



Pioneering Excellence in **Mobile Mapping** **Survey**

**Rapid, High-Accuracy 3D Mapping for Roads,
Infrastructure and Built Environments**

KUWAIT-BASED | MIDDLE EAST, ASIA & AFRICA | ESTABLISHED 2004



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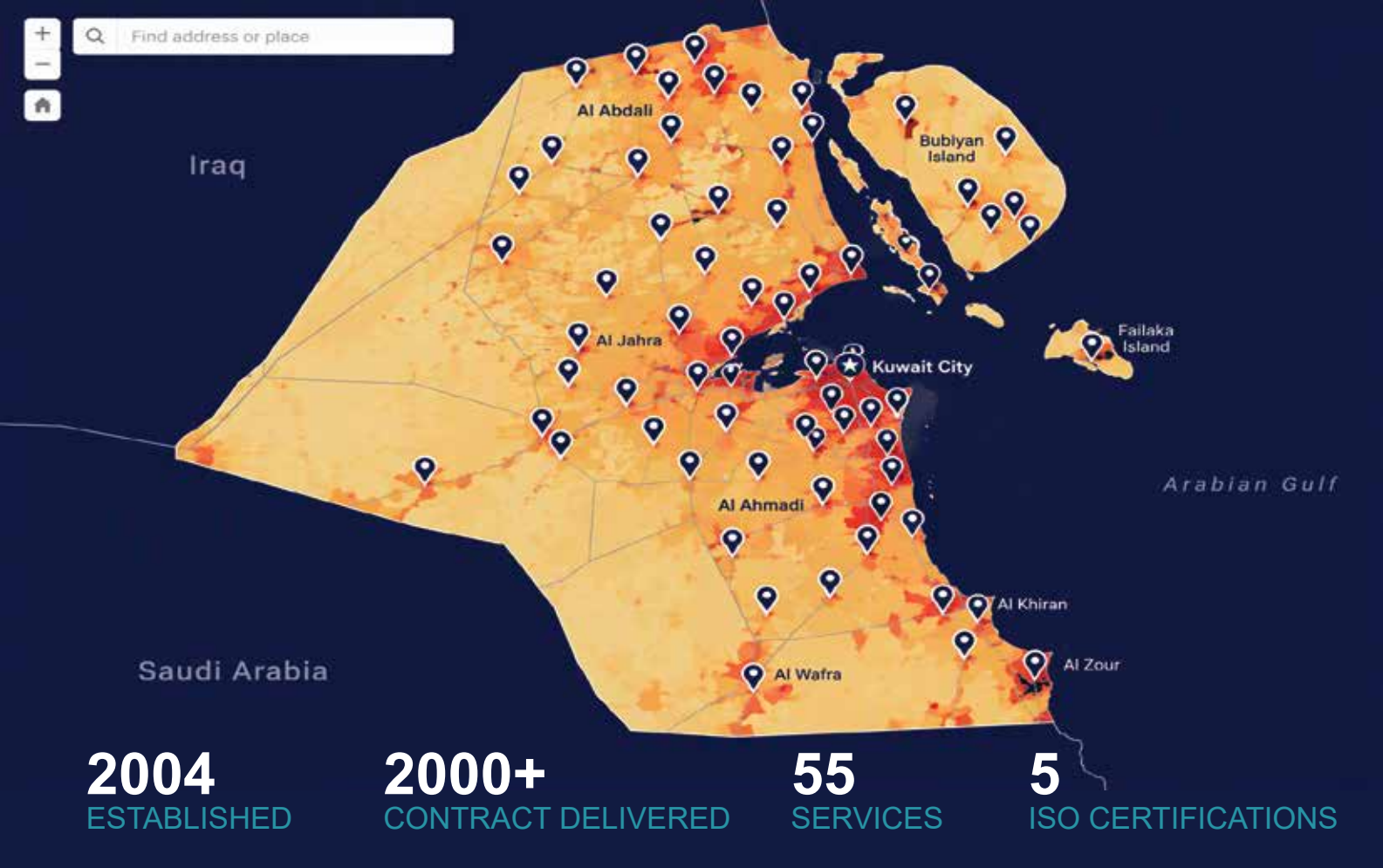
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About Us

Vision International is a Kuwait-based engineering services company established in 2004. The company delivers integrated geo-solutions across surveying, geotechnical investigation, geophysics, laboratory testing, engineering, digital platforms and specialized safety services throughout Middle East, Asia and Africa. Within Specialized Safety & Risk Services, Vision supports construction, infrastructure, defence and oil & gas operations where unexploded ordnance and explosive remnants of war may present a hazard. Services combine risk assessment, geospatial intelligence, magnetometer-based survey, target investigation, intrusive clearance, risk education, standby EOD support and documented hand-back.

Our Services Include:

- 3D Mobile LiDAR Survey
- Road & Highway Mapping
- Corridor Mapping
- Infrastructure Asset Mapping
- Street & Road Furniture Inventory

A detailed view of a Trimble mobile mapping system mounted on the roof of a dark blue vehicle. The system includes a dual-lens camera at the top, a laser scanner (LiDAR) in the center, and various sensors and cables. The background shows a clear blue sky with some clouds. The vehicle's roof and a red light are visible in the foreground.

Our Mission

'To deliver high-precision geospatial intelligence through advanced mobile mapping and surveying technology.'

Service Description

Overview

Mobile Mapping is an advanced surveying technology that integrates LiDAR scanning, high-resolution imaging, GNSS positioning, Inertial Measurement Units (IMU), and navigation systems to rapidly capture detailed geospatial information while moving along roads, corridors, industrial facilities, and other project areas. The technology enables the efficient collection of 3D point clouds, imagery, road and asset information, topographic features, and infrastructure data with high positional accuracy and significantly reduced field time compared with conventional surveying methods.

Scope of Work

- Mobile LiDAR and 3D laser scanning surveys
- Road and corridor mapping
- Topographic and surface feature mapping
- High-resolution panoramic/360° imagery collection
- Road furniture and infrastructure asset inventory
- Utility and roadside feature mapping
- Building façade and structural mapping
- Digital terrain and surface model generation
- Point cloud processing and classification
- Feature extraction and CAD/GIS deliverables
- As-built and existing-condition surveys
- Survey control establishment and GNSS/RTK integration

Benefits

- Rapid data acquisition over large areas
- High-density 3D point cloud generation
- Improved survey efficiency and productivity
- Reduced field manpower and site exposure
- High-quality photographic documentation
- Accurate spatial positioning of assets
- Reduced traffic and operational disruption
- Comprehensive digital record of existing conditions
- Suitable for large-scale corridor and infrastructure projects

Equipment & Technology

Advanced Tools for Mobile Mapping Survey

Vision International utilizes advanced mobile mapping technology, integrating LiDAR, GNSS, and imaging sensors to collect precise geospatial data. Mobile Mapping combines several integrated technologies to provide accurate and comprehensive geospatial data.

Mobile LiDAR Scanner Trimble MX90

High-density 3D point cloud and surface data acquisition



GNSS Receiver Survey-grade GNSS / RTK

Precise positioning and trajectory control

Mobile Mapping Camera High-resolution 360° / panoramic camera

Street-level imagery and visual documentation





Survey Control Equipment GNSS Base/Rover

Establishment and verification of survey control



Processing Software LiDAR / Point Cloud Processing Software

Trajectory processing, point-cloud generation and classification

CAD / GIS Software CAD & GIS Platforms

Mapping, feature extraction and final deliverables



Our Services

Mobile Mapping Technology

Vision International delivers advanced mobile mapping solutions across the Middle East, Asia, and Africa, converting real-world environments into precise, data-rich digital models.

01

LiDAR Technology

Laser scanning rapidly captures millions of 3D points to create a detailed representation of roads, structures, terrain and surrounding assets.

02

GNSS/INS Integration

GNSS and inertial navigation systems provide accurate positioning and orientation of the mapping vehicle throughout the survey route.

03

High-Resolution Imaging

Integrated cameras capture synchronized imagery for visual inspection, asset identification and documentation.

04

Point Cloud Processing

Collected data is processed, classified and georeferenced to produce accurate 3D point clouds and engineering survey information.

Mobile Mapping Survey Service offering

Vision International delivers advanced mobile mapping services across the Middle East, Asia, Africa, and marine environments, transforming complex environments and infrastructure into precise, data-rich digital assets.

Service

- 3D Mobile LiDAR Survey
- Road & Highway Mapping
- Corridor Mapping
- Infrastructure Asset Mapping
- Street & Road Furniture Inventory
- Industrial Facility Mapping
- Port & Terminal Mapping

Service

- Building & Façade Mapping
- Topographic Data Collection
- As-Built Survey
- 3D Point Cloud Generation
- Digital Terrain Model (DTM)

Service

- Digital Surface Model (DSM)
- Orthophoto / Panoramic Imagery
- CAD and GIS Feature Extraction
- Asset Inventory and GIS Database Creation

“Create an accurate digital
record of the mapped
environment.”



Typical Deliverables

Deliverables

- Classified 3D point clouds
- LAS/LAZ point cloud files
- Survey drawings
- CAD plans

Deliverables

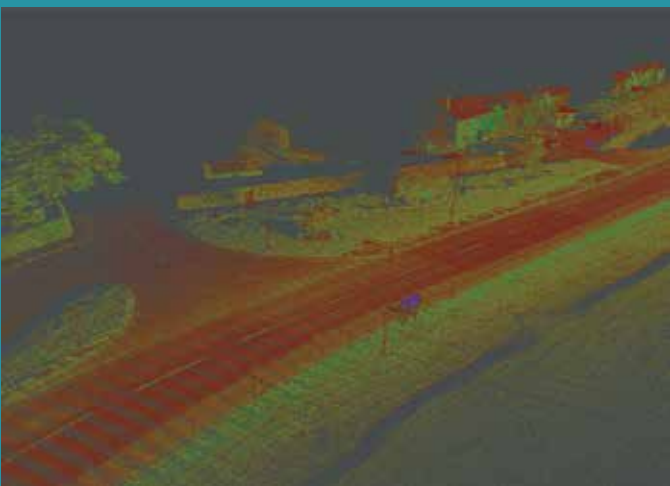
- Digital Terrain Models
- Digital Surface Models
- Contour plans

Deliverables

- Orthophotos / panoramic imagery
- Asset inventory
- GIS databases

Deliverables

- 3D models
- Survey reports
- Quality control documentation





SERVICE Workflow

Service Overview

The eight-stage mobile mapping workflow has been condensed into a clear service overview, covering the complete process from project briefing and route planning to field data capture, processing, quality control, reporting, and final delivery.

1. Briefing

Understand project requirements, survey limits, accuracy requirements, coordinate system and required deliverables.

2. Planning

Prepare the survey methodology, route planning, control network requirements, equipment configuration and safety plan.

3. Mobilization

Mobilize the Mobile Mapping System, GNSS/INS equipment, survey control equipment and field personnel.

4. Field Operations

Conduct systematic data acquisition using LiDAR, GNSS/INS and high-resolution imaging systems.

5. Processing & Analysis

Process GNSS/INS trajectories, LiDAR data and imagery to generate a georeferenced 3D point cloud and associated datasets.

6. Quality Control

Perform accuracy checks, trajectory verification, point-cloud validation and comparison against survey control points.

7. Reporting

Prepare survey drawings, point clouds, imagery, asset inventories, GIS/CAD outputs and technical reports.

8. Final Delivery

Submit approved digital datasets and drawings in the required formats, together with final QA/QC documentation.

Key Capabilities Summary

The key capabilities summary outlined

- Experienced Survey & Geospatial Team
- Advanced Mobile LiDAR and Mapping Technology
- High-density 3D Point Cloud Acquisition
- Integrated GNSS/INS Positioning
- High-resolution 360° Imaging
- Rapid field data acquisition
- Large-area and corridor mapping capability
- Experienced in Oil & Gas and infrastructure environments
- Strong CAD/GIS data processing capability
- Comprehensive QA/QC procedures
- Fast mobilization and flexible field deployment
- Compliance with project specifications and applicable surveying standards
- Accurate and reliable engineering deliverables

The Company Highlights

- Experienced multidisciplinary survey teams
- Modern surveying and geospatial technology
- Extensive Oil & Gas project experience
- Integrated land, marine and geospatial survey capabilities
- Strong QA/QC and technical reporting procedures
- Rapid mobilization for local and large-scale projects

What sets us apart?



With the key personnels, specialists and geotechnical engineers, Vision International combines advanced 3D laser scanning and reality-capture expertise with precision engineering to deliver accurate digital representations beyond conventional surveying methods.

Integrated geo-solutions

Survey, geophysics, geotechnical, laboratory, engineering, GIS and specialized safety capabilities support multi disciplinary delivery.

Middle East, Asia and Africa operating context

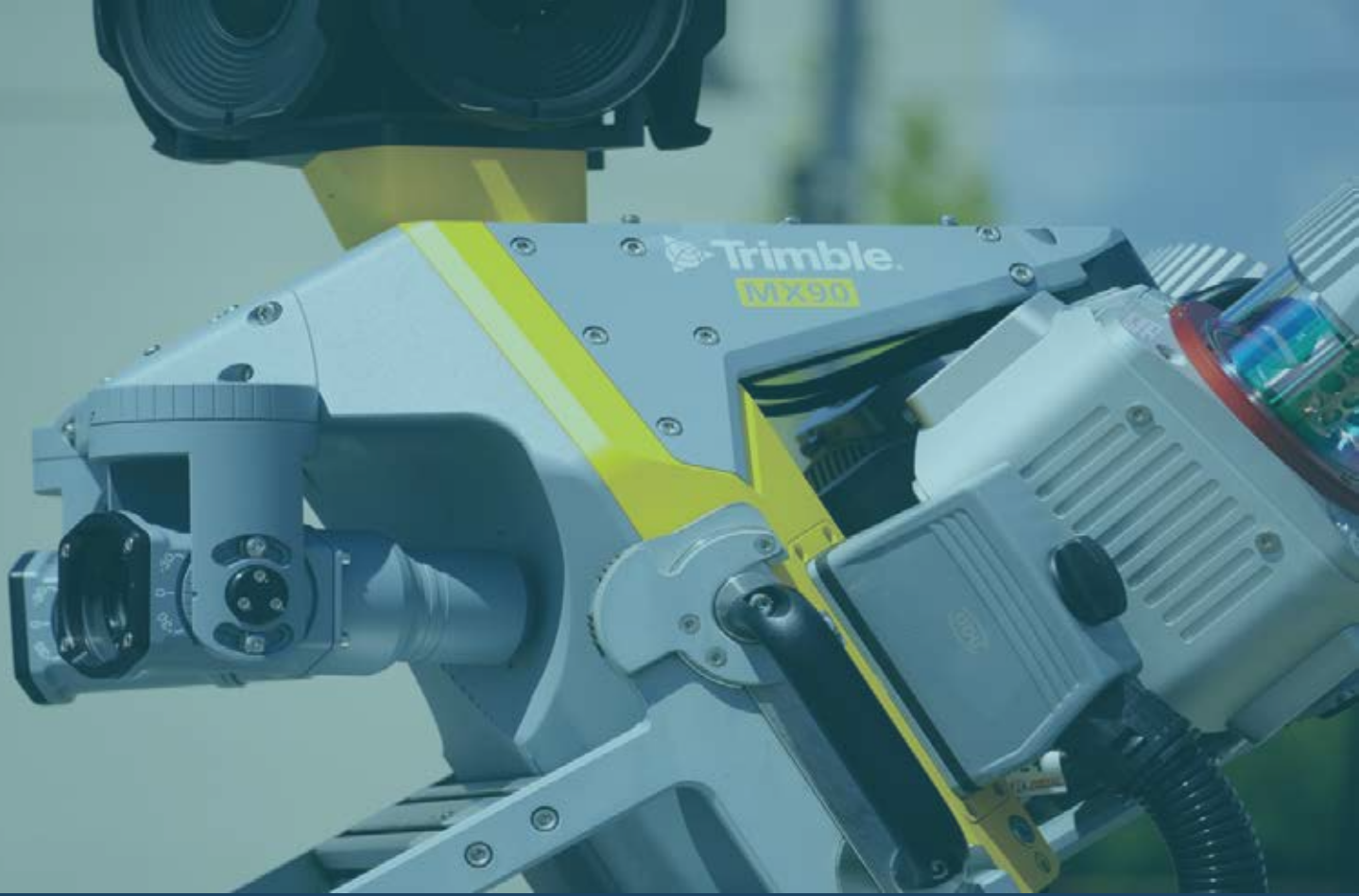
Established in Kuwait since 2004 with experience serving oil & gas, infrastructure, government and construction stakeholders.

Technology-enabled delivery

GNSS, magnetometry, GIS, CAD/BIM-compatible data and digital records support field quality and decision-making.

Controlled documentation

Structured work plans, field records, maps, clearance evidence and residual-risk communication strengthen auditability.



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