

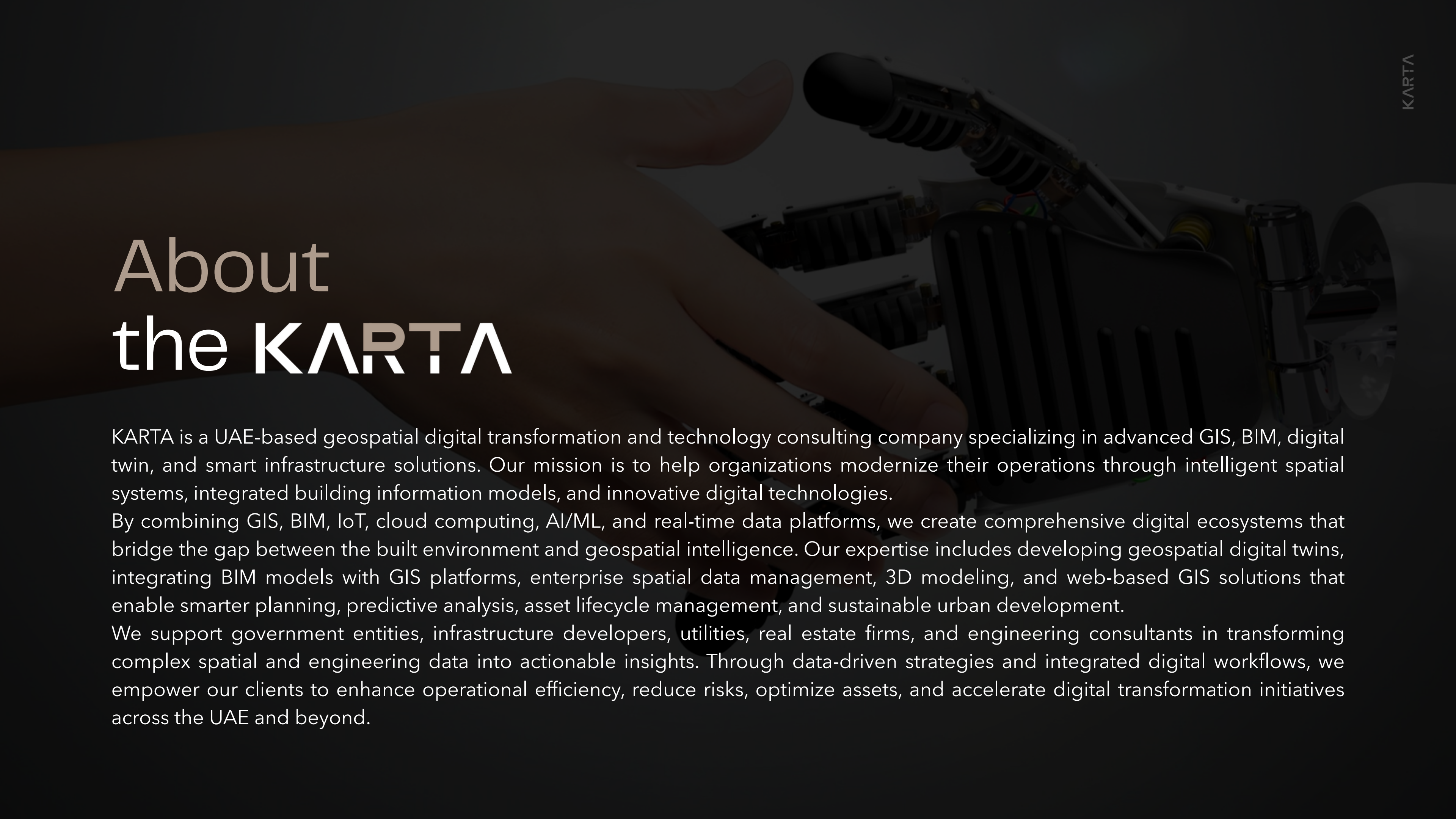
KARTA

Digital Twin

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About the KARTA

KARTA is a UAE-based geospatial digital transformation and technology consulting company specializing in advanced GIS, BIM, digital twin, and smart infrastructure solutions. Our mission is to help organizations modernize their operations through intelligent spatial systems, integrated building information models, and innovative digital technologies.

By combining GIS, BIM, IoT, cloud computing, AI/ML, and real-time data platforms, we create comprehensive digital ecosystems that bridge the gap between the built environment and geospatial intelligence. Our expertise includes developing geospatial digital twins, integrating BIM models with GIS platforms, enterprise spatial data management, 3D modeling, and web-based GIS solutions that enable smarter planning, predictive analysis, asset lifecycle management, and sustainable urban development.

We support government entities, infrastructure developers, utilities, real estate firms, and engineering consultants in transforming complex spatial and engineering data into actionable insights. Through data-driven strategies and integrated digital workflows, we empower our clients to enhance operational efficiency, reduce risks, optimize assets, and accelerate digital transformation initiatives across the UAE and beyond.

What KARTA do



Geospatial &
GIS Services



Digital Twin
Solutions



Smart Infrastructure &
Asset Management



BIM Services



Surveying & Reality
Capture



Data & Technology
Consulting

Verticals

KARTA Focuses



Infrastructure
Projects



Power &
Utility



Oil & Gas
Projects



Agriculture &
Forestry



Urban Planning &
Pollution



Marine &
Hydrology



GIS Authority Approvals



DMT - ATS / IDAS Approvals

GIS Data Preparation & Dept. of Municipalities & Transportation Submission

Comprehensive GIS services for DMT, ADM, AACM & DRM authority requirements, covering infrastructure, landscape, utilities and municipal assets. Expertise includes As-Built CAD to GIS conversion, geodatabase development, asset attribution, spatial validation, topology and data quality checks, aligned with the latest authority GIS standards and templates. Complete support for Baianatec QC, ATS workflows and IDAS GIS approvals, ensuring accurate, structured and authority-compliant GIS deliverables ready for official submission and asset handover.



ADNOC Approval

ADNOC-Compliant GIS Data Preparation
LSDM / GIS Templates • Topography & Utility Data



TAQA Approvals

Water, Wastewater & Utility GIS Submissions
TAQA Distribution / TAQA Water Solutions



DARI Building Permits

Building Permit Documentation Support
GIS / CAD Data Coordination & Submission Support

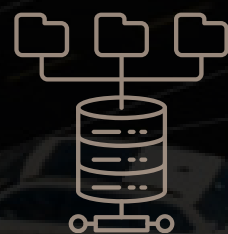


Geospatial & GIS Services



Spatial Data Management

Organizing, storing, and maintaining geospatial databases



Geospatial Analytics

Spatial analysis for planning, forecasting, and decision support



3D GIS Mapping

Visualization of geographic environments in 3D



Web GIS Development

Interactive mapping applications accessible through web platforms



Enterprise GIS Implementation

Organization-wide GIS platforms and system integration



Geospatial Data Integration

Integrating GIS with BIM, IoT, and other enterprise systems



B I M Services



3D BIM Modeling

Creation of intelligent 3D building models that represent architectural, structural, and MEP components



5D Cost Estimation

Linking cost data with BIM models to provide accurate and dynamic project cost estimation



BIM Coordination & Clash Detection

Identification and resolution of design conflicts between architectural, structural, and MEP systems



Scan-to-BIM Services

Conversion of laser scan or reality capture data into accurate BIM models of existing structures



4D Construction Simulation

Integration of project schedules with BIM models to visualize construction phases over time



BIM Integration with GIS

Connecting BIM models with GIS platforms to integrate building information with spatial data



Digital Twin Solutions



Infrastructure Digital Twins

Virtual models of roads, utilities, and urban assets



City Digital Twins

Real-time digital replicas of urban environments



Facility Digital Twins

Operational monitoring of buildings and facilities



Real-Time Data Integration

Linking IoT and sensors with digital twin platforms



Predictive Analytics

Forecasting maintenance and operational issues



Simulation & Scenario Modeling

Testing future infrastructure or operational scenarios

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