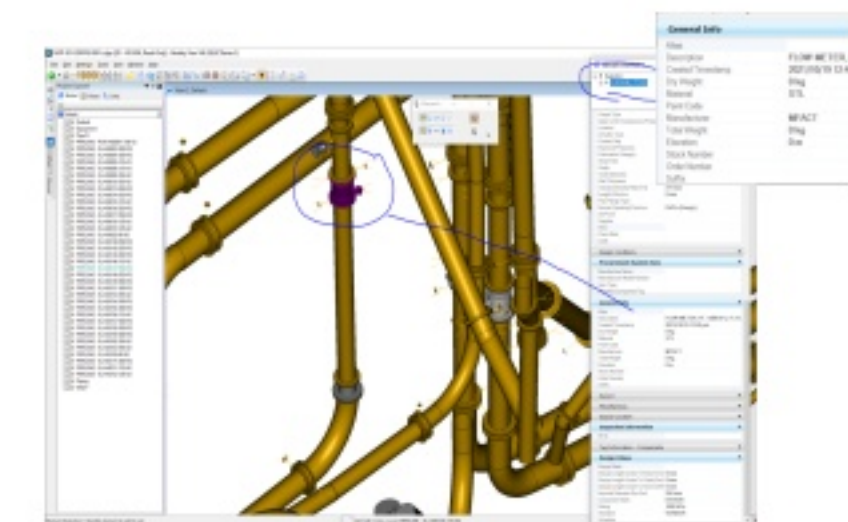


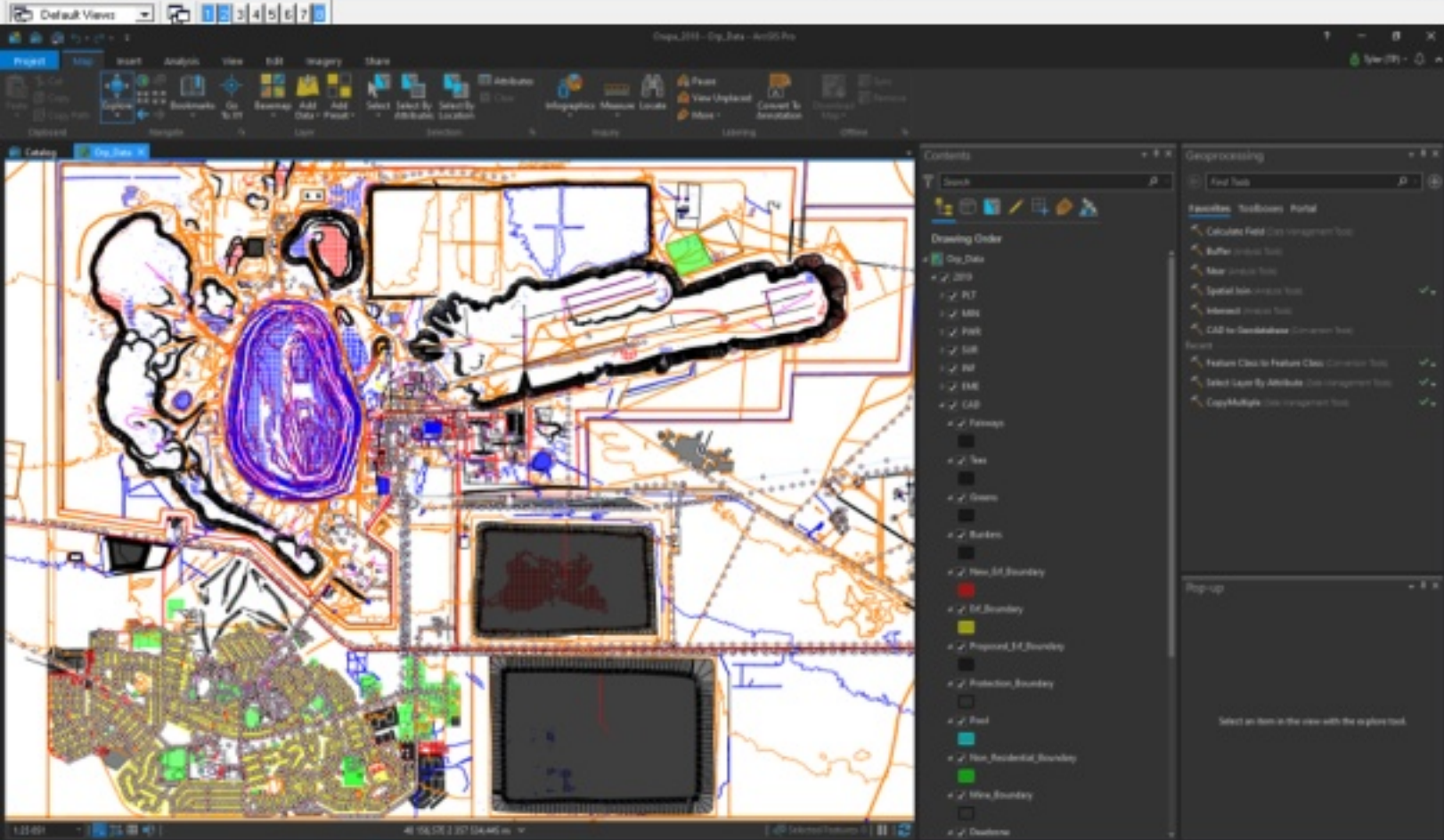
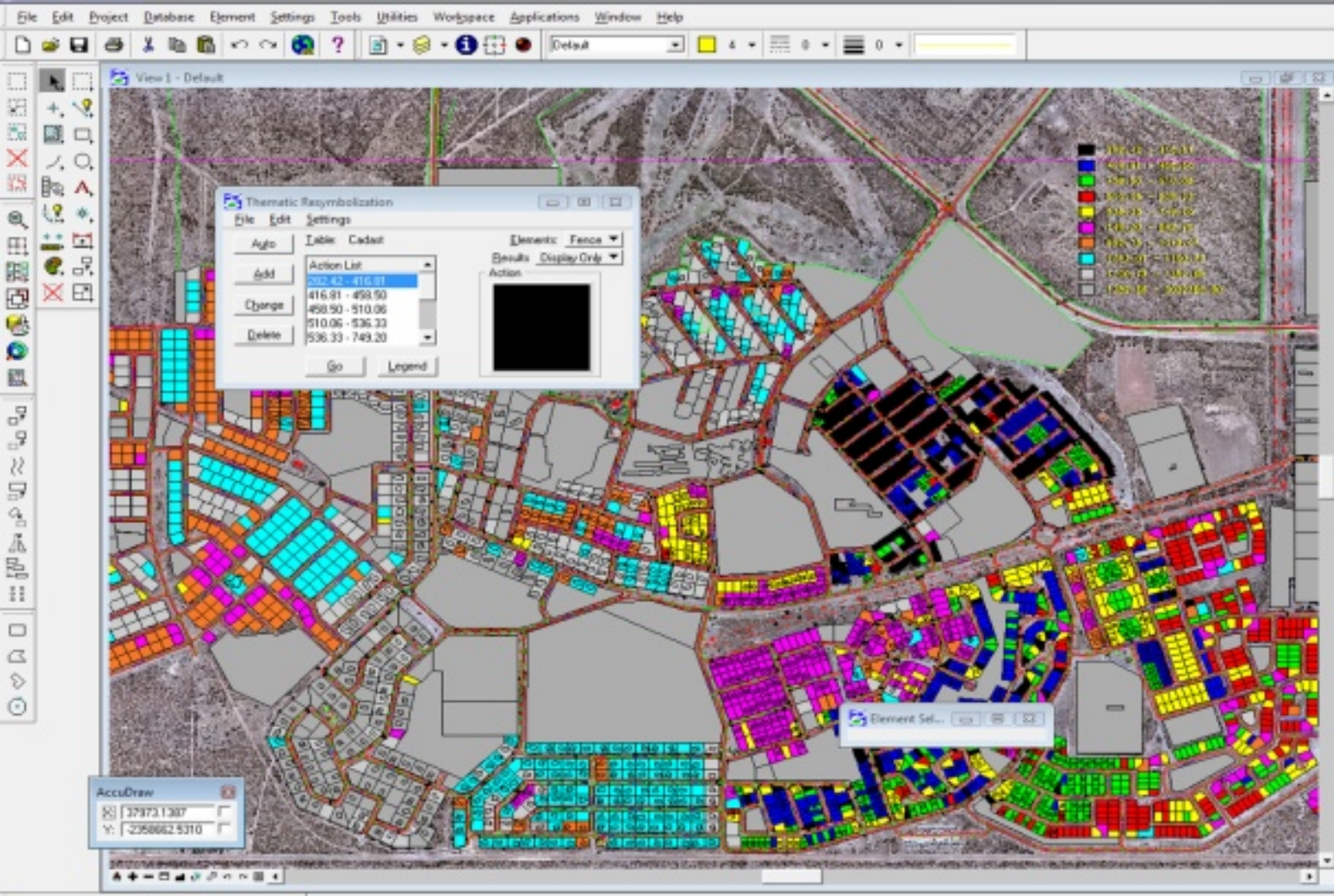
Process Plant Scanning & Reverse Engineering



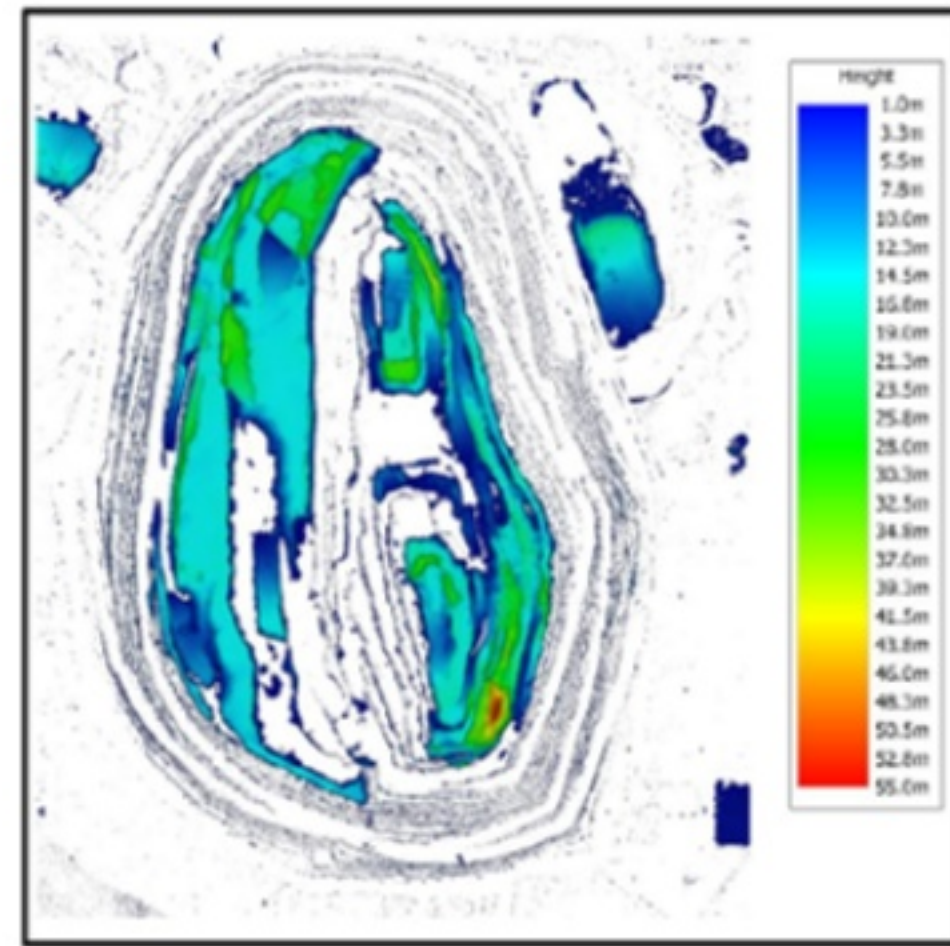
Sishen Washing & Screening Plant Reverse Engineering Digital Twin Scanning & 3D Vector

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Debswana Jwaneng Mine Plans & Volumetric Audit



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WAYLEAVE CENTRAL

<http://www.wayleavecentral.co.za>

Wayleave Management Solution



System Components

Application Processing

- Allow validated Wayleave capture with decision support and application tracking

Inspection and Monitoring

- Support validated capture and edit of Wayleave construction details
- Create default inspection instructions on works or field inspector's mobile handheld inspection devices

Enquiries

- Capability to define information searches/queries using various criteria
- Wayleave information queries can also be executed from inspector's mobile handheld devices

Management Reports

- Allow generation, view and print of standard and user defined Wayleave reports

Invoicing and Receipting

- Support Wayleave invoicing and receipting functions

- Capability to define Wayleave invoicing query information
- Searches / queries using various criteria
- Allow generation, display and print of invoicing and receipting reports



Applications Approved		Applications in Progress	
Application No.	Application Date	Application No.	Application Date
1000000001	2010-01-01	1000000001	2010-01-01
1000000002	2010-01-02	1000000002	2010-01-02
1000000003	2010-01-03	1000000003	2010-01-03
1000000004	2010-01-04	1000000004	2010-01-04
1000000005	2010-01-05	1000000005	2010-01-05

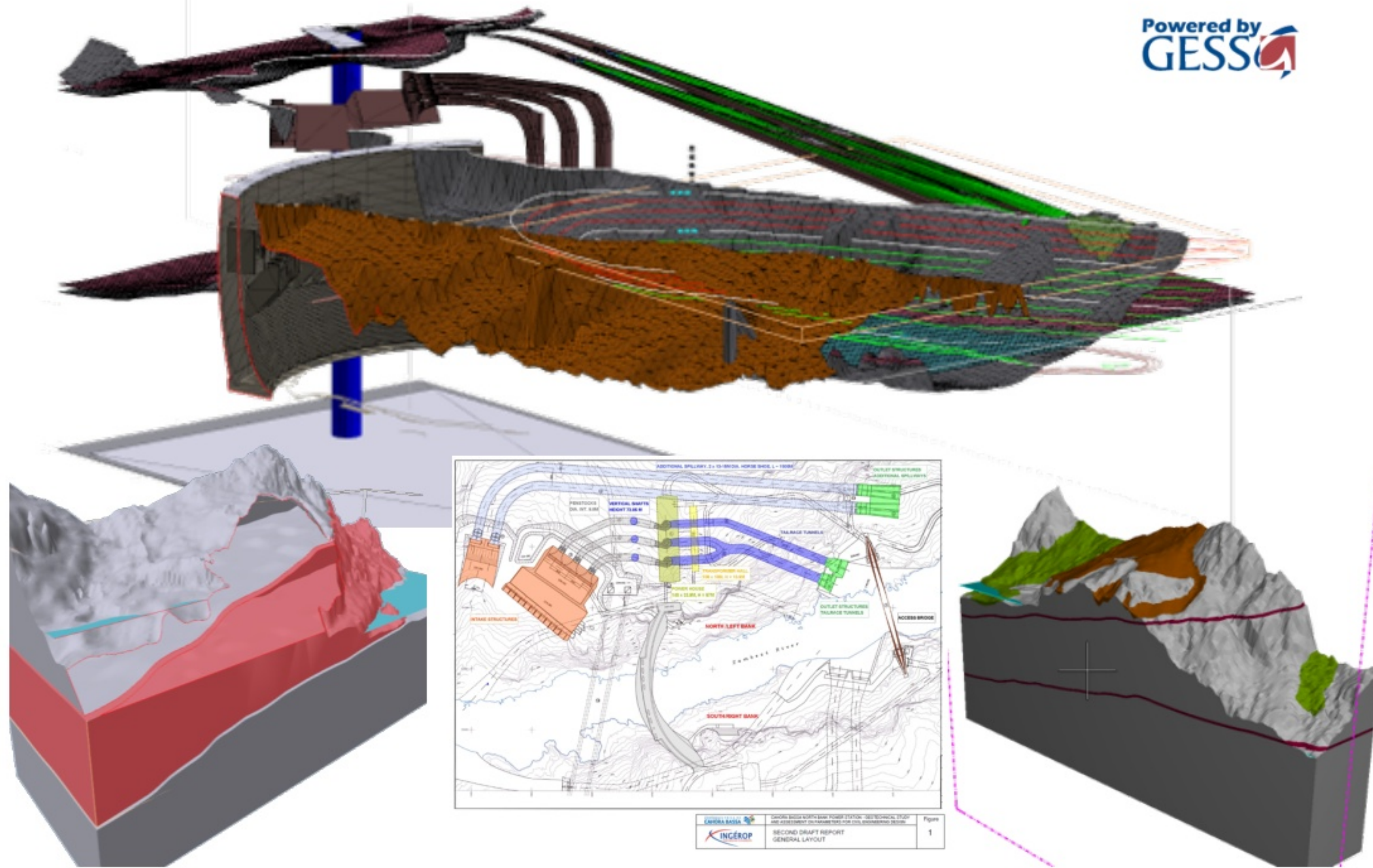


WAYLEAVE CENTRAL

Wayleave Management Solution

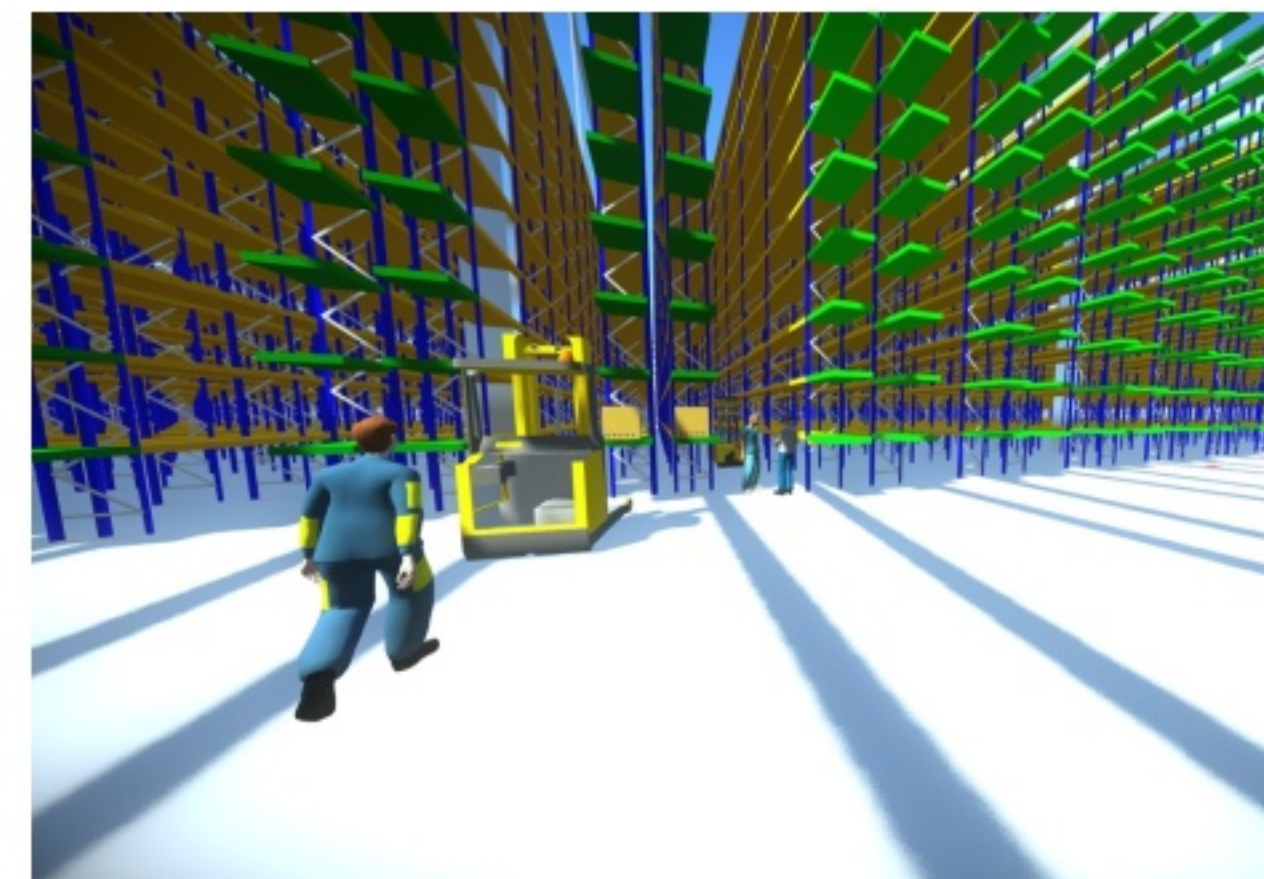
GESS Tshwane Wayleave Solution





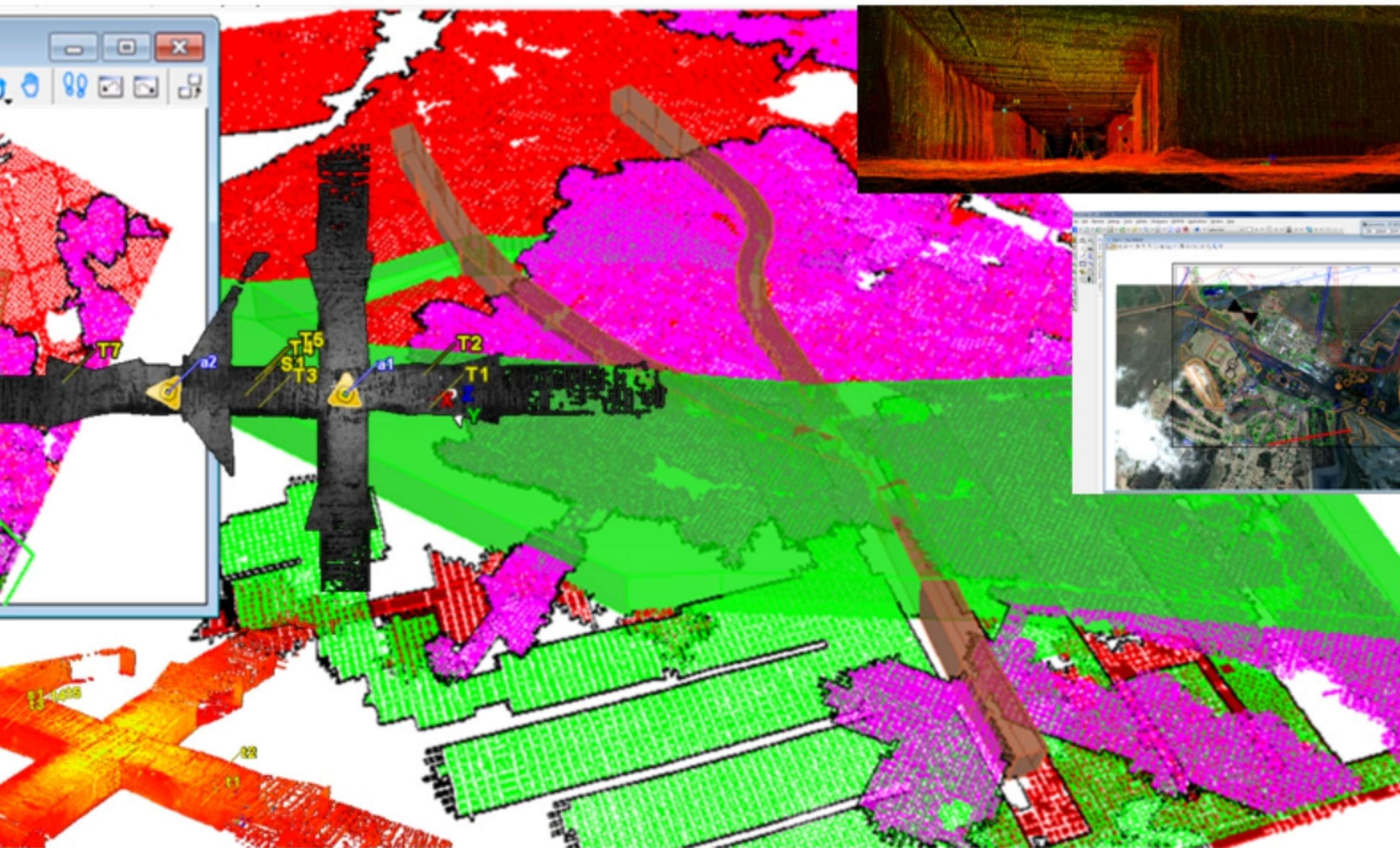
Cahora Bassa Hydro Expansion Project : Geological 3D Modelling

www.gess.co.za



DSV Warehouse 3D Modelling Visualisation and Logistics Animations

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GESS



Underground Coal Seams: 3D Scanning and Modelling

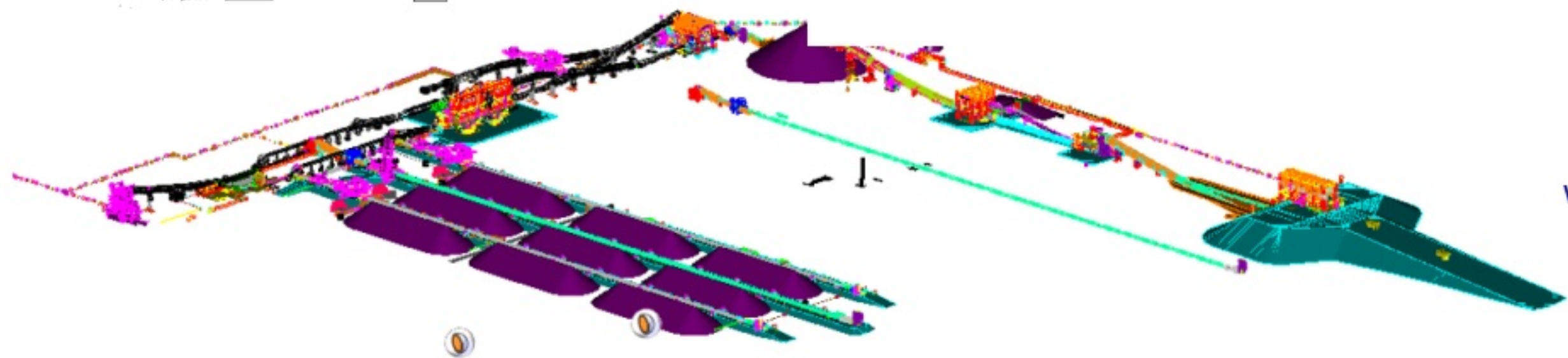
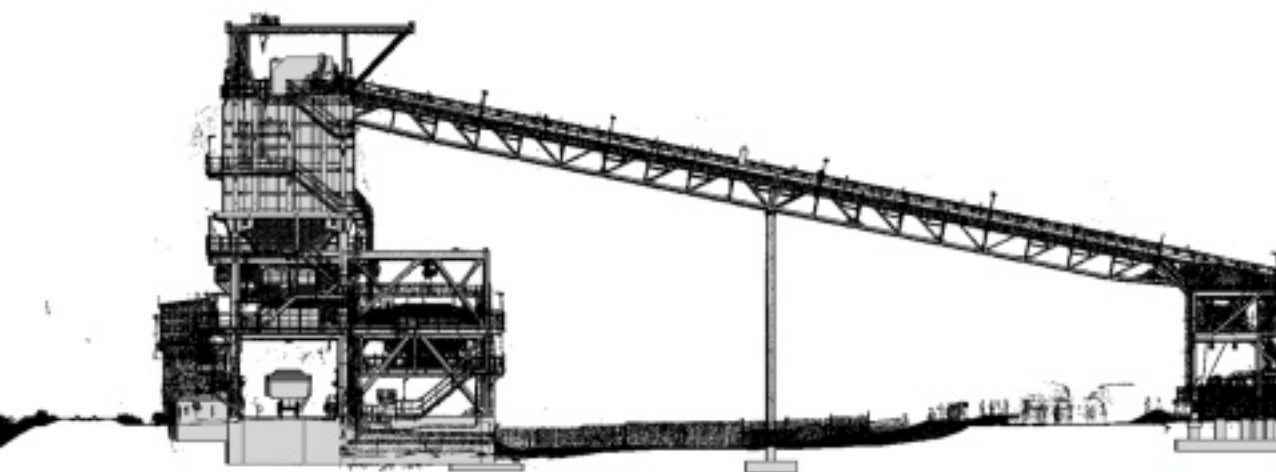
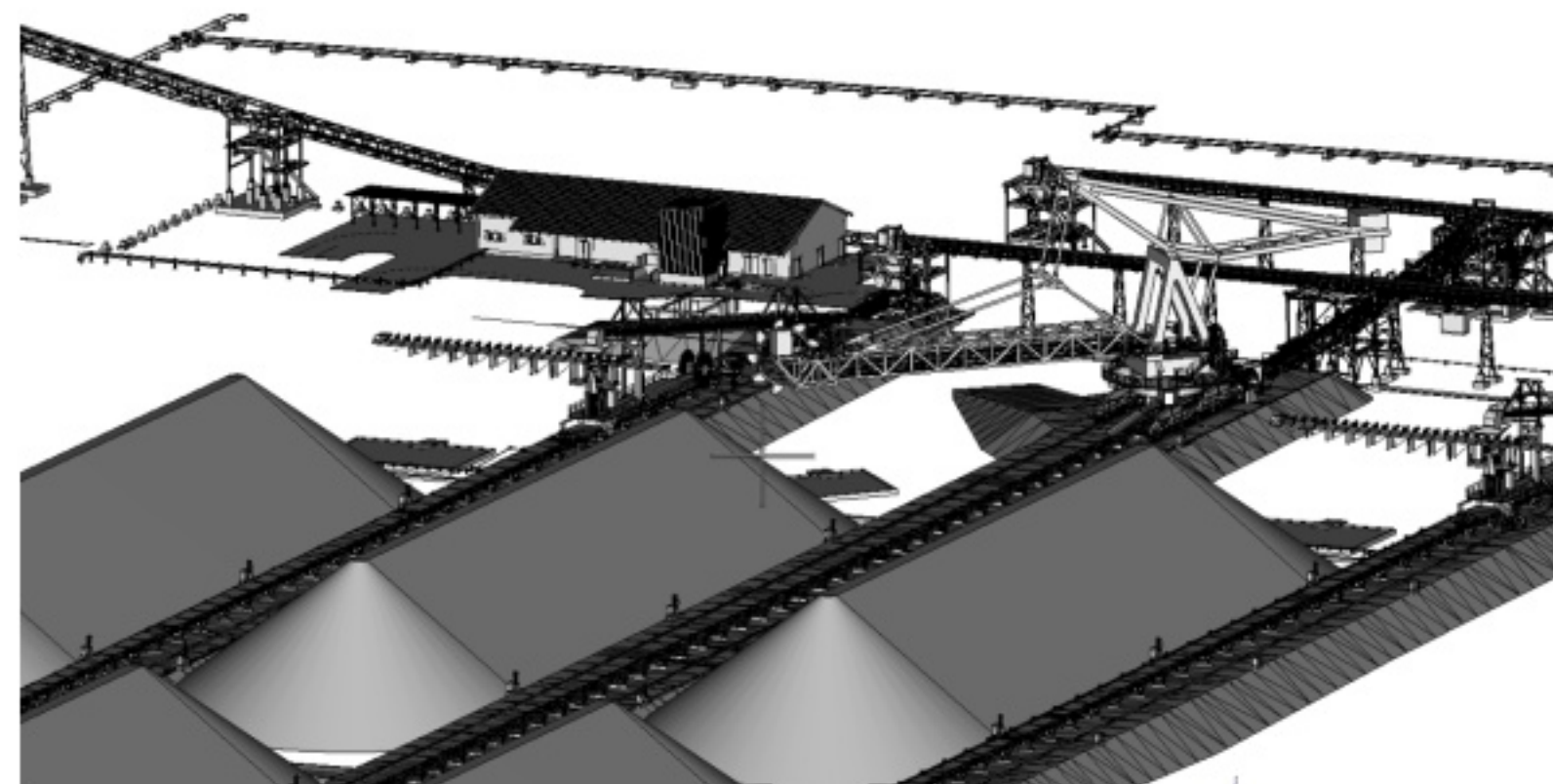
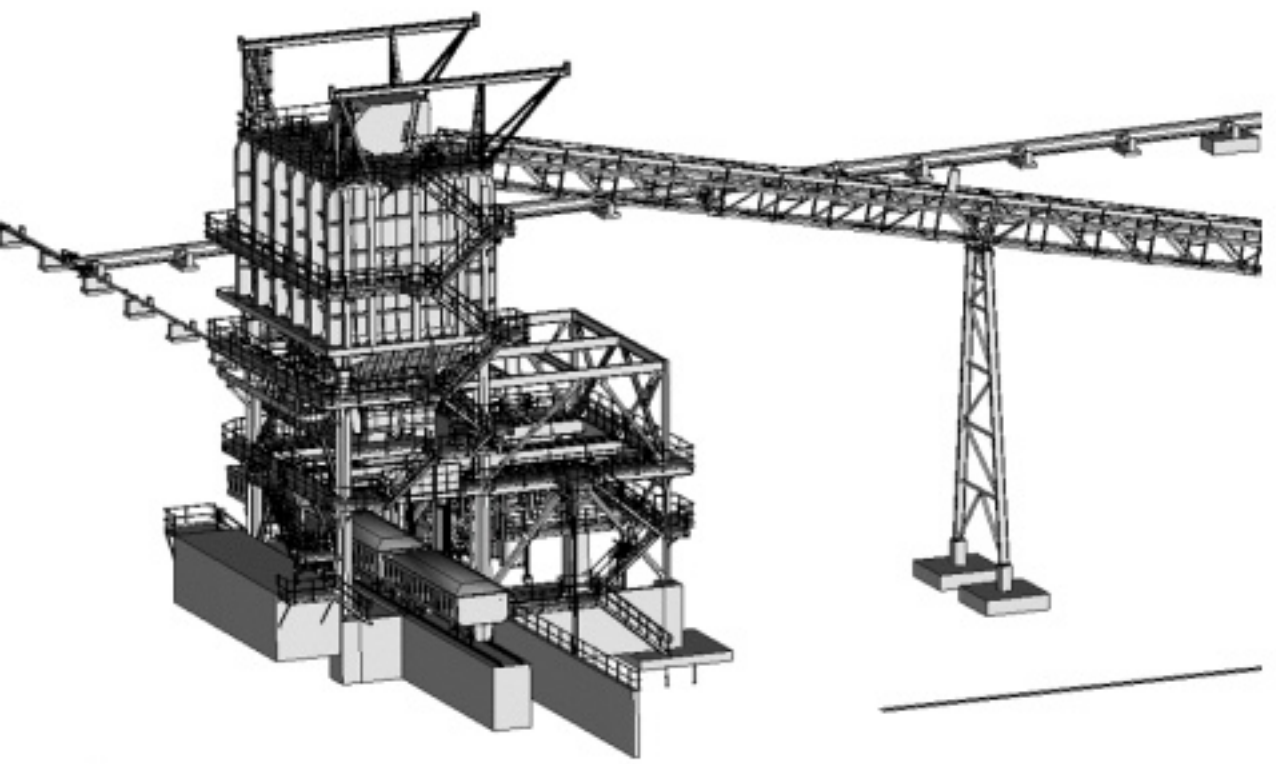


The purpose of the Photo Management Tool is to allow Photos taken of the Assets that will be left after construction, to be captured on a laptop or workstation offline, and then, when back at the office, or connected to the internet, to upload the files into ProjectWise for safe keeping, as well as to make it available to the rest of the Project Team.

The Photo Management System therefore consist of three components, this Capturing Tool, a Search Tool available on the Web, and of course ProjectWise as the data store.

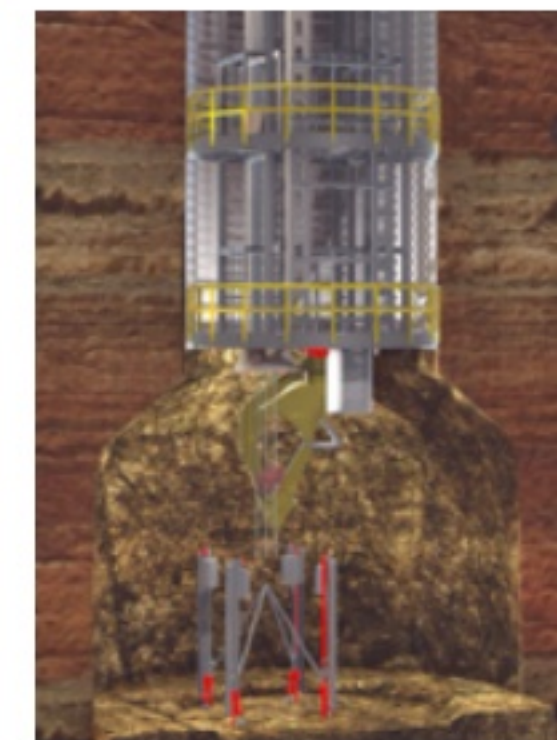


Gautrain Projectwise Customisation and Integration



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Kolomelo DSO Digital Twin Reverse Engineering - 3D Scanning , Modelling, Intelligent Plant

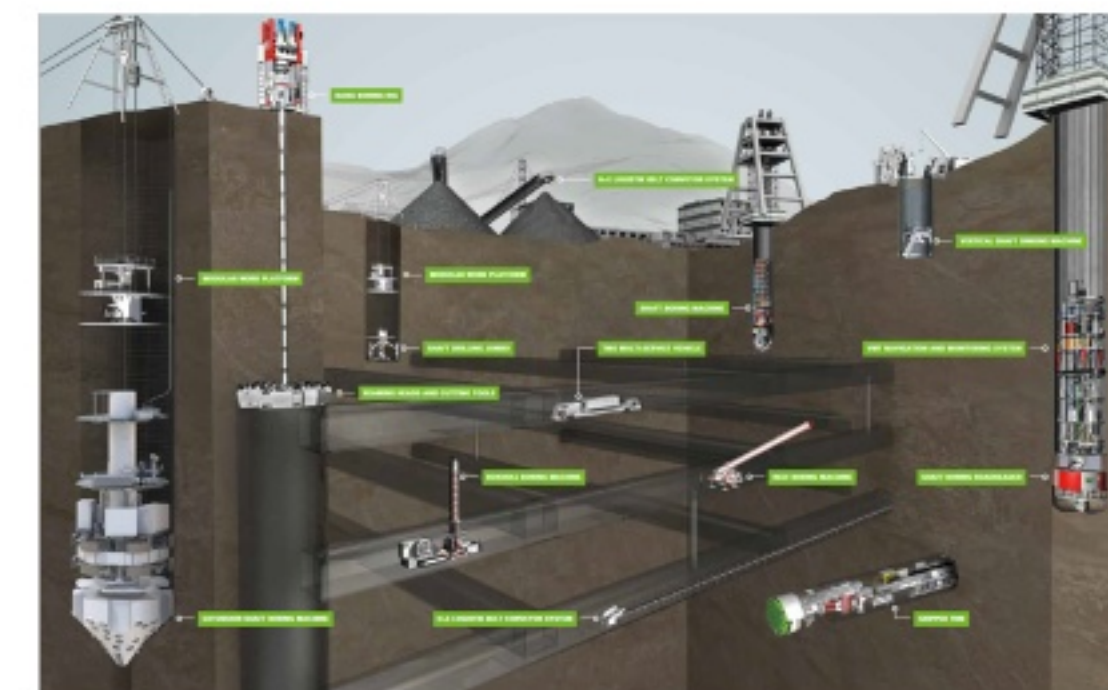


CORE BUSINESS OFFERING

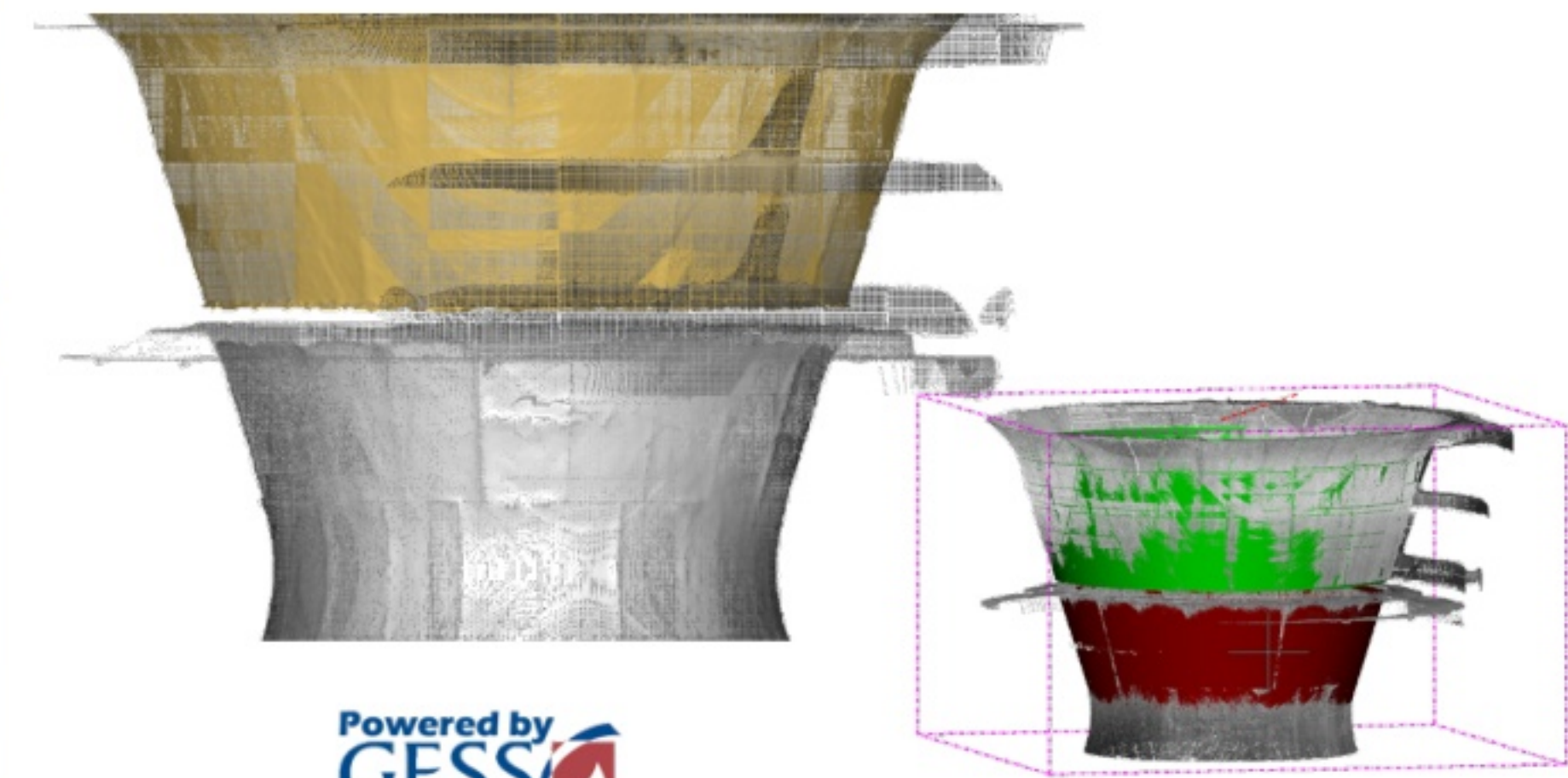
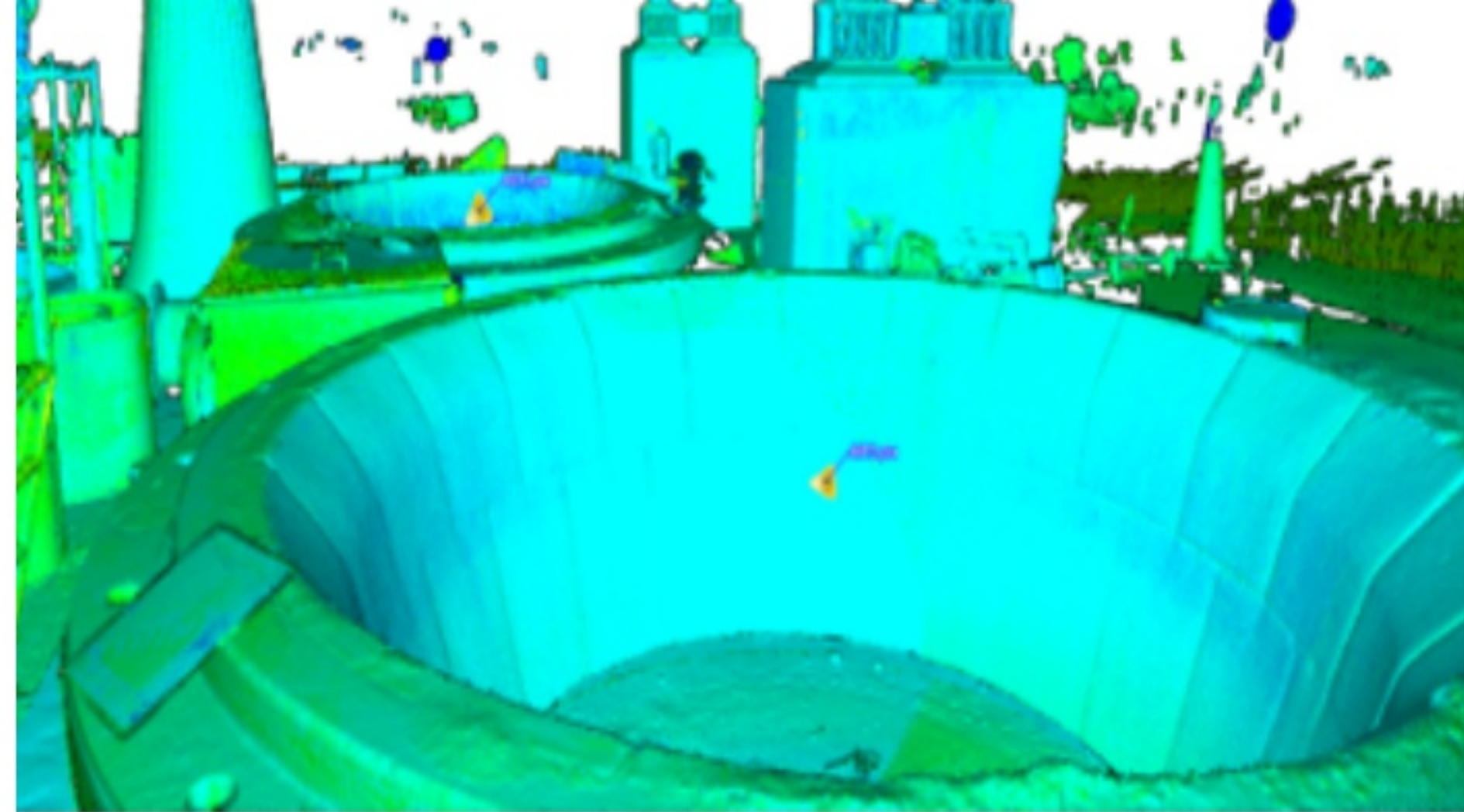
Services

- Shaft Sinking
- Raise boring
- Raise Mining
- Mine Development
- Contract Mining
- Underground Construction
- Engineering and Technical Services

Safety - First, Last and Always. Consider It done.

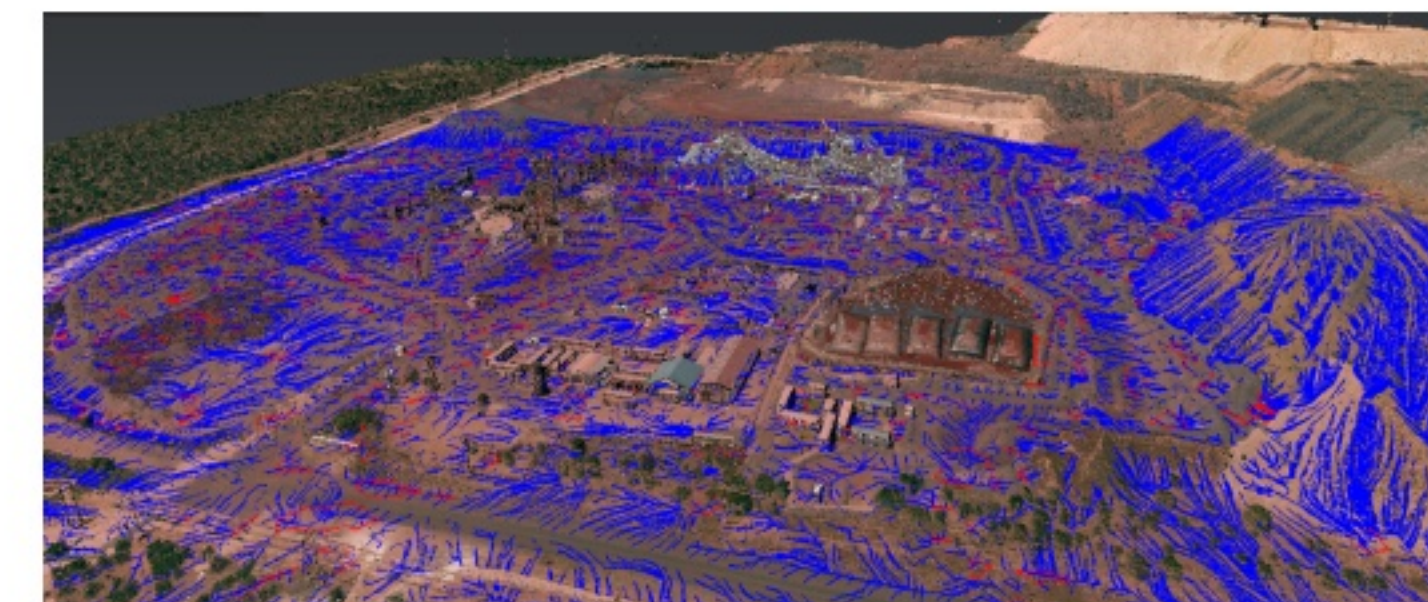
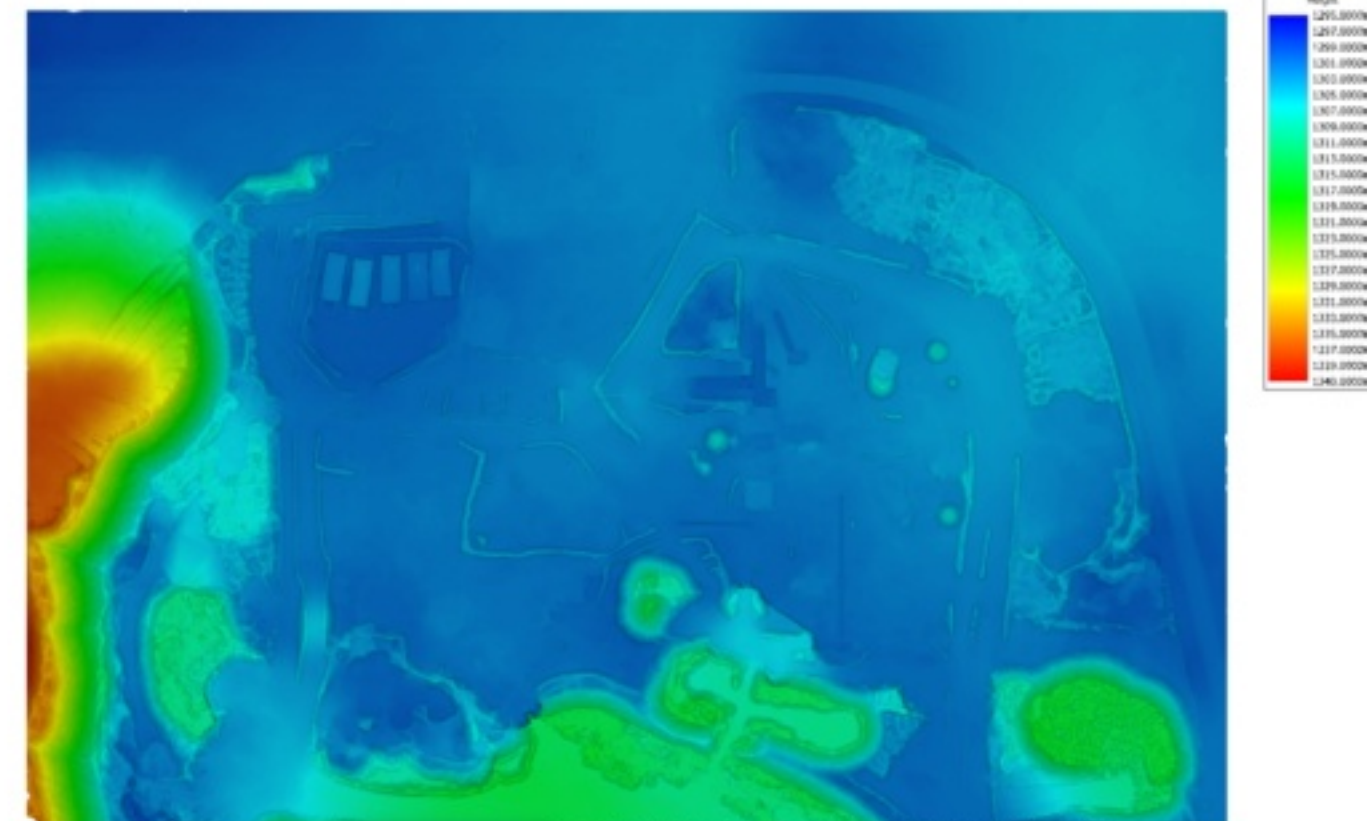
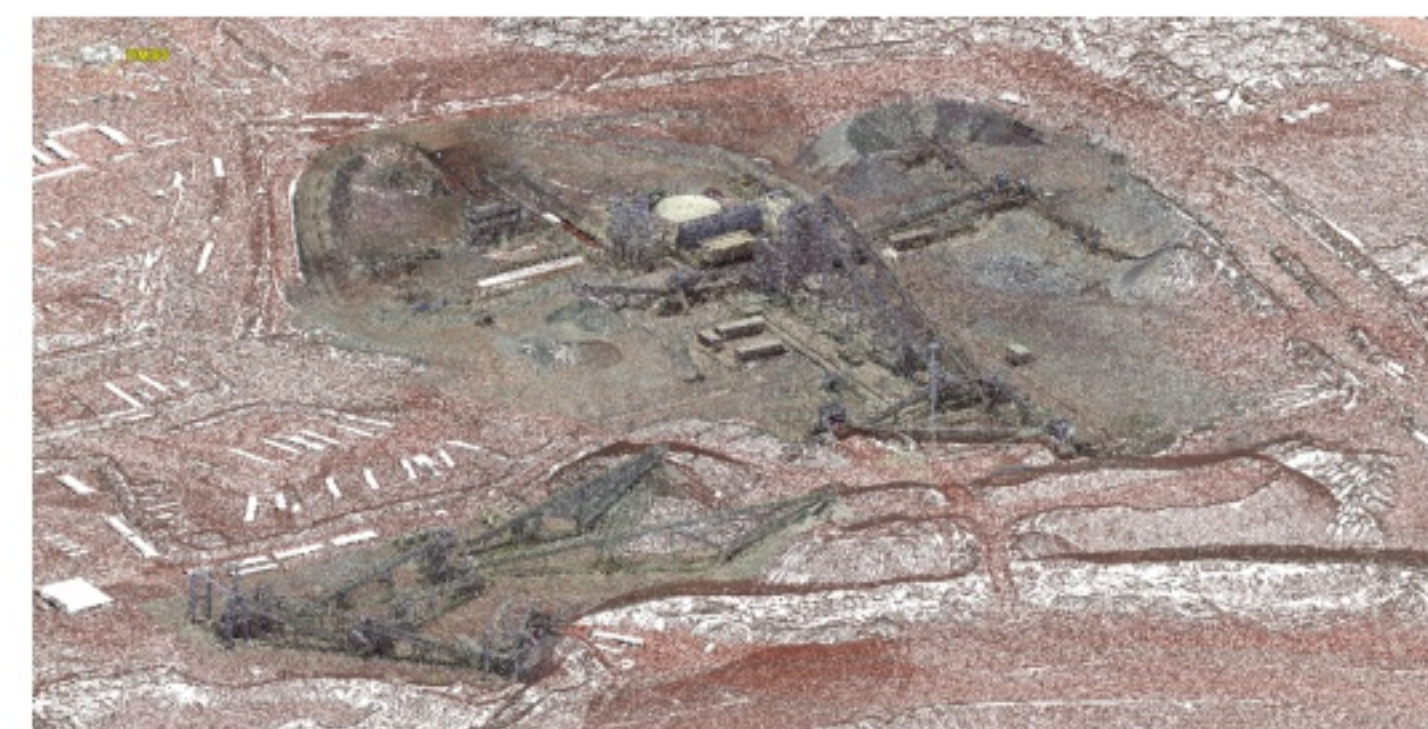
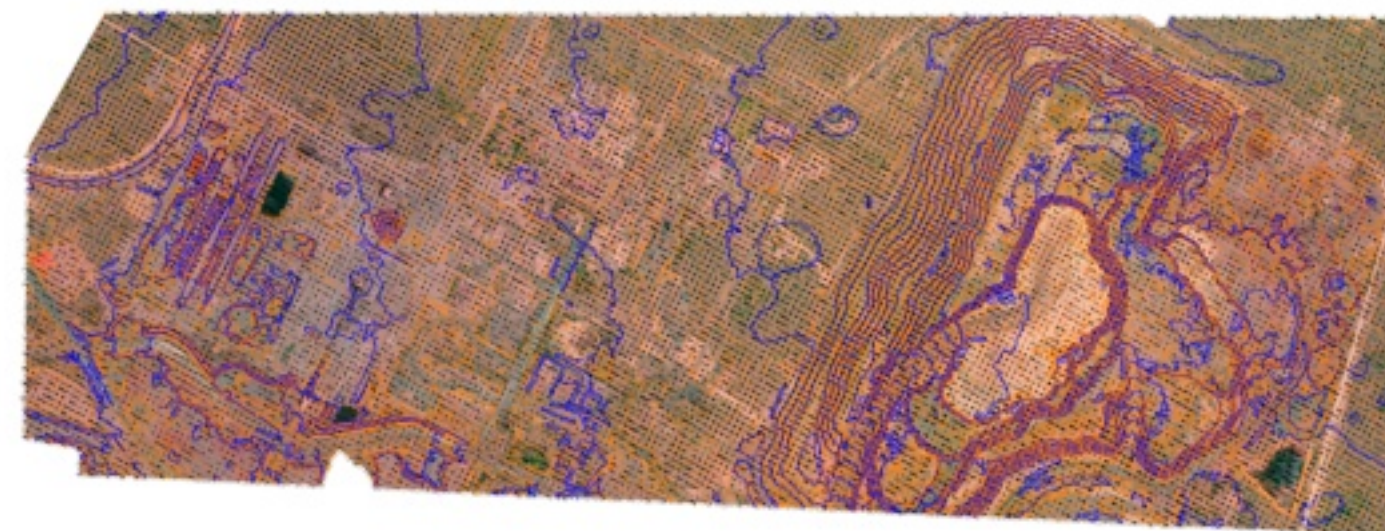


RedPath Underground Services Marketing Video Animation



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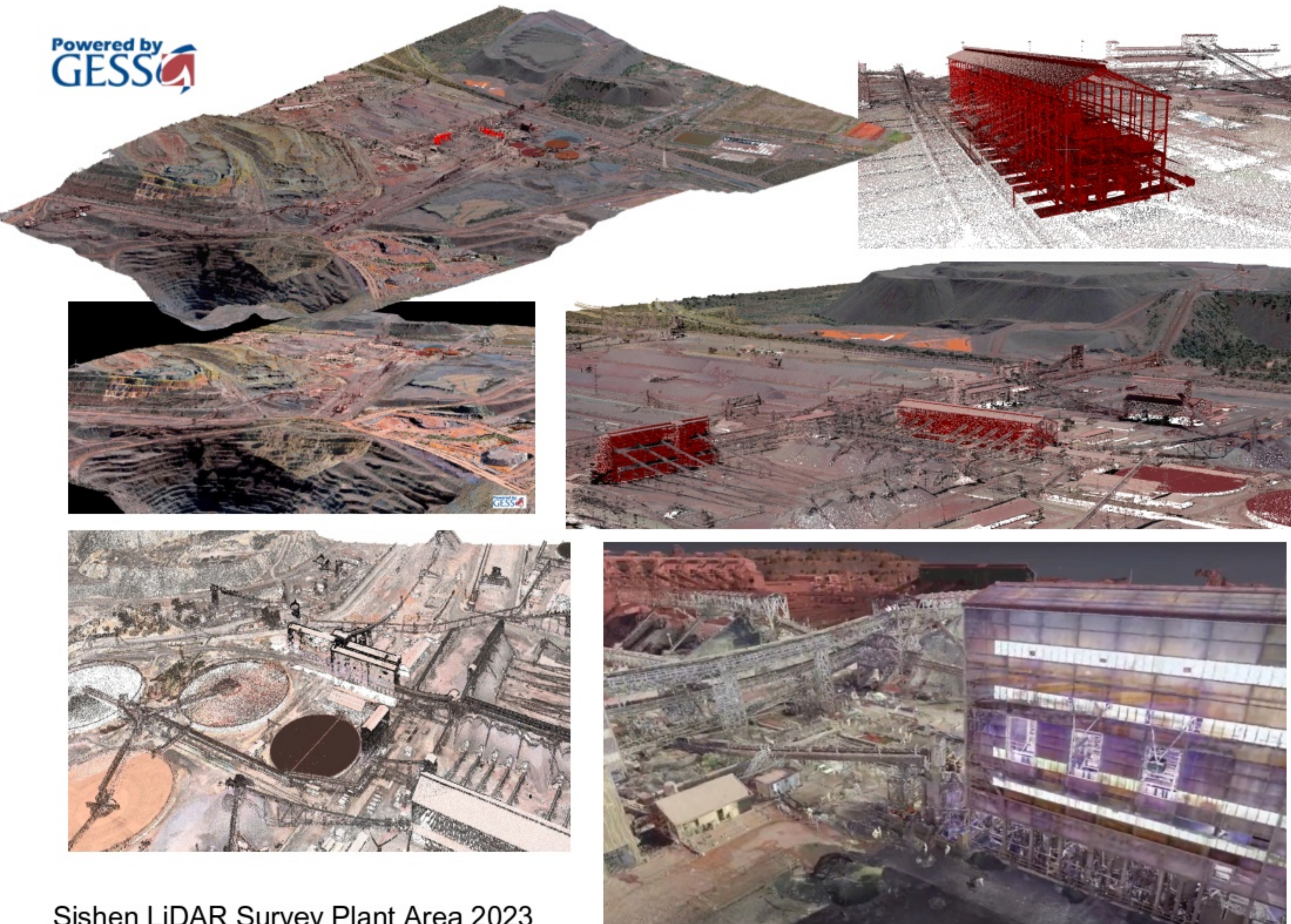
South Concentrator Crusher Inner Shell 3D Scanning , Modelling and Surface Analysis



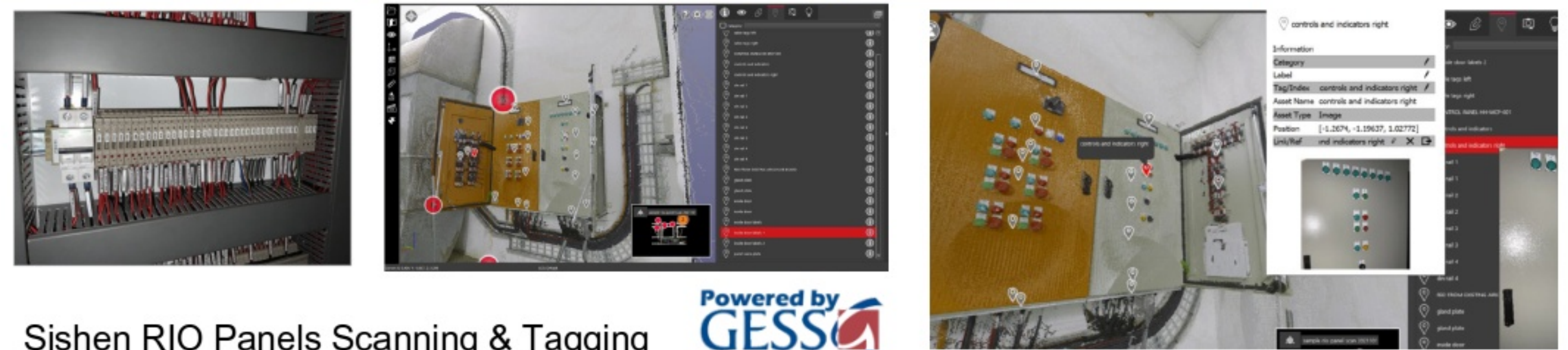
Kolomela LiDAR Survey 2021

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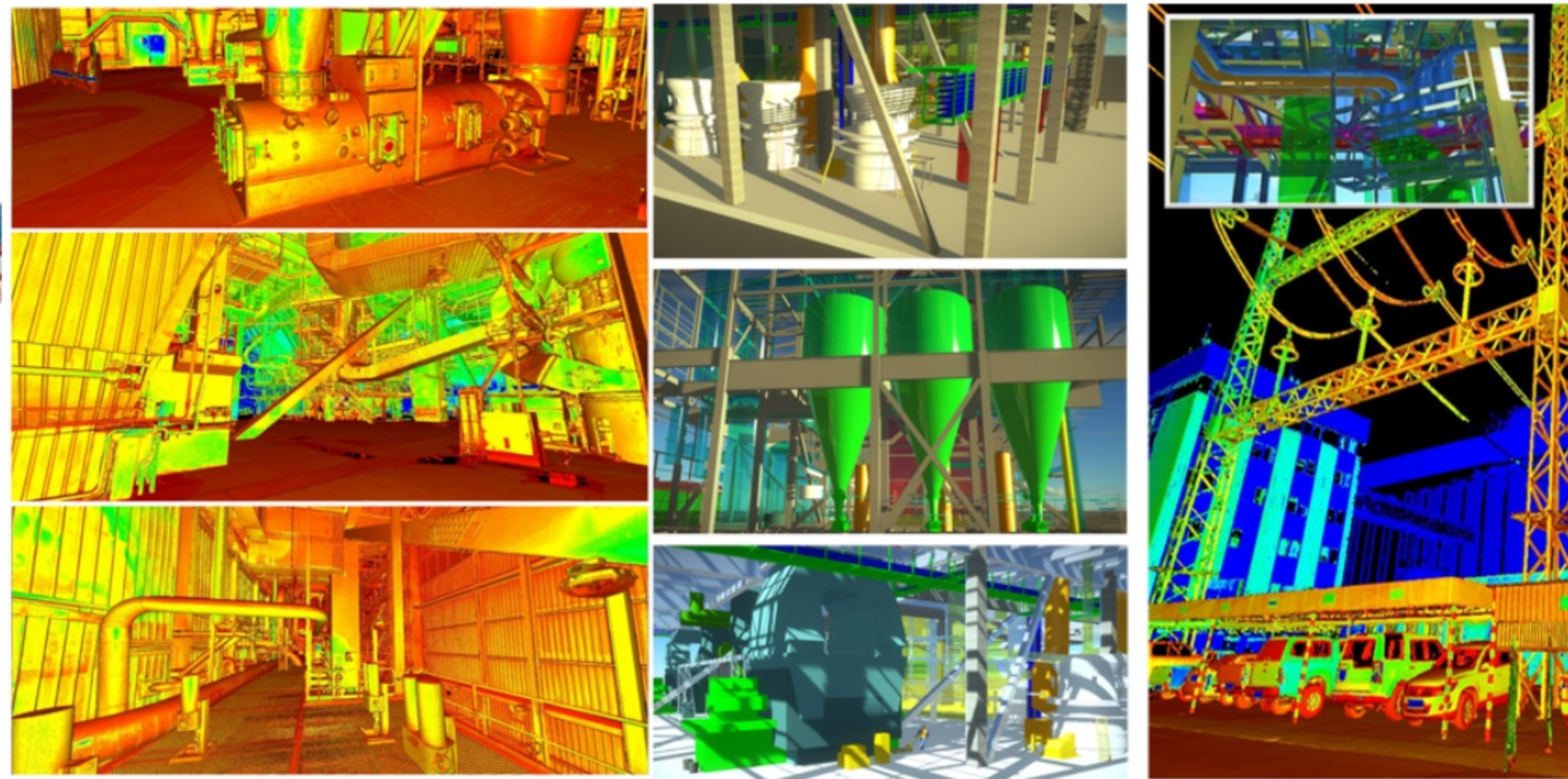
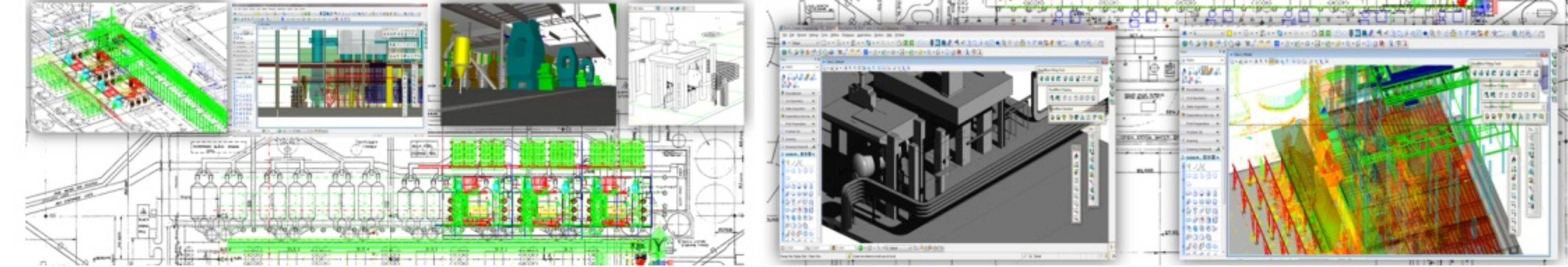
Sishen LiDAR Survey Plant Area 2023



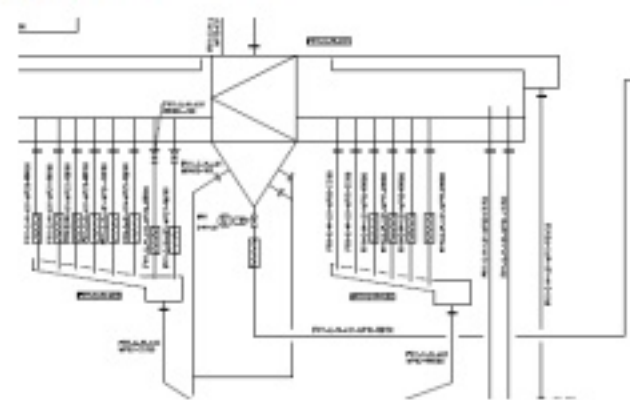
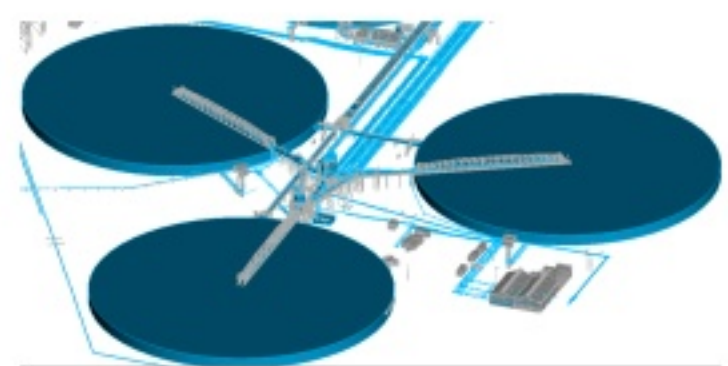
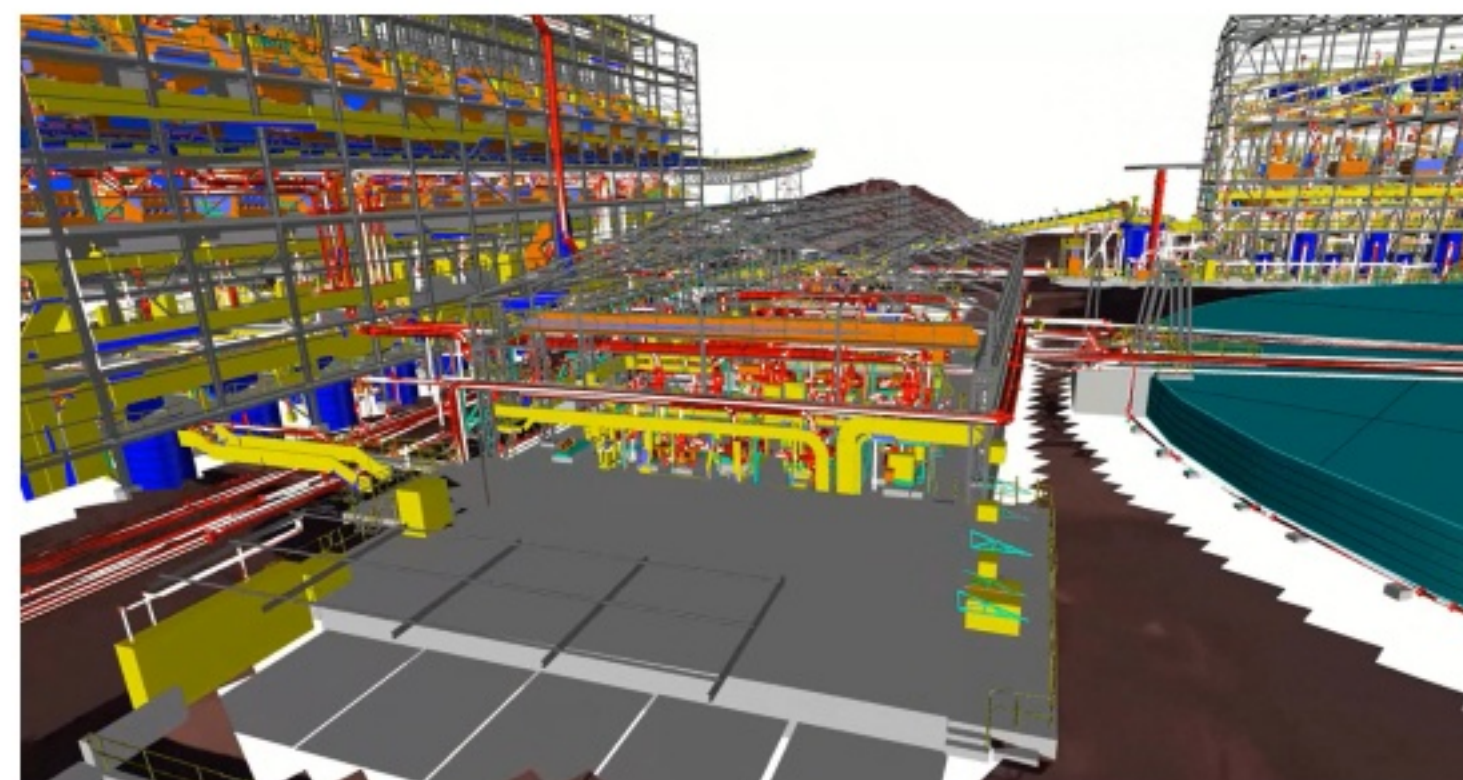
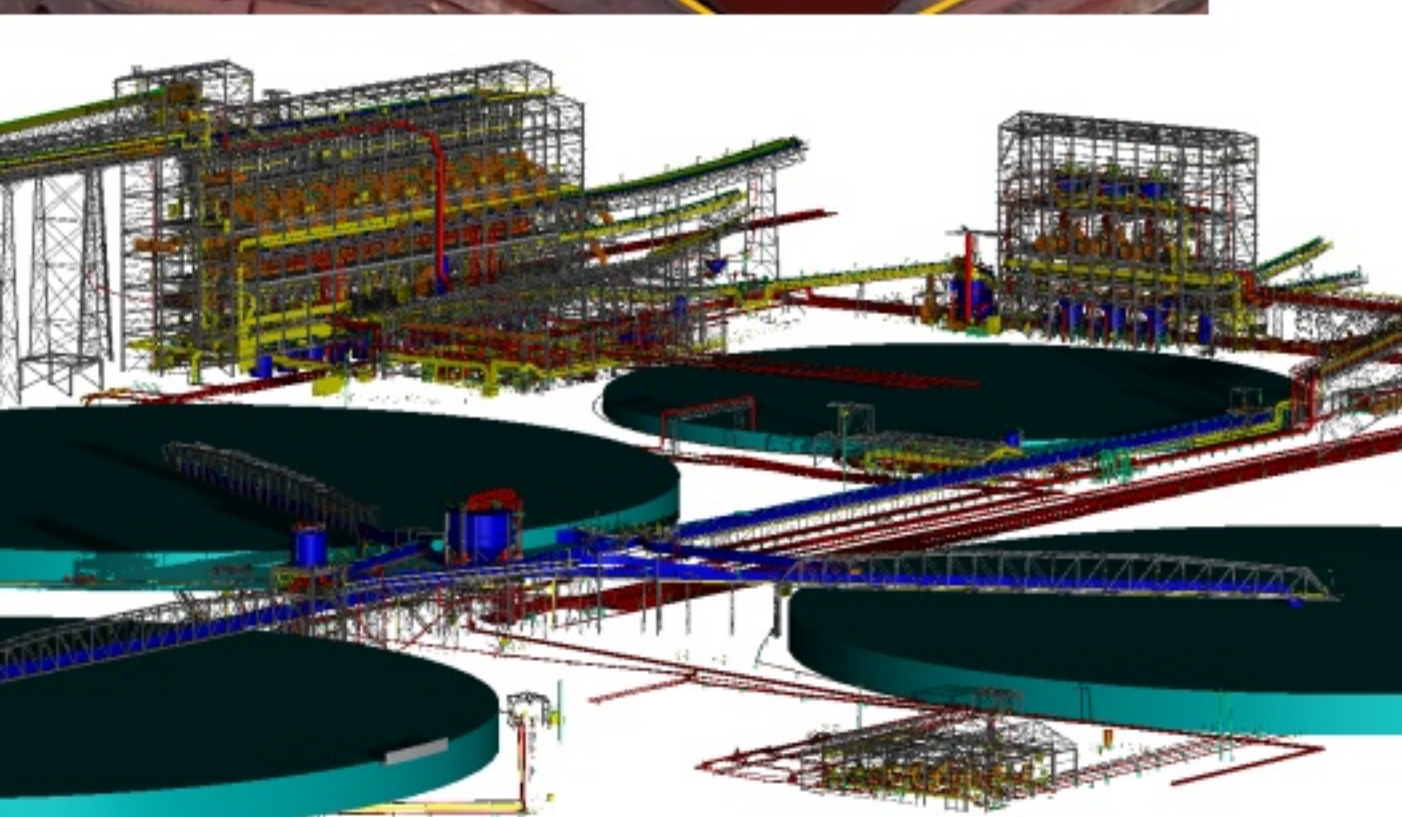
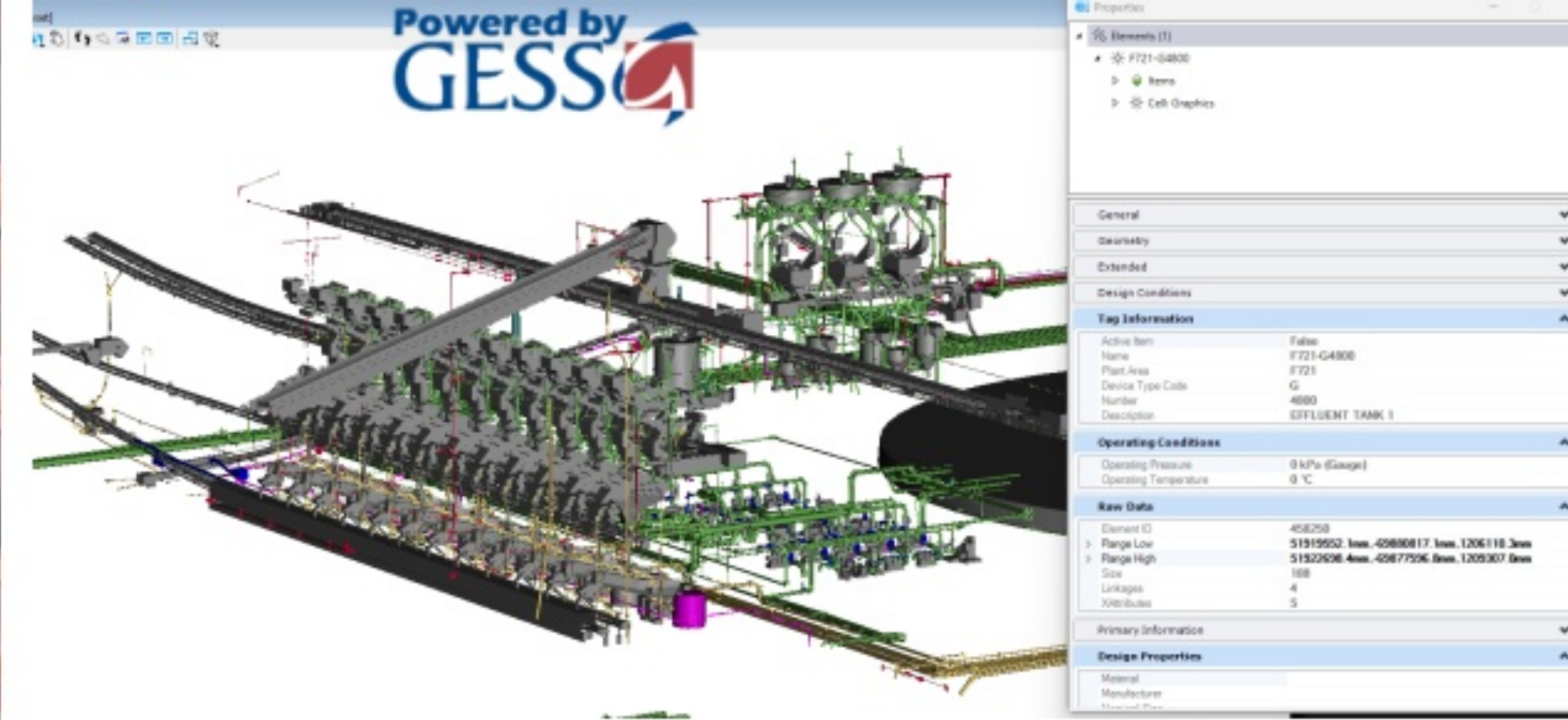
Sishen RIO Panels Scanning & Tagging



Standard Bank Content Management Solution



Power Station 3D Scanning and Reverse Engineering Digital Twin



Sishen Washing & Screening Plant Intelligent 3D Modelling: Digital Twin



Welcome to Rand Water Wayleave Management System

You are now on Rand Water WayleaveCentral. This web site is dedicated to managing Wayleaves and Way Applications for Rand Water. A guide of what to do is available below.

This site was designed to be used by Professional Engineers during Engineering Design for Planning Design and Construction.

To follow up or for queries you can contact
Lindiwe Gamede - Office no 011 682 0962, Email: lgamede@randwater.co.za

For escalations you can contact
Cwengile Ma-awu - Civil Technologist, Office no. 011 682 0649, Email: cmaawu@randwater.co.za
or Zesha Ramrathan - Civil Technologist, Office no. 011 682 0134, Email: zramrath@randwater.co.za
or Peleka Mashele - Manager, Office no. 011 682 0260, Email: pmashele@randwater.co.za

For outgoing wayleaves you can contact
Portia Kubheka - Building Projects Clerk, Office no. 011 682 0773, Email: pkubheka@randwater.co.za

Application Process

- Getting Started**
First you need to get registered on this web site, by clicking on the Register link above. The registration process will require a valid e-mail address, to confirm a communication channel to you. When you completed the registration, a confirmation e-mail will be sent to you to complete the process.

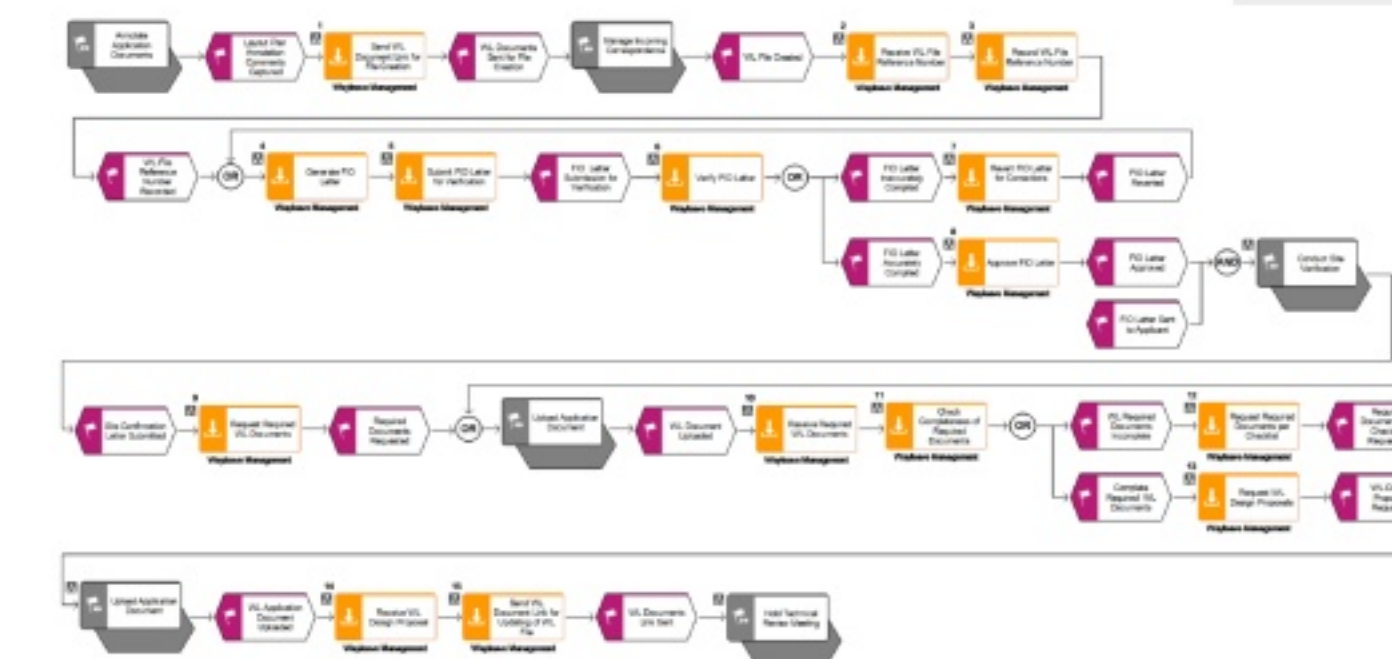
At your first log in you will be prompted to complete your profile that involves capturing the details of the business entity that you work for as well as any professional registrations that you may possess. Please be aware that your business entity requires at least one professional engineer associated with it for the application process to proceed.

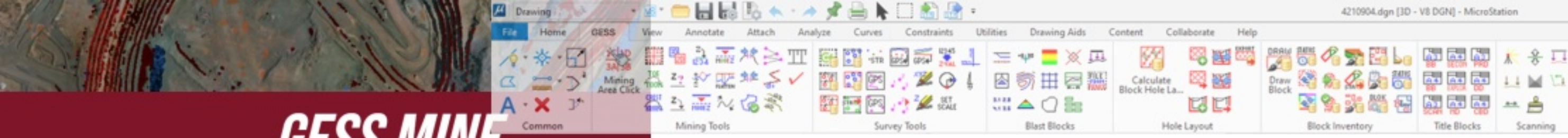
All other functions require you to be logged into the system.
- Add an application**
Once you have registered you can fill in an application for a Wayleave by using the Applications option in the menu that is presented after you logged in. This option will open a screen that will list all of the applications that you have submitted, or are in the process of submitting. You can return to this page at any time, to see what the progress is, or to add or edit information on the application.
- Required Documents**
The system will attempt to guide you through the documentation requirements for each phase of the application process. The documentation requirements become more onerous as the phases progress towards the final phase. Please submit as detailed as possible information, as this will assist the application reviewers to process your application faster.

The following is the initial documents required for the creation of an application
 - Detailed Wayleave Application Letter
 - Locality Plan
 - Google Earth KMZ File
 - Layout Plan
- Process of approval**
The following is a brief run down of Rand Water's process for approvals of wayleaves:
 - Applications will be reviewed and digitally stamped. A notification will be sent on the status of the wayleave within 7 working days.
 - An annotation of the application will be done by Rand Water showing how Rand Water services and infrastructure is affected.
 - A file will be opened for application records.
 - A FOR INFORMATION ONLY letter (FIO) will be sent out to the applicant to do investigations and cross out investigations.
 - The applicant to schedule a site meeting with the district superintendent (Rand Water Personnel) to identify the affected areas.
 - Any comments made on site must be filled in on the last page of the FIO letter and signed by both Applicant and District Superintendent and returned to Rand Water.
 - The applicant to submit a design report and required documents as per ANNEXURE A checklist (The annexure is issued with the FIO letter from Rand Water).
 - The complete submission will be reviewed and if accepted a wayleave approval will be granted.

Applications may take up to 3 months to complete
- Application Phases**
Your application will go through up to 3 phases.
 - Review** - The phase during which the application has been created and the initial review of the application is conducted.
 - Processing** - The phase during which the relevant processing and reviewing occurs with the application as required. Site verification will also occur during this phase. The approval or rejection of the wayleave will conclude this phase.
 - Post-approval** - The phase during which the monitoring of the construction occurs after which the as-built documents are submitted, and the wayleave is finalised.
- Reference Links**
Add New Document

Reference / Drawing Number	Name	Description	Version	Accept Terms and Conditions: <input type="checkbox"/>
0	Design Review Question List	Design Review Question List	2022-10-18	Resubmit
3.0	Requirements and Standard Conditions for crossing Rand Water services - 31 March 2022.pdf	Standard conditions and terms.	2022/03/31	Resubmit
4.0	Objection Site Confirmation doc.pdf	Site Confirmation Letter	2023/09/18	Resubmit

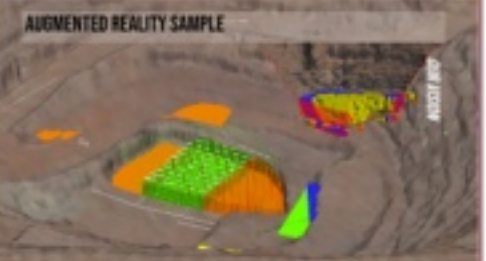




GESS MINE



OUR VISION



GESS MINING TOOLS

- Blast Block Management**
 - Shape
 - Numbering
 - Status
 - Attributes
 - Socket + Misfire Management**
 - Floor Stock Management**
 - Double Handling**
- ENTERPRISE EDITION**
- Month-End Volumes
 - Geology Material Integrat
 - Phase 5 Drilling Planning
 - RC Coverage Calculation
 - Drill Pattern Calculation a Management
 - Reconciliation Tools (Ext Database Rule Based)

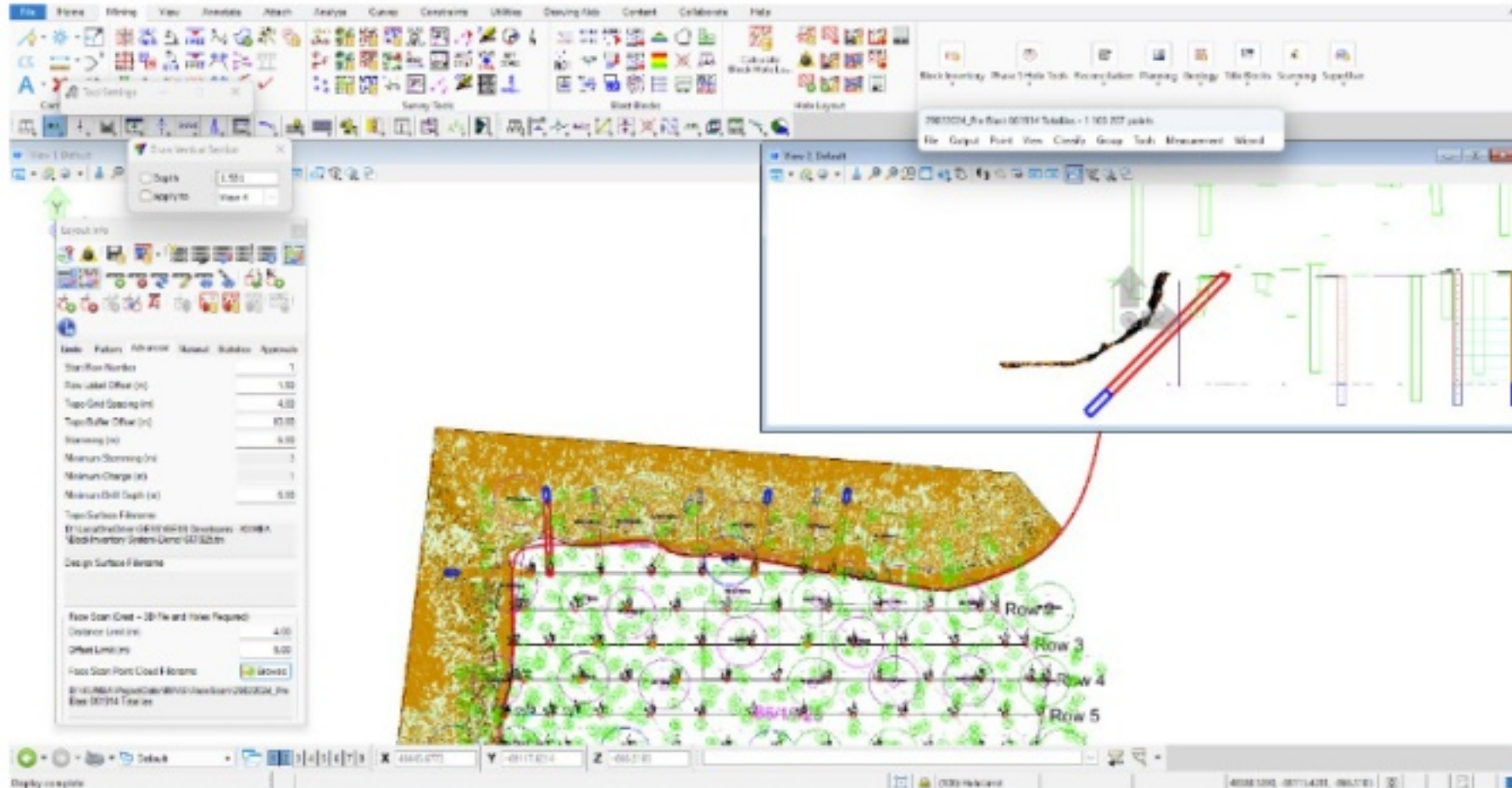
GESS MINE

STANDARDISE - SIMPLIFY - SYNCHRONISE

Our Vision is to create a harmonized, efficient, and data-driven mining operation that benefits both the company and its clients.

GESS MINE enables 3 pillars, **standardise, simplify and synchronize**. Each pillar is self-sufficient and can be implemented independently, each process will add value to the client. Together, they form a robust foundation for success. Once all three pillars are fully operational across the enterprise, the following outcomes can be expected:

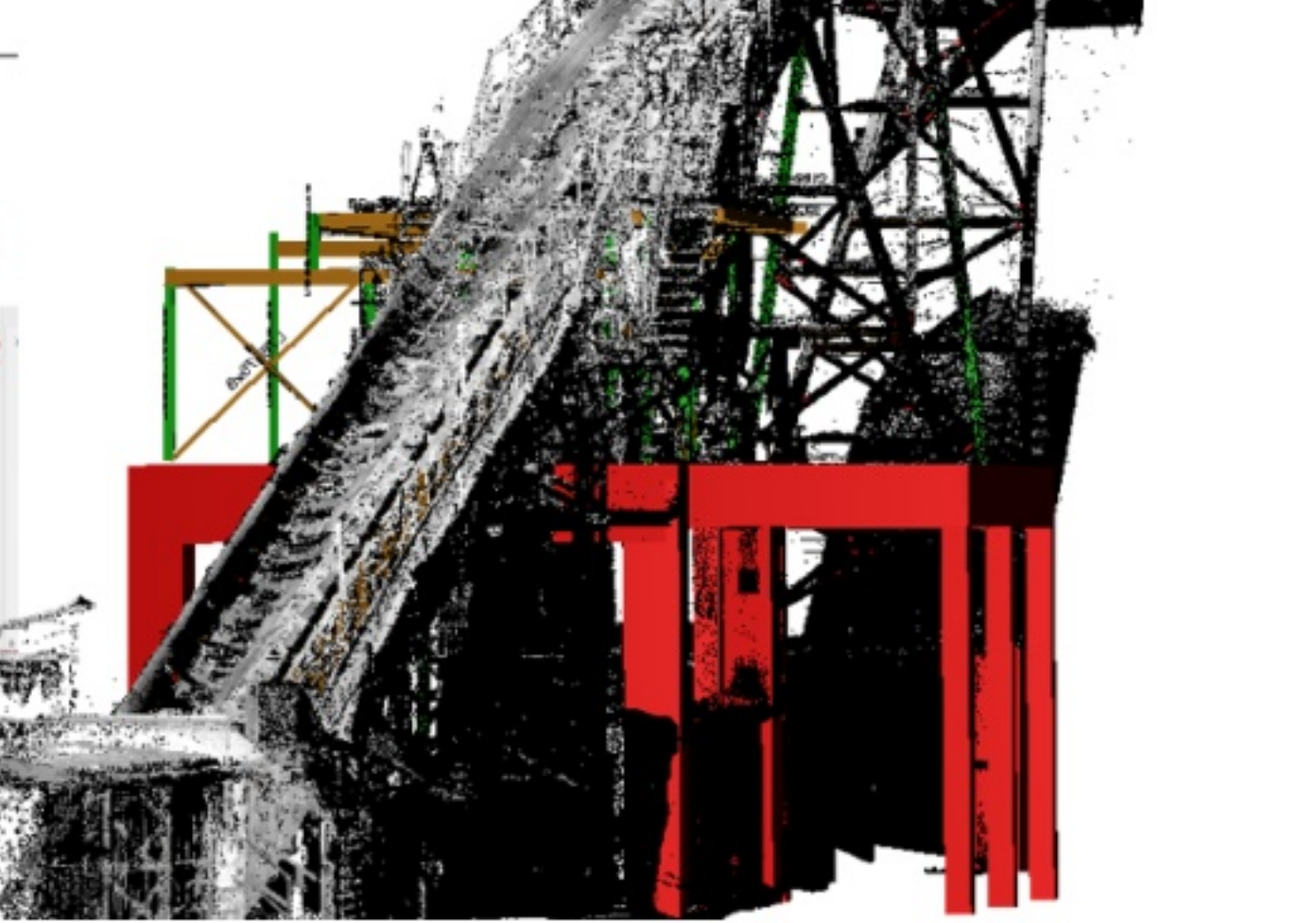
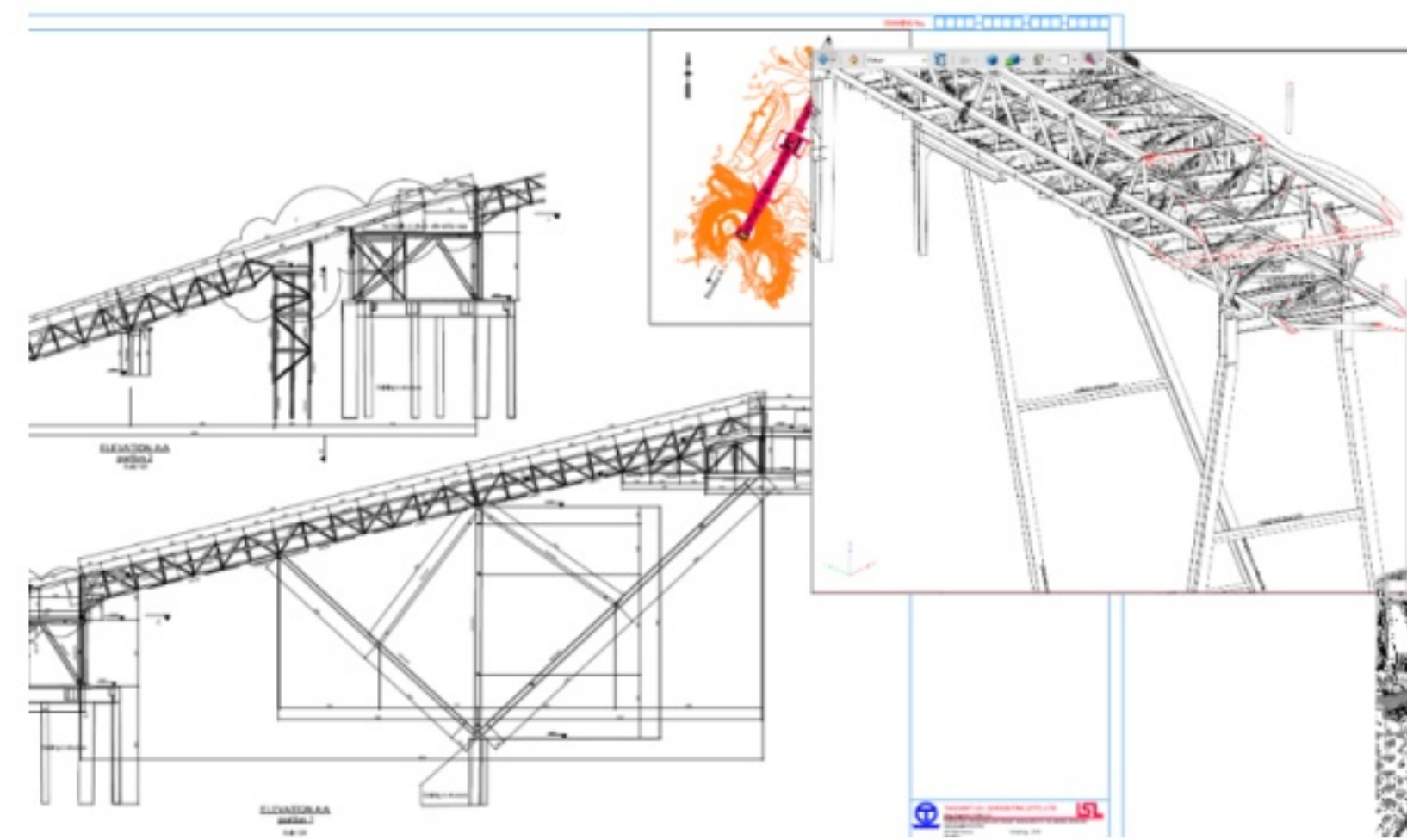
- Real Mining Data:** Accurate and reliable data will be available, providing insights into production, safety, maintenance, and technical compliance.
- Virtual Mining Environment:** A digital ecosystem where stakeholders can access information anytime and anywhere, enabling informed decisions and proactive problem-solving.
- Integrated Data:** Accurate data sharing between technical departments where all data created by a department is available to other departments in real time independent of the domain software they use.



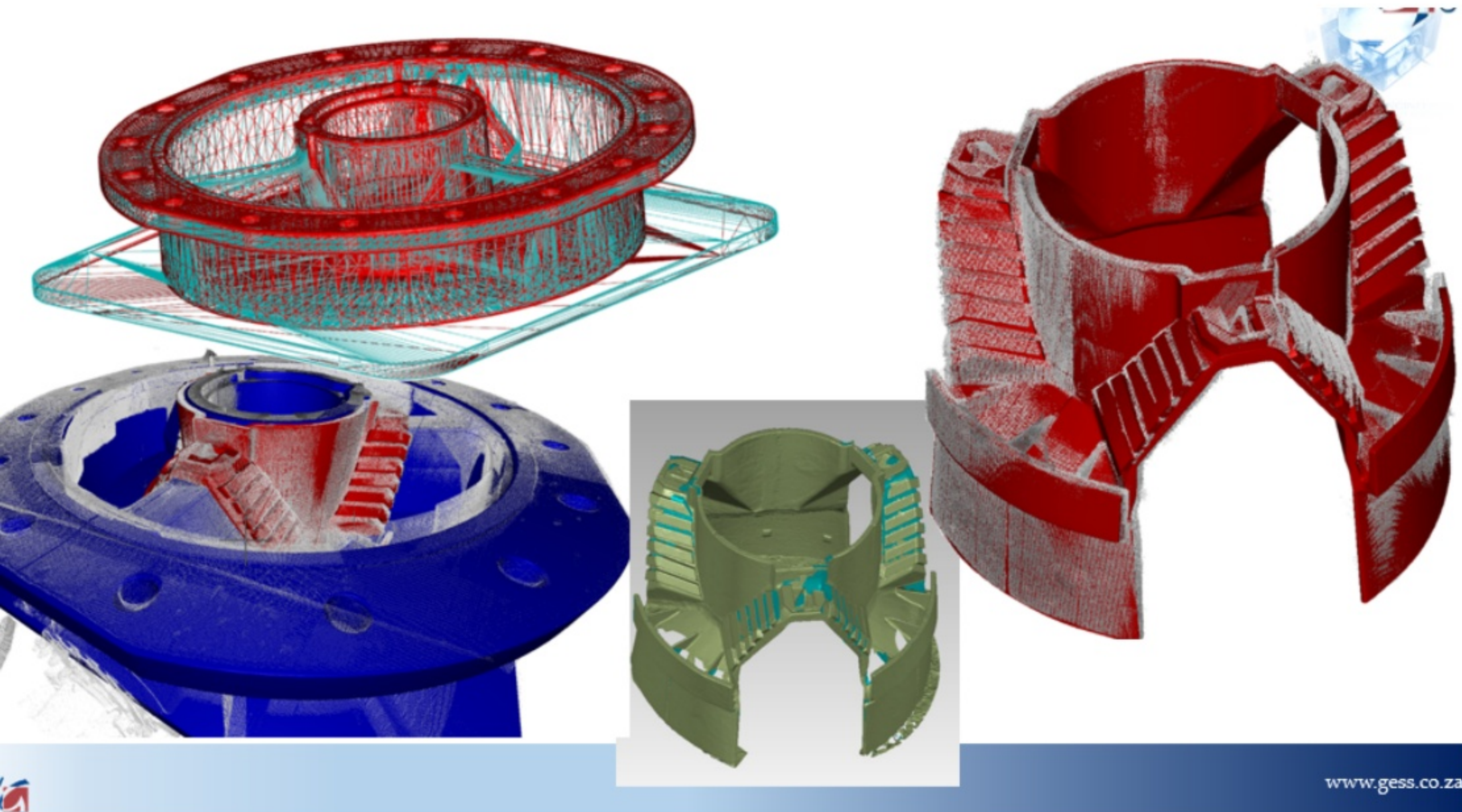
- Interface Survey with Actual
- Integrated to MicroStation v8i
- Block Volume Calculations
- Blast Block Layouts
- Block Database
- Import XACT data
- Importing and auto manipulating Laser scanned datasets
- Exporting Esri Shape Files
- Laser Scanning Procedures
- DME Planned versus Actual Pit Analysis
- Dump to Plan Recon
- Ramp Analysis
- Drape Aerial Ortho images onto 3d surface
- Contours, Spot heights, Sections, Drawings creation
- Utilising multiple cross pollinating Coordinate System



Powered by **GESS** GESS MINE Solution

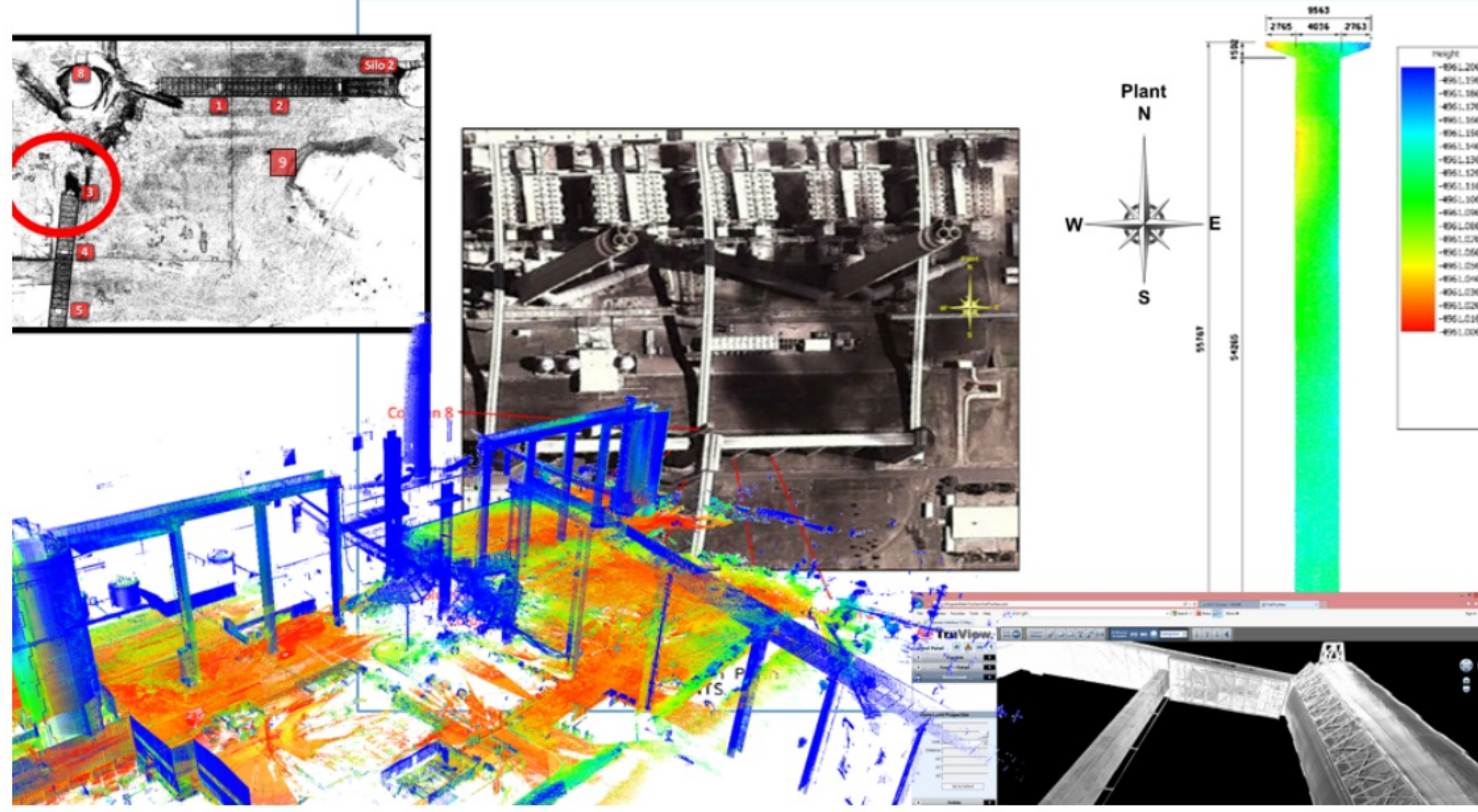


Anglo Coal Greenside Main Conveyor As Built 3D Scanning, Modelling - Reverse Engineering & Drawing Extractions



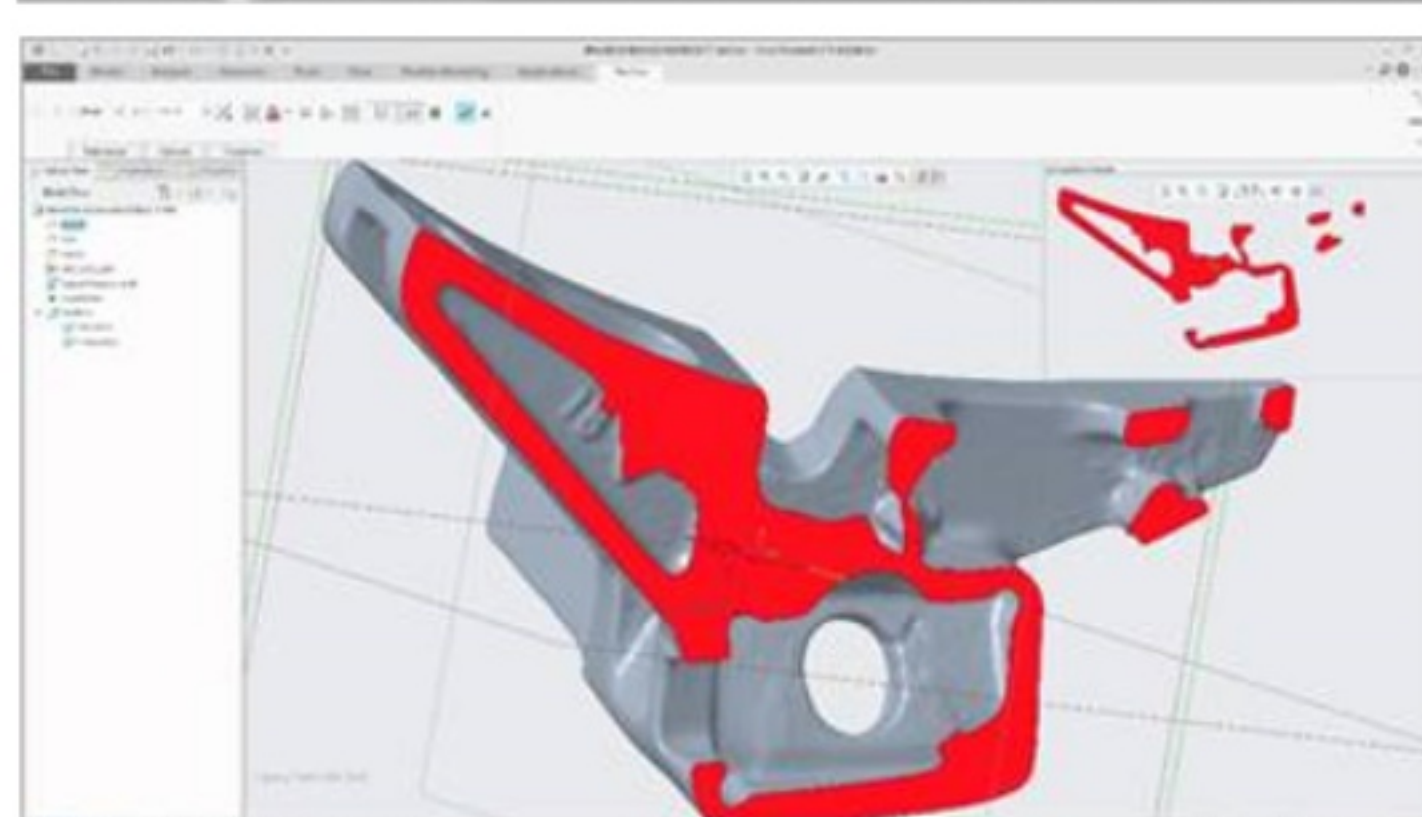
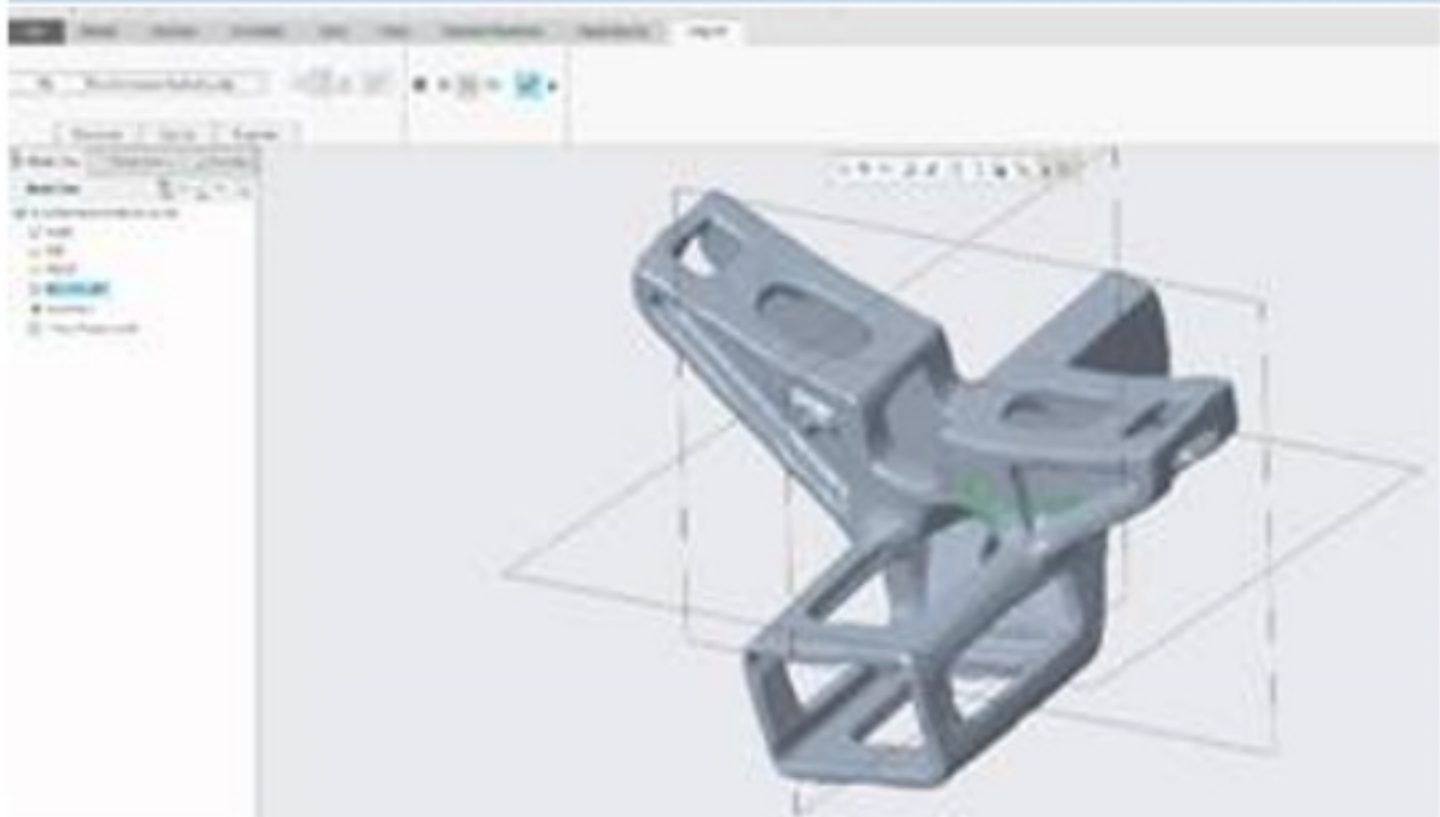
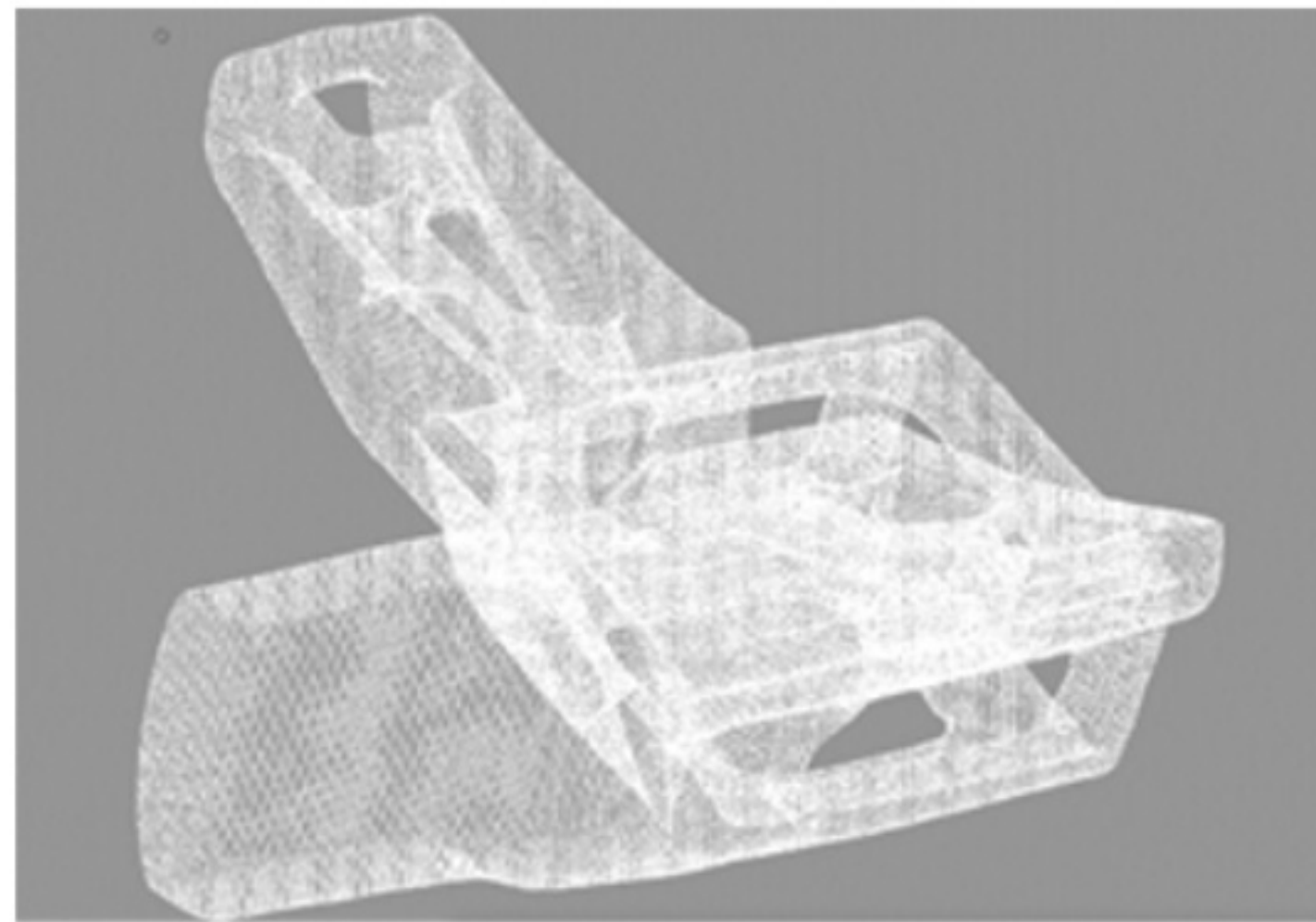
Crusher Gear 3D Scanning, Reverse Engineering and Fabrication design, welding procedures

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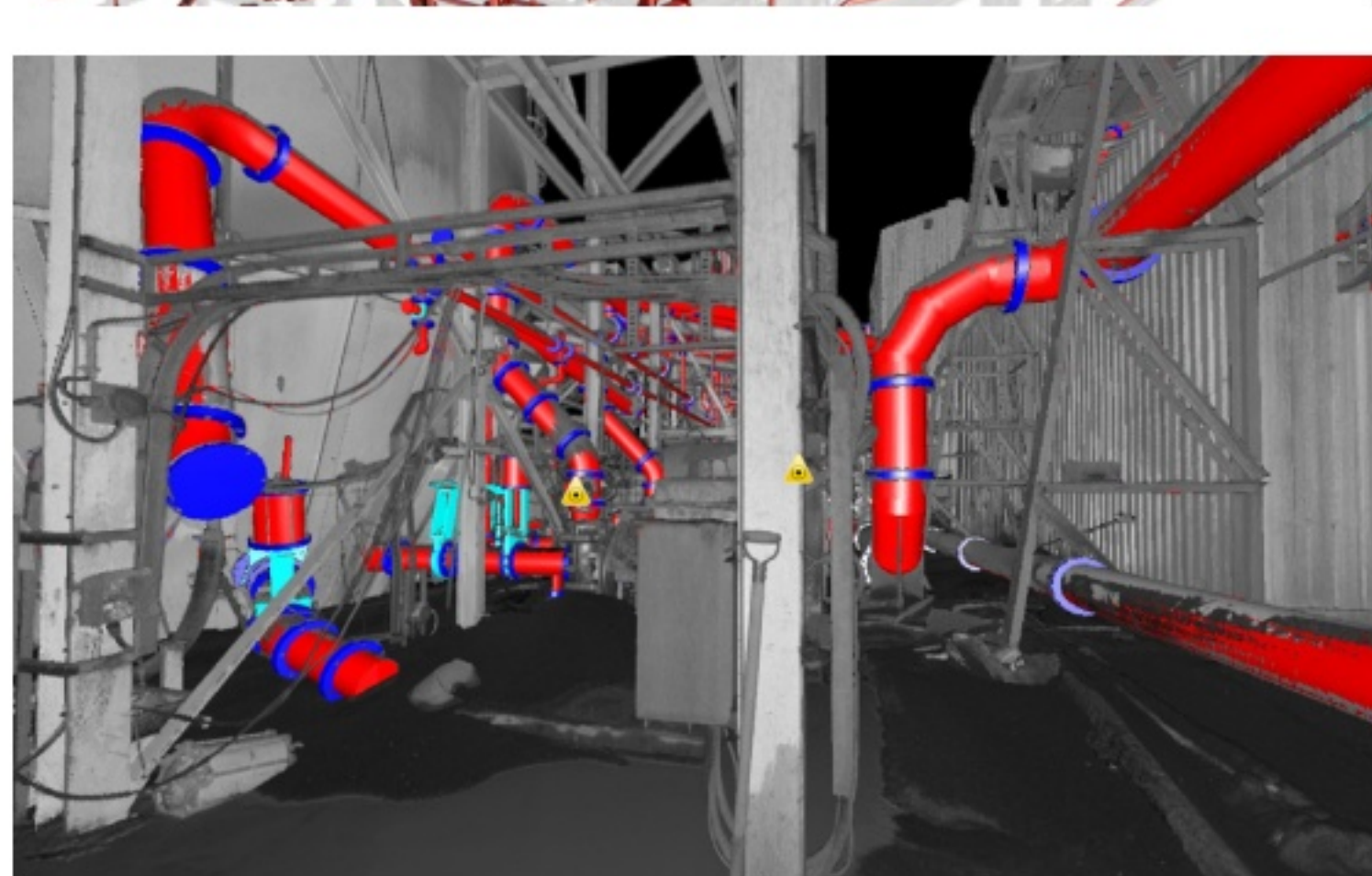
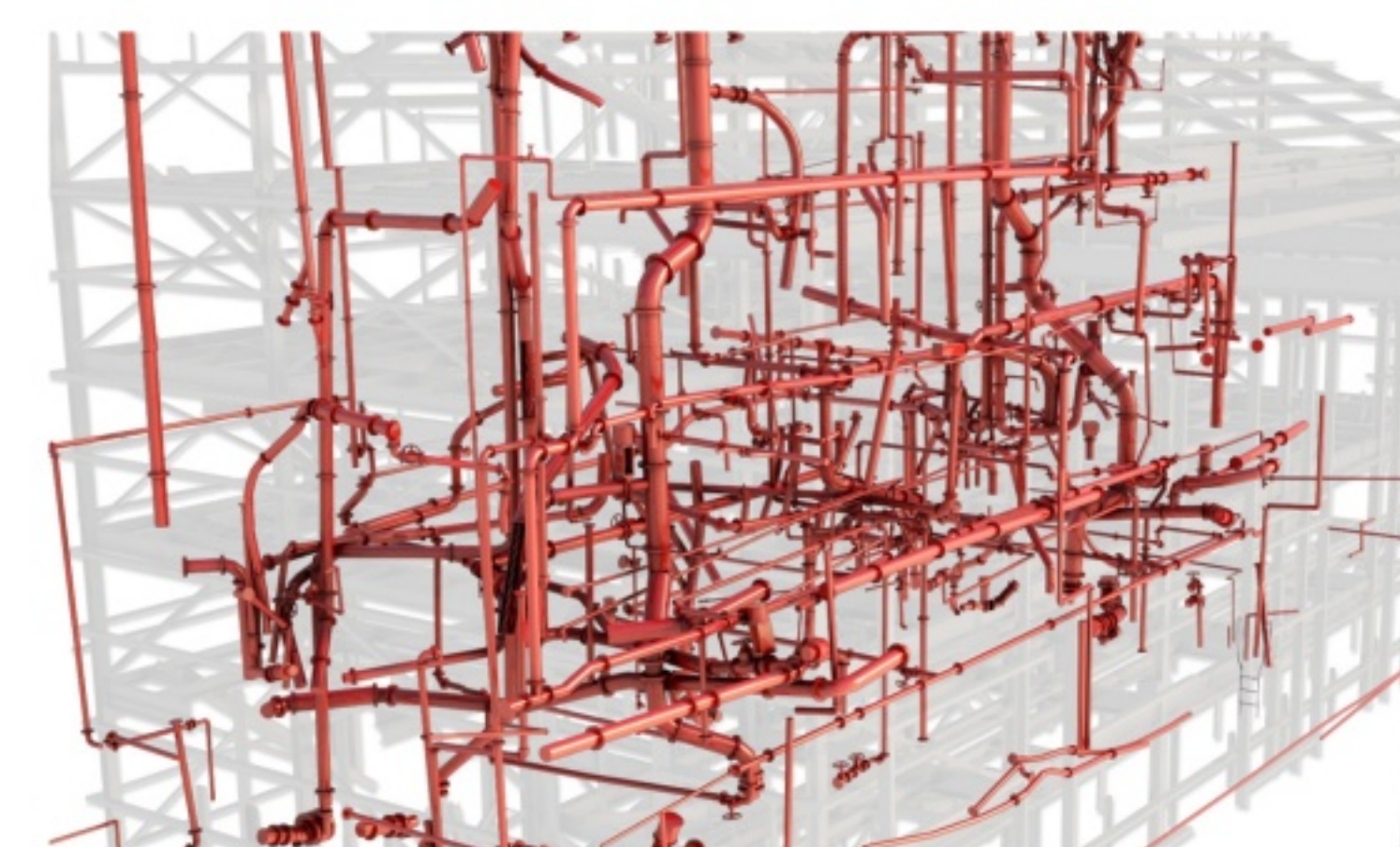
Power Station Incident Assessment: 3D Scanning, Reverse Engineering and Deflection Analysis





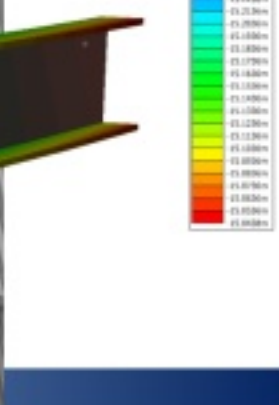
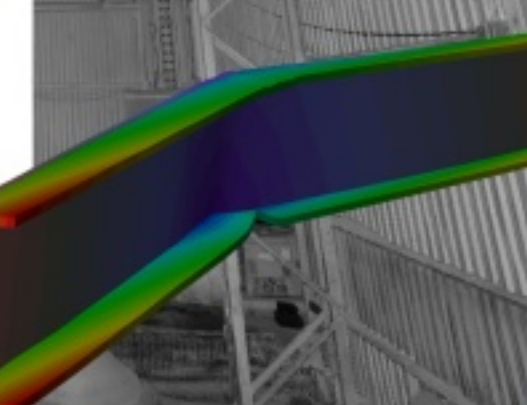
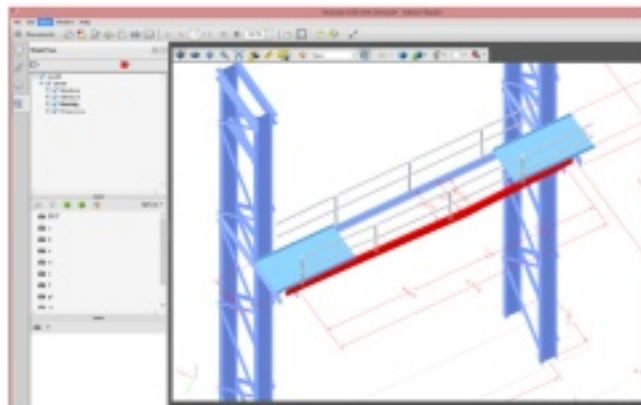
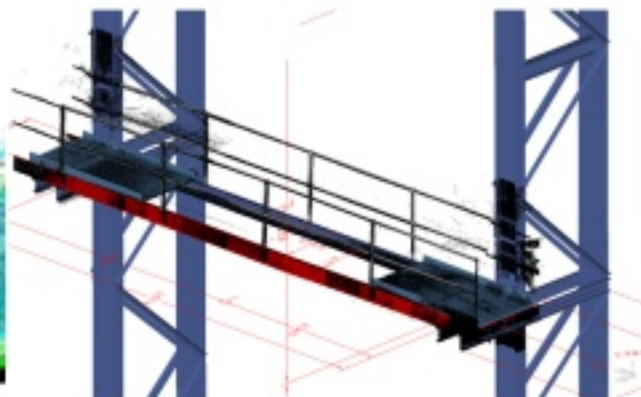
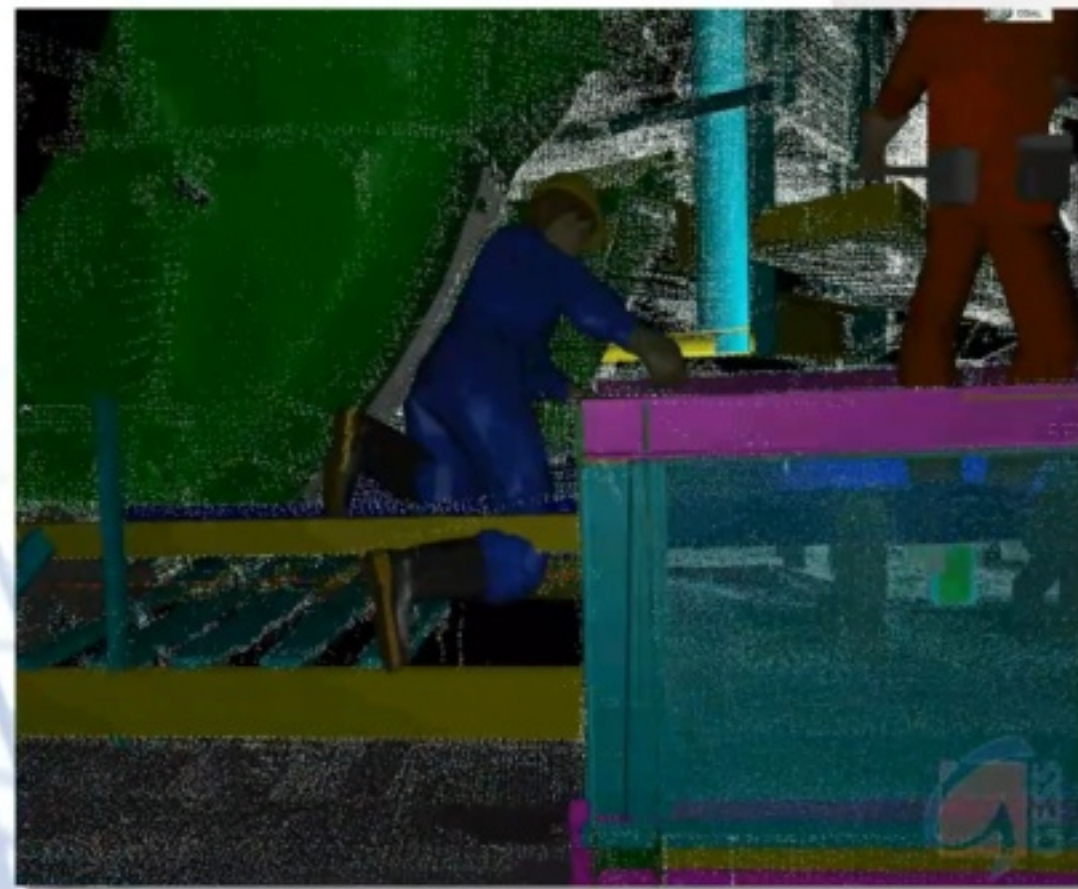
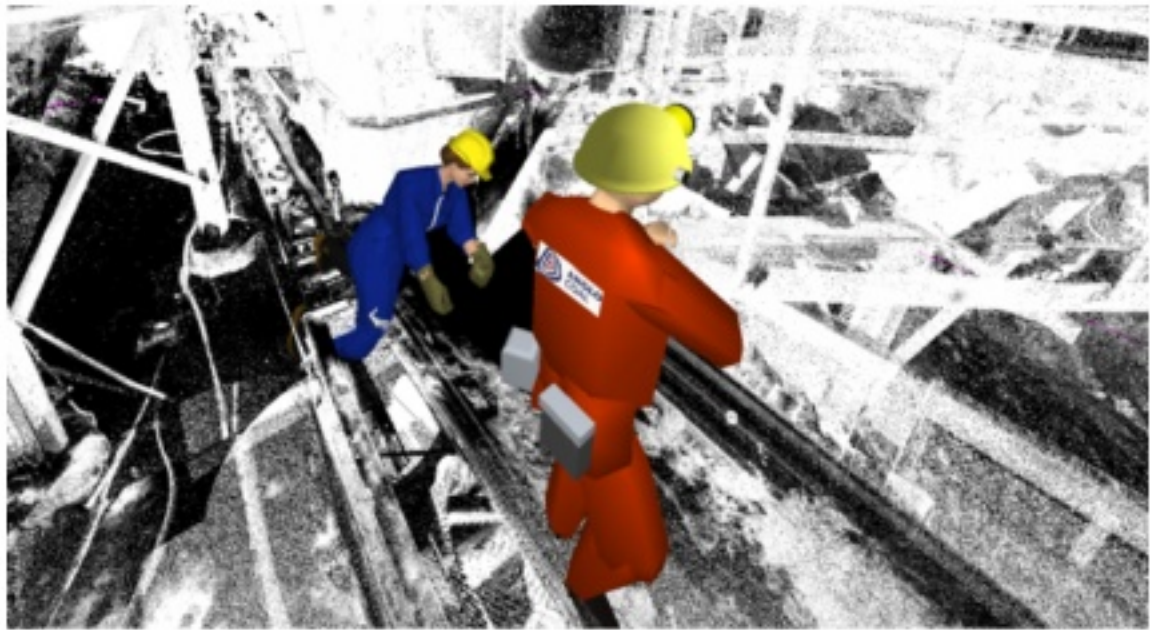
Rail Coupling 3D Scanning, Modelling for Fem Analysis

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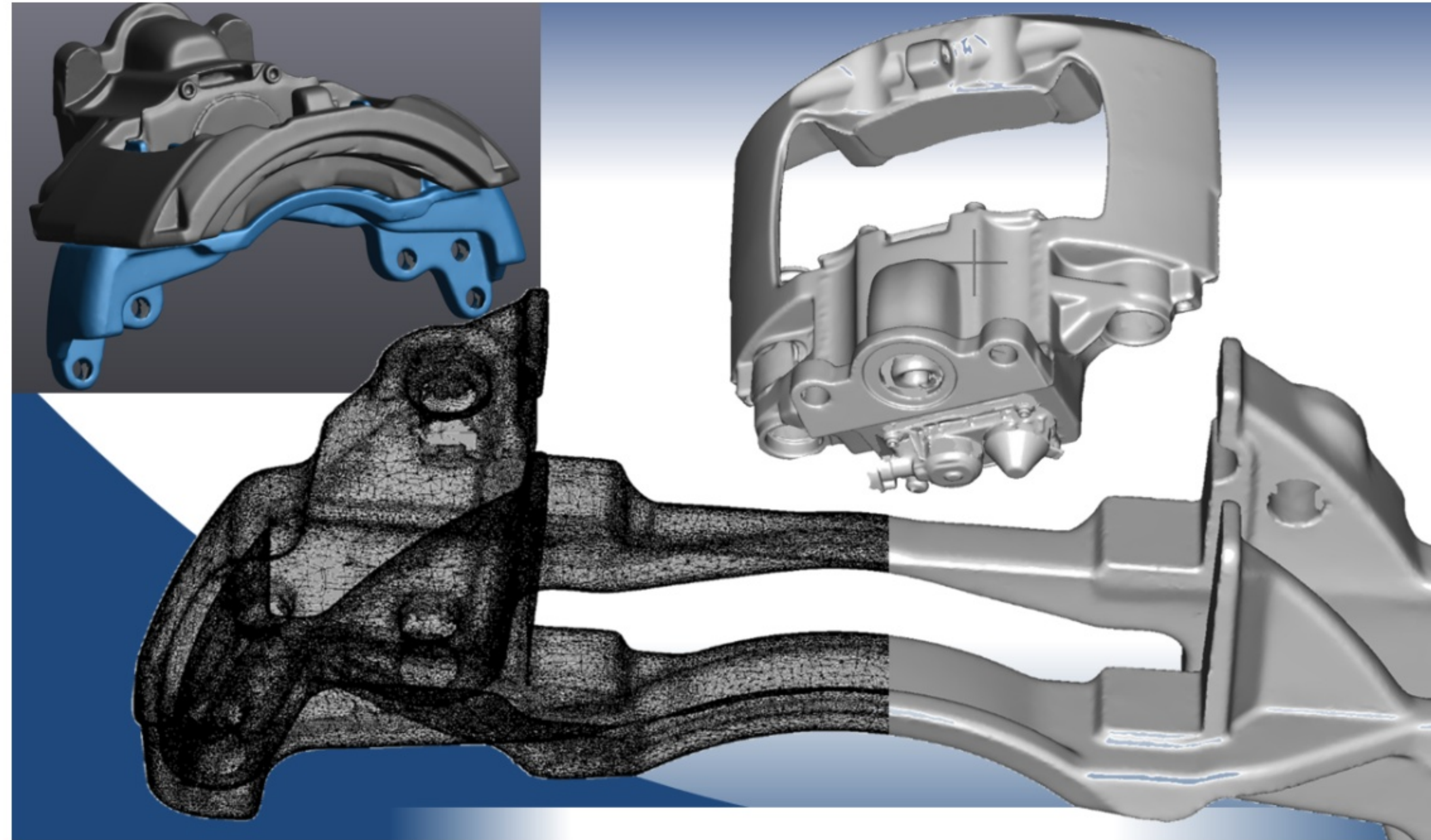


Debswana Piping Process Plant 3D Scanning, Pipe Modelling





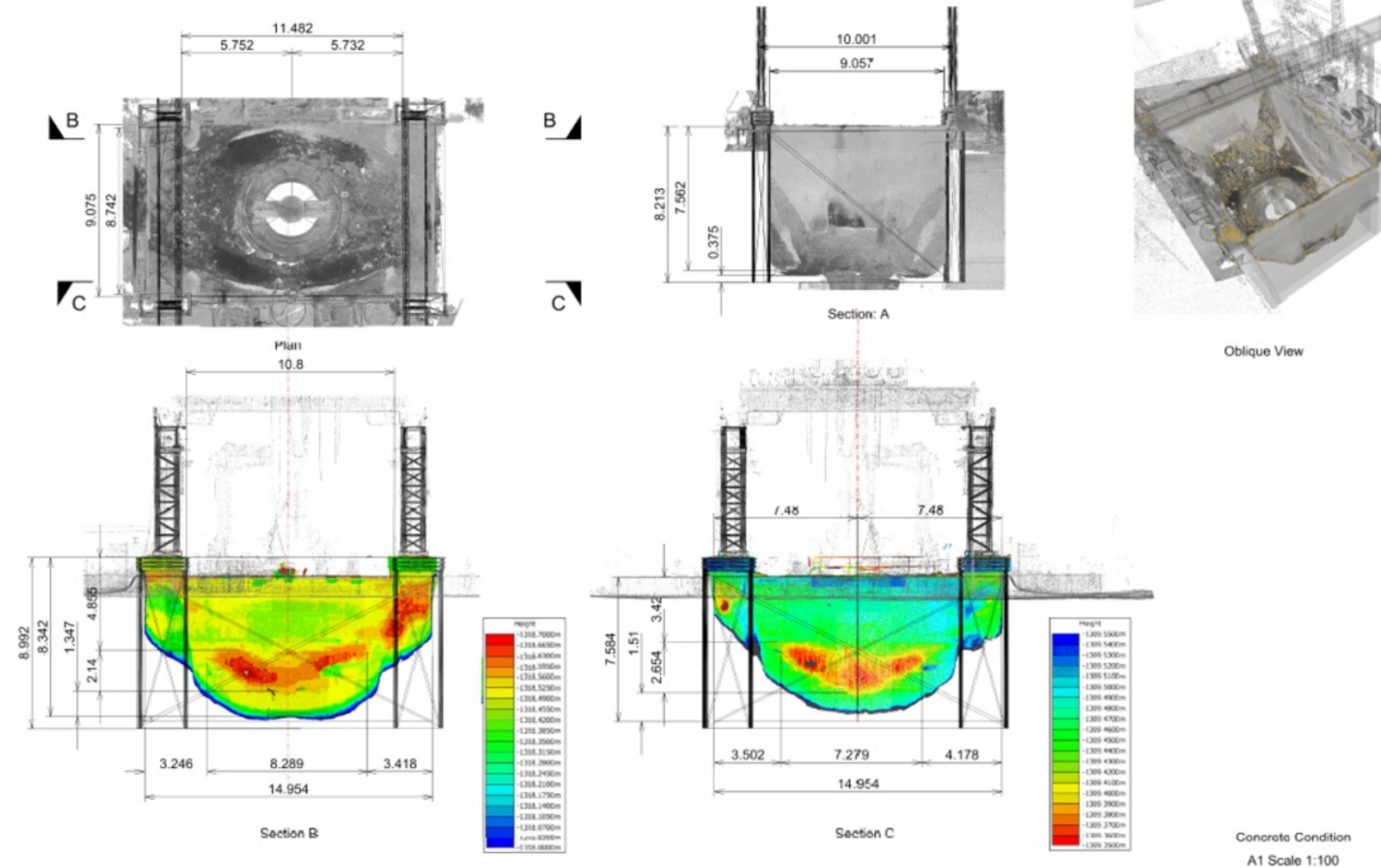
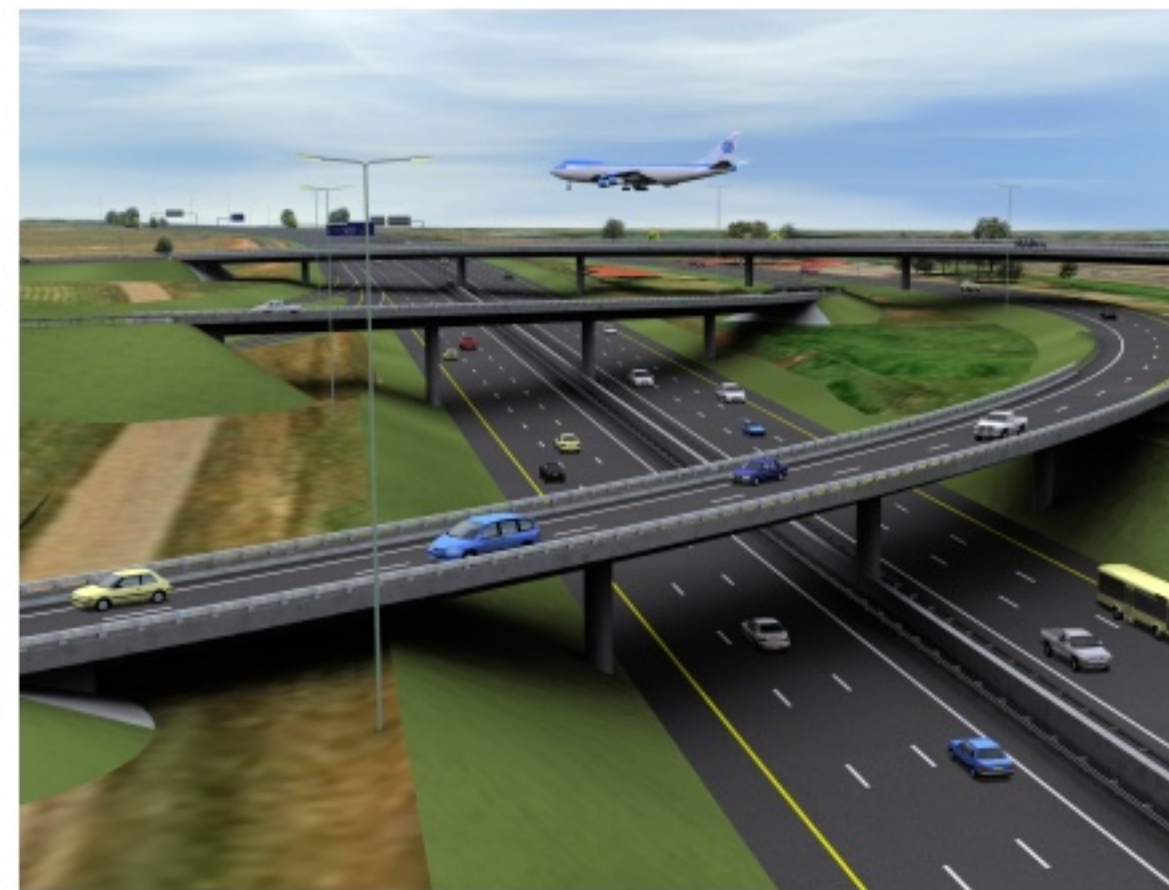
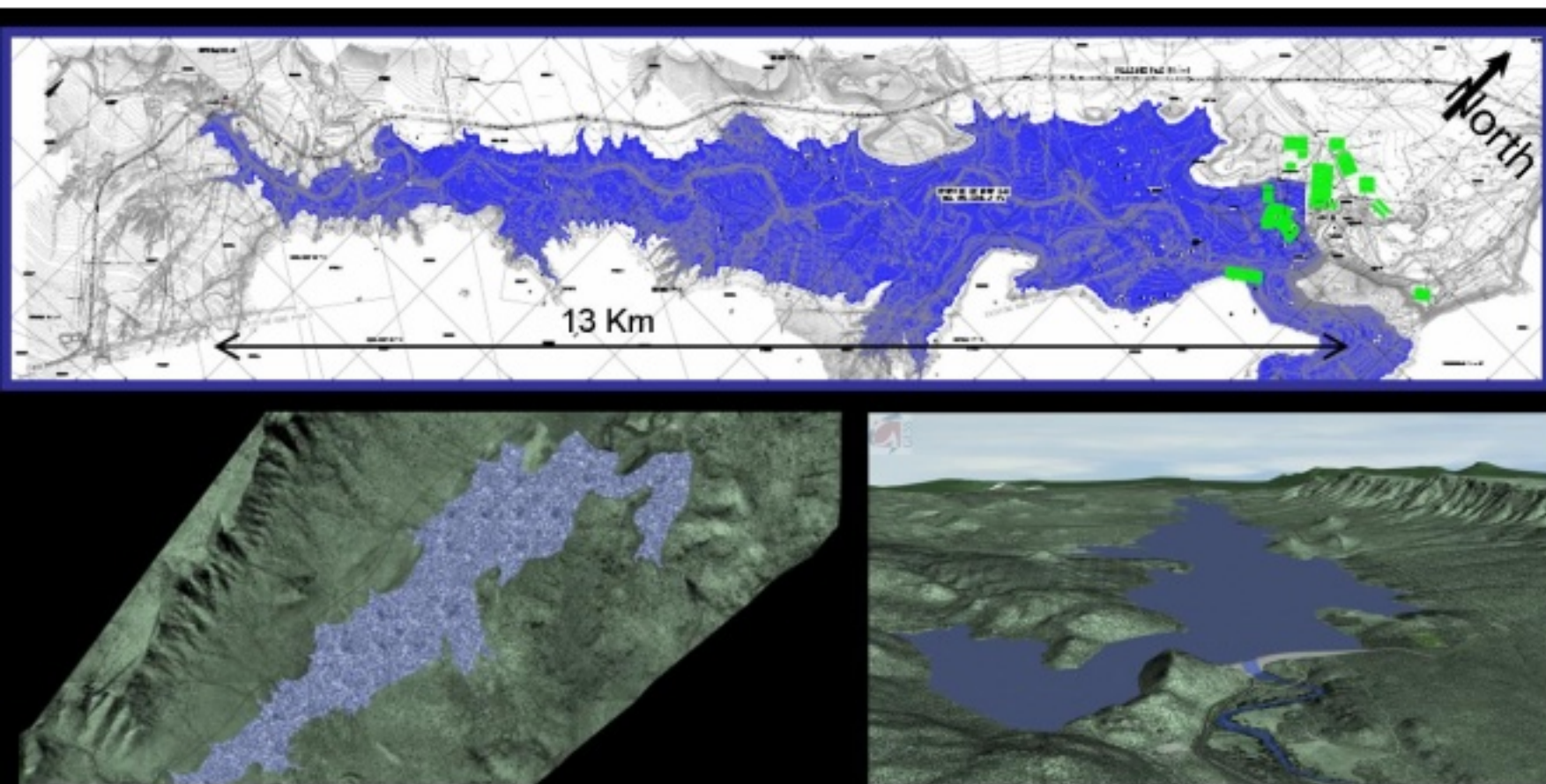
Site Incidents 3D Scanning, Modelling & Animations



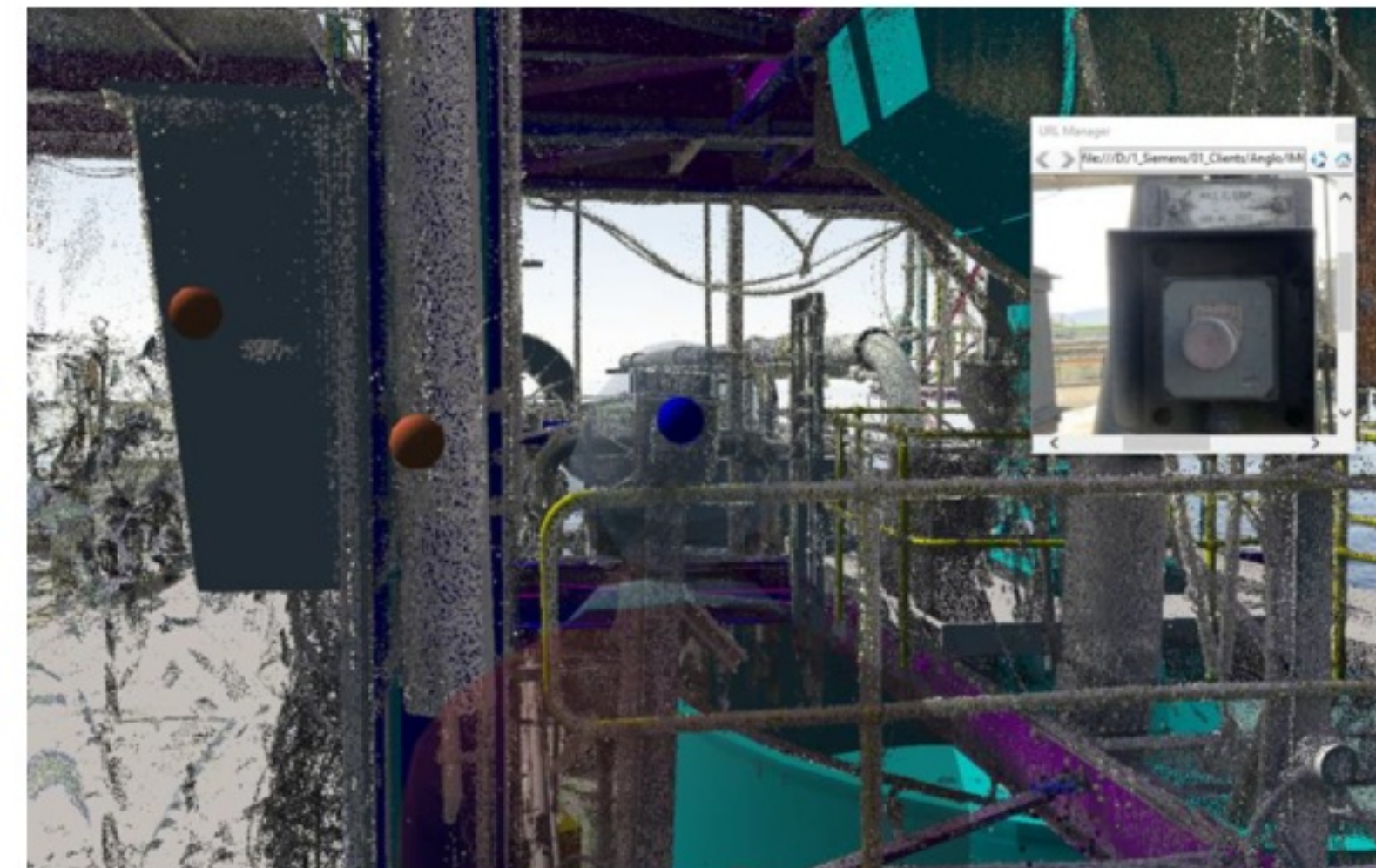
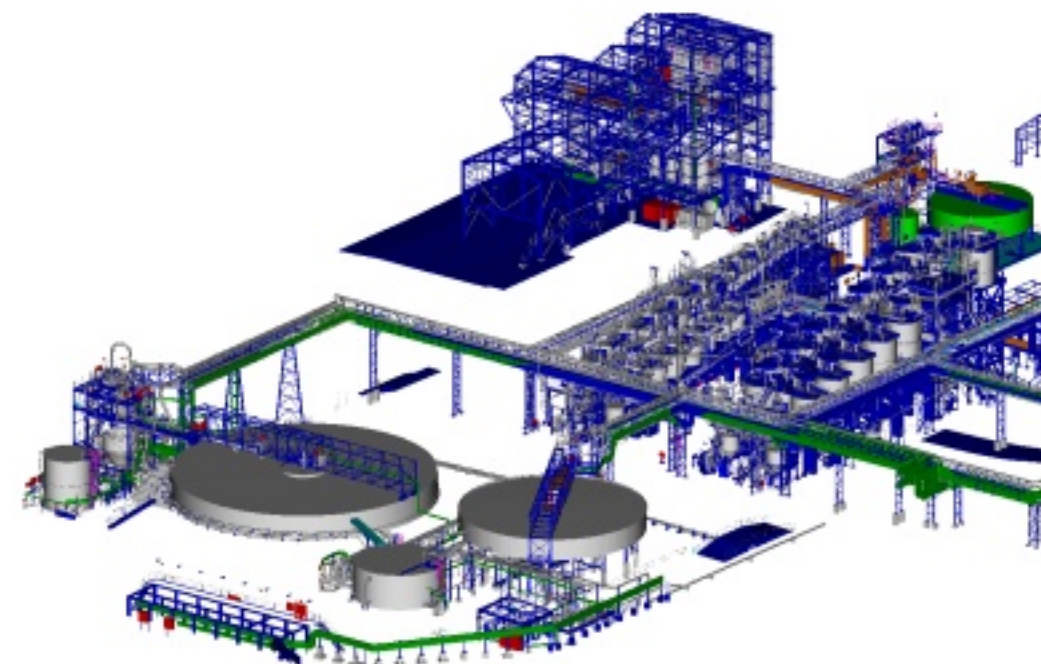
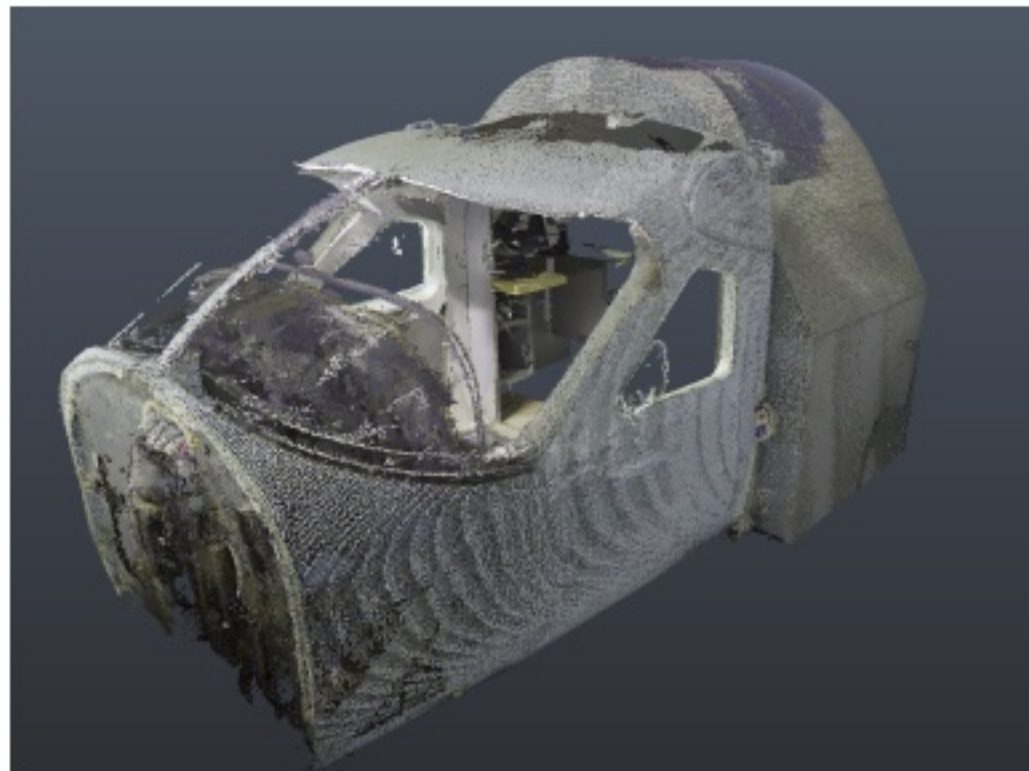
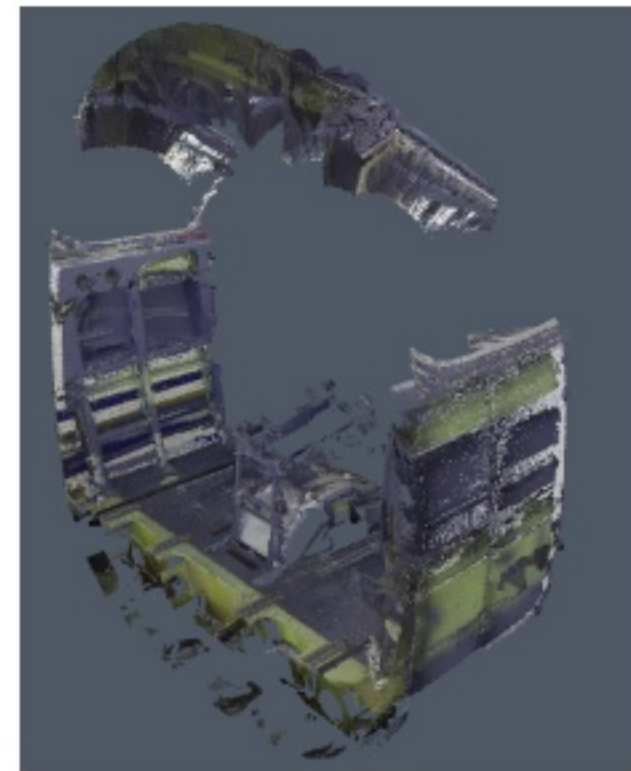
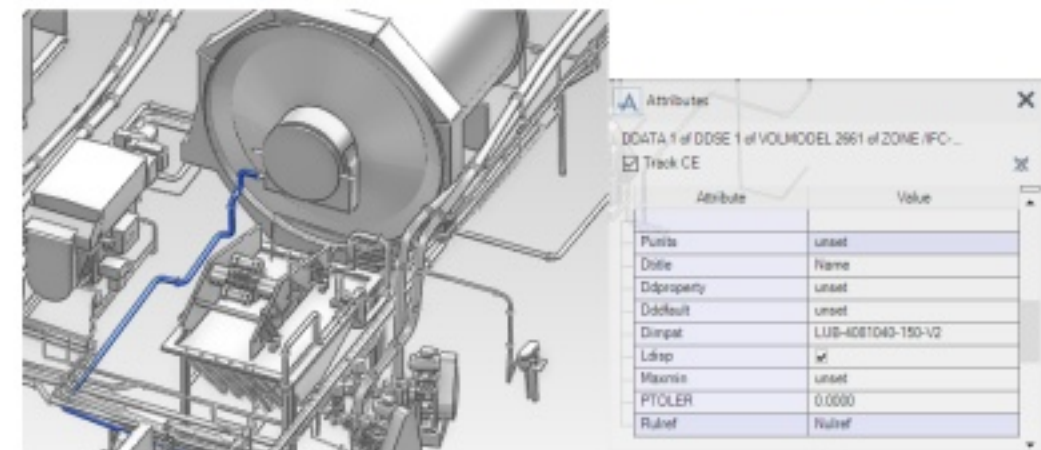
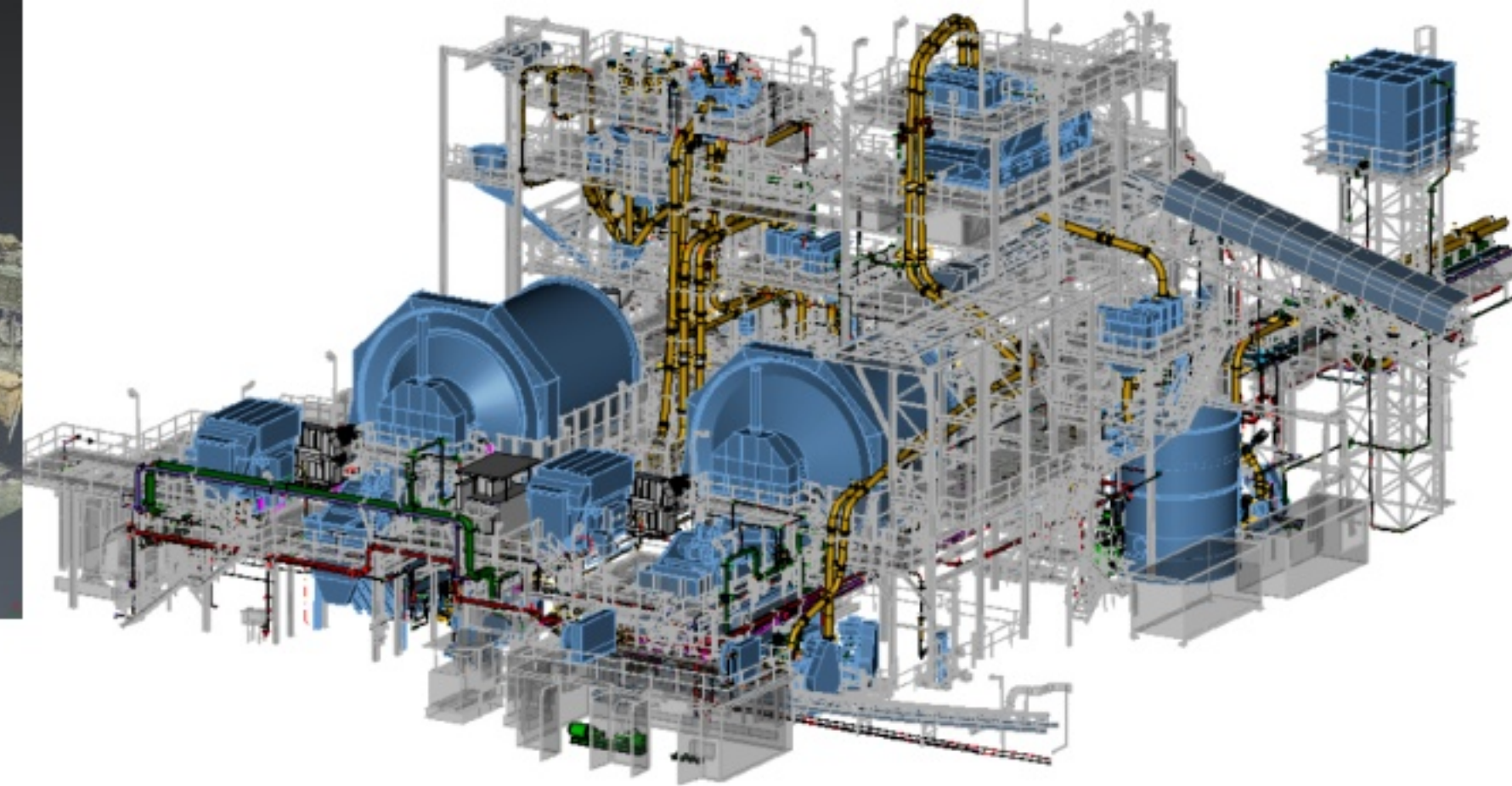
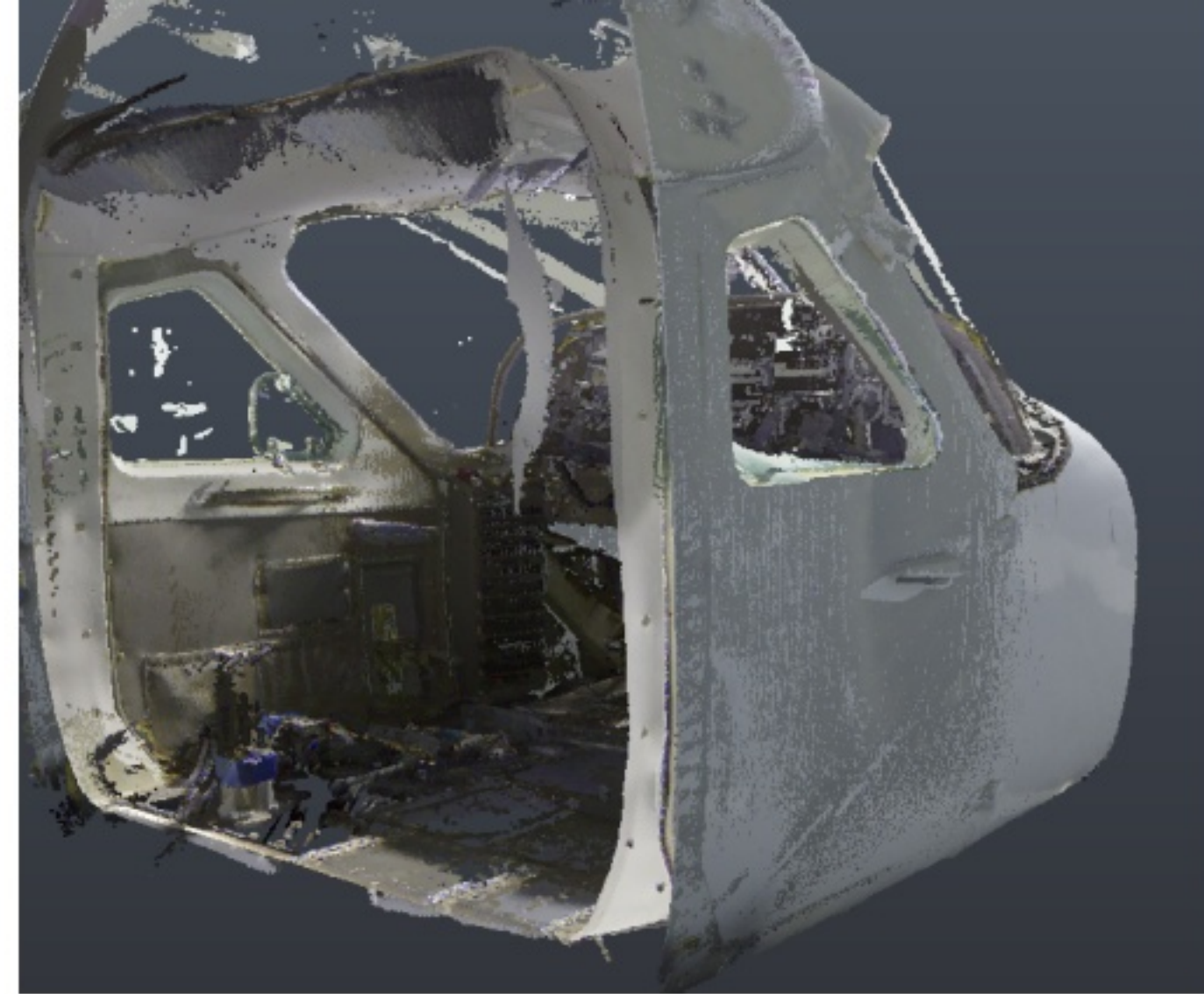
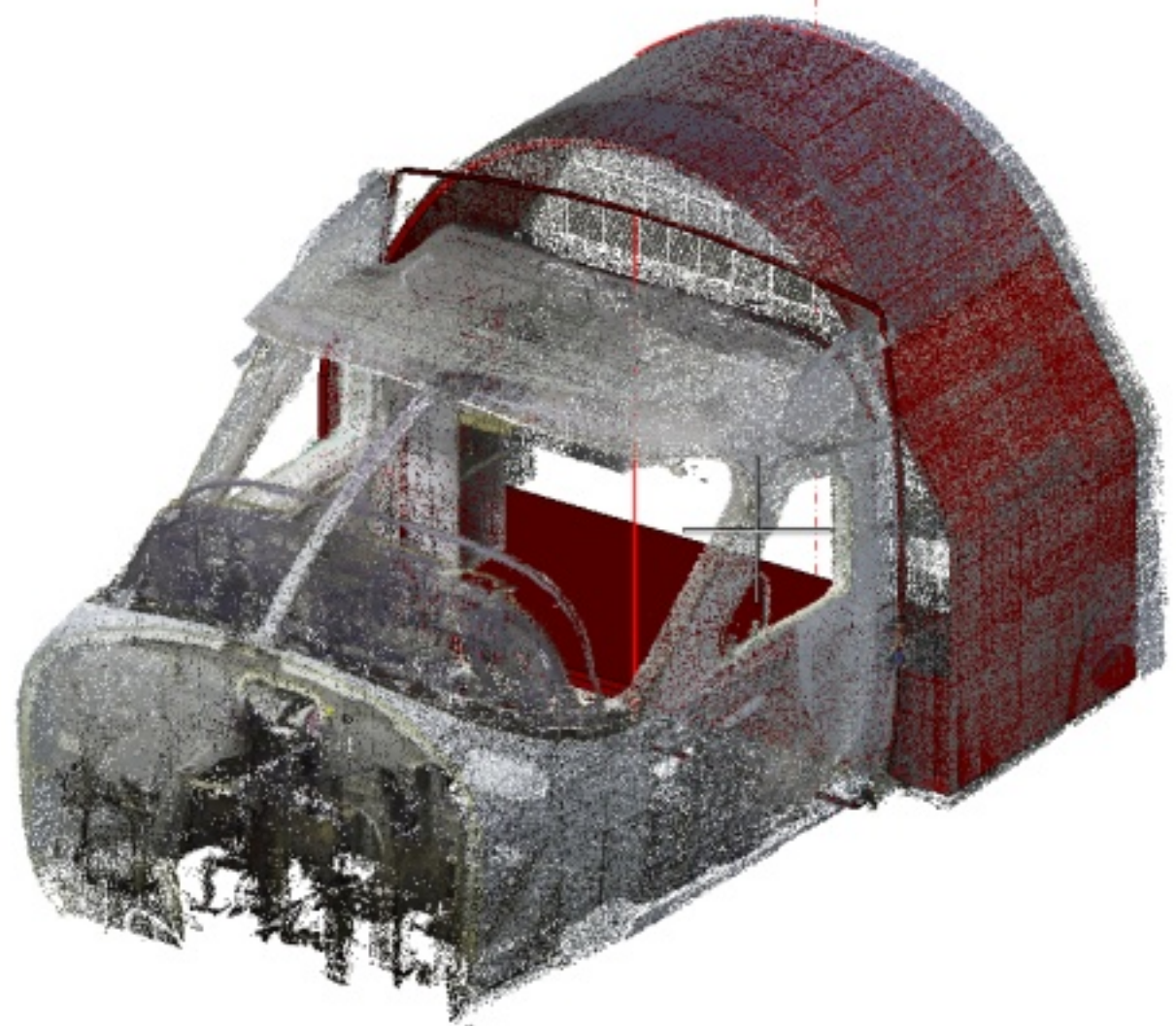
Rail Calliper 3D Scanning & Modelling for Fem Analysis

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Crusher Top Box Concrete Wall Assessment: 3D Scanning, Modelling & Analysis of Concrete Wall Rehabilitation



- 400-024-02C ADI Splitter
- 400-CH08
- 400-CH16
- 400-CH17
- 400-CV-01 MB Feed Conveyor
- 400-CV-01 MB Feed Conveyor Drive
- 400-CV-02 Conveyor
- 400-CV-02 Conveyor Drive
- 400-CV-02 Chute
- 400-CV-02 Emergency Full Stop
- 400-CV-03 Conveyor
- 400-CV-03 MB Feed Transfer Conveyor
- 400-CV-03 MB Feed Transfer Conveyor
- 400-CV-03 MB Feed Transfer Conveyor
- 400-DT-109 PLC-3 Master-5
- 400-DT-111 PLC-3 Master-5
- 400-DT-829 PLC-3 Master-3
- 400-DP-01 Distribution Panel 1 - Mfg 3
- 400-DP-01 Man Switch
- 400-HT-02 Switch
- 400-HT-03 Switch
- 400-LP-02 Electrical Box
- 400-LP-02 Plug 1
- 400-LP-02 Plug 2
- 400-LP-02 Plug 3
- 400-LP-02 Plug 4
- 400-LP-02 Plug 5
- 400-LP-101
- 400-LSH-65 PLC-3 Master-3 Node-1A
- 400-MA-01 Ball Magnet Panel
- 400-MA-01 Asynchronous Machine 001
- 400-MA-02 Electrical Cabling 001
- 400-MA-03 Electrical Cabling 004
- 400-MA-04 Electrical Cabling 001
- 400-MA-05 Lubo Pump A
- 400-MA-06 Lubo Pump B
- 400-MA-07 Primary MB Discharge Screen
- 400-MA-08 Primary MB Discharge Screen
- 400-MA-09 Brush Lifting Gear Motor
- 400-MA-10 Motor Bearings LP Pump
- 400-MA-11 Motor Bearings LP Pump
- 400-MA-12 Turbine Lubo Pump A E-Stop
- 400-MA-13 Turbine Lubo Pump B E-Stop
- 400-MA-14 Bearing Lubo Cooling Fan A
- 400-MA-15 Bearing Lubo Cooling Fan A
- 400-MA-16 Bearing Lubo Cooling Fan B
- 400-MA-17 Bearing Lubo Cooling Fan B
- 400-MA-18 Bearing Lubo Cooling Fan
- 400-MA-19 Gearbox Cooling Fan Strong
- 400-MA-20 Asynchronous Machine
- 400-MA-22 Asynchronous Machine
- 400-MA-22C MB E-Stop
- 400-MA-22C MB E-Stop

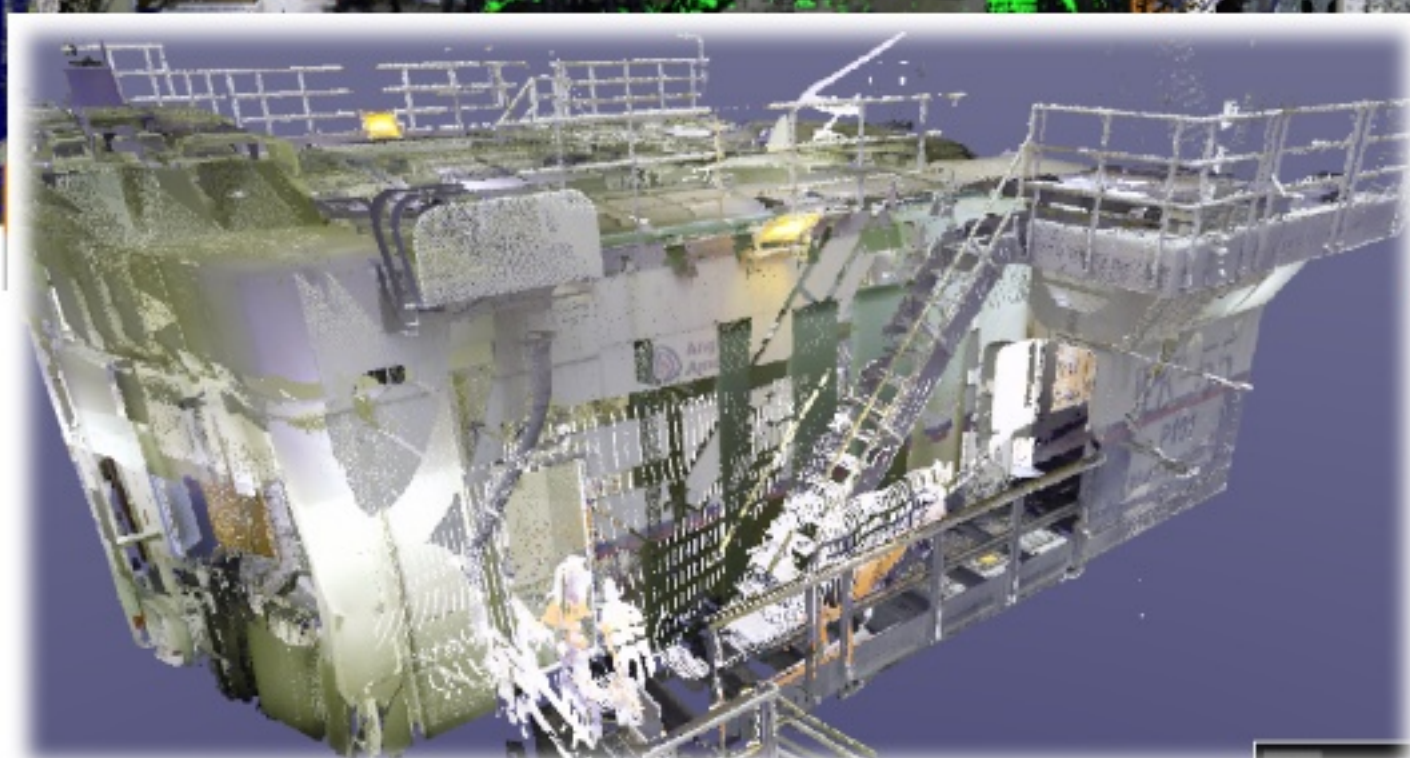
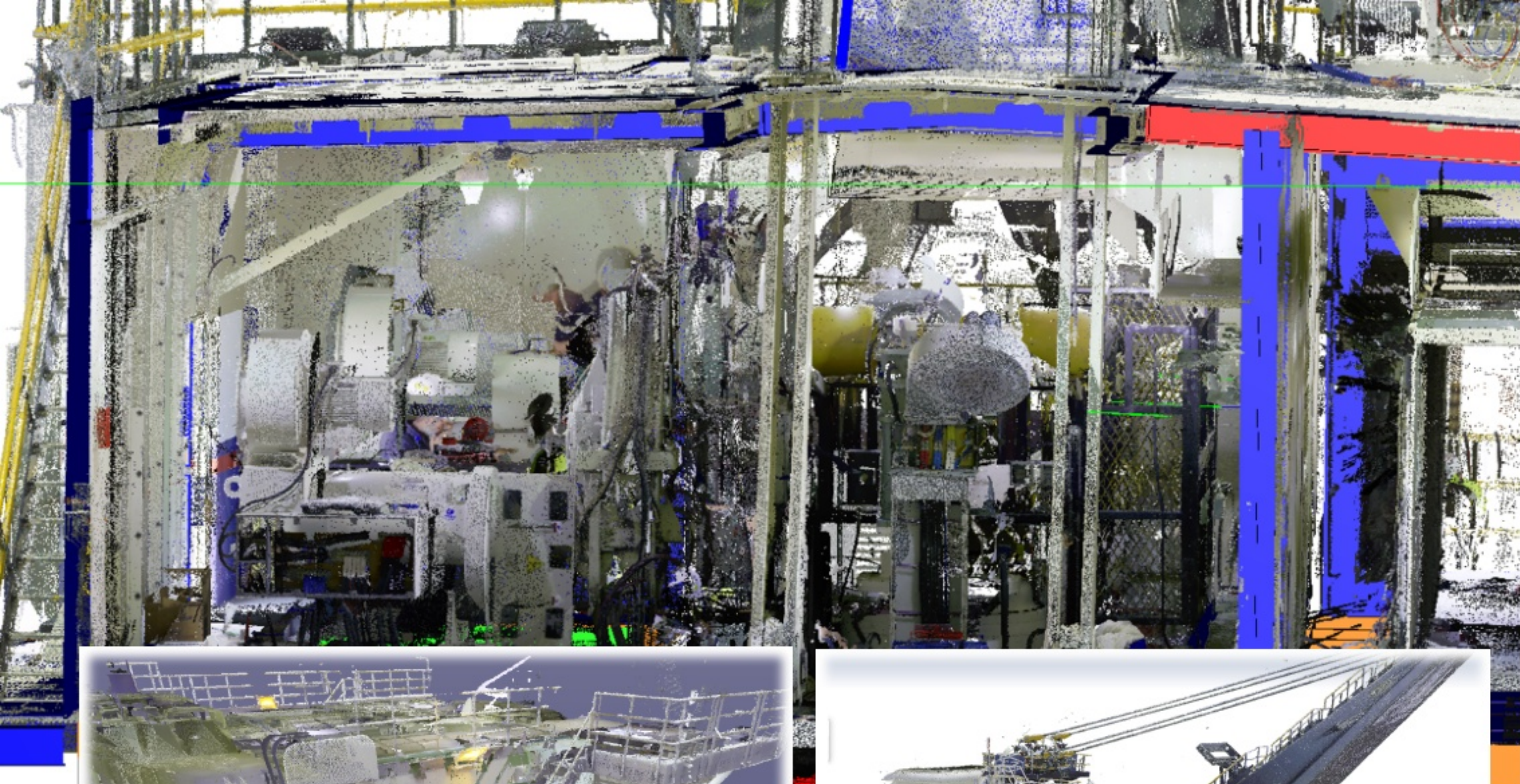
Aircraft Nose Reverse Engineering for Simulator : 3D Scanning & Modelling



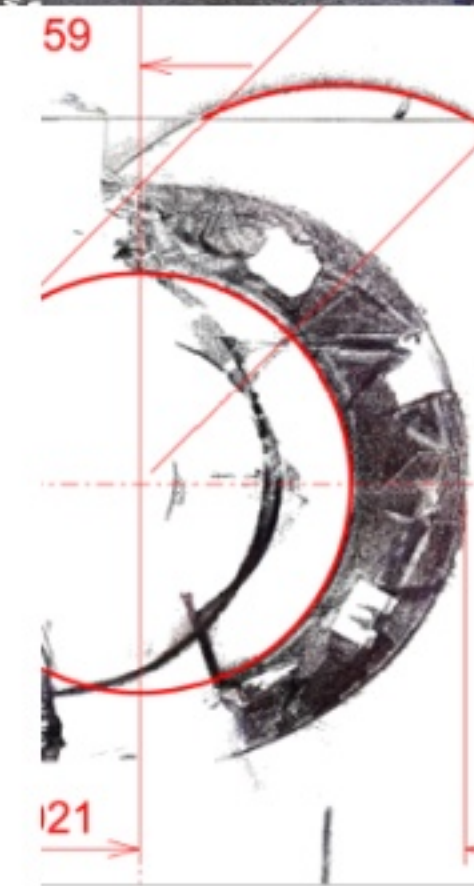
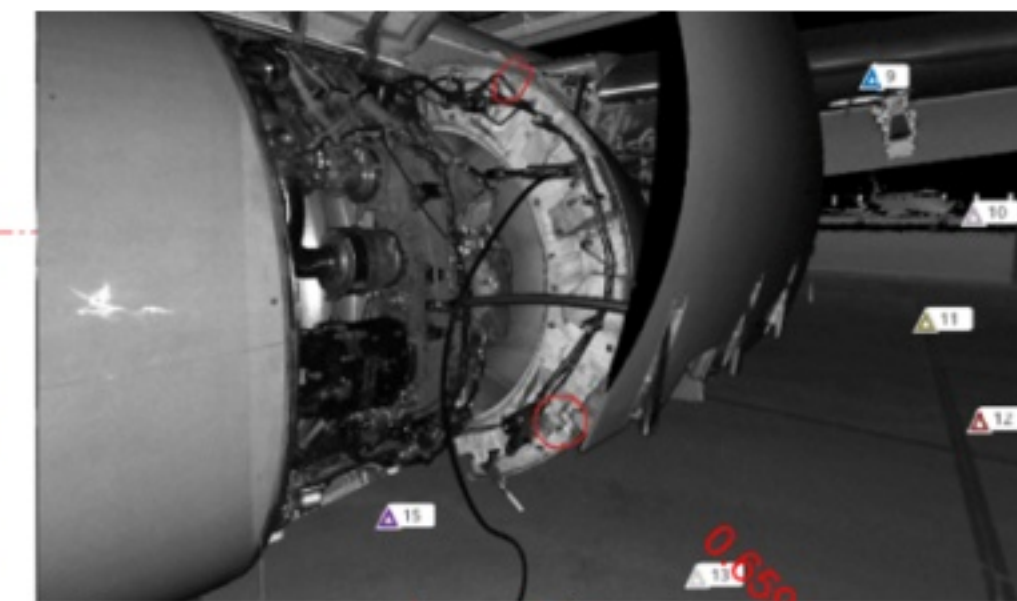
COMOS Walkinside 3D Models integration

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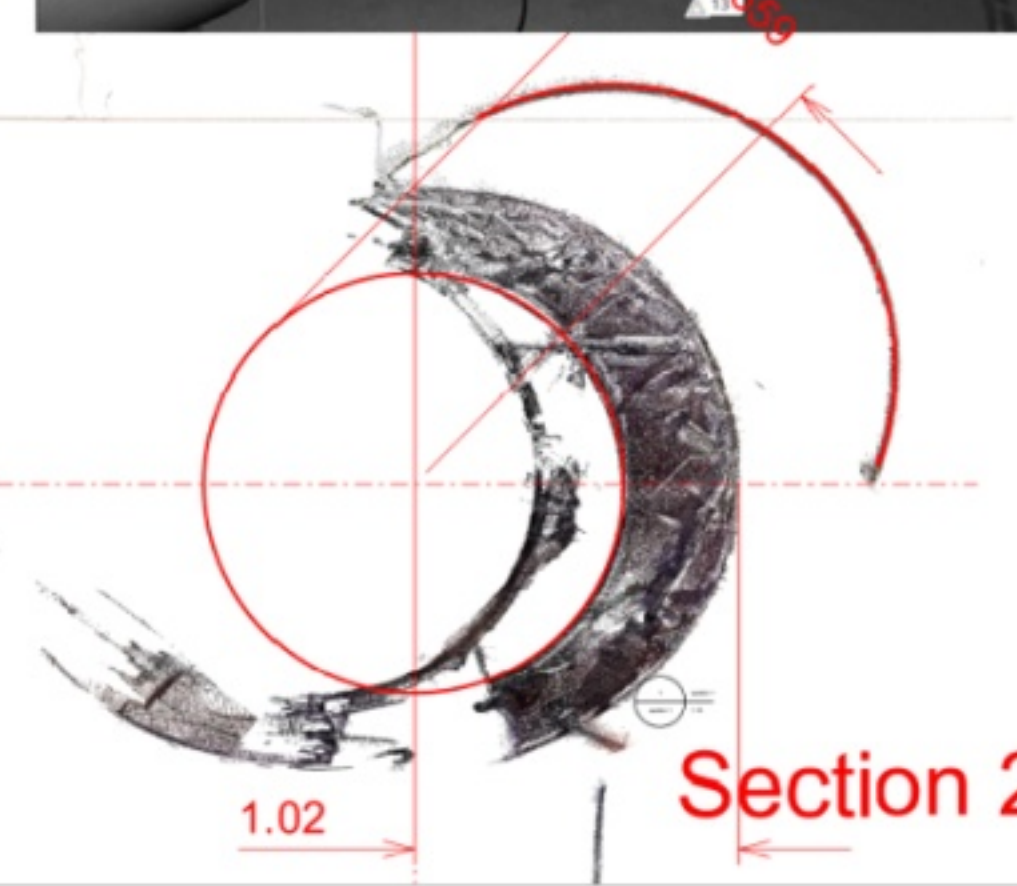




Platinum Rope Shovel 3D Scanning & Modelling for Fem Analysis



Section 1

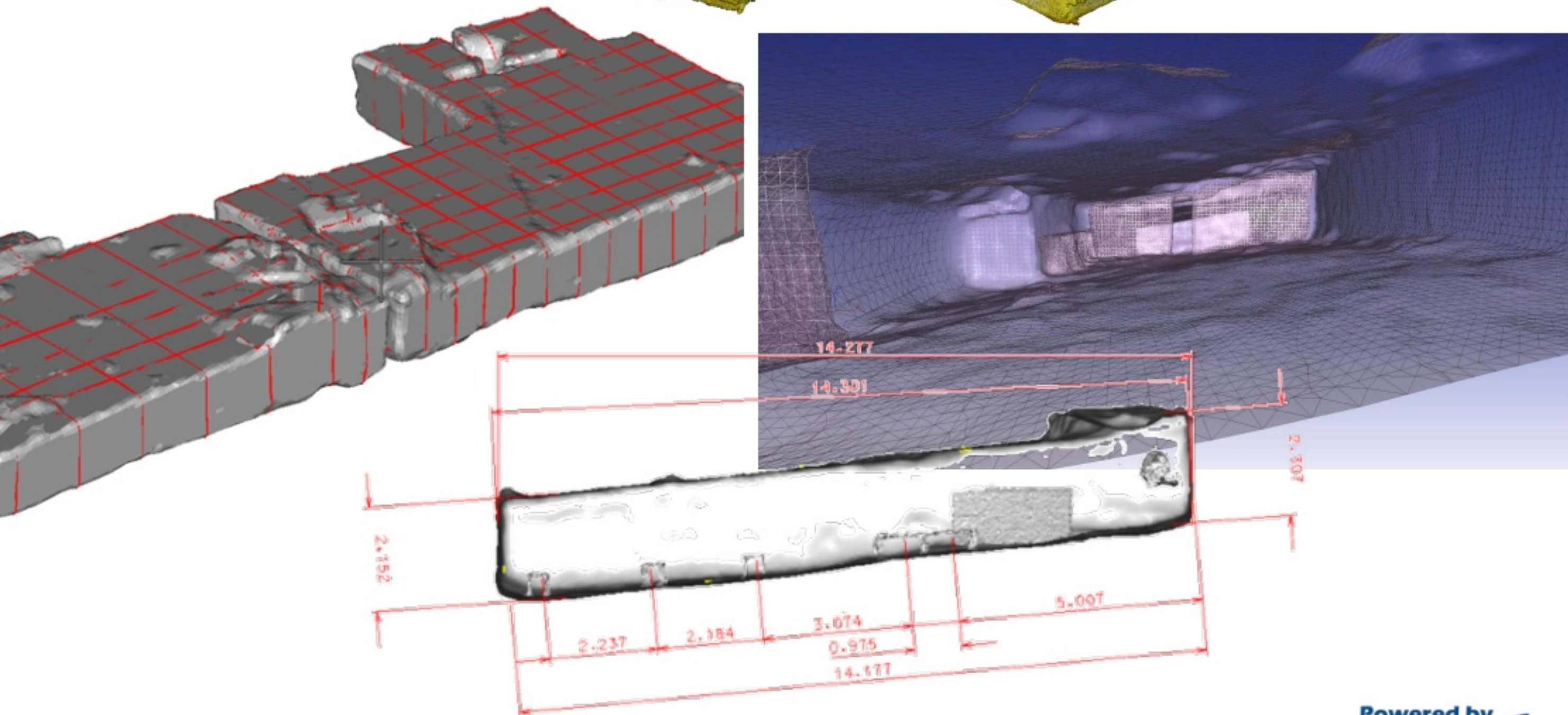
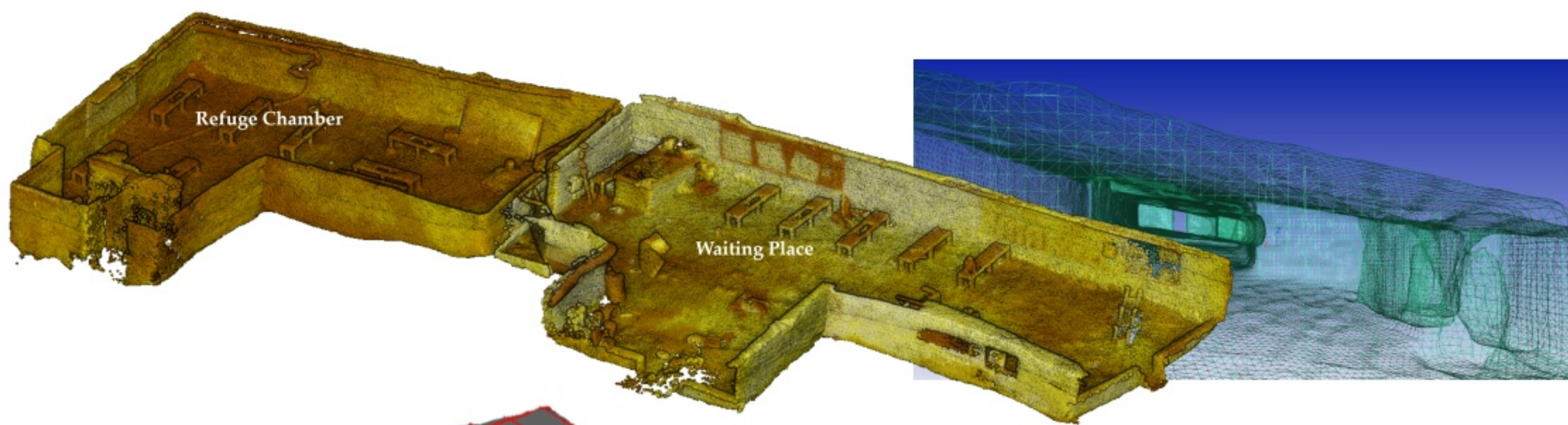


Section 2

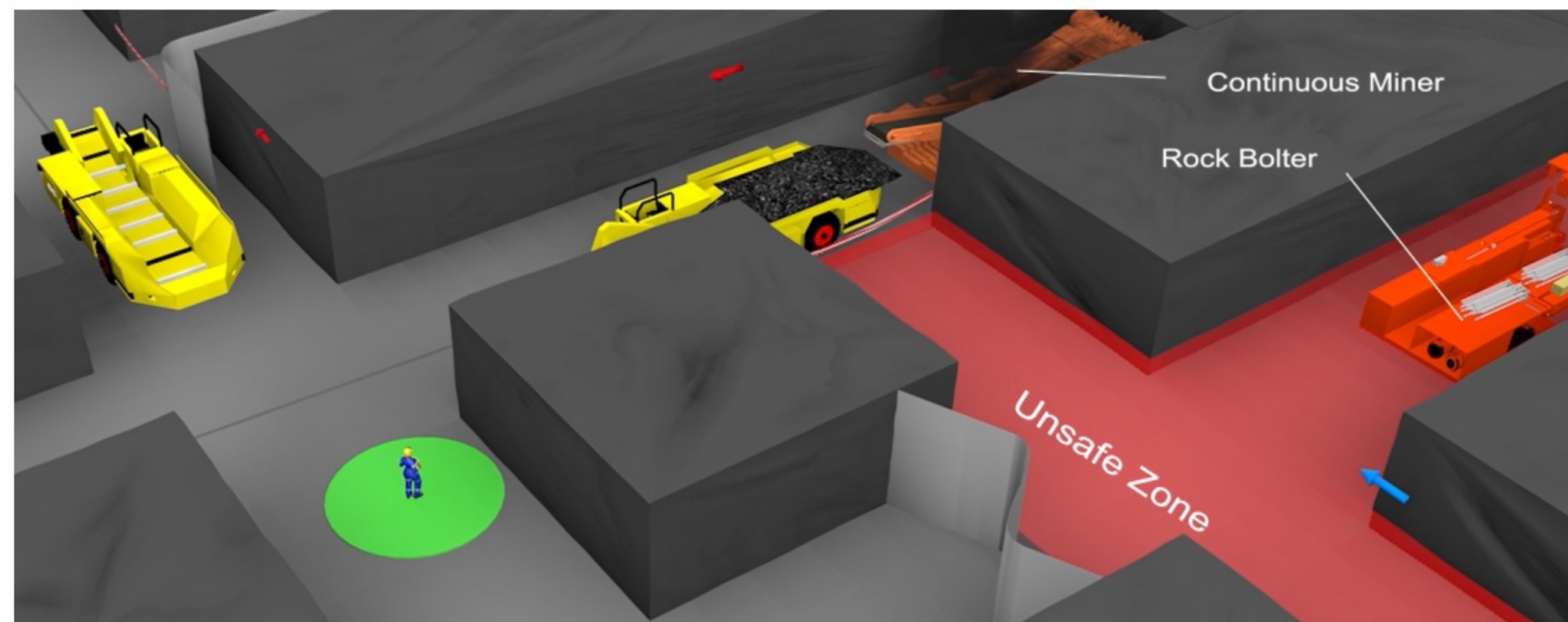
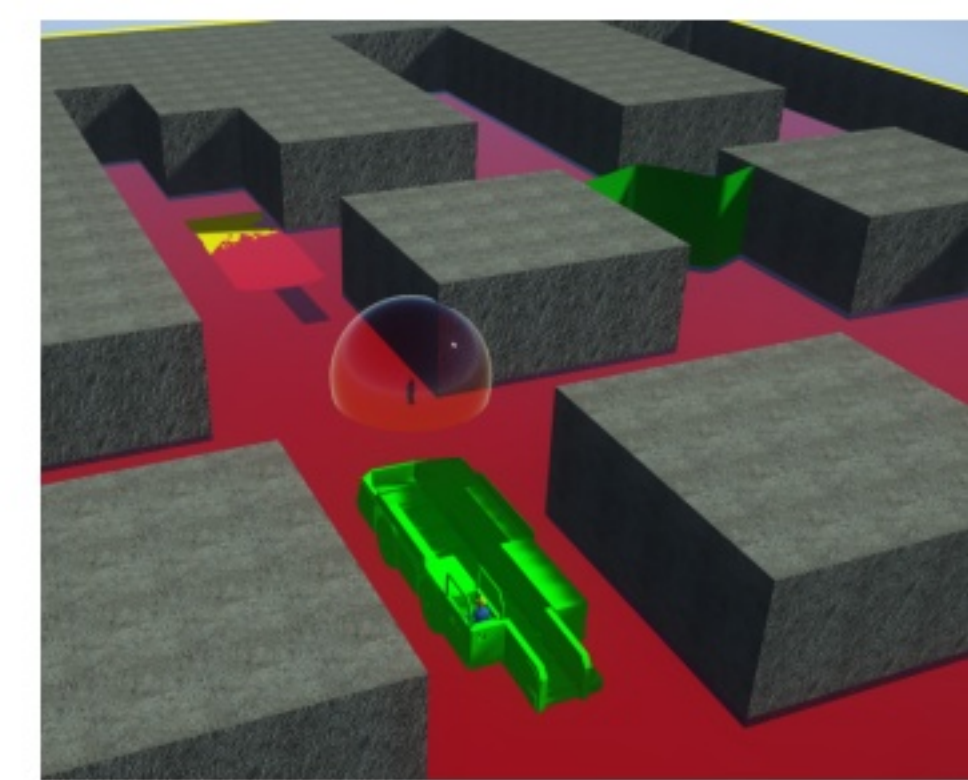
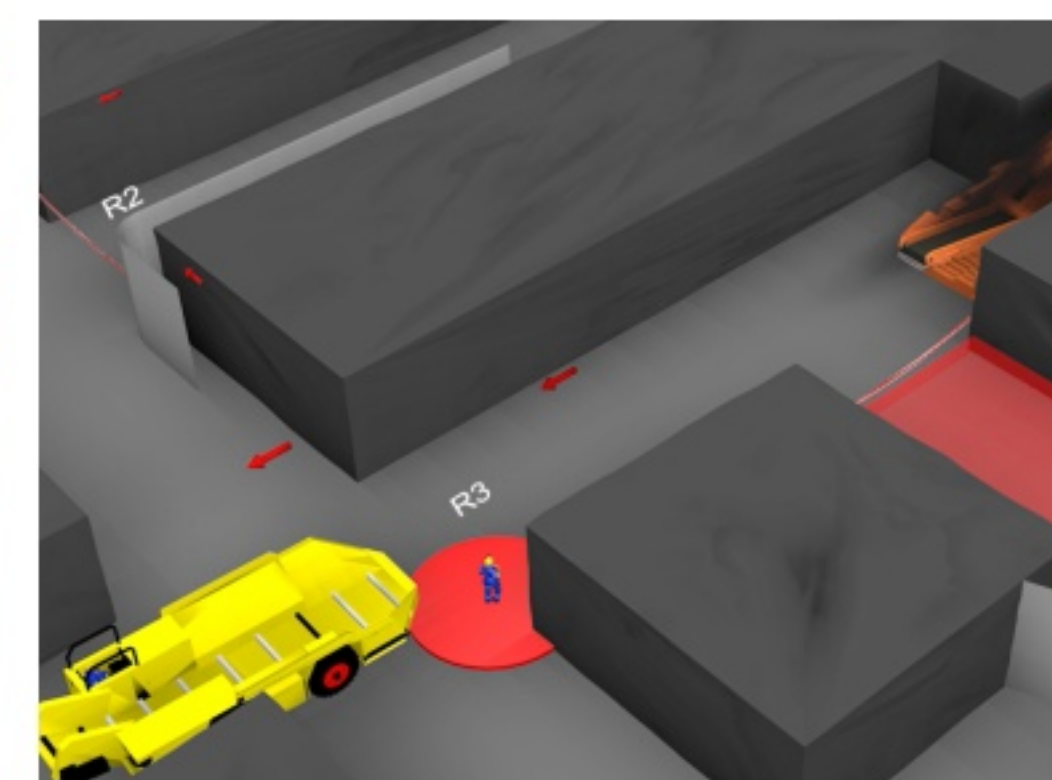
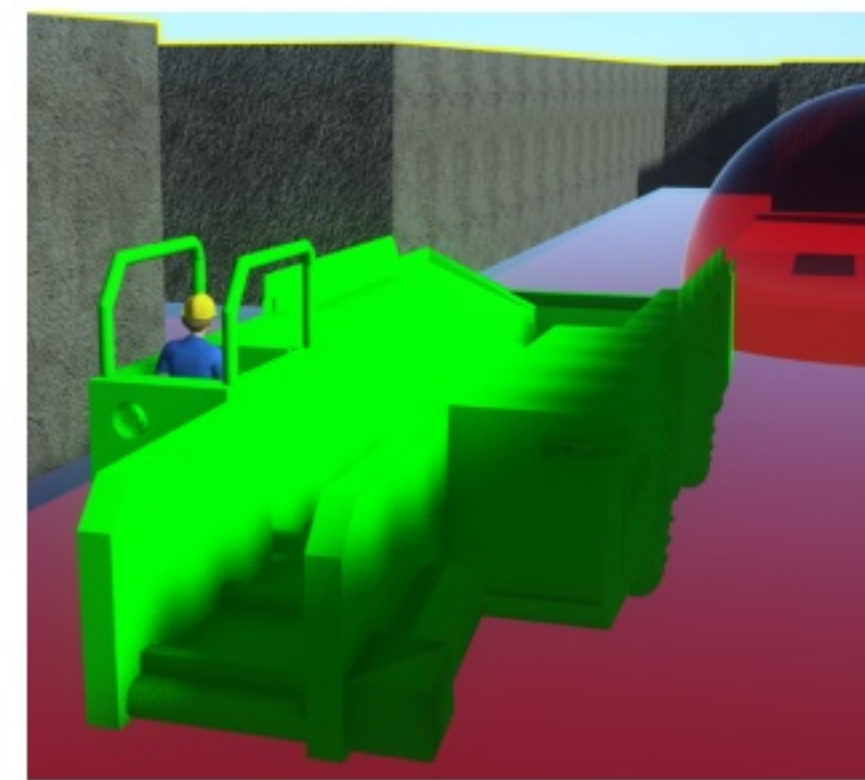
Aircraft Engine Cowling 3D Scanning, Modelling for Fem Analysis

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Underground 3D Scanning & Modelling Incident Management



Anglo Coal Continuous Miner Operator Training Animation

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