Khmer
Geographic
Institute

Groupe
ATGT

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Khmer Geographic Institute

Groupe ATGT

Groupe ATGT

Through its nine entities - ATGT Géomètre-Expert, ATGTSM, ATGT Topo3D, ATGT Ingénierie, GEOS IMAGES, ATGT Tunisia, ATGT Ivoire, KGI (Cambodia), and ATGT Canada the ATGT Group helps you understand the region.

16000000	200	77	5
Turnover in euros	Employees	Professional Seniority	International Coverage

Land registry

topography & property appraisal.

More +

Real Estate

EEstate appraisal from design to renewal or demolition of the property unit.

More +

Development

Studies for development or modification of an entire neighborhood.

More +

Infrastructure

A 3D transport infrastructure network database is available.

More +

Networks

Underground network detection.

More +

Sanitation & water

Topographic studies in confined space environments.

More +

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Khmer Geographic Institute

Since 2014

Khmer Geographic Institute (KGI) is a company specializing in **PhOTOgrammetry** and **LiDARgrammetry**.
Our mission is to measure the earth in order to safeguard it.

KGI is a company that embraces the philosophy of sustainable development, training local staff of all levels in the science of photogrammetry.

KGI director David Mac Cartney has managed some of the world's largest aerial photogrammetry projects for clients such as Microsoft and Google.

Today, KGI benefits from over **28 years** of experience.
ATGT Groupe is a shareholder of KGI, and can respond to any size international project.

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David Mac Cartney

28 years of international expertise

1996	InfoPict. Distributor of Cities Revealed technology, on-shelf orthophoto of Paris with viewer
1997	Co-founder of InterAtlas
1998	France's largest GSD 25cm orthophoto project covering more than 4,500 km2 in the Paris region
2000	1,200 km2 of GSD 12.5 cm orthophotos in the Lyon urban area - 2,400 km2 in the Paris region
2001	IGN's first co-production contract with a private player, 4,000 km2 around Paris GSD 50cm
2002	3,000 km2 GSD 12.5cm in the Paris region - 800 km2 Saint-Etienne, and 300 km2 Nancy GSD 20cm
2003	First digital flight in France with Intergraph camera - DMC - Ziimaging
2003	Paris and Cergy Pontoise at 12.5 cm and Reims at 16 cm
2004	5,000 km2 with Vexcel UltraCam D digital camera - Marseille, Aix, Lyon, Orléans GSD 20cm
2005	7 000 Km2 en région parisienne GSD 12,5cm UltraCam D + **LiDAR** Optech 31000
2006	Purchase of France's first digital camera UltraCAm D and aircraft manufacturers Cophaipa and Sphair
2007 - 2014	Microsoft, Google, Page Jaune, CBRE... Coverage France urban GSD 6,25cm and departmental 20 cm
	Urban : 30 000 km2
	Rural : 300,000 km2
	33 properties in the Paris region acquired in 3D - oblique system developed in-house innovative company OSEO Anvar
	DMC was in charge of production and R&D and processed over 1 million photos during this period.
2014 - 2024	Founder and director of KGI, which will become a subsidiary (63%) of the ATGT Group in 2021
	Offshore photogrammetry production center and photo and LiDAR facility
	First LiDAR system in Cambodia, bought with JEB Engineering
2025	ATGT becomes the majority shareholder of KGI

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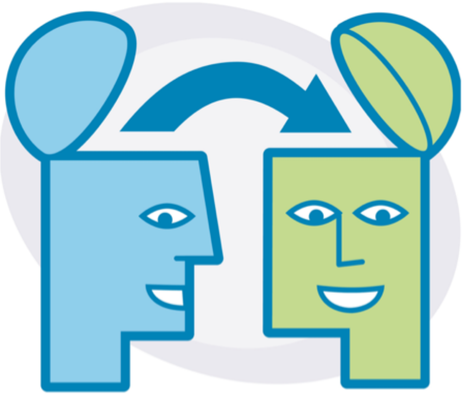
A Cambodian company

with International specialists



and a local well trained team

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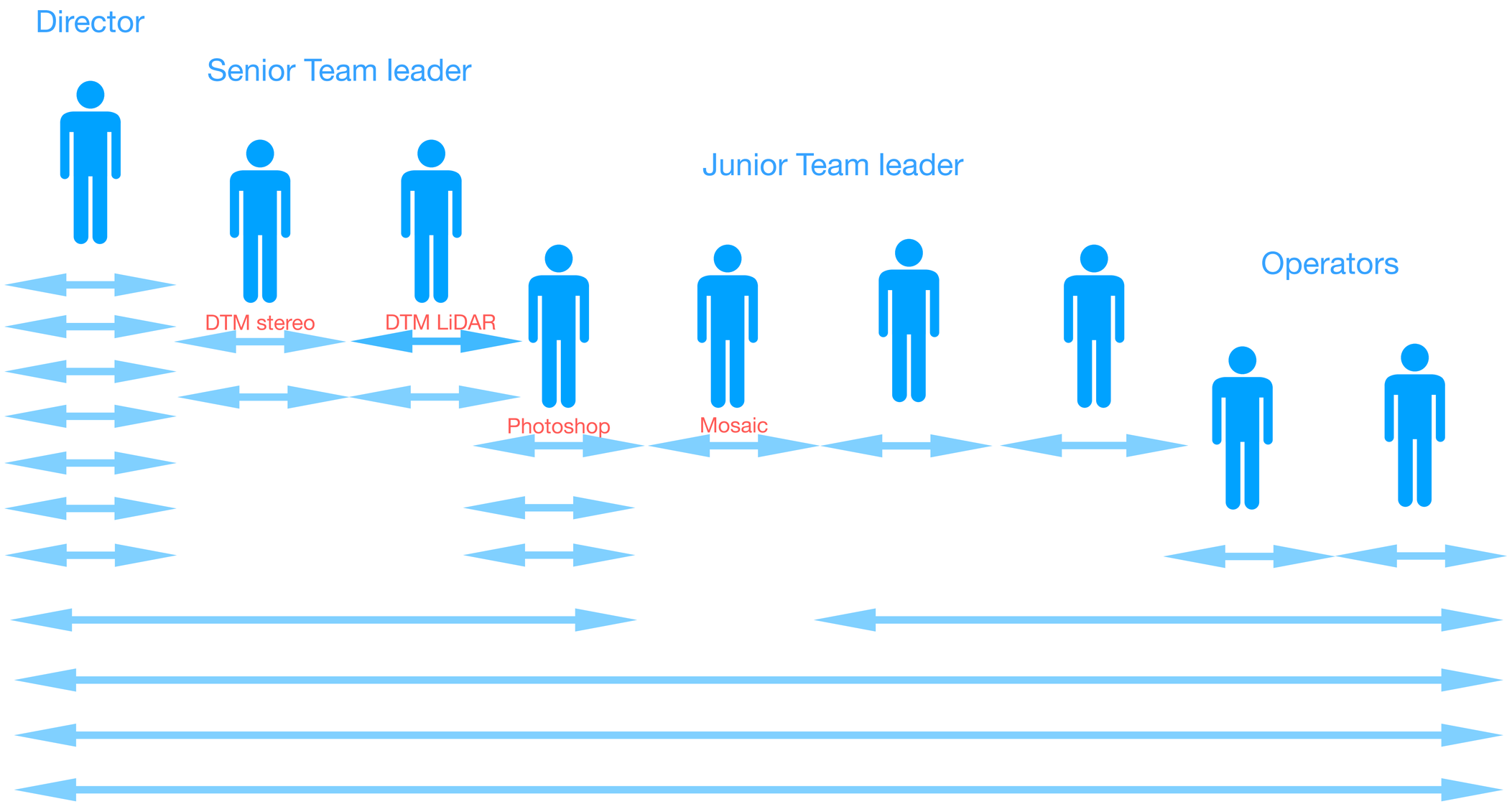

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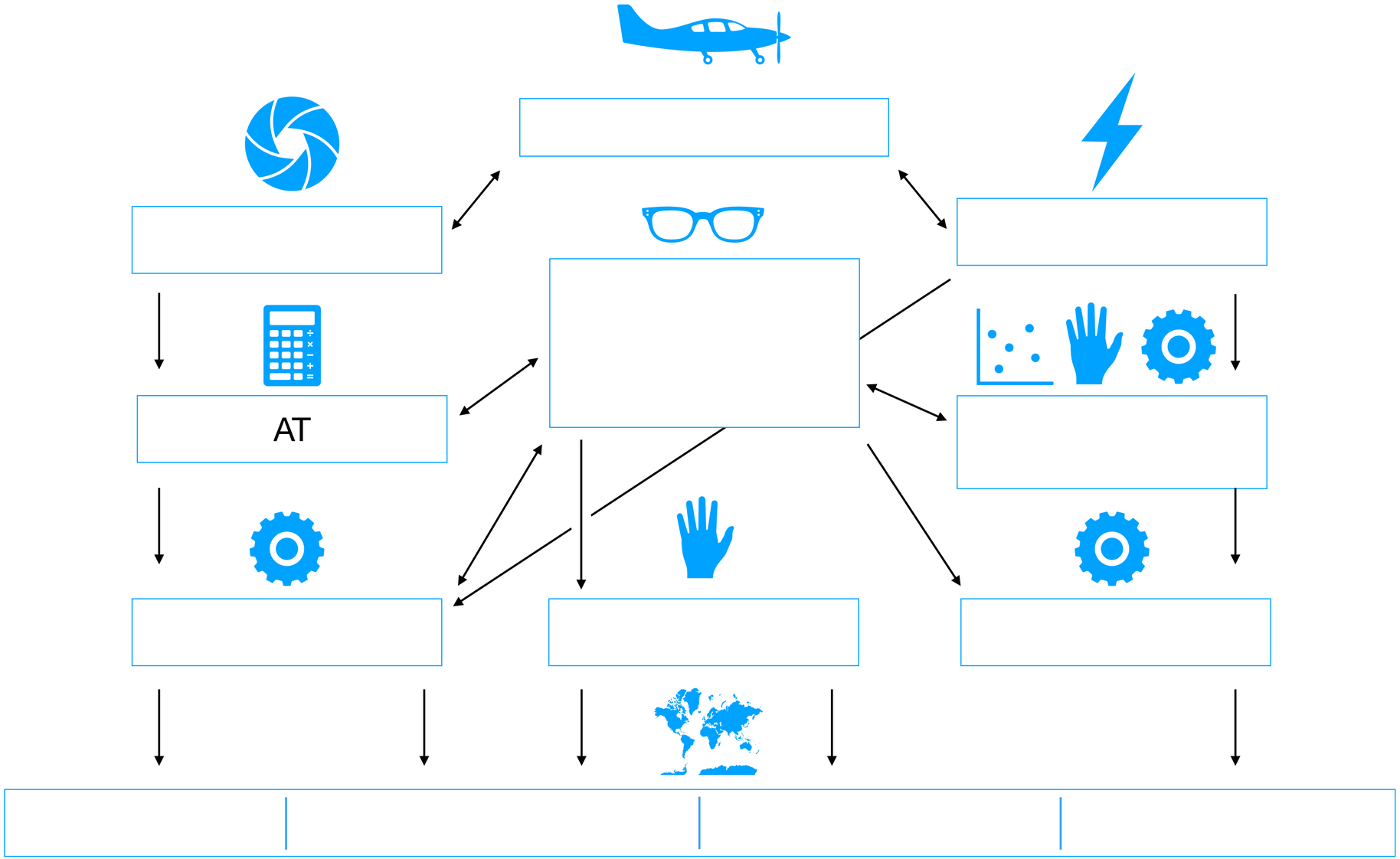

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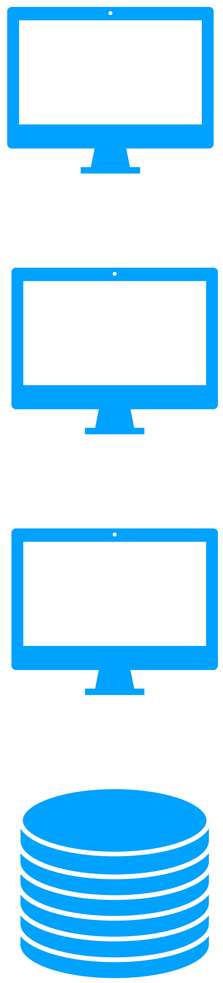

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- 1 x Match-AT - AT
- 1 x Match-3DX - SGM DOP
- 3 x DTMaster - stereoplotter - DOP & LiDAR
- 2 x Orthomaster - DOP (digital ortho photos)
- 3 x ORTHO Vista - Radiometry, Mosaic lines and Tilling
- 1 x MetaShape - AT - DEM - DOP
- 1 x LASTools, 1 x Strip Alignment (Baysmap) - LiDAR
- 1 x POSPac Applanix + StarSolve for Genius - LiDAR

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DISTRIBUTOR

Metashape

Discover intelligent photogrammetry & LiDARgrammetry

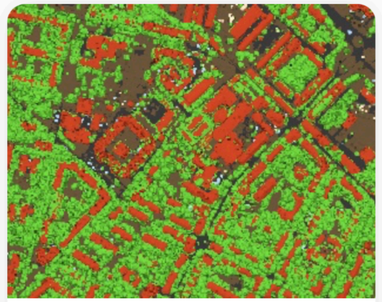
Photogrammetric triangulation

Processing of various types of imagery: aerial (nadir, oblique), close-range, satellite.

Auto calibration: frame (incl. fisheye), spherical & cylindrical cameras.

Multi-camera projects support.

Scanned images with fiducial marks support.

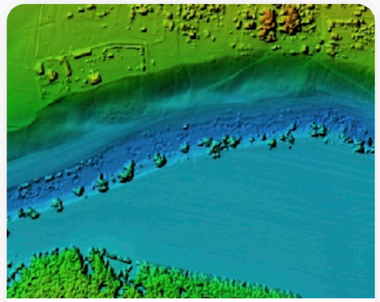


Dense point cloud: editing and classification

Elaborate model editing for accurate results.

Automatic multi-class points classification to customize further reconstruction.

Import/export to benefit from classical point data processing workflow.



Digital elevation model: DSM/DTM generation and editing

Digital surface and/or digital terrain model — depending on the project.

Georeferencing based on EXIF meta data/flight log, GCPs data.

EPSG registry coordinate systems support: WGS84, UTM, etc.

Configurable vertical datums based on the geoid undulation grids.

DEM editing: breaklines drawing, fill tools.

Georeferenced orthomosaic generation

Georeferenced orthomosaic: most-GIS-compatible GeoTIFF format; KML files to be located on Google Earth.

Export in blocks for huge projects.

Color correction for homogeneous texture.

Inbuilt ghosting filter to combat artifacts due to moving objects.

Custom planar and cylindrical projection options for close range projects.

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DISTRIBUTOR

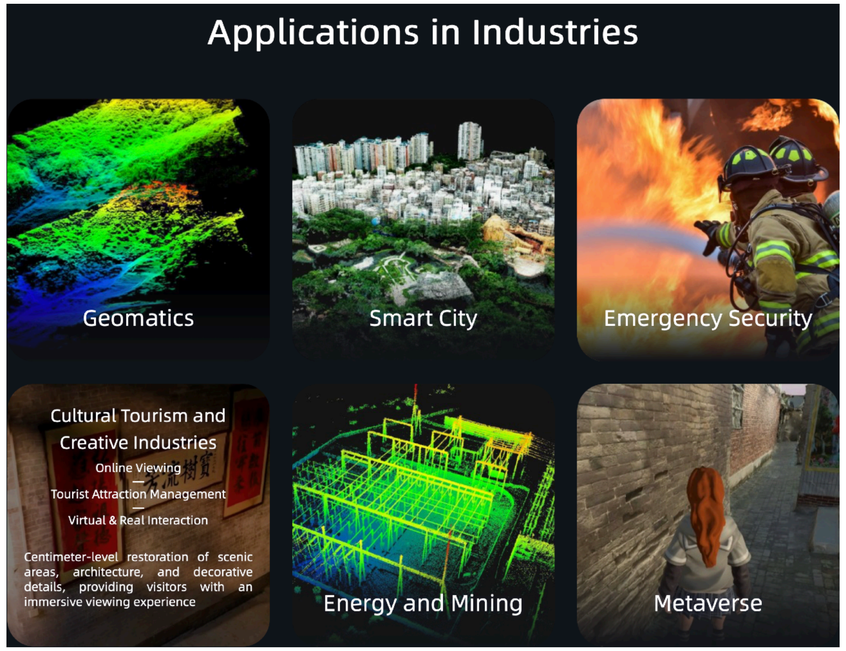
XGRIDS

1 Scan

2 Process

3 Analyse

Next-Gen 3D Content Technology Based on Multi-SLAM & 3DGS



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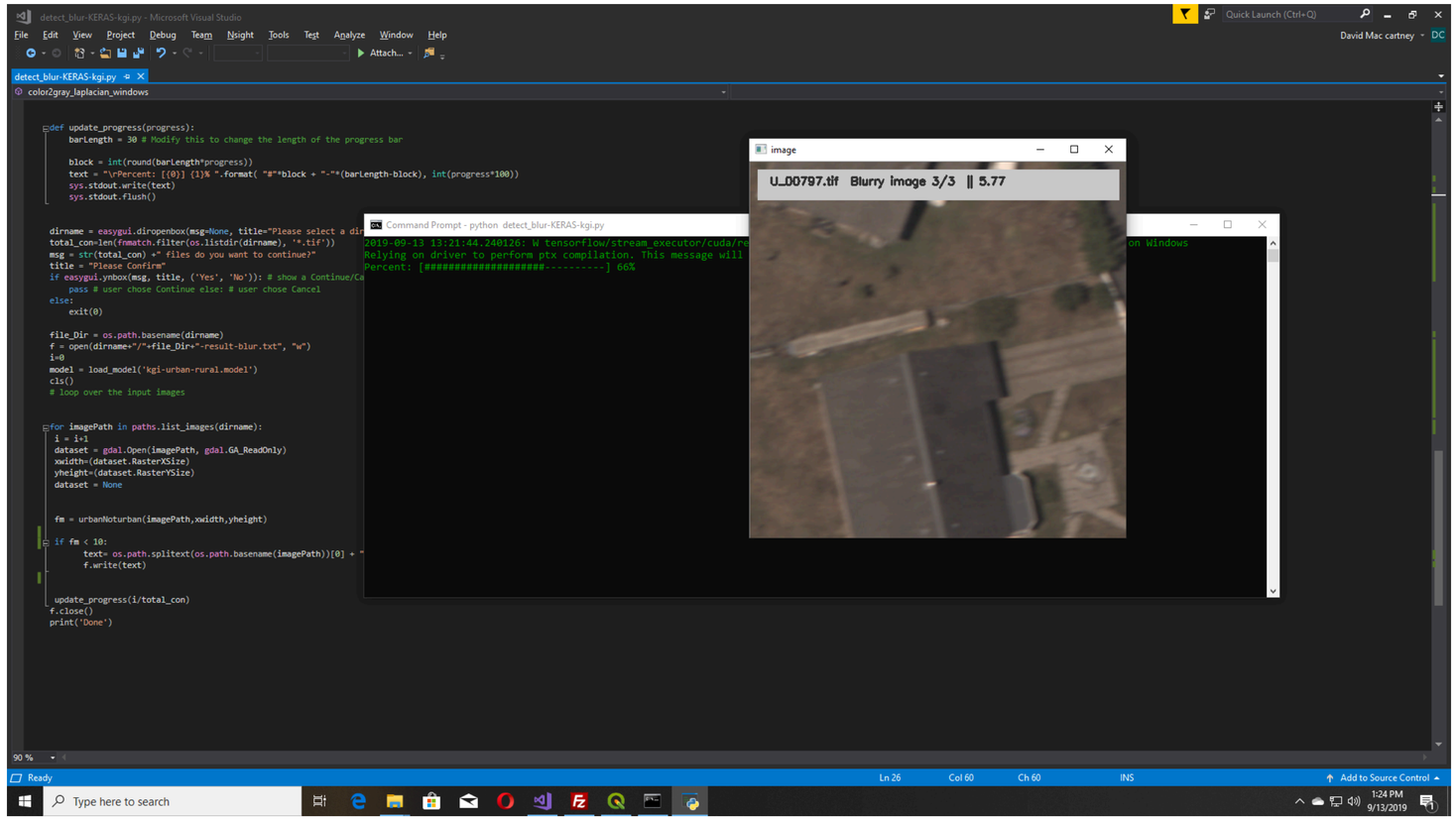
David McCartney R&D : Deep learning



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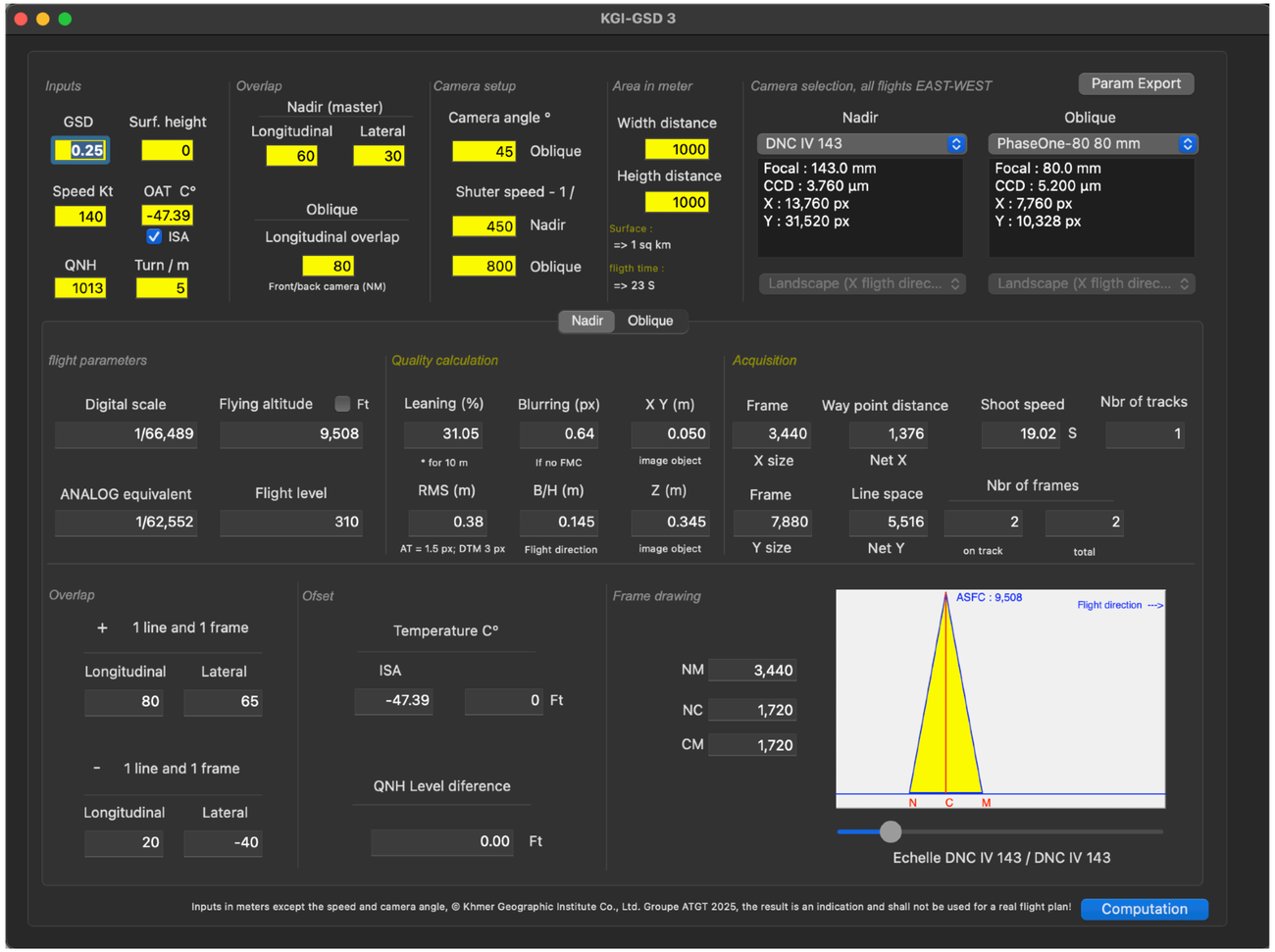
David McCartney R&D : KGI-GSD



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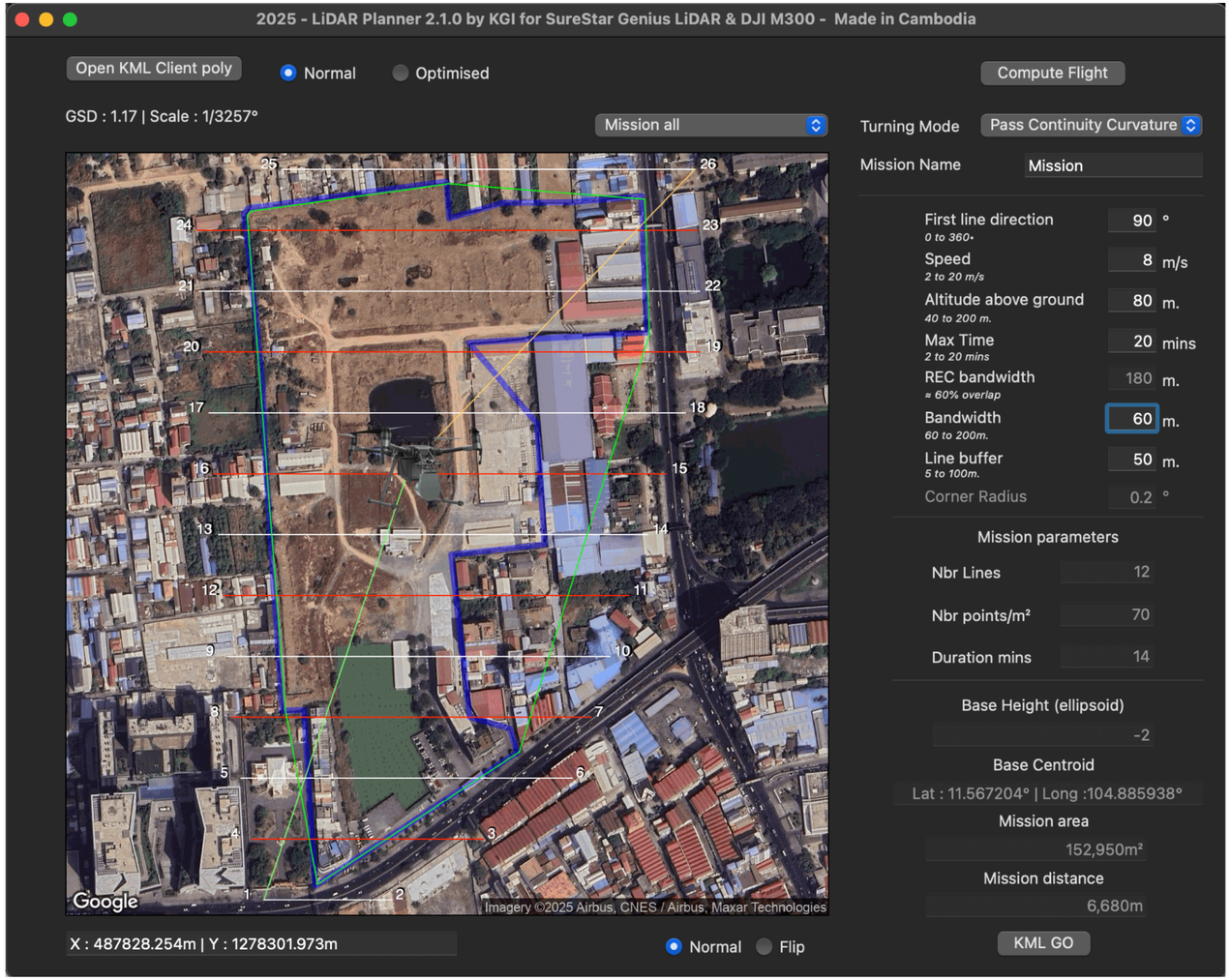
David McCartney R&D : LiDAR Planner



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David McCartney R&D : XGRIDS LCC web viewer

Test our Online Viewer

Confidentiel © KGI 2025

Khmer Geographic Institute

David McCartney R&D : XGRIDS UNITY iPAD LCC viewer

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Groupe ATGT Means

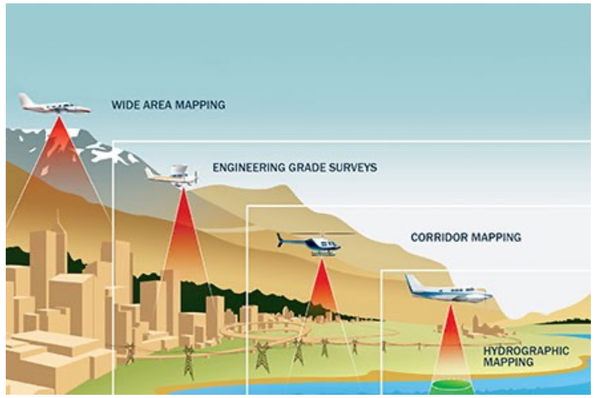
For large projects

GALAXY
T2000

Wide Area Mapping Sensor

Next generation performance, power, and accuracy with revolutionary SwathTRAK™ and PulseTRAK™ technology

A breakthrough in collection efficiency



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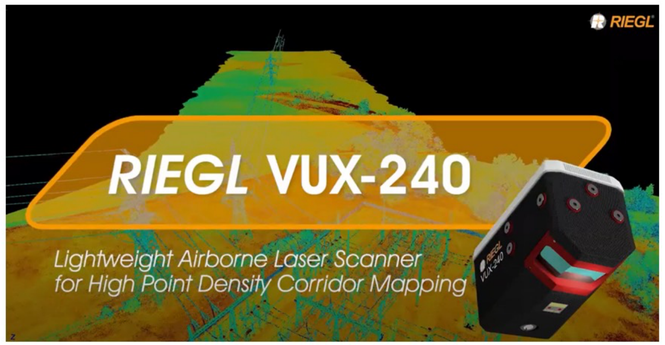
Groupe ATGT Means

For medium-sized projects



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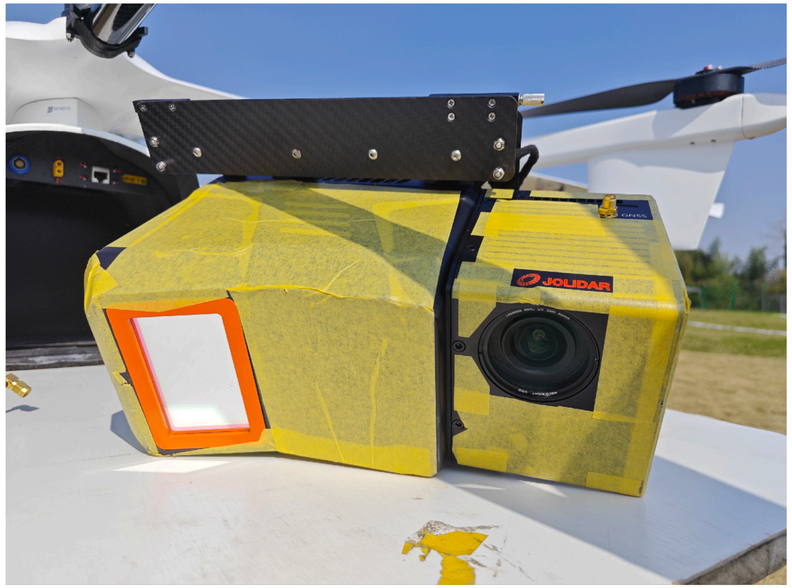
Groupe ATGT Means

For medium-sized projects

JOUAV®
Unmanned Aircraft System



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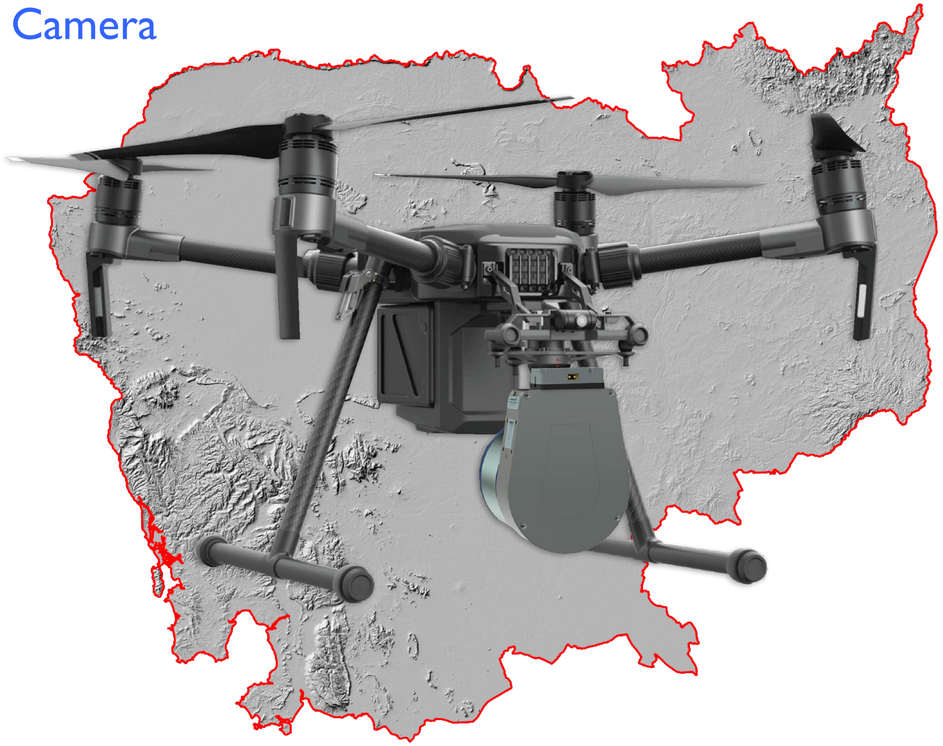
JEB & KGI Means

For small projects

- DJI M300
- Genius LiDAR
- P1 Camera

Photo & LiDAR



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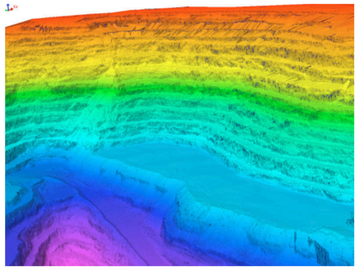
Applications

Agriculture

Environmental

Forestry

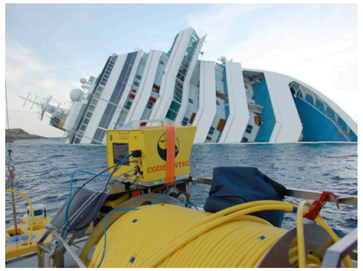


Geology, Mining, Geotechnical

Wide Area Mapping

Urban Mapping

Digital Photogrammetry



Disaster Management

Corridor and Asset

Engineering

Coastal and Marine

Defense and Security

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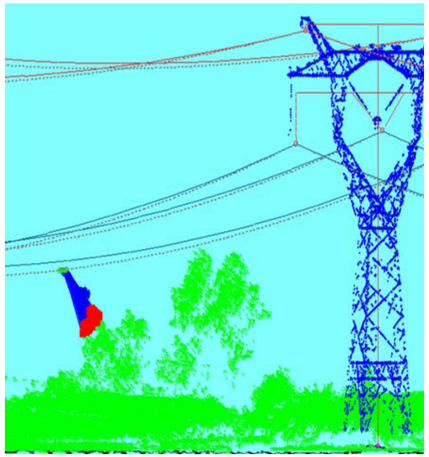
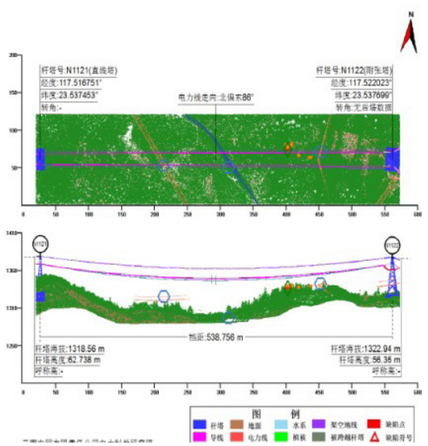
Applications

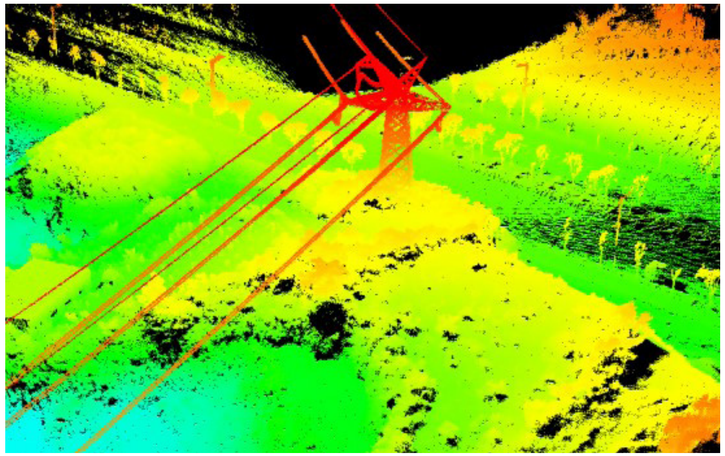
Transmission Line Inspection with LiDAR

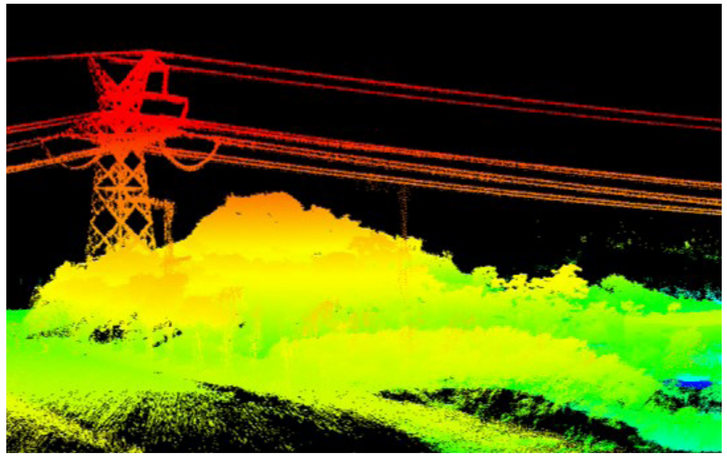
Point cloud collected by Genius





Single wood evaluation





Point cloud collected by Genius

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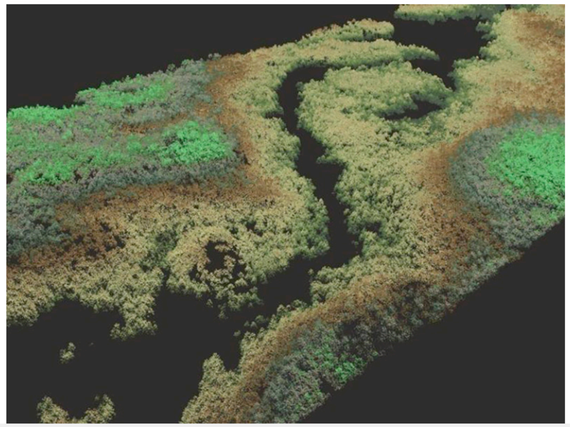
Applications

Monitoring **global warming** and its consequences on plant and life.
LiDAR is an indispensable tool for management and forecasting!

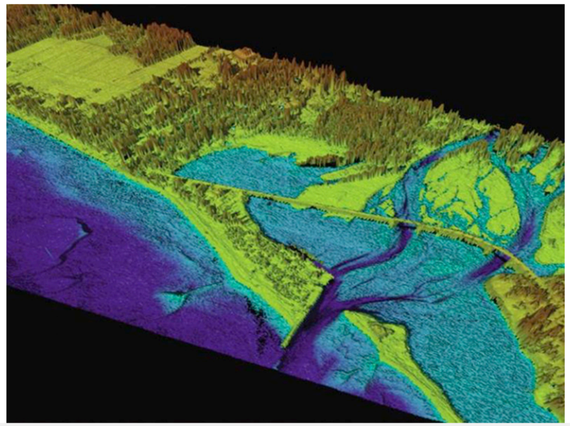
LiDAR to estimate forest biomassss



Measure tree heights, crowns & diversity

Safely assess environmental conditions

Sensors for terrain & water



Seamless topo/bathy

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JEB & KGI Solutions

Orthophoto

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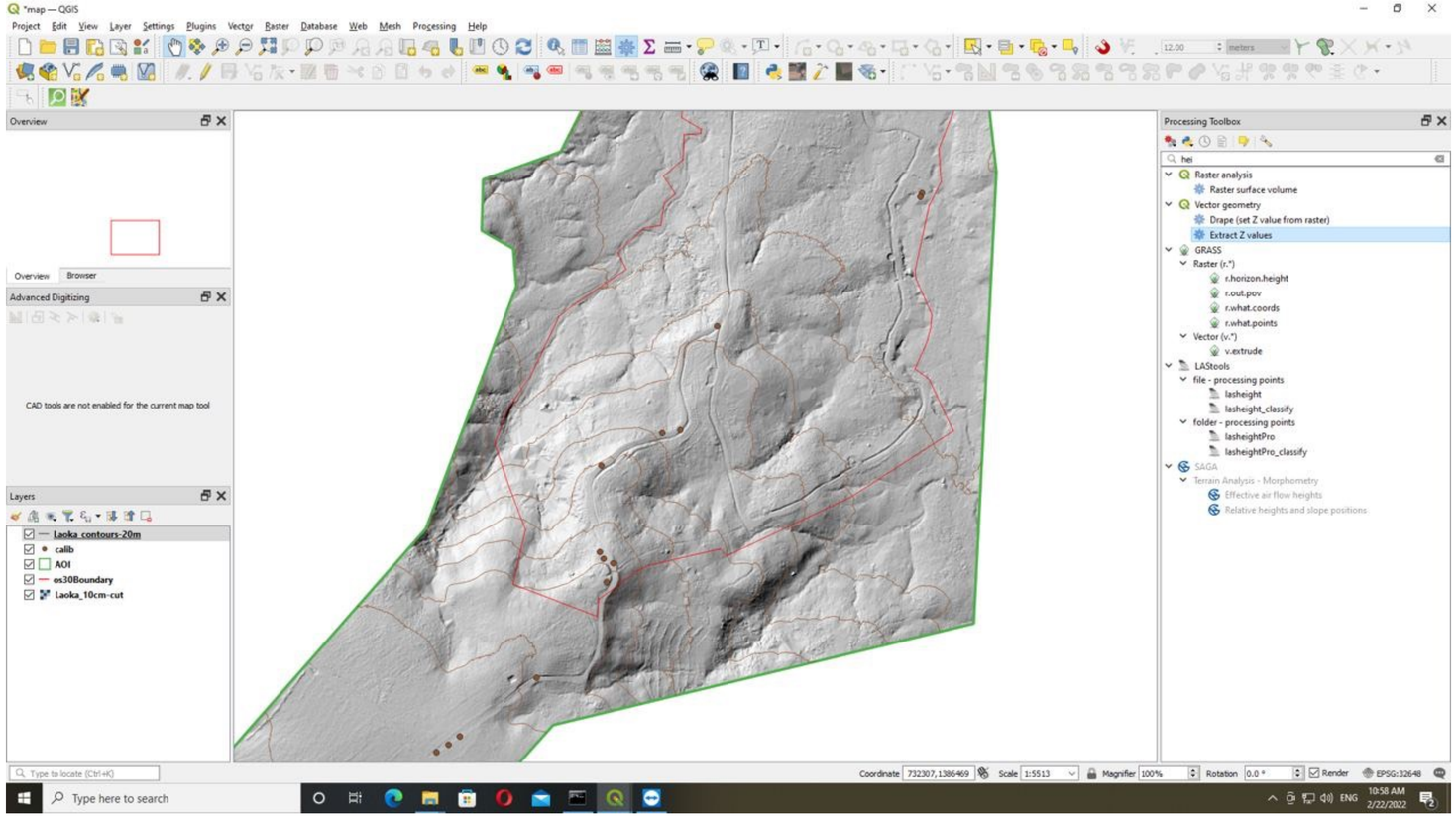
JEB & KGI Solutions



DTM

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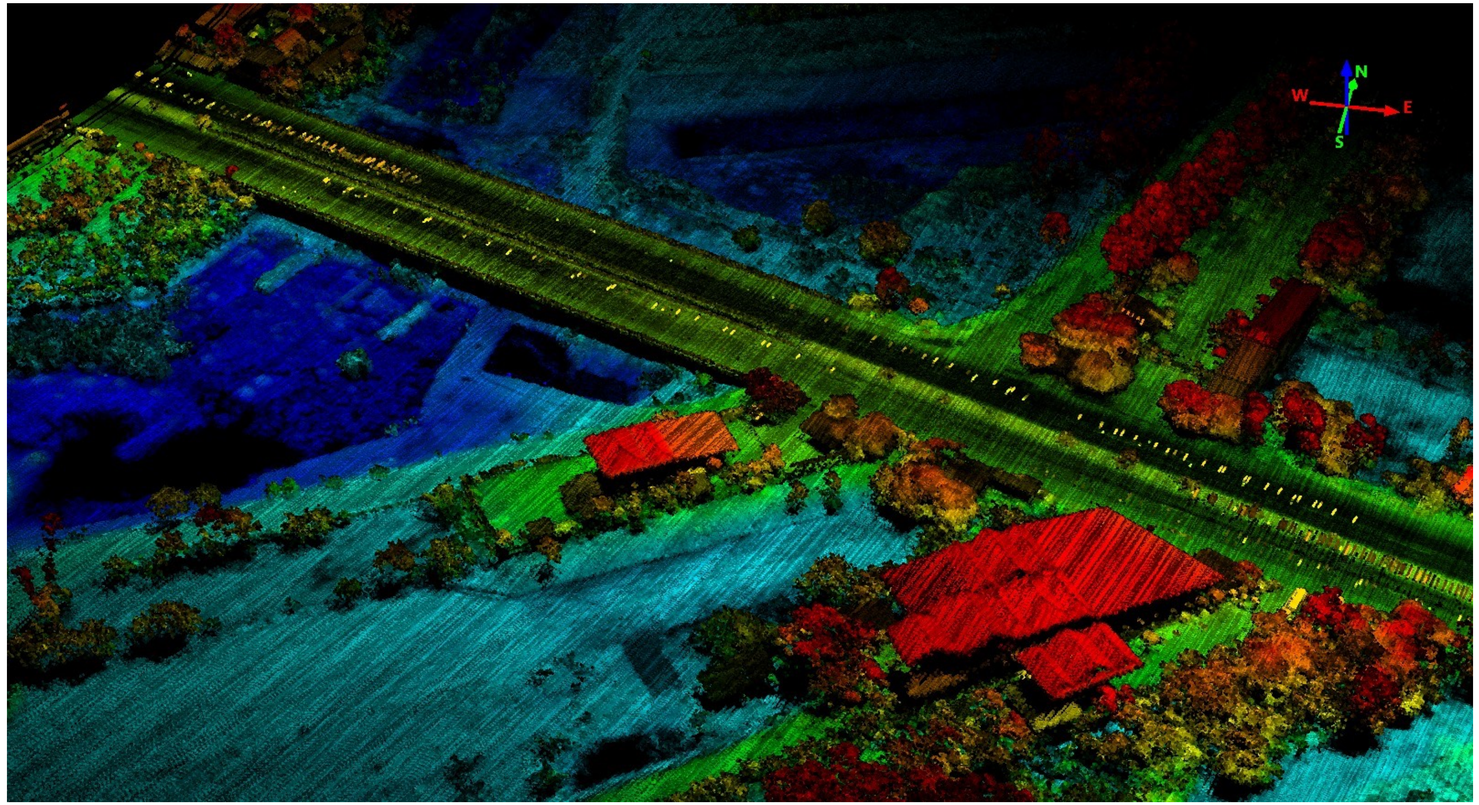

LiDAR for Engineering

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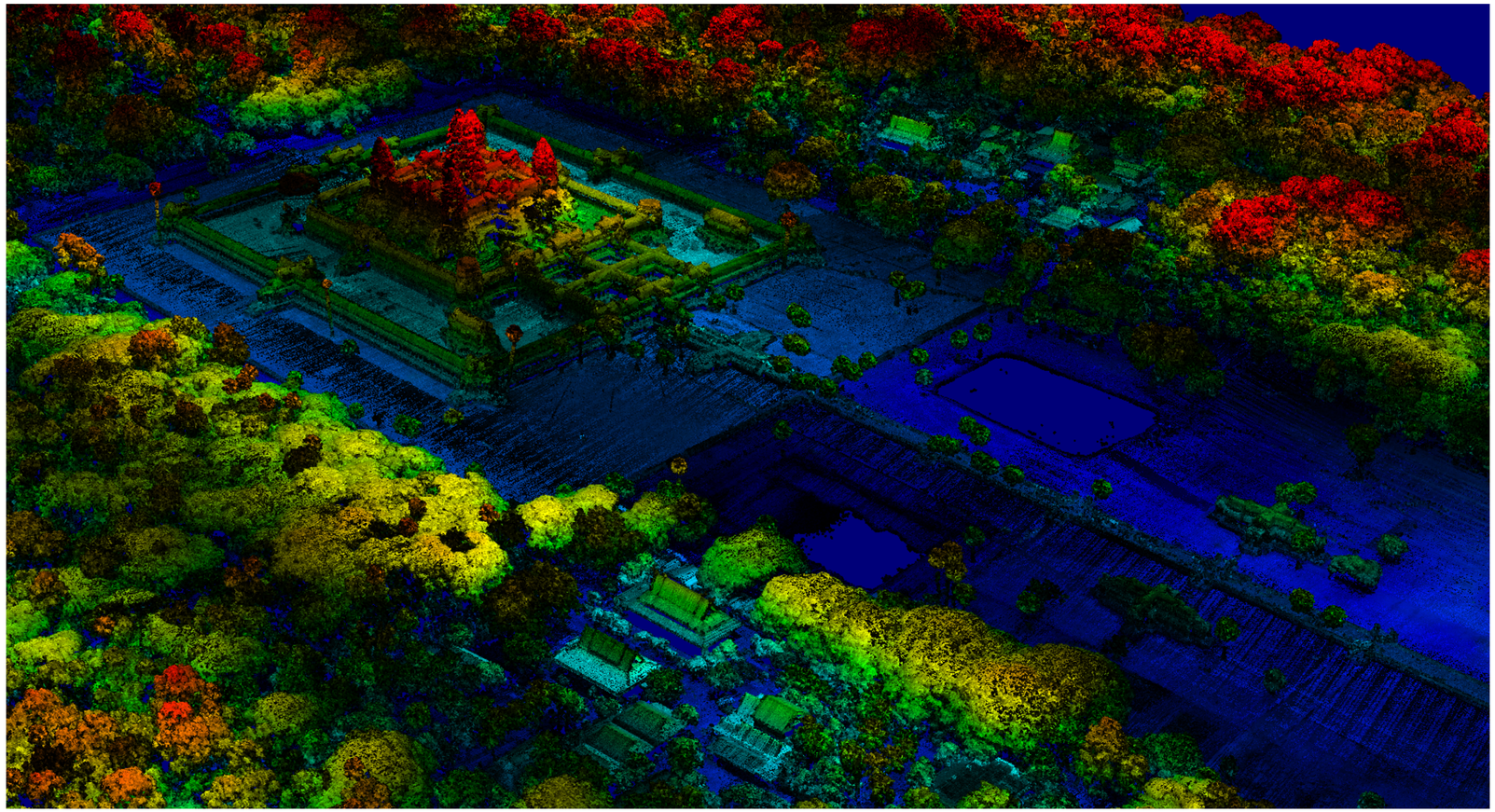

LiDAR for Archeology

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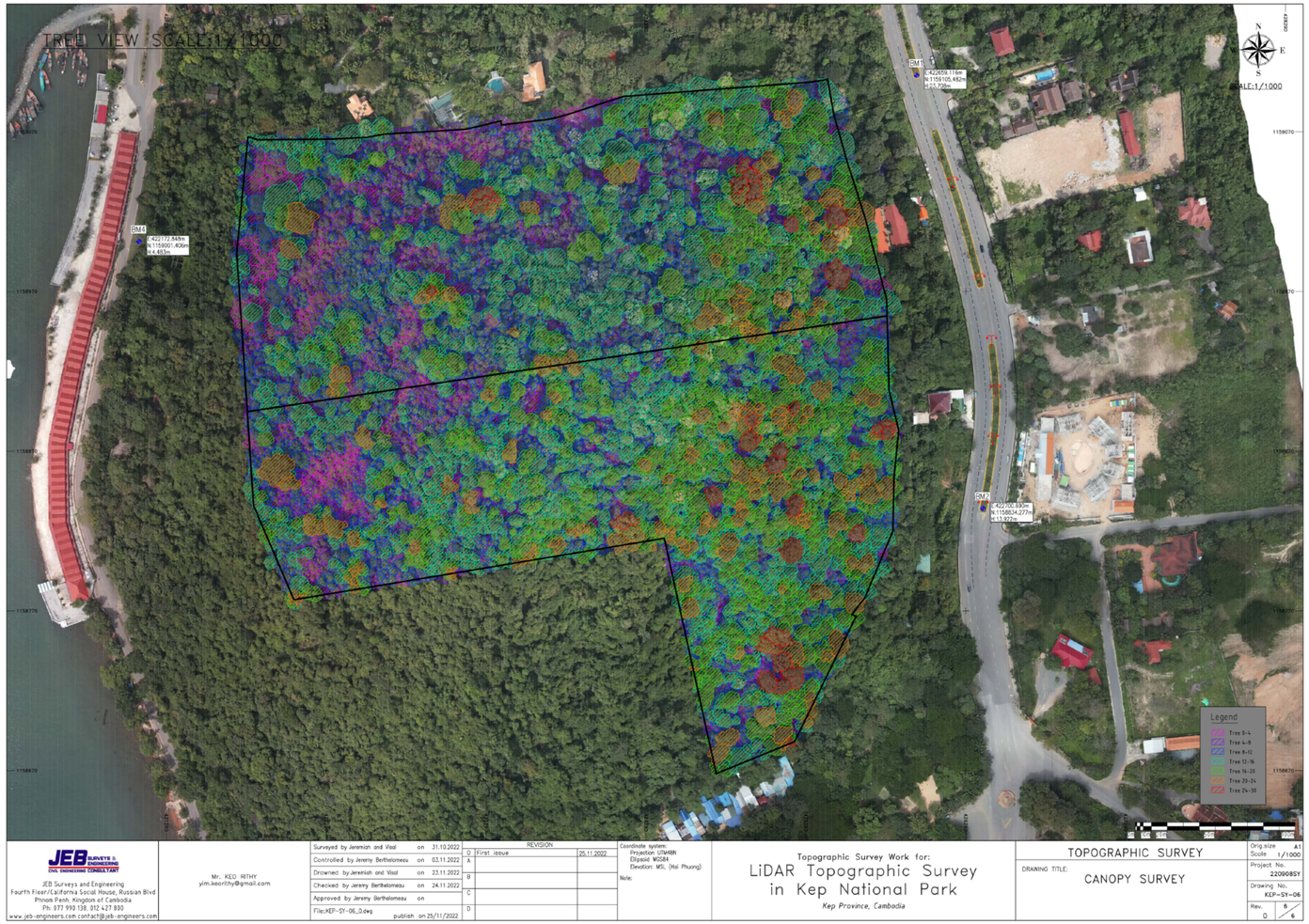

LiDAR for Forestery

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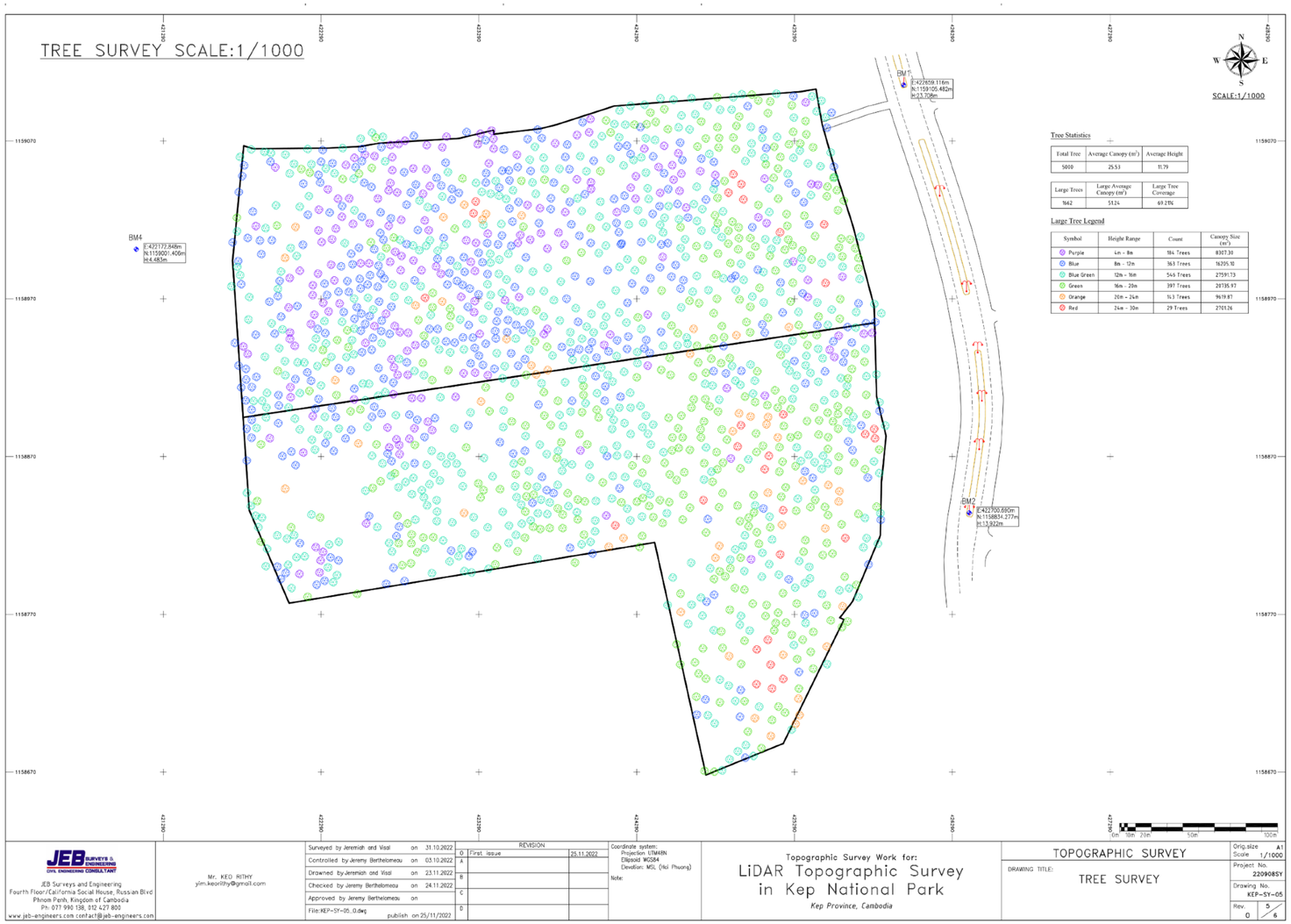
JEB & KGI Solutions



LiDAR for Forestery

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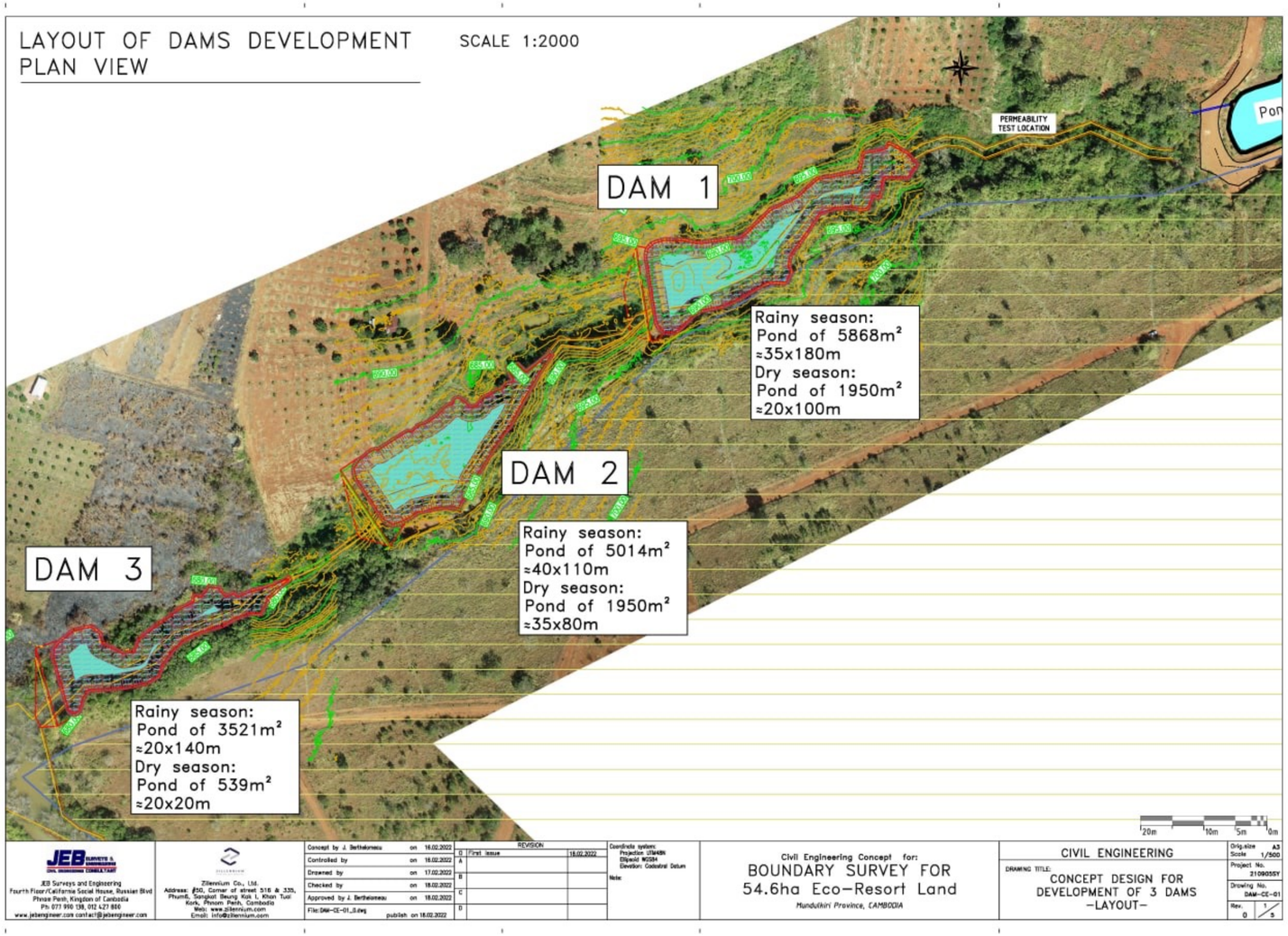

LiDAR for Water management

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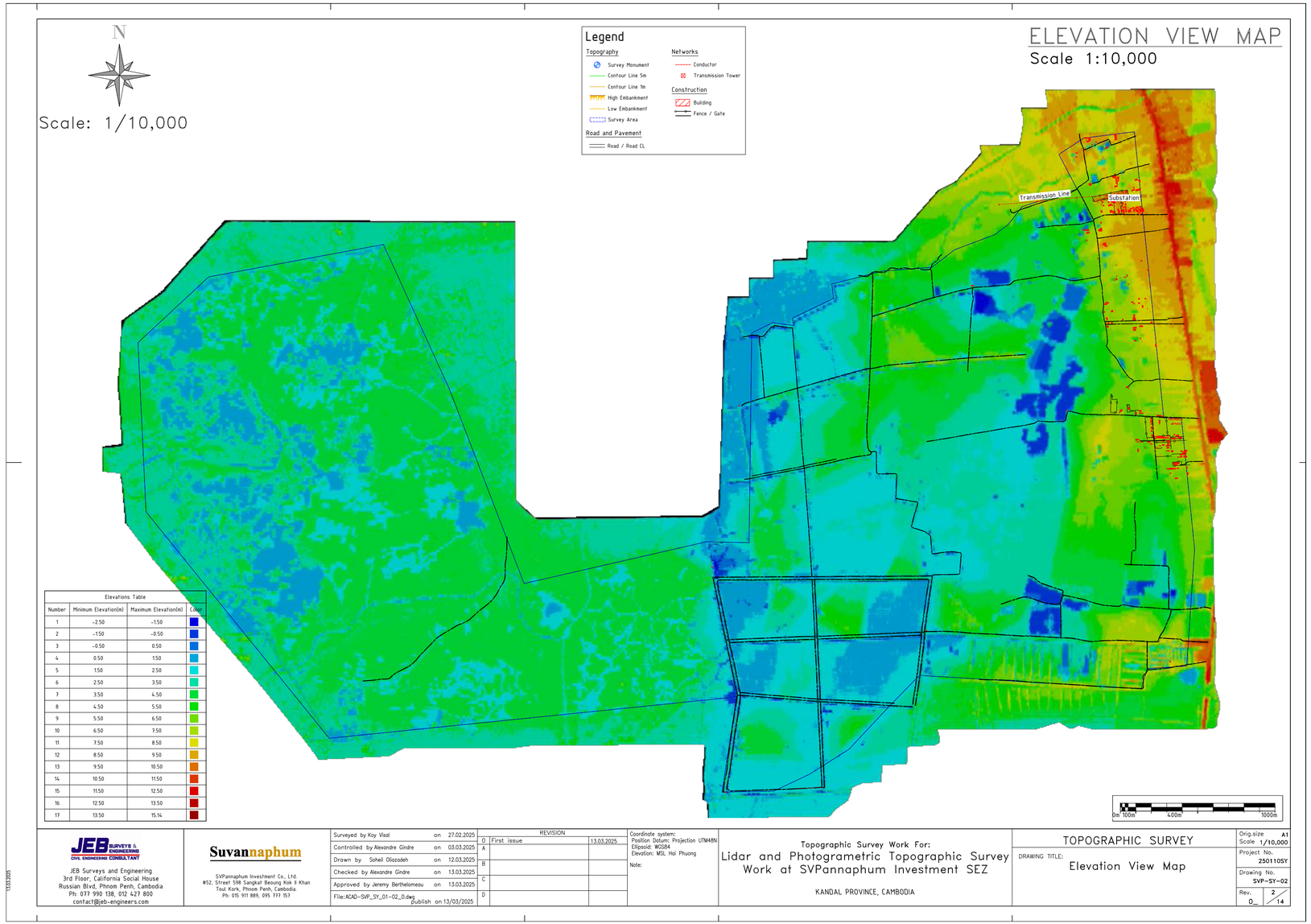

LiDAR for Water management

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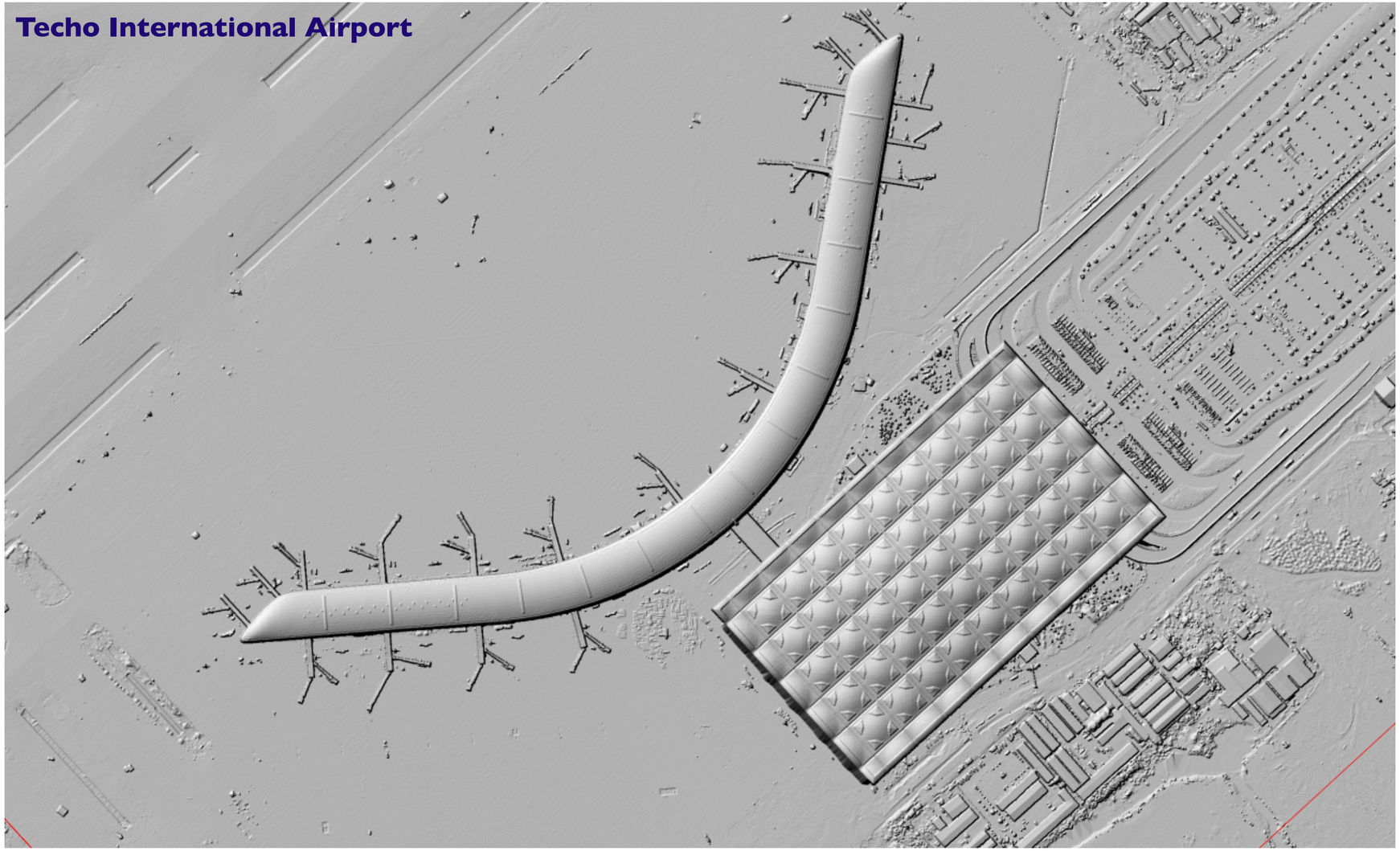

LiDAR for airport management

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Groupe ATGT

Thanks You

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