DUTA BASIS DATAPRIMA

Experience Excellence

“ The Excellence Partner for Services in **Survey**, **Scanning**, and **Asset Visualization** “







DUTA BASIS DATAPRIMA

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OVERVIEW

PT. Duta Basis Dataprima is a **Survey** and **Mapping** Services Company. Established since June 1996, In 2016 Dutabasis launched laser **Scanning** survey services, aerial photography and mapping using drones or UAVs, 3D digital data processing and drafting services. We have a special **Studio and Workshops** to perform data processing and engineering. With the support of competent **Experts** in the field of Geodetyc, Engineering, and IT. we have been able to complete many jobs in Services Survey Topography, GPS, Cadastral and Geographic Information Systems with **Excellence** Quality.

VISION

Be Excellence Partner for Survey, Scanning, and Data Management Technology

MISSION

- Become a partner that **Understand** the clients deeply problems in industry
- Brings the precise **Solutions** for the clients
- Leading in the Industry with **Quality** Services and Technology
- Delivering **Value** and Experience to our customer with provision of excellence

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1996 — ESTABLISHED
- Mapping Survey Services
- Topography, Bathymetry
- Survey Equipment Rental
- UAV (Unmanned Vehicle) Survey

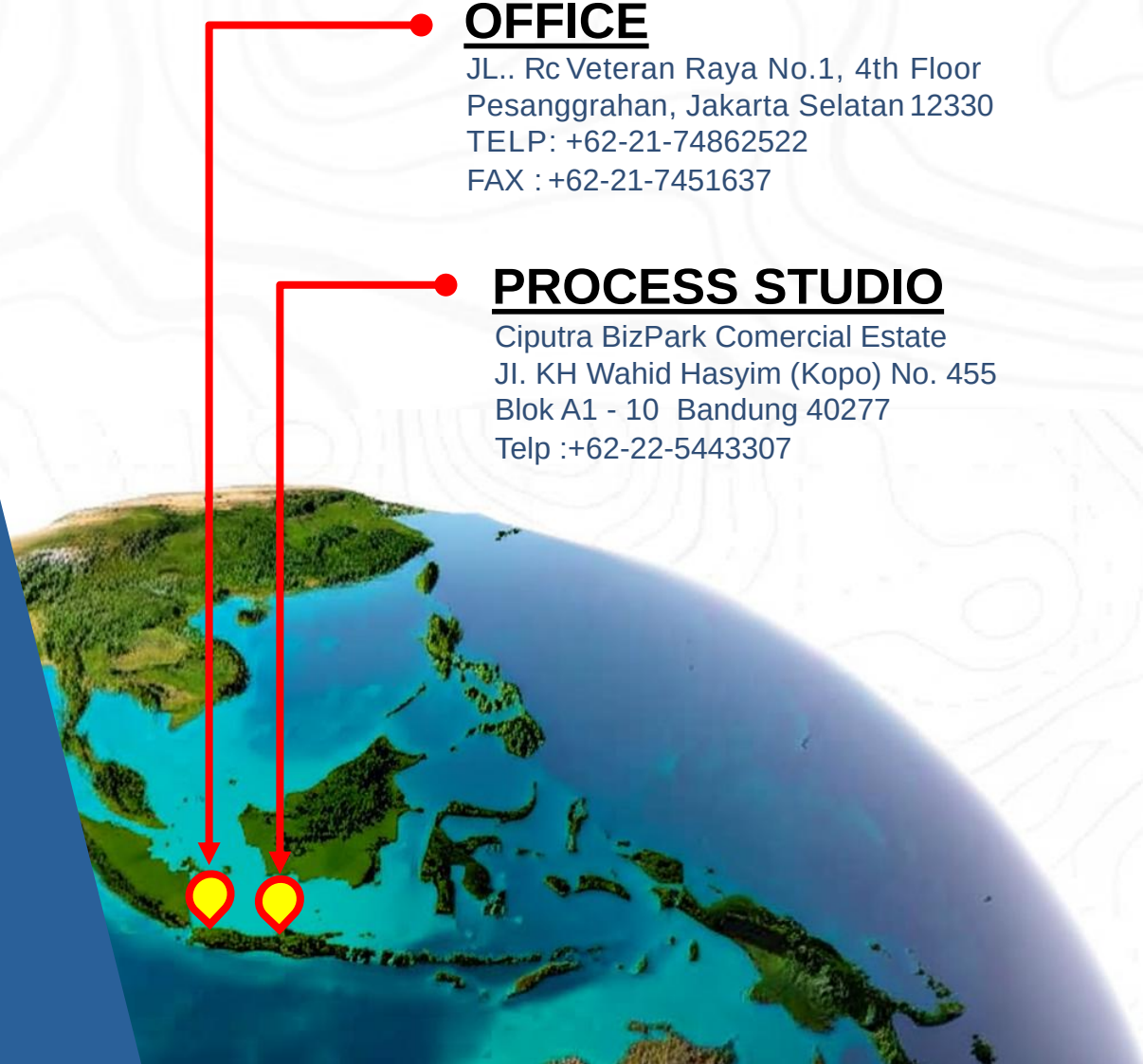
2016 — 3D LASER SCAN
- As built drawing
- Reverse Engineering
- Construction Survey Monitoring
- Inspection & Analysis

2017 — ENGINEERING SUPPORT
- Re-drawing PFD, P&ID, Isometric Piping
- Inteligent as-built drawing
- Civil Design Inspection
- Process & Mechanical Engineering

2021 — BUILDING INFORMATION MODELLING (BIM)
- Semi Intellegence Modelling
- UAV Lidar Expert for Scanning
- Data Actual Modelling

2023 — DATA ASSET MANAGEMENT
- Intellegence Modelling
- IOT and Dashboard Connection
- 3D Visual Modelling and Virtual Tour
- Real Time Data Management

2025 — STILL GOING STRONG
- Leading Survey Industry
- Leading Data Management Industry



OFFICE
JL.. Rc Veteran Raya No.1, 4th Floor
Pesanggrahan, Jakarta Selatan 12330
TELP: +62-21-74862522
FAX : +62-21-7451637

PROCESS STUDIO
Ciputra BizPark Comercial Estate
JI. KH Wahid Hasyim (Kopo) No. 455
Blok A1 - 10 Bandung 40277
Telp :+62-22-5443307

SERVICES

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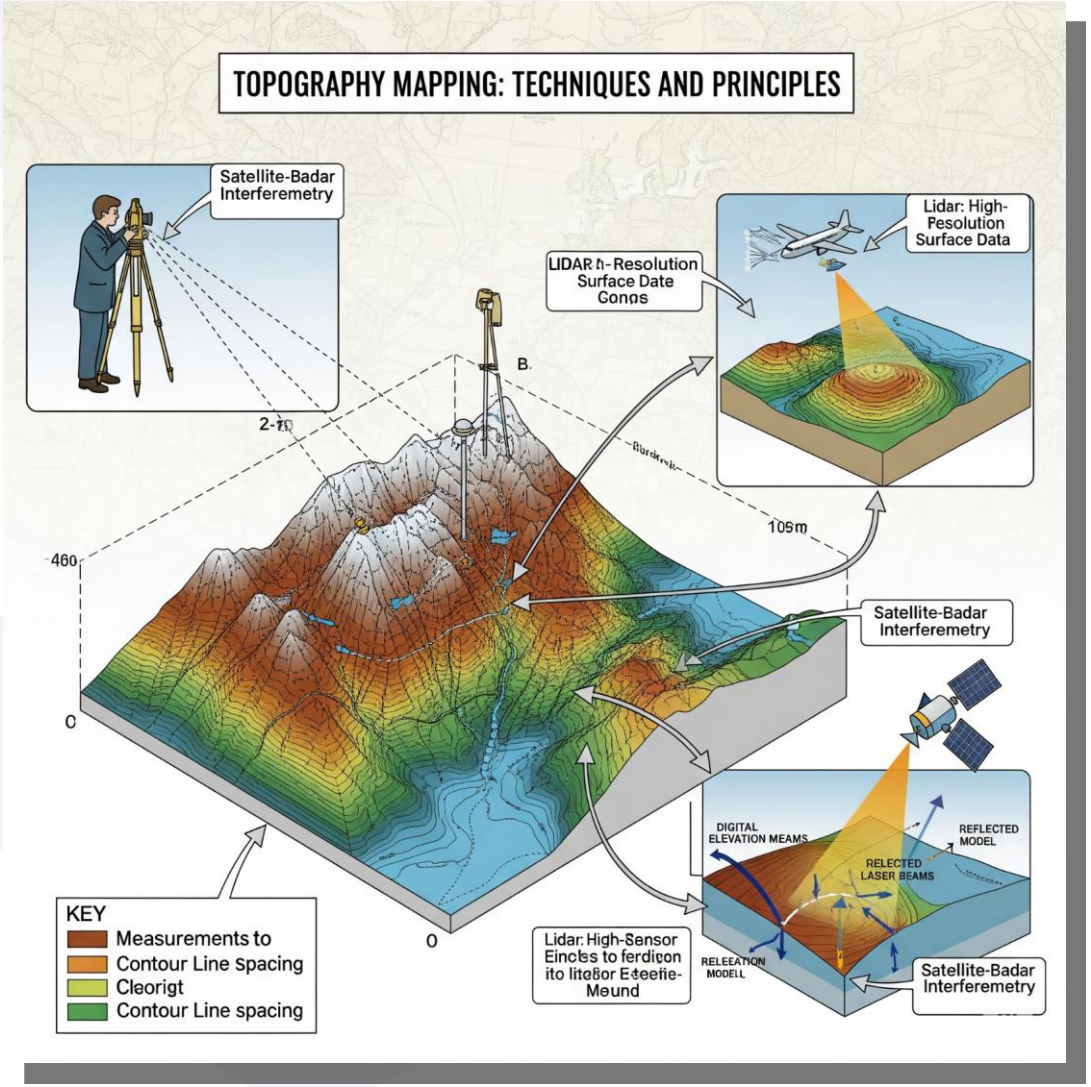


MAPPING

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TERRESTRIAL MAPPING

➢ CONCEPT



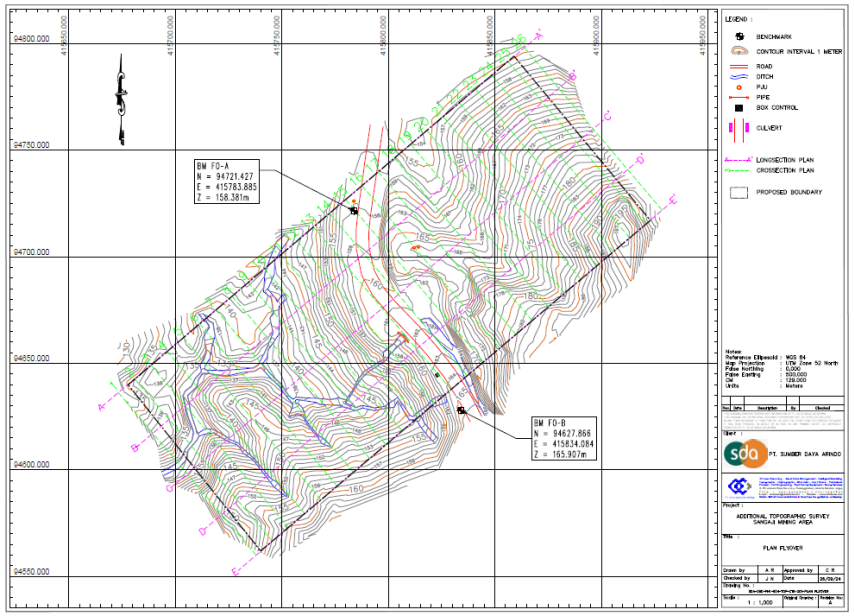
➢ PROCESS

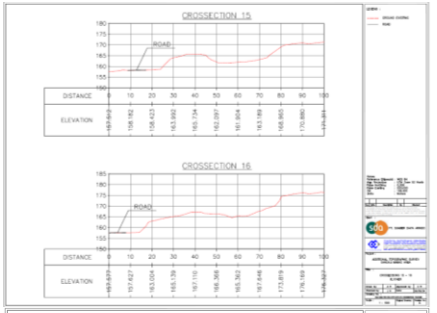


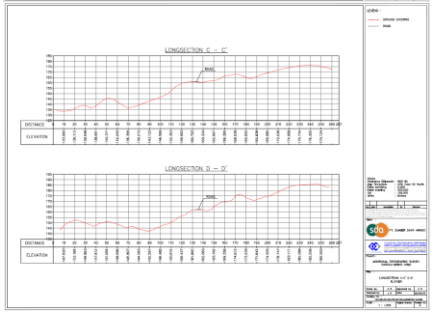




➢ OUTPUT





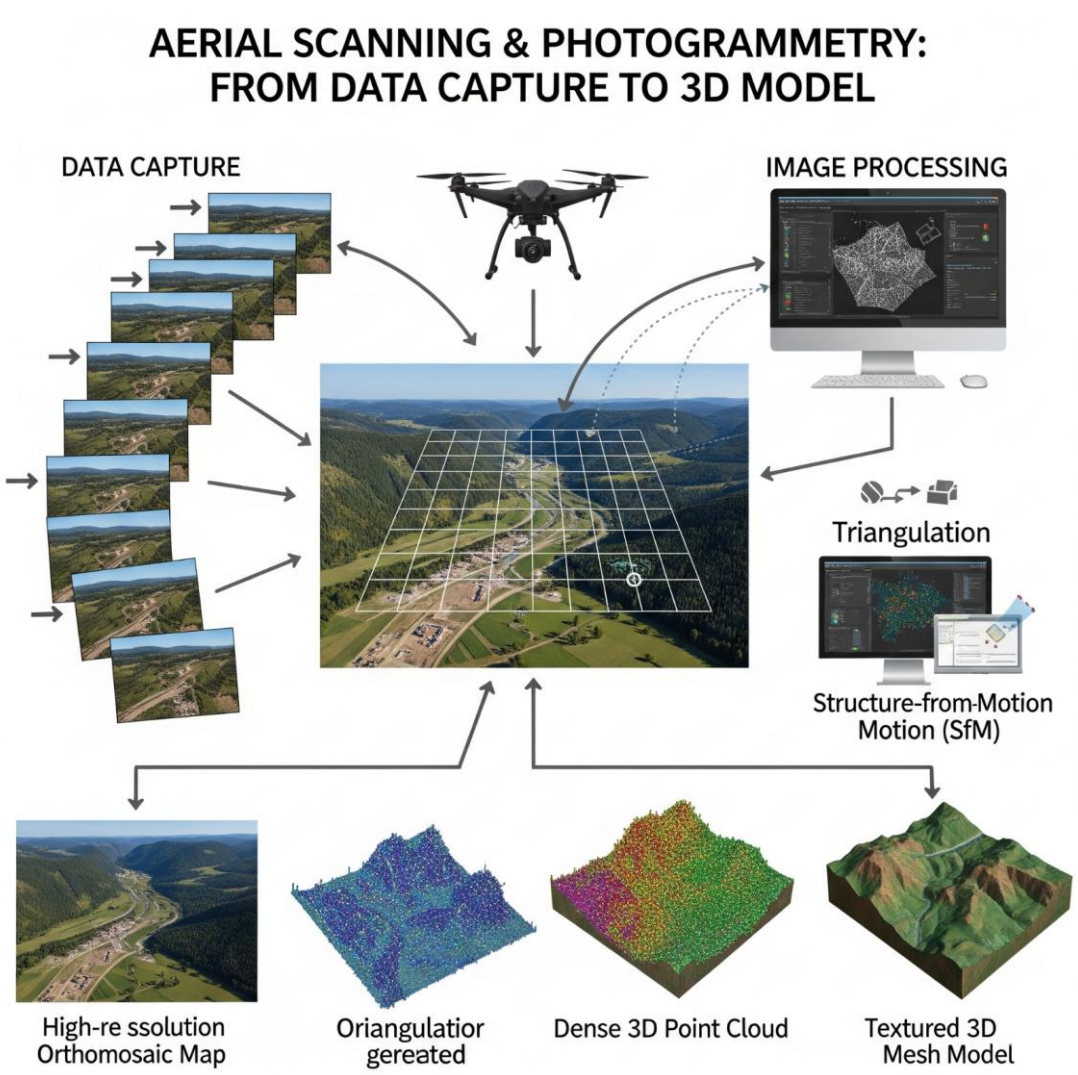


MAPPING

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AERIAL MAPPING

➢ CONCEPT



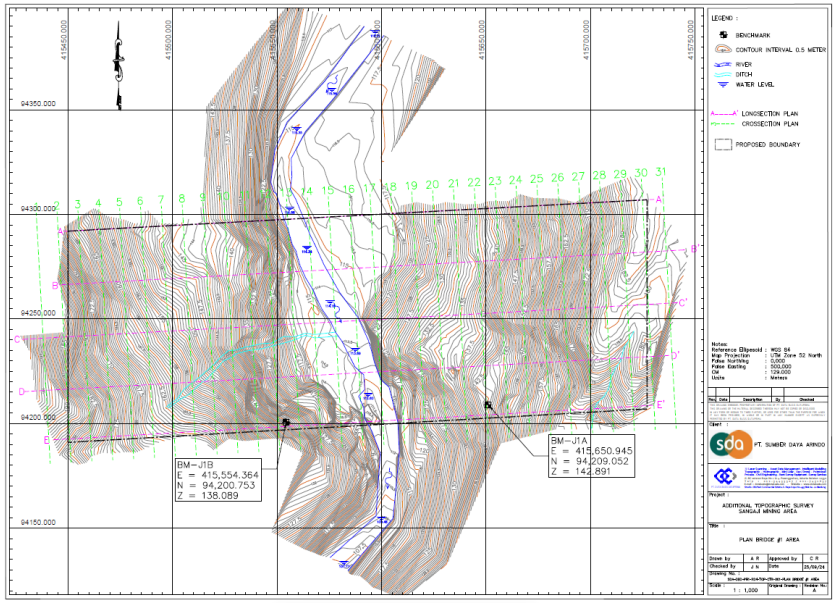
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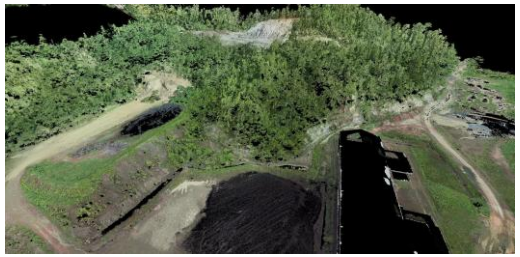






➢ OUTPUT





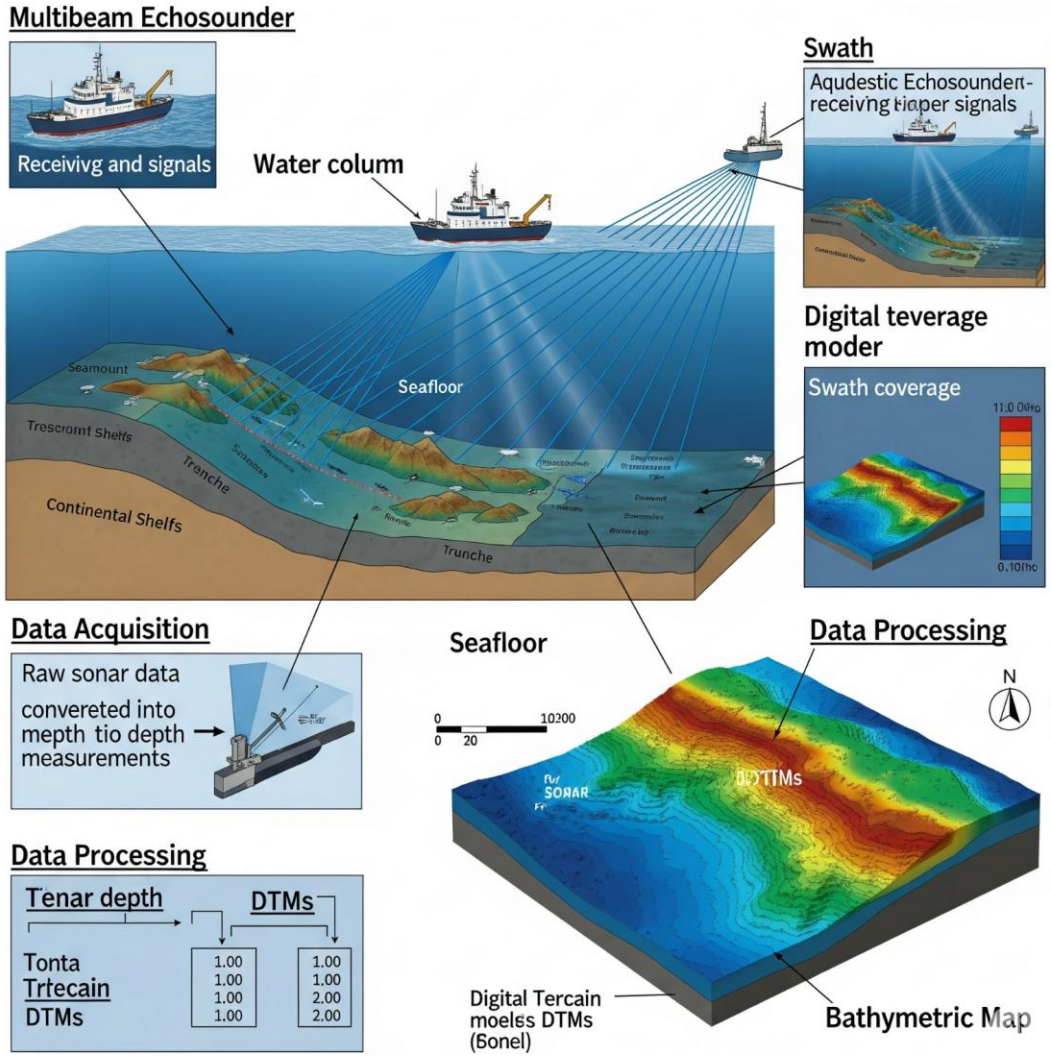


MAPPING

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BATHYMETRI MAPPING

➢ CONCEPT



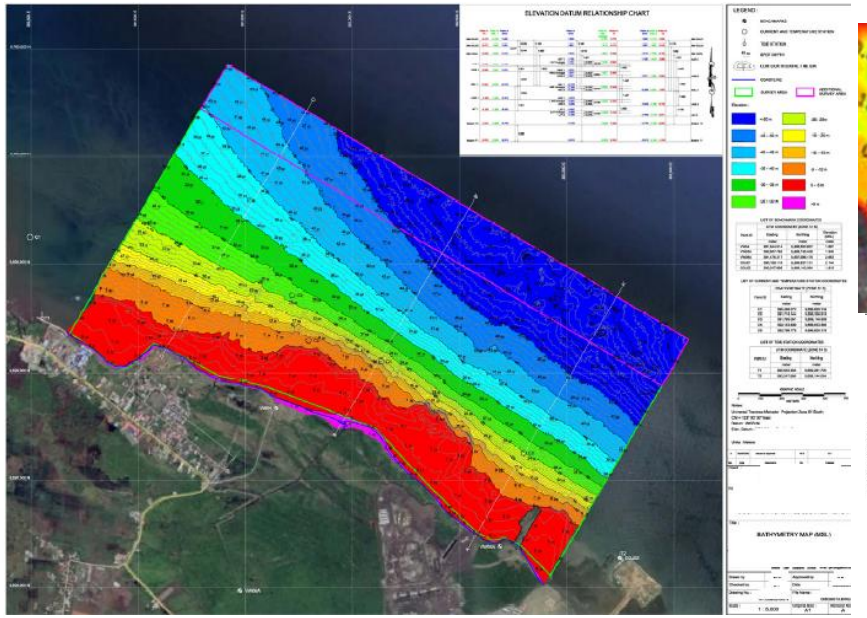
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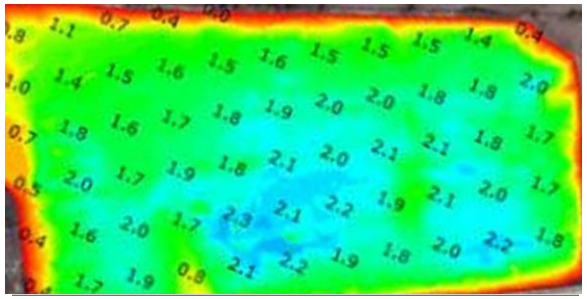


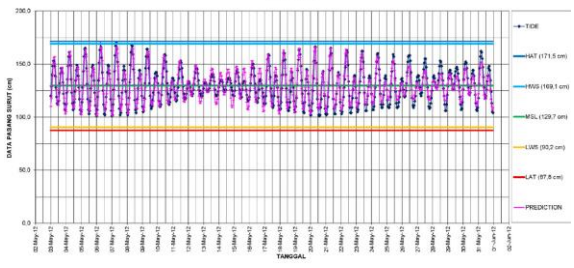




➢ OUTPUT



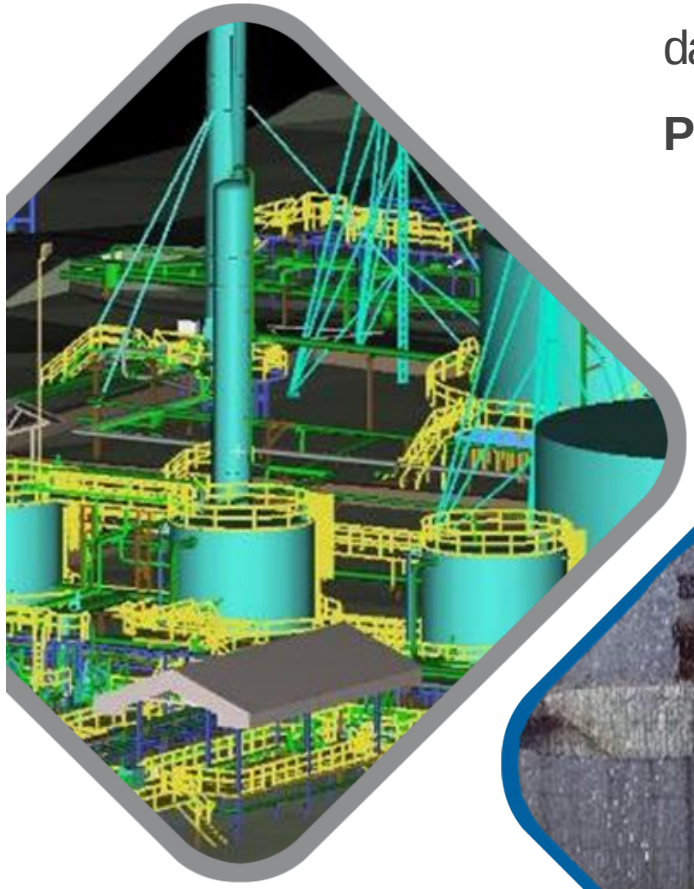




3D SCAN

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Proses **Pemindaian** untuk mendapatkan **rekaman data geometri** suatu obyek atau lingkungan dalam bentuk **3 dimensi** (dalam axis x, y dan z) dalam format digital yang menghasilkan **Pointcloud** dan akan dikonversi menjadi 3D atau 2D Model.





❖ Aplikasi di berbagai Industry :

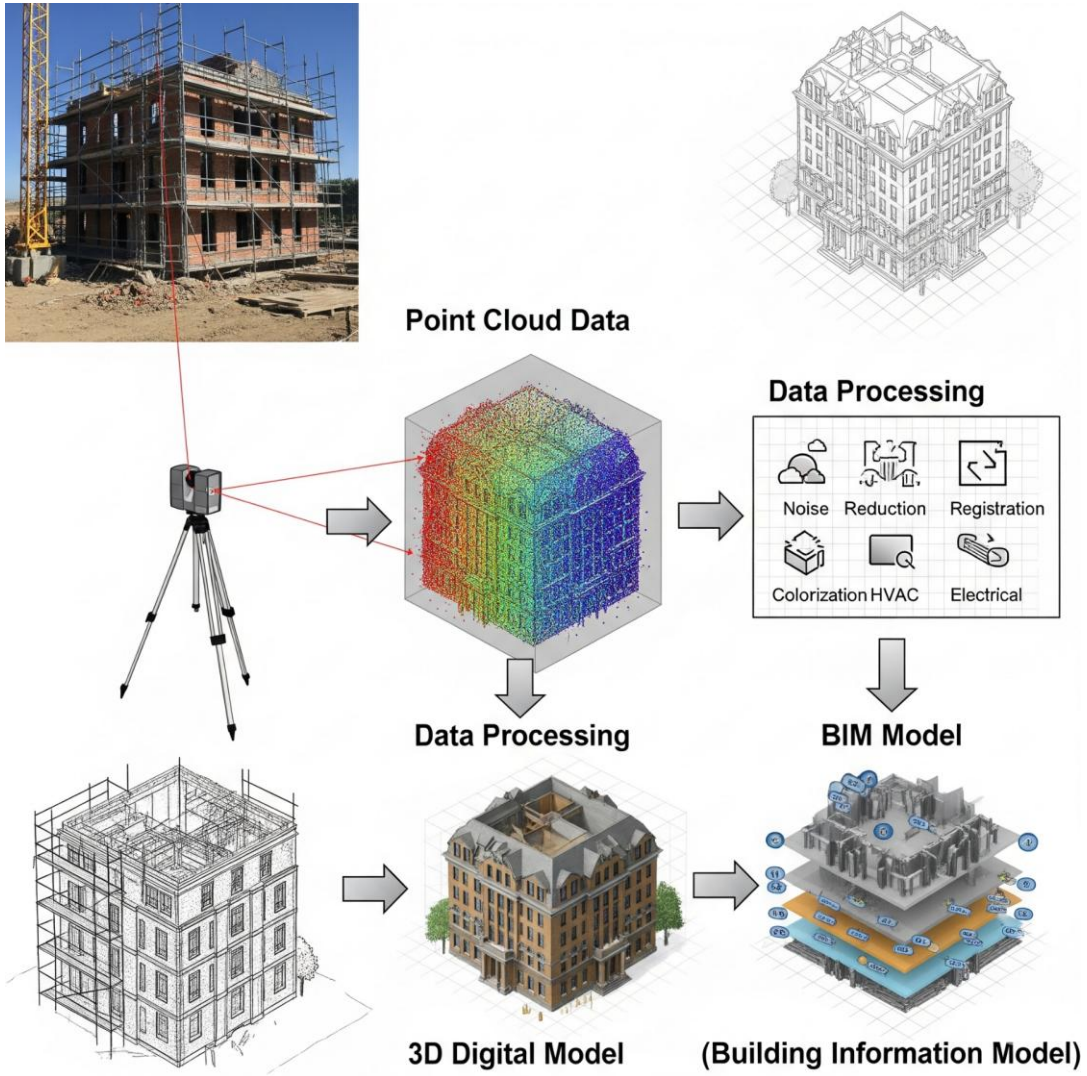
1. Asbuilt Drawing
2. 3D Modelling
3. Virtual Tour Plant
4. PFD, P&ID, Isometric Piping, etc
5. Building Information Model (BIM)
   a) Primitive : 3D Modelling
   b) Semi Intellegence : 3D Modelling dengan deskripsi komponen
   c) Intellegence : 3D Modelling dengan Data Actual (ongoing Real time)

SERVICES

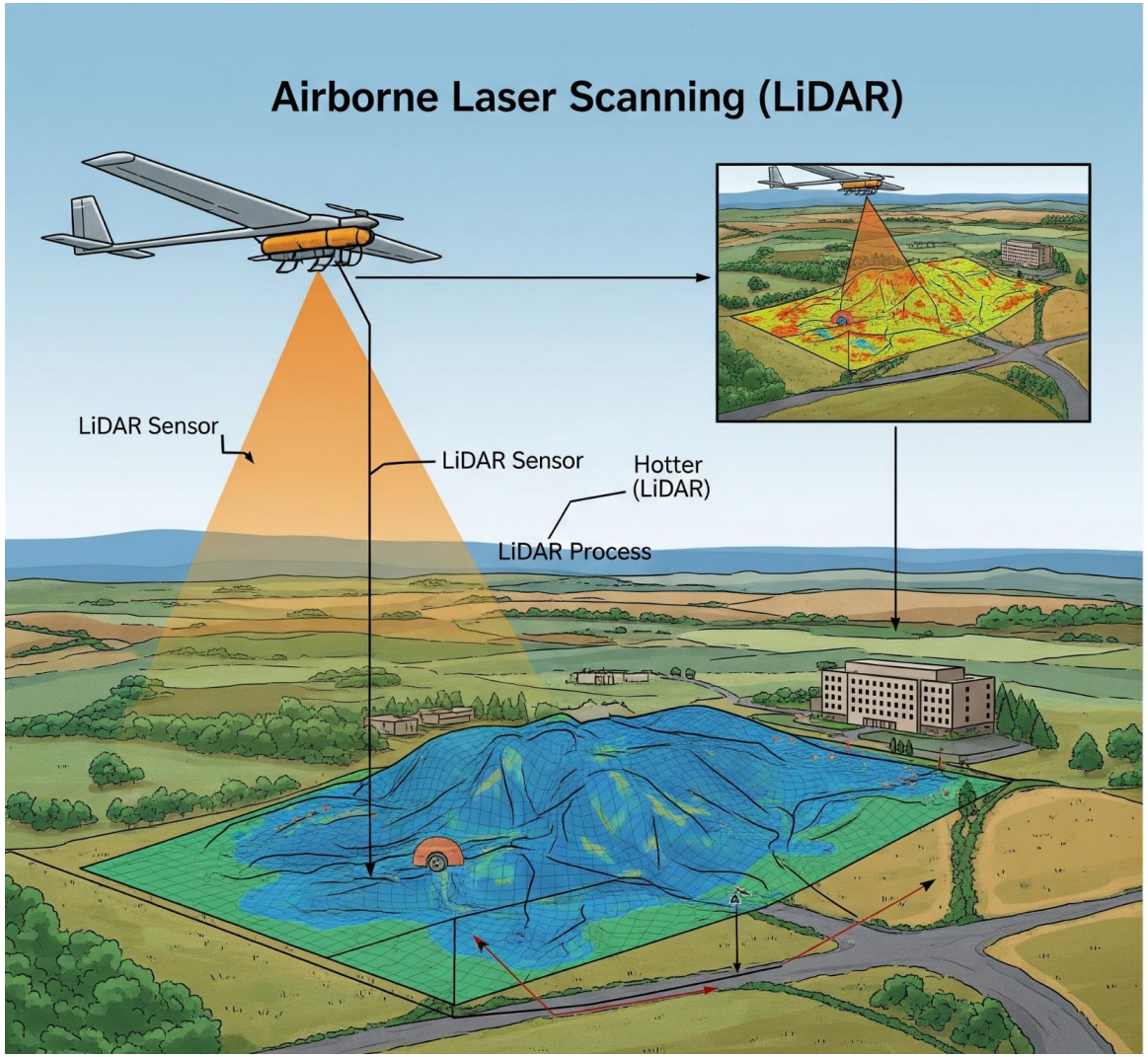
3D SCAN

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➢ TERRESTRIAL



➢ AERIAL



3D SCAN

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➢ MOBILE SCANNER



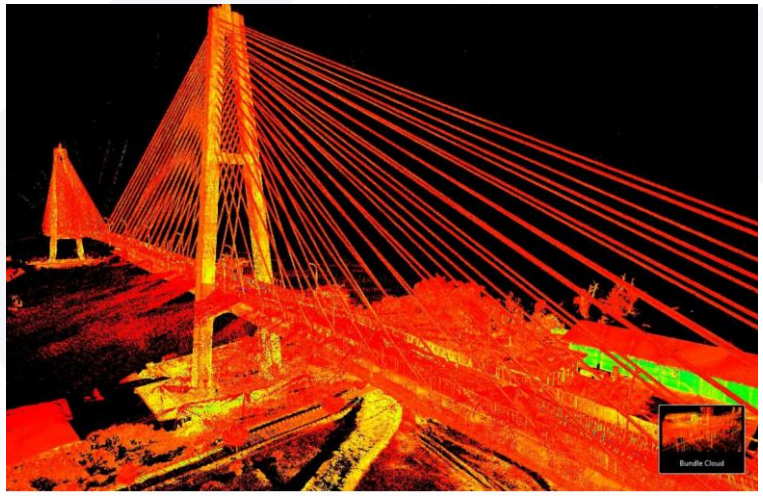
➢ PROCESS





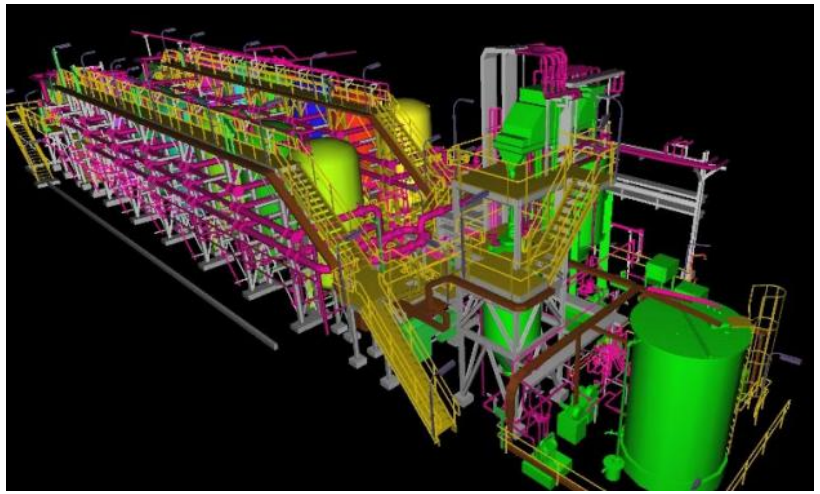


➢ OUTPUT



Gambar 10 – *Isometric Point Cloud data* Jembatan Achmad Amins





3D SCAN

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OUTPUT

- **POINTCLOUD**

Kebutuhan desain retrofit sederhana (BWTS, pabrik dll)

- **GAMBAR 3D SOLID**

Kebutuhan desain retrofit, reverse engineering, digital twin, 3D Intelligent drawing, 3D Non-Intelligent drawing

- **GAMBAR PROYEKSI 2D**

Kelengkapan gambar

- **ANALISA TEKNIK**

Kekuatan struktur, clash detection

- **VISUAL TOUR / MEDIA PROMOSI**

3D walkthrough, 360° panoramic view, render animasi

APLIKASI

- **ENGINEERING**

Refinery unit migas-tambang, jalur pipa migas, unit explorasi / exploitasi, pabrik produksi / manufaktur

- **SIPIL**

Jalan, jembatan, terowongan

- **INSPEKSI**

Penghitungan volume stock pile, tank calibration, pengukuran kerusakan struktur

- **ARSITEKTURAL**

Heritage /gedung bersejarah, seni

- **GEODESI**

Pemetaan

- **GEOLOGI & ARKEOLOGI**

Cagar budaya, candi, goa alam, situs prasejarah, fosil

APLIKASI 3D LASER SCANNING

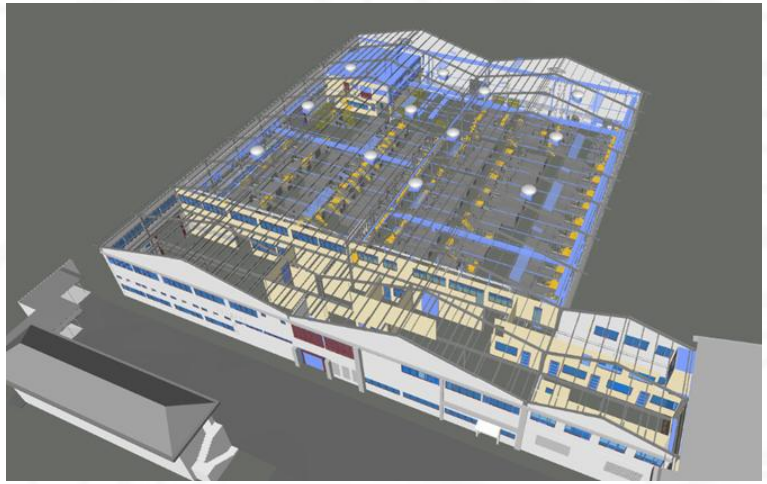


Laser Scanning Data Acquisition / Capture Data

- Very Accurate
- Digital Representation
- Quickly

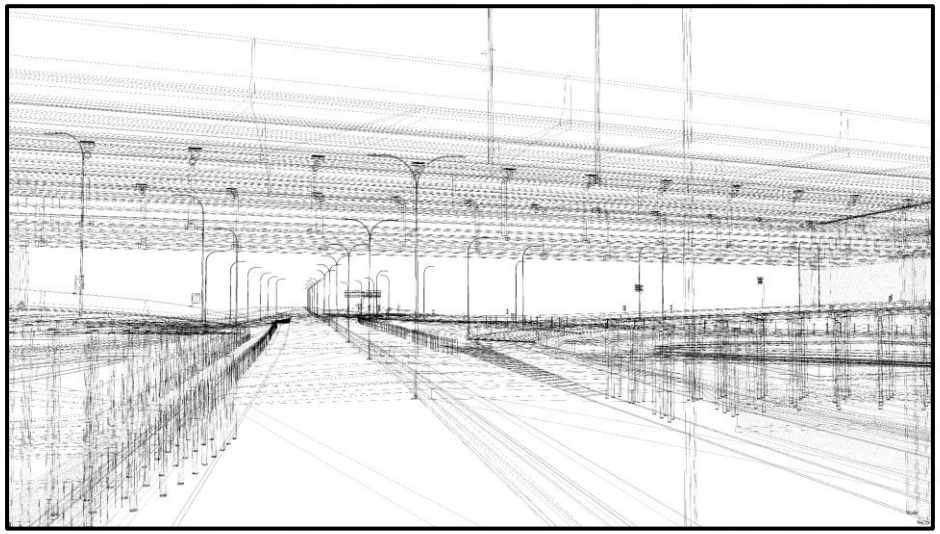


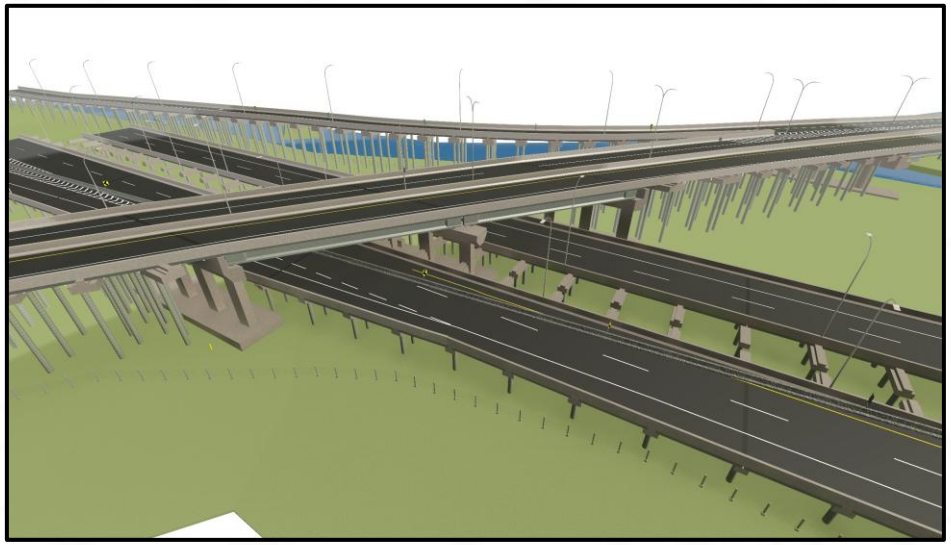
Point Cloud Data

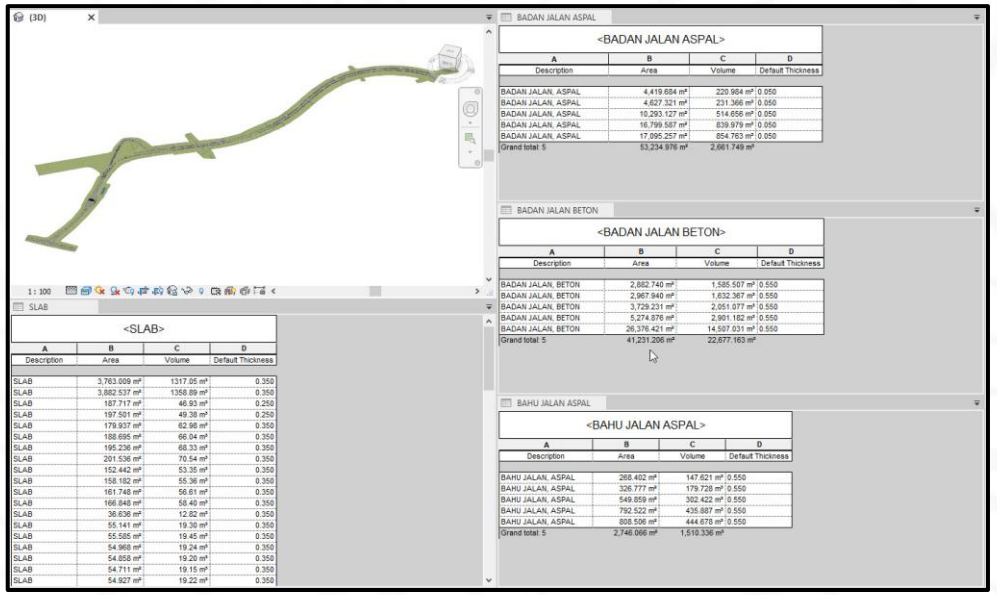


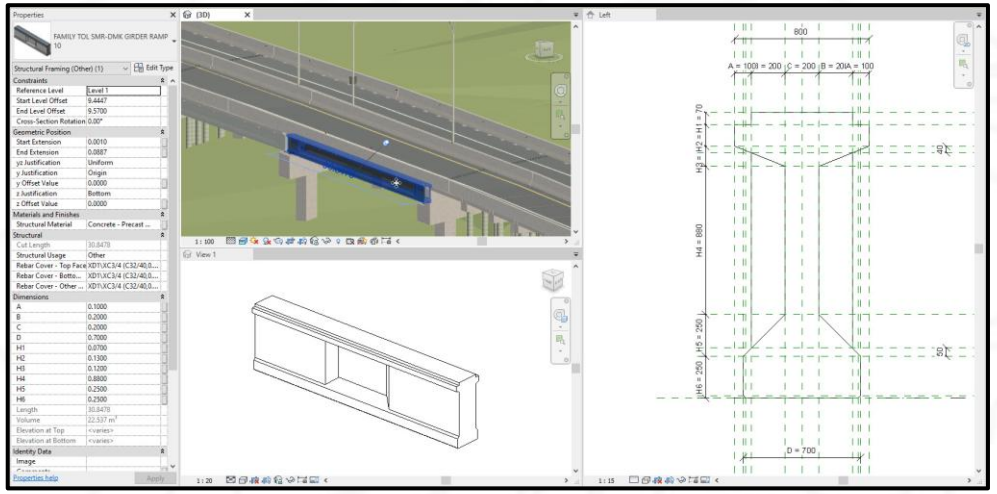
3D Model

APLIKASI LASER SCANNING UNTUK BIM (BUILDING INFORMATION MODEL)









ENGINEERING & INSPECTION

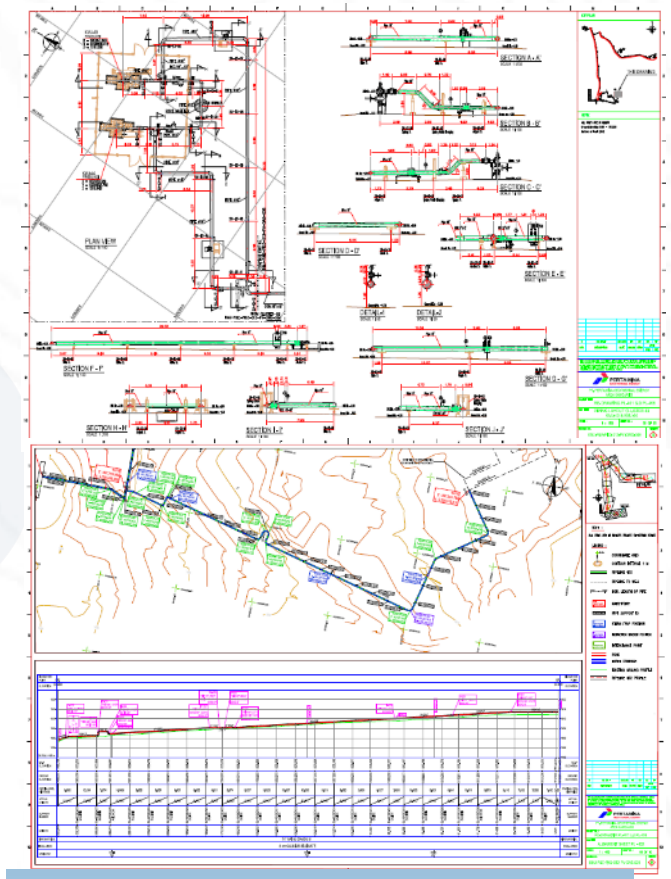
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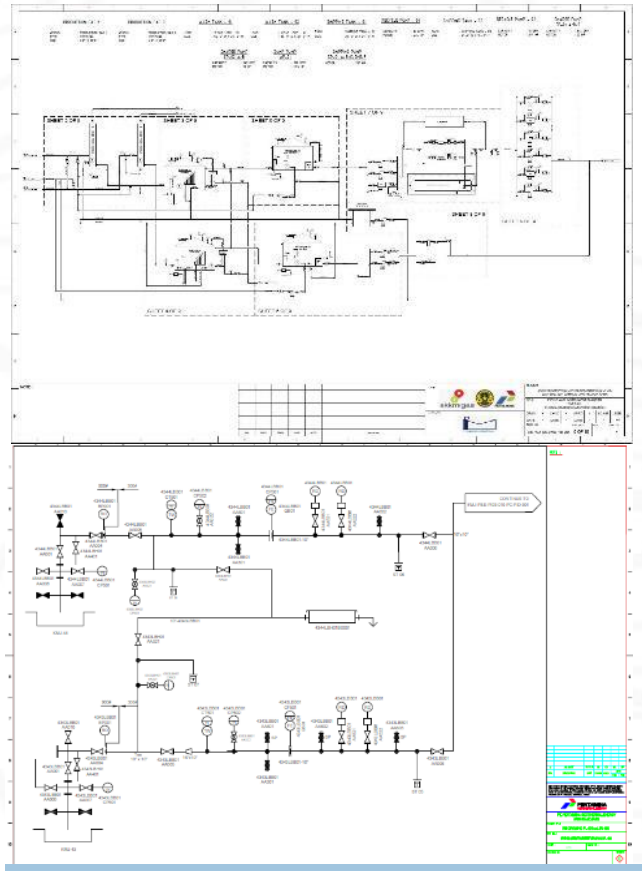
Engineering Support Works

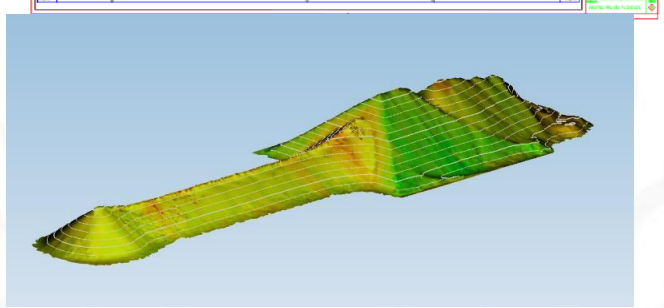
- FEED
- Mechanical Engineering
- Piping & pipeline design
- Process Engineering
- Civil Structure analysis
- PFD, P&ID, Isometric Piping, plot plant

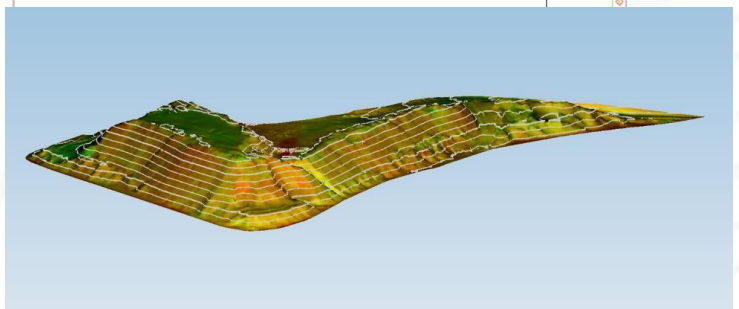
Inspection Works

- Stock pile volume calculation
- Storage tank calibration
- Dimension control
- SAFE Chart
- HAZOP / HAZID









SCOPE OF WORK

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"Dutabasis Support Services untuk **owner, kontraktor, dan EPC** dalam **merencanakan, memonitor, dan mengelola aset** infrastruktur & industrial plant melalui **Survey, 3D laser scanning, BIM, dan integrasi IoT untuk smart asset management**."

1. PERENCANAAN PEMBANGUNAN (PROJECT PLANNING)

Tujuan:

•Menyediakan **data dasar akurat** untuk desain dan perencanaan untuk Mengurangi risiko kesalahan desain dan revisi pada proyek.

Layanan & Aplikasi:

•*3D Laser Scanning untuk **As-Built Base Map**.*
•*Topographic Survey & Aerial Mapping.*
•Feasibility Study & Data GIS.
•Renovation Planning.

Output:

3D Base Map (.e57/.rcp)
GIS Layer + Laporan Teknis

3. AKHIR PROJECT (AS-BUILT DOCUMENTATION)

Tujuan:

•*Membuat **dokumentasi final** proyek yang akurat.*
•*Menjadi dasar untuk serah terima proyek & perawatan aset.*

Layanan & Aplikasi:

•*3D and 2D As-Built Drawing.*
•*Point Cloud Deliverables.*
•*Integrasi BIM Final.*
•*Verifikasi kondisi akhir.*

Output:

•As-Built Drawing (2D/3D).
•Technical Documentation
•*BIM Primitive Modelling*

5. BIM FOR DATA MANAGEMENT & SMART INTEGRATION

Tujuan:

•Mengintegrasikan **BIM** dengan **sistem manajemen data** untuk memonitor parameter operasional bangunan & plant secara digital dihubungkan dengan **Building Management System (BMS)**, **OEE**, dan **IoT sensor**.

Layanan & Aplikasi:

•Integrasi BIM dengan **CCTV, HVAC, Fire Safety, Lighting, Elevator**.
•Monitoring parameter energi, suhu, kelembaban, tekanan.
•Integrasi dengan **OEE (Overall Equipment Effectiveness) dan BMS/SCADA** untuk plant performance dan Smart Facility.
•***Output:***
•BIM Connected Model (BIM + BMS + IoT).
•Real-time Monitoring Dashboard.
•Insight KPI operasional gedung & plant.
•Smart Facility Digital Twin



2. PROGRESS MONITORING & PROJECT CONTROL

Tujuan:

•**Memantau progress proyek secara real-time**.
Dan Membandingkan rencana vs realisasi dengan akurasi tinggi.

Layanan & Aplikasi:

•*Periodic 3D Laser Scanning.*
•*Deviation Analysis & Clash Detection*.
• Integrasi dengan Primavera/MS Project.

Output:

•Dashboard online + laporan deviasi.
•Visualisasi progress 4D.
•Dokumentasi monitoring.

4. ASET VISUALISASI & DIGITAL TWIN

Tujuan:

•Menyediakan visualisasi aset berbasis data **real-time**.
•Mempermudah inspeksi, pemeliharaan, dan pengelolaan aset.

Layanan & Aplikasi:

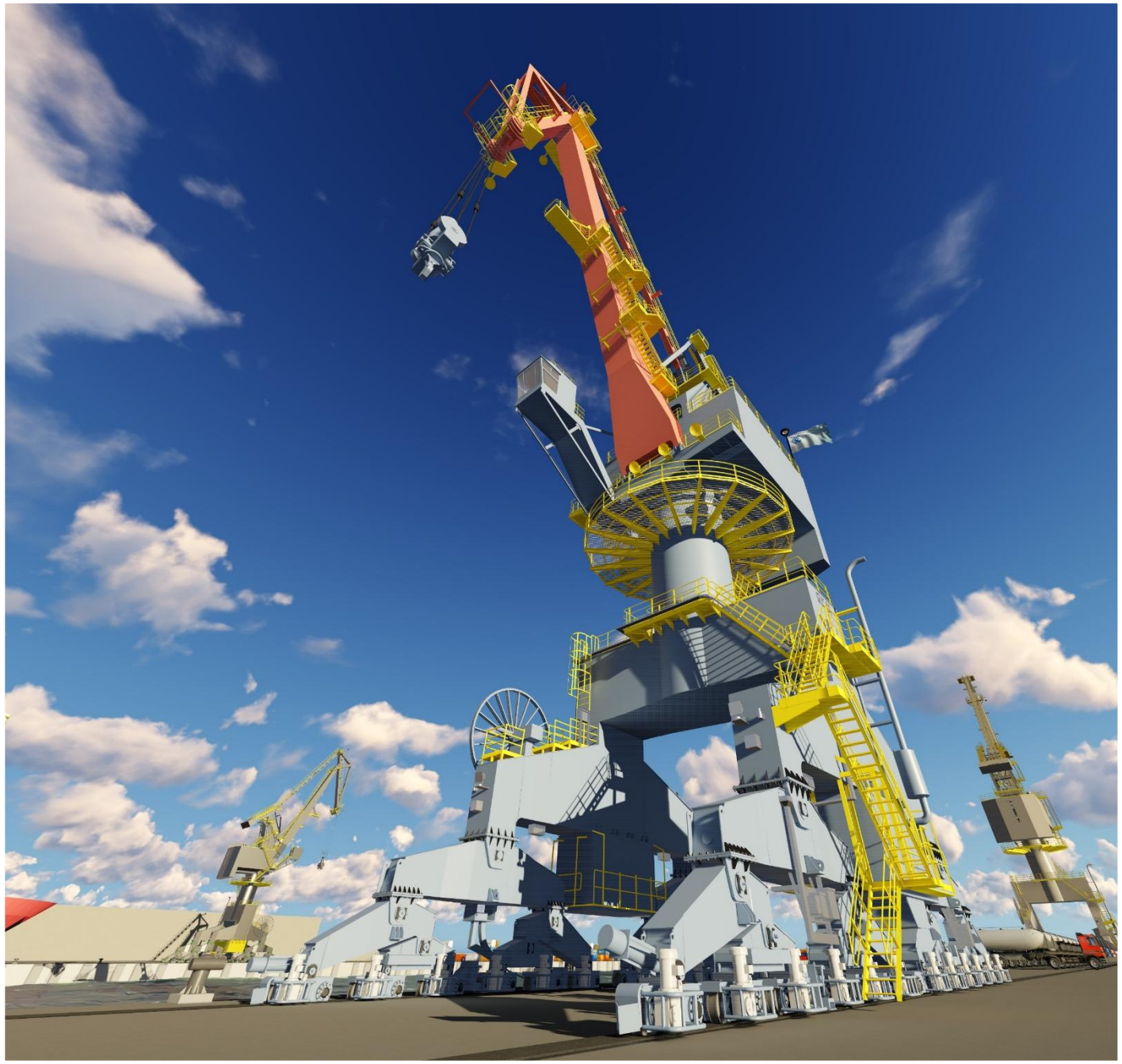
•360° Virtual Tour.
•Digital Twin Platform.
•Photogrammetry.
•Visualisasi VR/AR.

Output:

•Digital Twin Platform.
•Asset Management Dashboard.
•360° Web Viewer.

PROJECTS

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Energy Processing Plant



3D As Built Survey for RU VI Balongan Plant

Client / Owner
LAPI ITB/ Pertamina RU IV Balongan

Location
Pertamina Refinery Unit VI Balongan, Indramayu,
West Java, Indonesia

Project Desc.
Provide 3D Point Cloud Data using Telestial Laser Scanning Survey Method
Produced As Built Semi Intelligent 3D Model



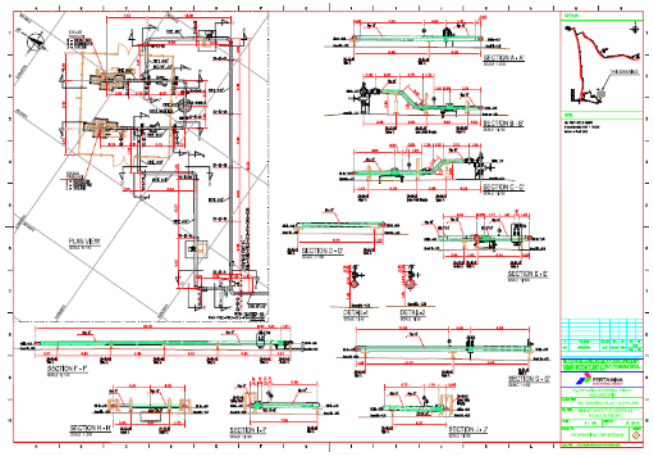


PROJECTS

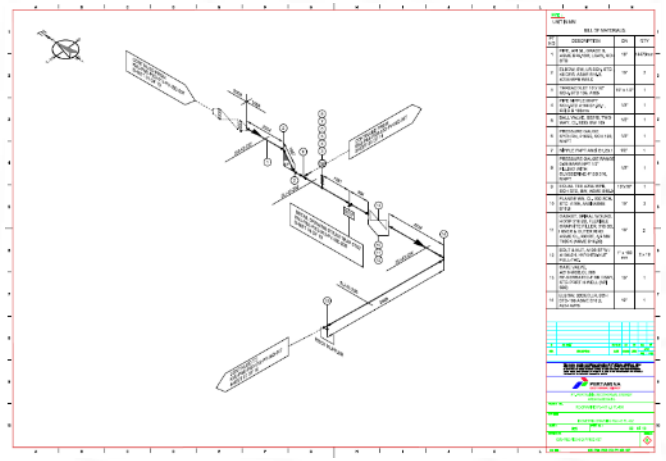
Energy Processing Plant

3D As Built Survey for PGE Kamojang & Lahendong Plant

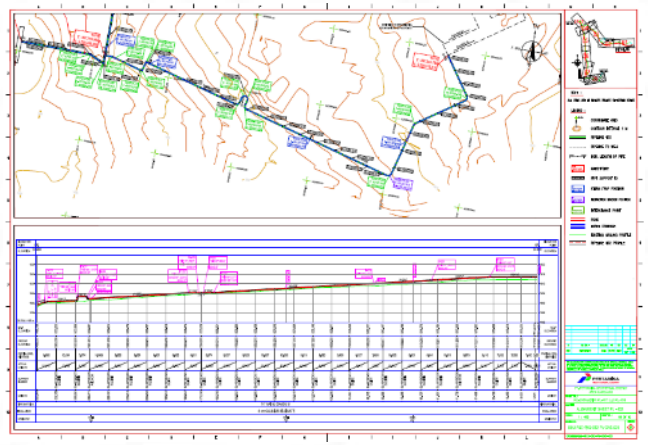
Piping Plan & Section



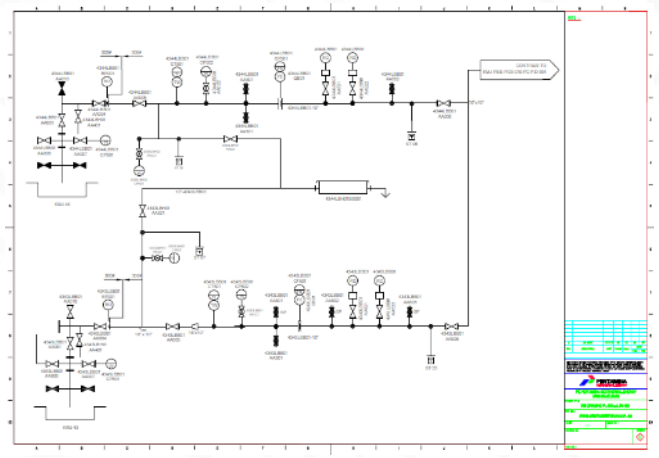
Isometric Drawing



Piperun Alignment Sheet



P&ID



Client / Owner

Pertamina Geothermal Energy, Kamojang & Lahendong Plant

Location

PGE Kamojang Plant, Garut, West Java, Indonesia
PGE Lahendong Plant, Manado, North Sulawesi, Indonesia

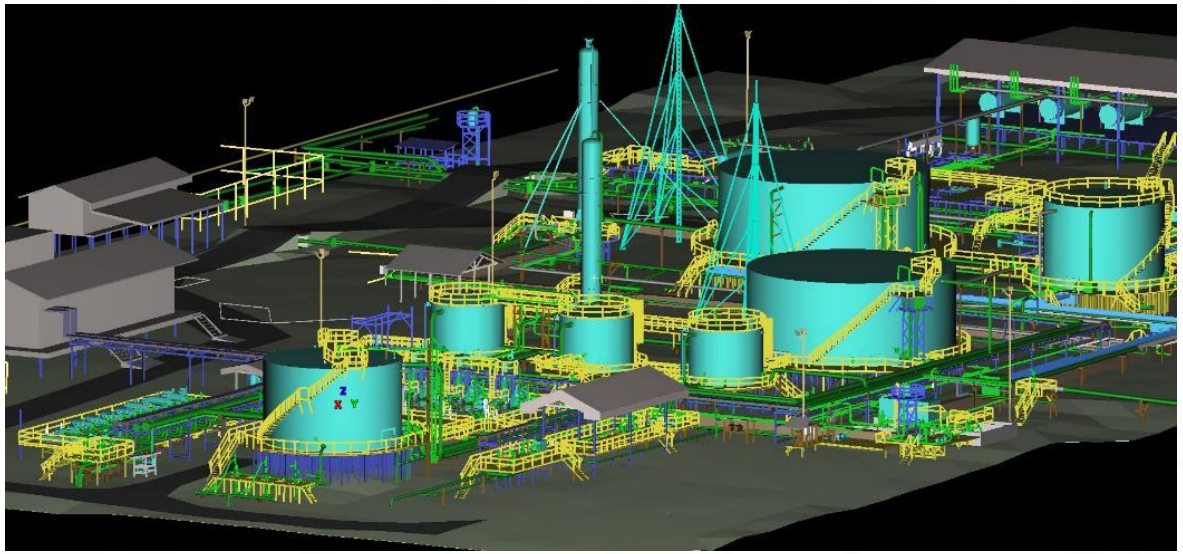
Project Desc.

Provide 3D Point Cloud Data use Telestial Laser Scanning Survey Method
Produced As Built 3D Model, As Built Drawing (PFD, P&ID, Isometric, Piping Plan, Alignment Sheet)



PROJECTS

Energy Processing Plant



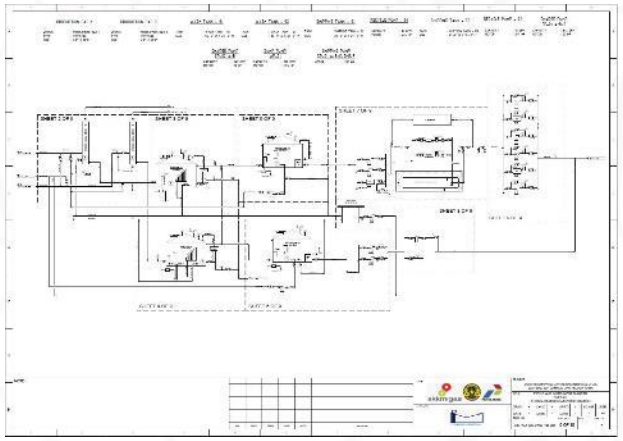


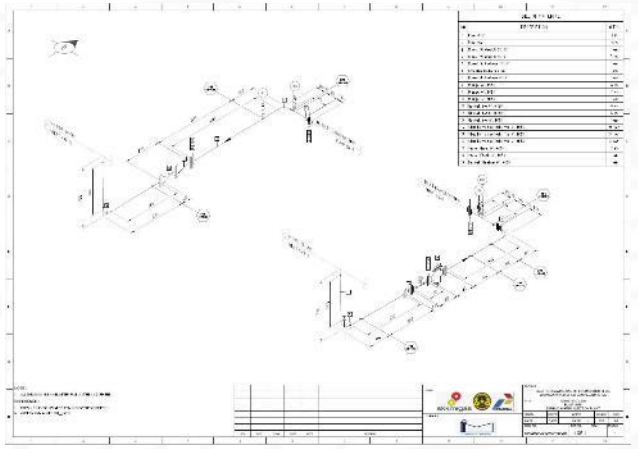
3D As Built Survey for BOB BSP – Pertamina Hulu Plant

Client / Owner
BOB BSP – Pertamina

Location
Gathering Station Zamrud, Pusaka, Kasikan, Pedada, Osam, Terantam at Riau, Indonesia

Project Desc.
Provide 3D Point Cloud Data using Telestial Laser Scanning Survey Method
Produced As Built 3D Model, As Built Drawing (PFD, P&ID, Isometric, Piping Plan)





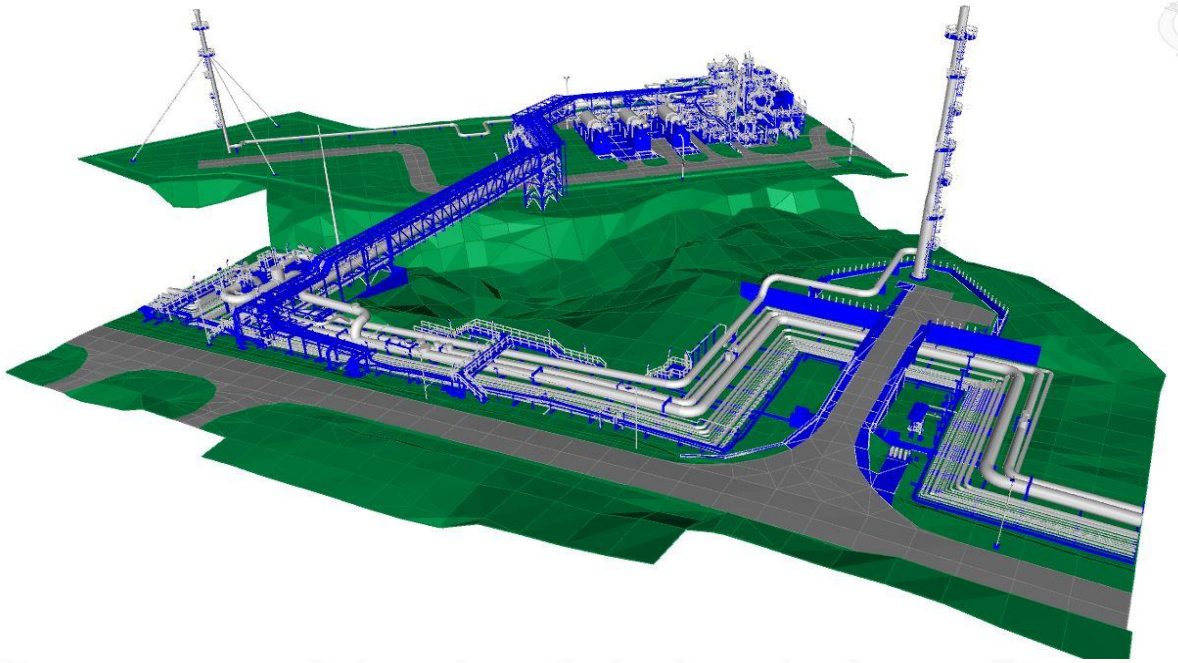
PROJECTS

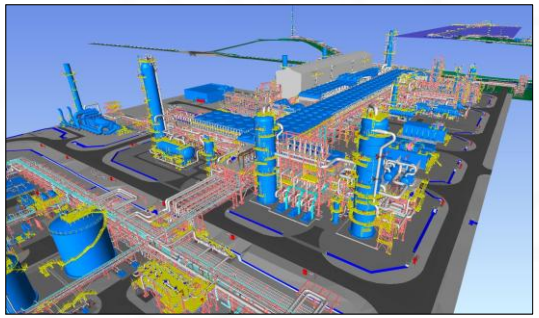
GAS FACILITIES

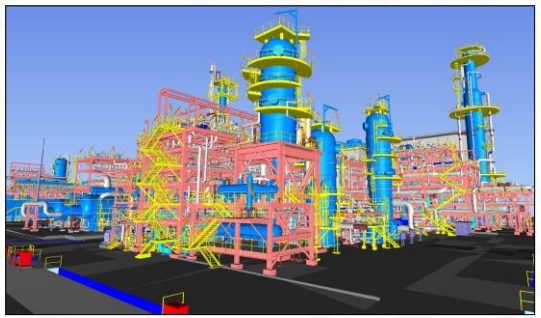














BP TANGGUH

Award Tender

Client / Owner

BP Berau Ltd.

Location

Tangguh LNG Papua

Project Description

3D Laser Scan For Tangguh Train-3 and Other Tangguh Facilities

1. LNG Train 3
2. ORF & RS
3. Plant Utility
4. WDA
5. ROA
6. LNG Loading Line and KO Drum
7. BOG
8. Flare KO
9. Loading Dock
10. Integrated Waste Mgmt. Plant

PROJECTS

VESSEL & BWTS

3D As Built Survey for CINTA NATOMAS Vessel

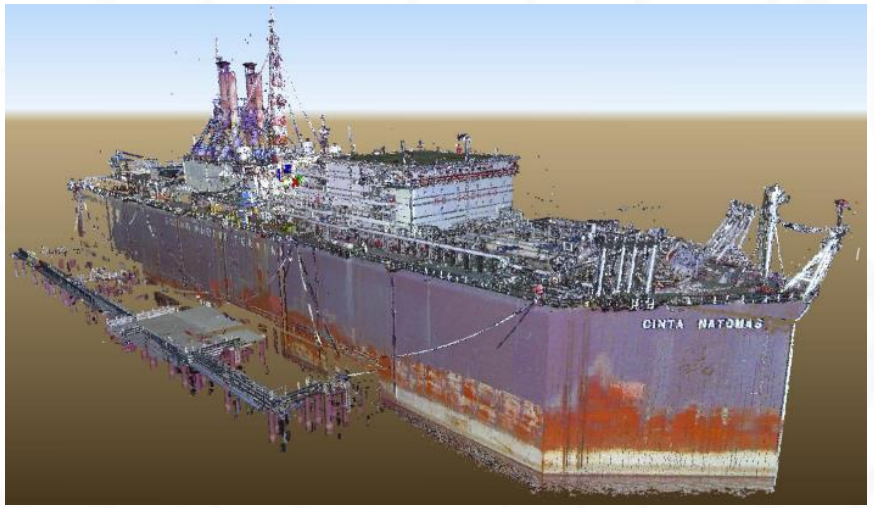


Client / Owner
PT. Elnusa (Cinta Natomas Vessel)

Location
Berthing at Celukan Bawang Seaport, Bali,

Project Desc.
Provide 3D Point Cloud Data use Telestial Laser Scanning Survey Method
Produced As Built 3D Model, As Built Drawing

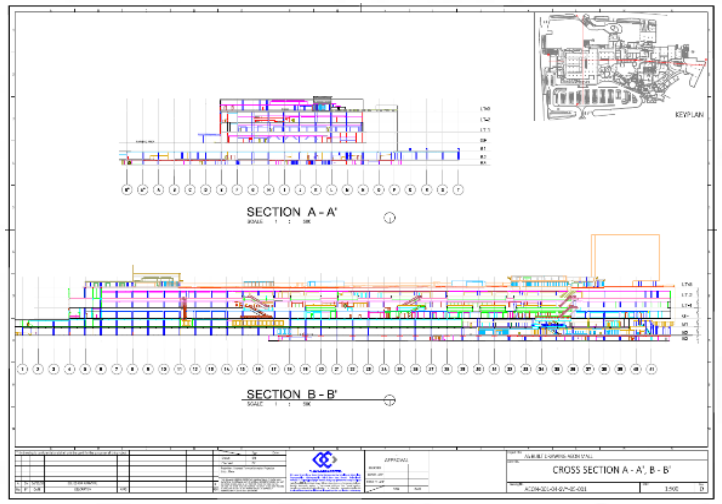


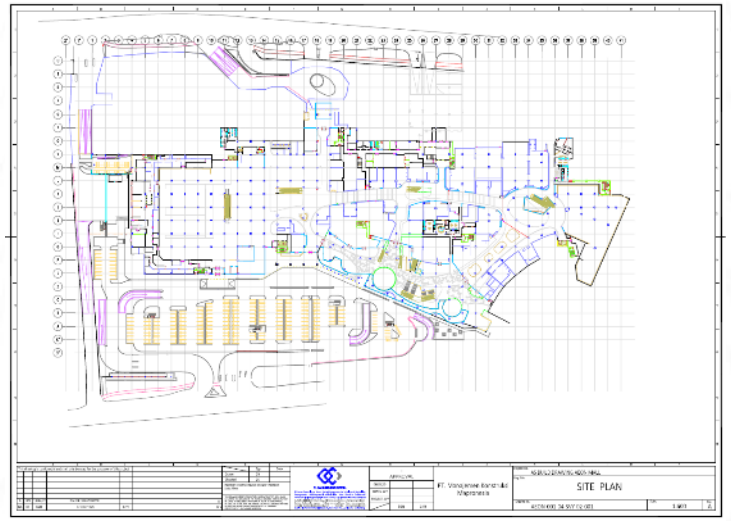


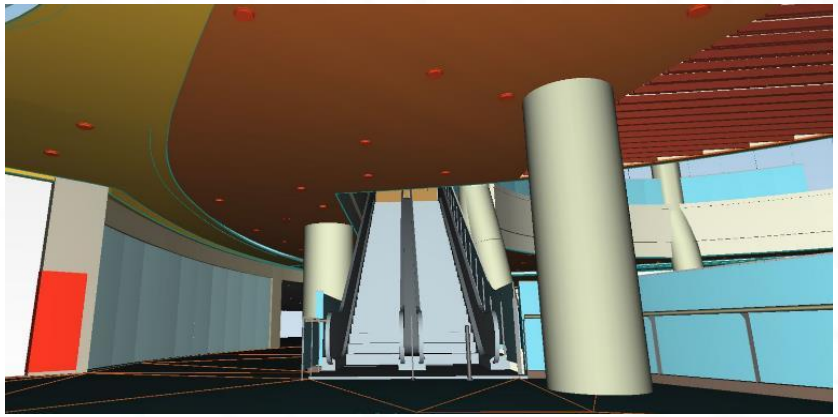


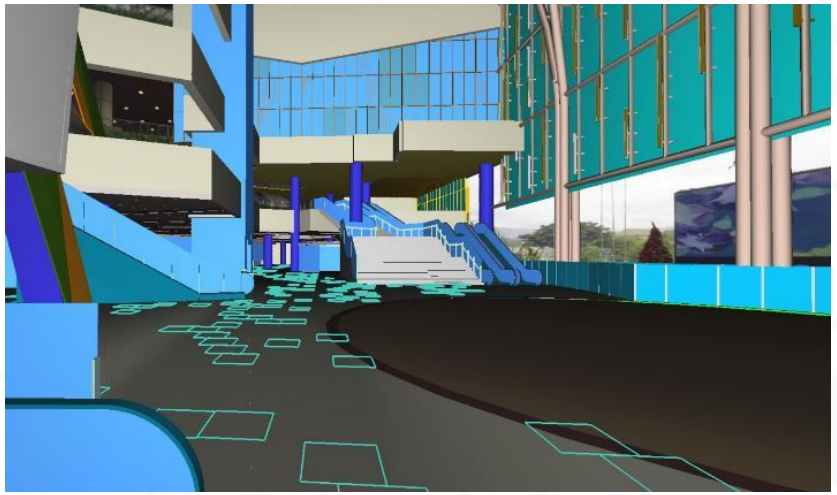
PROJECTS

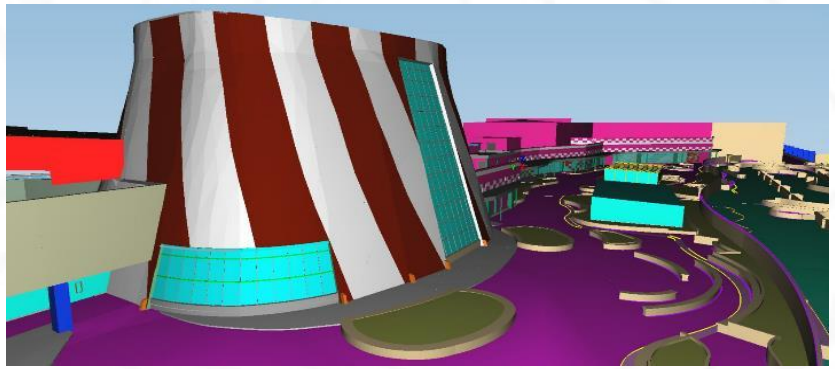
BUILDING & INFRASTRUCTURE











3D As Built Survey for AEON Mall Property at Sentul City

Client / Owner
Mapronesia / Aeon Mall Sentul City

Location
AEON Mall Sentul City, Bogor, West Java, Indoinesia

Project Desc.
Provide 3D Point Cloud Data use Telestial Laser Scanning Survey Method
Produced As Built 3D Model , As Built Drawing (Plan, View, & Section),

PROJECTS

BUILDING & INFRASTRUCTURE



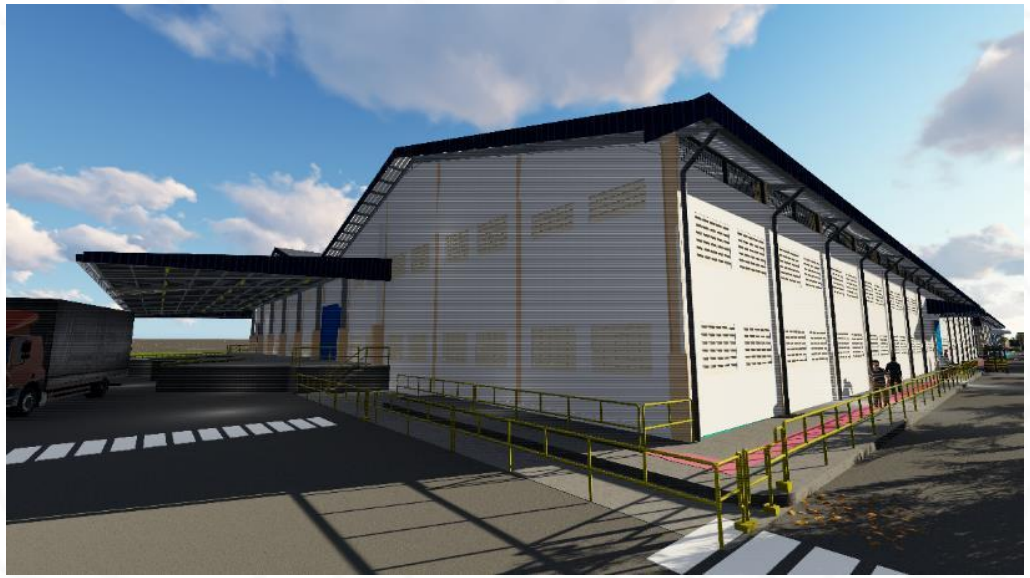
3D As Built Survey for Heinz-ABC Processing Plant

Client / Owner
HDV Royal Haskoning / Heinz ABC

Location
Heinz ABC Processing Plant, Karawang Plant, West Java, Indonesia

Project Desc.
Provide 3D Point Cloud Data use Telestial Laser Scanning Survey Method & Aerial Photography.
Produced As Built 3D Model , As Built Drawing (Plan, View, & Section), Orthophoto Map





PROJECTS

BUILDING & INFRASTRUCTURE





3D As Built Survey for The Westin Resort Property

Client / Owner
PT.BAMKO Karsa Mandiri / Westin Hotel & Resort

Location
The Westin Resort Nusa Dua, Bali, Indonesia

Project Desc.
Provide 3D Point Cloud Data use Telestial Laser Scanning Survey Method & Aerial Photography.
Produced As Built 3D Model , As Built Drawing (Plan, View, & Section), Orthophoto Map



Orthophoto Map

BUILDING & INFRASTRUCTURE



3D As Built Survey for Halim Perdana Kusuma Int. Airport

Client / Owner
UCS/ Angkasa Pura II

Location
Halim Perdana Kusuma Int. Airport, Jakarta, Indonesia

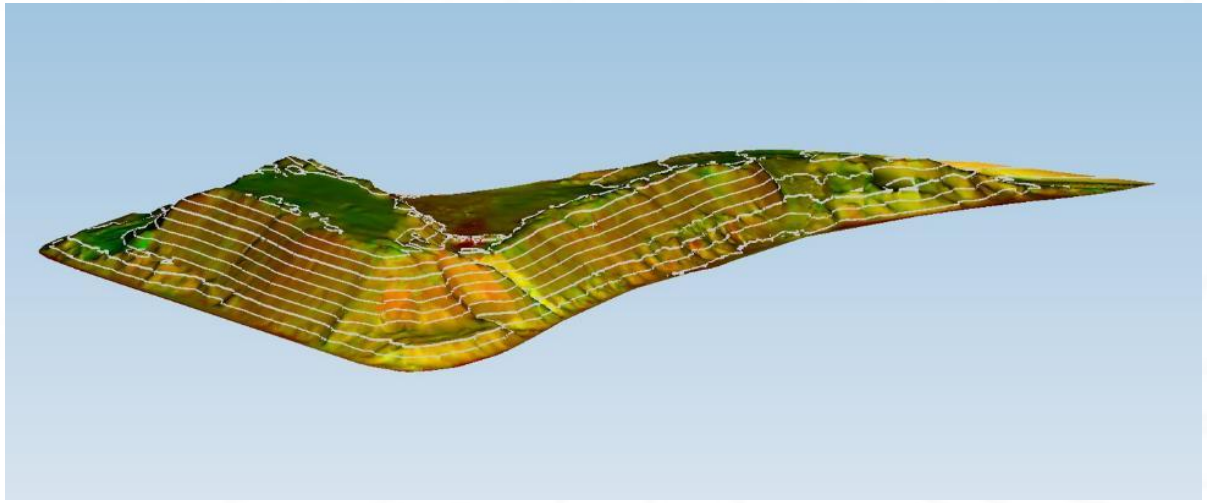
Project Desc.
Provide 3D Point Cloud Data using Telestial Laser Scanning Survey Method
Produced As Built 3D Model , As Built Drawing

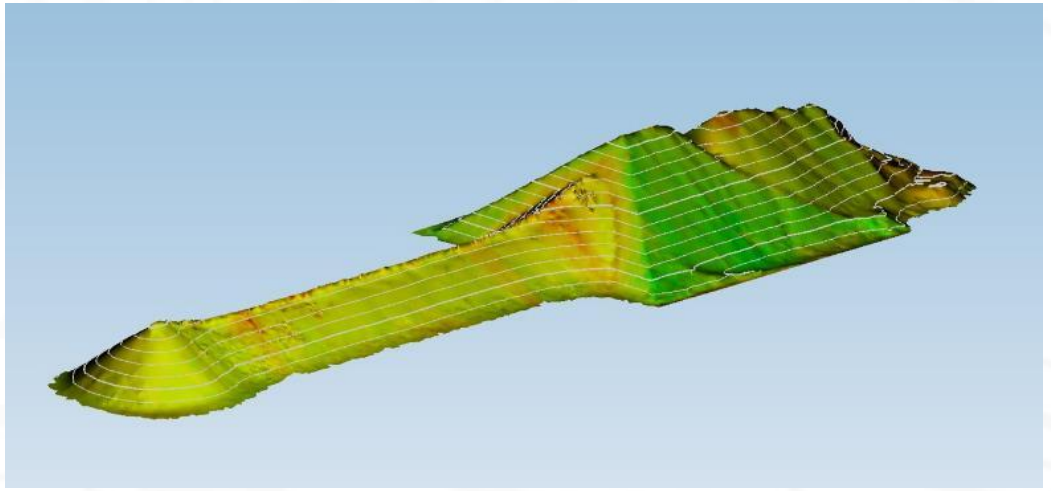


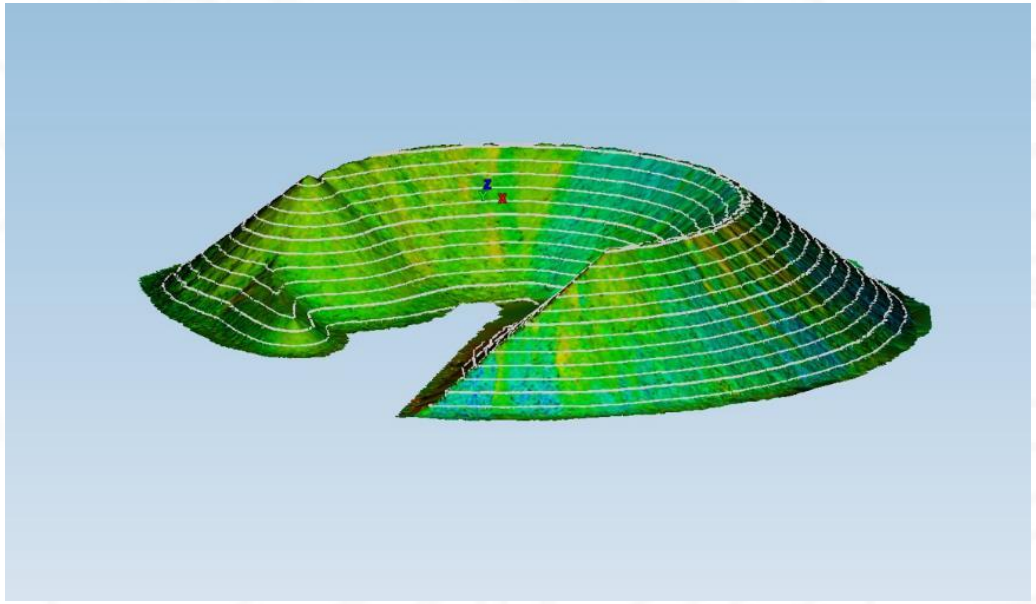


PROJECTS

STOCK PILE VOLUME CALCULATION







3D As Built Survey for SBI Stock Pile

Client / Owner
Sucofindo / Solusi Bangun Indonesia

Location
Solusi Bangun Indonesia Processing Plant, Narogong, West Java, Indonesia

Project Desc.
Provide 3D Point Cloud Data use Telestial Laser Scanning Survey Method for Volume Calculation
Produced Volume Calculation Report

CONSTRUCTION SURVEY SERVICES

Construction Precision Survey Services for Milling Capacity Expansion Project

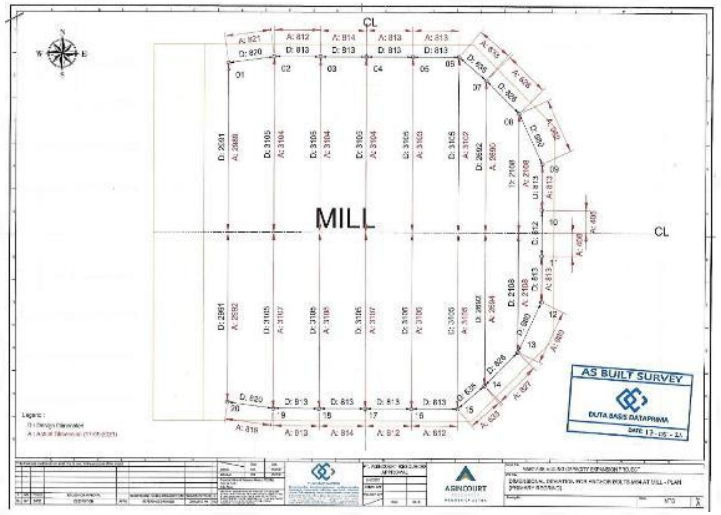


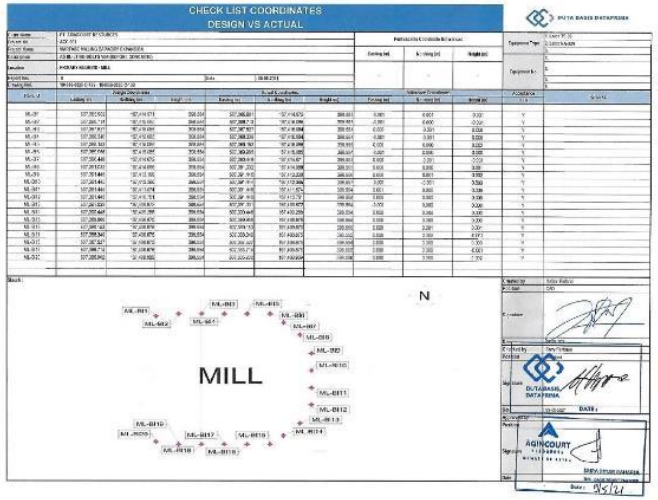


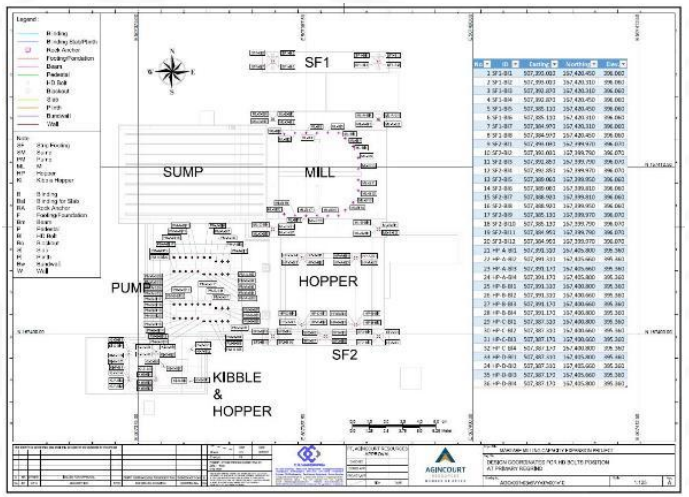
Client / Owner
Agincourt Resources

Location
Martabe Gold Mine, PT. Agincourt Resources, Batang Toru, North Sumatera, Indonesia

Project Desc.
Provide Precision Construction Survey for Milling Capacity Expansion Project use Total Station & Digital Waterpass, Produced Detail Coordinate Design Drawing & Comparison Design & Actual Survey Report







PROJECTS

DGPS SURVEY



DGPS Survey For Inline Inspection

Client / Owner
PT WWI / PT Trans Gas Indonesia

Length
536km

Location / Section
Jambi / Grissik to Duri

SOW
- Planning – Observation – Processing Receiver, Launcher and AGM Point



PROJECTS

CLIENTS

DUTA BASIS DATAPRIMA
Experience Excellence





OIL & GAS COMPANY

PERTAMINA GEOTHERMAL ENERGY

elnusa fabrikasi konstruksi

ENERGI MEGA PERSADA

PLN

PERTAMINA GAS NEGARA

pgn energy for life

LERINDRO INTERNASIONAL

gsi

Wilson Walton Indonesia

elnusa

bp

PROPERTY COMPANY

AlfaLand

LIPPO

JAYA ANCOL PT Pembangunan Jaya Ancol, Tbk

GOVERNMENT

KEHUTANAN REPUBLIK INDONESIA

KEMENTERIAN PERTANIAN REPUBLIK INDONESIA

CLIENTS

OTHER COMPANY

Royal HaskoningDHV
Enhancing Society Together

UCS

LAPI Ganesha Utama
A Solution Provider

AGINCOURT RESOURCES
MEMBER OF ASTRA

Petra Energy

APRIL
PT. RIAU ANDALAN PULP AND PAPER
(APRIL GROUP)

VALE

ZENER
MARITIME SOLUTIONS

supreme energy

TPPI

FajarPaper
member of SCGP

SUCOFINDO

HANOCHEM
TIÄKÄ SAMUDERA

Goltens

PT.LAPI ITB

EDII
Member of IPC

sda

MULTISTRADA
ARAH SARANA Tbk

COMO
ENGINEERS

tripatra

CLIENTS

Clients Testimonials

“Service 3D laser scanning yang dilakukan oleh PT Duta Basis ini sangat membantu bagi kami dalam melakukan re-drawing fasilitas pemipaan terpasang kami yang kurang lebih 25 km dengan lebih akurat, detail sampai part terkecil yang terpasang di pipa dan mengupdate keadaan lebih real. Output 3D ini juga dapat merepresentatifkan kondisi lapangan terutama sebagai view manajemen kami sehingga tidak memerlukan datang langsung ke lapangan, dan juga kebutuhan asesmen teknis lainnya. PT Duta Basis memiliki SDM yang kompeten di bidang ini, terbukti dari kesesuaian waktu eksekusinya dan memiliki peralatan sendiri secara lengkap untuk kebutuhan 3D ini. Selain itu, pada saat pengerjaan 3D ini, PT Duta Basis juga mampu mengerjakan gambar 2D turunannya baik mulai dari PFD, P&ID, pipe layout, plot plan, alignment sheet, sampai dengan isometric drawing lengkap dengan BoM nya. Sangat direkomendasikan untuk pengerjaan 3D laser scanning.”

Rizali Ghani
Senior Analyst Operational &
Partnership Risk
Pertamina Geothermal Energy

“Pengalaman bekerja sama dengan Duta Basis sangat memuaskan baik dari aspek peralatan yang digunakan dan juga manpower yang ikut dalam projek. Peralatan yang digunakan up to date dan high spek sehingga dalam proses akuisisi data menjadi lebih efektif dan effisien dan didukung sumber daya manusia yang berpengalaman. Dan tidak kalah penting pada tahap prosesing data, peralatan dan sumber daya manusianya bisa diandalkan. Jika ada projek mengenai 3D Laser Scanning, PT Duta Basis bisa diandalkan.
Terima kasih.”

Afrizal Manaf
Piping Engineer
PT Kilang Pertamina Internasional

“Duta Basis dapat menyelesaikan Pekerjaan 3D Laser Scan untuk 7 unit di RU VI Balongan dengan waktu pengerjaan yang sangat singkat yaitu 2 bulan. Dalam waktu 2 bulan tersebut, mayoritas 3D Model sudah tercapture, memang dengan waktu yang singkat, detail modelling untuk equipment dengan ukuran yang kecil menjadi sangat kompleks dan membutuhkan durasi pengerjaan yang lebih lama. Secara keseluruhan Pekerjaan 3D Laser oleh Duta Basis sudah memuaskan, jika membutuhkan output 3D Model yang detail, diperlukan waktu pengerjaan yang lebih panjang atau dengan menambahkan manpower dalam proyek tsb”

Alvin H
Project Engineer
PT Kilang Pertamina Internasional

“Kami sudah 1 tahun lebih menggunakan team surveyor dan drafter dari Dutabasis, sejauh ini kami puas sekali dan merasa sangat nyaman bekerja sama dengan team Dutabasis. Sebelumnya kami sudah menggunakan perusahaan surveyor lain yang reputable dan sangat berpengalaman dan kami coba ganti dengan team Dutabasis dan hasil yang kami dapatkan jauh lebih memuaskan dibanding dengan perusahaan sebelumnya. Dutabasis memiliki surveyor yang sangat berpengalaman di bidang konstruksi, topografi Dan earth work serta drafting yang juga berpengalaman untuk menampilkan type permodelan yang kami inginkan. Sukses selalu buat Dutabasis, tetap konsisten dengan team team yang berpengalaman Dan attitude yang baik.
Salam”

Dede Abdusyawal
Senior Project Engineer
PT Agincourt Resources

CLIENTS

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Thank You

Do you have any questions?
Don’t hesitate to contact us!

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Email : wildan@dutabasis.com or yogi.sujana@dutabasis.com
Website : www.dutabasis.com