

Pioneering Excellence in Topographic & Underground Utility Survey

**Accurate Ground Data. Reliable Utility Mapping.
Confident Project Decisions**

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



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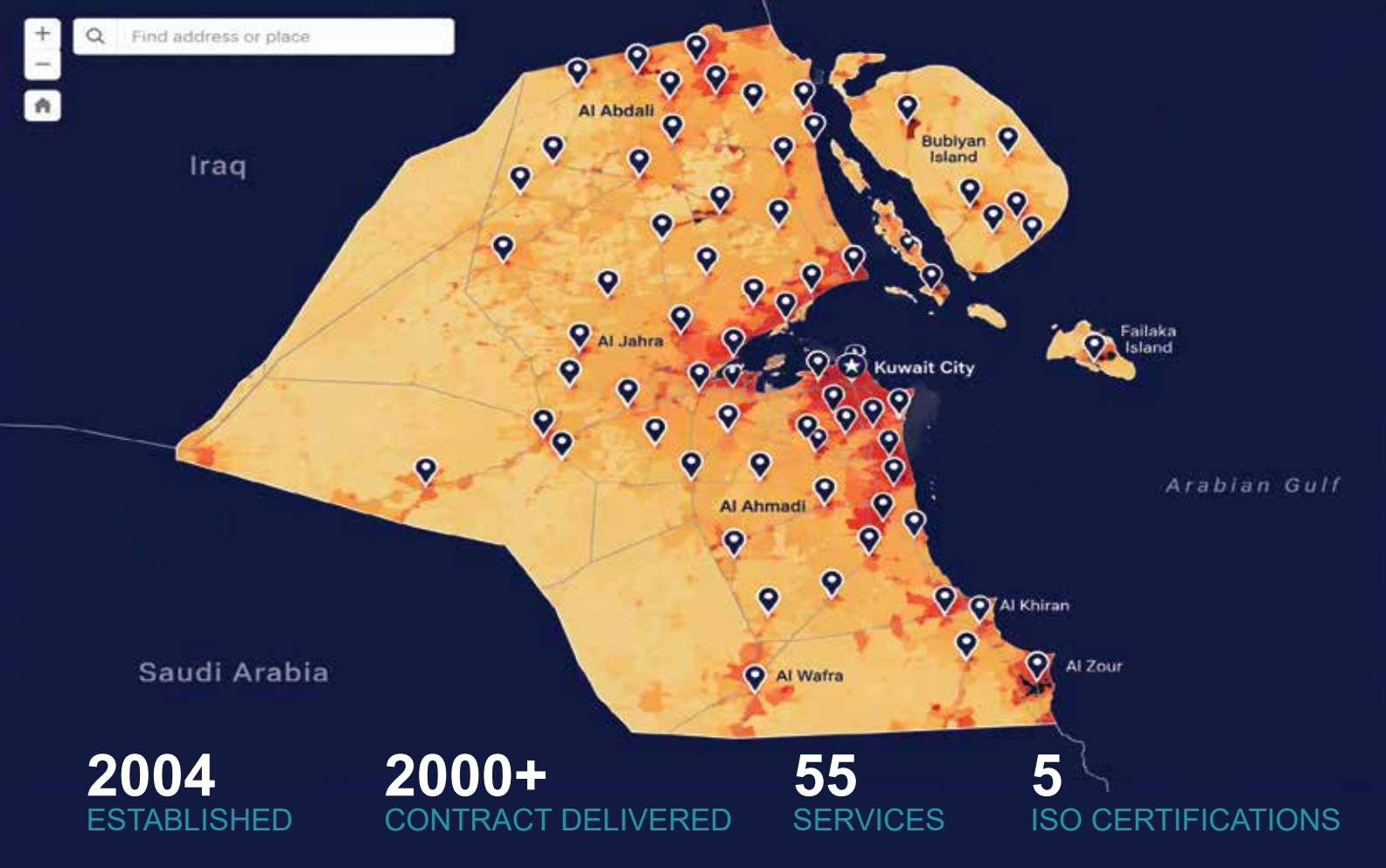
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About Us

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:

- Site Topographic Survey
- Underground utility detection
- Detailed engineering surveys
- Utility route tracing and mapping
- Road and infrastructure surveys

Our Mission

'To deliver high-precision topographic and underground utility intelligence through advanced surveying technology.'



Service Description

Overview

Vision International provides comprehensive Topographic and Underground Utility Survey Services for infrastructure, oil & gas, industrial, construction, and development projects. Our experienced survey teams combine high-precision GNSS, Total Stations, 3D Laser Scanning, underground utility detection, Ground Penetrating Radar (GPR), electromagnetic locating, and advanced CAD/GIS processing to provide accurate information on existing ground conditions and underground infrastructure. Our surveys support engineering design, construction planning, excavation, clash avoidance, asset management, and as-built documentation.

Scope of Work

- Topographic and detailed land surveys
- Establishment and verification of survey control points and benchmarks
- Existing ground level and elevation surveys
- Contour generation and Digital Terrain Model (DTM) preparation
- Roads, pavements, kerbs, drainage and other surface features
- Buildings, structures, foundations and site infrastructure
- Manhole and chamber surveys
- Underground utility detection and mapping
- Water, sewer, stormwater and drainage networks
- Electrical and communication cables
- Underground pipelines and other buried services
- Ground Penetrating Radar (GPR) surveys where required
- Electromagnetic and passive/active utility locating
- Utility depth and alignment investigation
- Trial pit / slit trench verification support
- Utility conflict and clash identification
- Preparation of survey drawings, utility plans and digital deliverables
- As-built and record survey documentation

Benefits

- Improved project planning through accurate existing-condition information
- Enhanced survey accuracy using modern surveying technologies
- Reduced excavation and utility strike risks
- Early identification of underground conflicts
- Reliable data for engineering and design teams
- Improved construction productivity and safety
- Reduced rework, delays and unexpected site conditions
- Integrated above-ground and below-ground survey information

Equipment & Technology

Advanced Tools for Topographic & Underground Utility Survey

Vision International utilizes a combination of modern surveying and underground detection technologies selected according to project requirements, site conditions and accuracy specifications.

GNSS Survey System Trimble R8/R8s

High-accuracy positioning, control establishment and topographic survey



Total Station Trimble S3

Detailed topographic survey, setting-out and precise measurements

Ground Penetrating Radar GPR System

Detection and mapping of buried/non-metallic utilities and subsurface features





Digital Level Trimble NA2

Precise elevation and benchmark verification



Data Collector / Controller Trimble

Field data collection, coding and survey management

CAD / GIS Software AutoCAD / Civil 3D / GIS

Data processing, drafting, utility mapping and deliverable preparation



Our Services

Topographic & Uderground Utility Survey Technology

Our survey methodology allows topographic and underground utility data to be integrated into a common project coordinate system. This enables engineers and construction teams to understand the relationship between surface features and buried infrastructure.

01

High-Precision GNSS/RTK Surveying

Provides accurate real-time positioning for establishing survey control, capturing site features and measuring coordinates and elevations.

02

3D Laser Scanning

Rapidly captures dense 3D point-cloud data to create accurate digital representations of terrain, structures and complex site conditions.

03

Ground Penetrating Radar (GPR)

Uses radar signals to detect and map buried utilities, structures and subsurface anomalies, including non-metallic services.

04

Electromagnetic Utility Locating

Detects and traces conductive utilities to determine the approximate position, alignment and depth of underground services.

Topographic & Underground Utility Survey Service offering

Vision International delivers advanced topographic and underground utility survey services across the Middle East, Asia, Africa, and marine environments, transforming complex terrain and infrastructure into precise, data-rich geospatial assets.

Service

- Site topographic surveys
- Detailed engineering surveys
- Existing ground level surveys
- Contour and spot-level surveys
- Road and infrastructure surveys
- Building and structural surveys
- Drainage and manhole surveys
- Boundary and feature surveys

Service

- Construction and setting-out surveys
- As-built surveys
- DTM and surface modelling
- CAD and GIS deliverables
- Underground utility detection
- Utility route tracing and mapping
- Cable and pipeline detection
- Water and sewer network surveys
- Electrical and communication utility surveys

Service

- GPR investigations
- Electromagnetic detection
- Manhole/chamber investigation
- Utility depth estimation
- Utility conflict identification
- Utility corridor mapping
- Trial pit / slit trench verification support
- Preparation of underground utility drawings

“Digitally capture surface
features and
underground
utilities.”



Typical Deliverables

Deliverables

- Topographic Survey Plans
- Underground Utility
Survey Plans
- Utility Classification Drawings
- Contour Plans

Deliverables

- Spot-Level Plans
- DTM / Surface Models
- CAD Drawings
- GIS Data

Deliverables

- Coordinate and Level Data
- Manhole / Chamber
Schedules
- Utility Crossing Details

Deliverables

- Survey Reports
- As-Built Drawings
- Digital Survey Database



SERVICE Workflow

Service Overview

The eight-stage topographic & underground utility survey workflow has been condensed into a clear service overview, covering the complete process from project briefing and flight planning to aerial data capture, processing, quality control, reporting, and final delivery.

1. Project Briefing

Understanding project requirements, scope, drawings, specifications, coordinate system and required deliverables.

2. Survey Planning

Review of available information, site reconnaissance, methodology development, risk assessment and survey planning.

3. Mobilization

Mobilization of qualified survey personnel, equipment, control points and safety requirements to site.

4. Field Operations

Execution of topographic survey and underground utility detection using appropriate survey and detection technologies.

5. Processing & Analysis

Processing GNSS, Total Station, scanning and utility detection data and integrating the information into the project coordinate system.

6. Physical Verification

Where required, detected utilities are verified through manhole investigation, trial pits or slit trenches to improve positional confidence.

7. Quality Control

Independent checking of field observations, coordinates, levels, utility locations, drawings and deliverables.

8. Reporting & Final Delivery

Preparation and submission of final CAD drawings, survey plans, schedules, reports, digital data and other project-specific deliverables.

Key Capabilities Summary

The key capabilities summary outlined

- Experienced survey, utility, CAD and project teams
- Advanced surveying, detection and data-processing technology
- Integrated surface and underground utility data
- Systematic procedures and rigorous quality control
- Rapid mobilisation to meet project requirements
- Compliance with HSE procedures and applicable standards
- Dedicated data, drawing and deliverable verification
- Reliable information for design, construction and asset documentation

The Company Highlights

- Experienced technical and field teams
- Modern survey and detection equipment
- Strong Oil & Gas and infrastructure experience
- Rapid mobilization capability
- Integrated field-to-CAD/GIS workflow
- Dedicated QA/QC procedures
- Safety-focused operations
- Reliable and timely project delivery
- Comprehensive technical documentation

What sets us apart?



With the key personnels, specialists and geotechnical engineers, Vision International combines advanced topographic & underground utility survey 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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