

# Capability Statement

# LAYERMARK

Vision Defined Solutions

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## Company Description

LAYERMARK focus areas are:

- Geospatial GIS system concept definition, design & development for reliable access to data and analytical information.
- Standards, guidelines and policies development for Enterprise System Architectures addressing a wide range of stakeholders including Government, State and Commercial entities, concluding with turn-key system implementation
- Custom Application Development including web, desktop applications, mobile application development and modernization.
- Intelligent Transportation Systems, Electronic Toll Collection (ETC) and All Electronic Tolling systems with RFID (18000-6C), DSRC and GNSS technologies - design, development, deployment and operation and maintenance.
- Advanced Structural Inspection for Road, Highway, Pavement, Tunnel and various structures in order to facilitate better management for government bodies for projecting needs and maintenance.
- Quality control, quality assurance, certification, testing of systems development including software & hardware using CMMI, SAFe models

We focus on delivering ROI-focused and result-oriented solutions which enable customers to collect, integrate, manage, analyze, and make informed decisions more efficiently. We optimize your enterprise systems so that you can take maximum advantage of the improved solutions you create, to get the best results. We deliver successful implementation as a result.

## Core Competencies

LAYERMARK provides clients with innovative business services in the following areas:

1. Enterprise GIS Portal Development
2. GIS Organizational Interoperability Support
3. GIS Platform (ESRI environment) Migration, Upgrades
4. Enterprise Geospatial Data Warehousing
5. Standard, guideline and policy development for Enterprise System
6. Architectures Quality Control & Quality Assurance (Software)
7. Modelling Enterprise GIS Architecture
8. Custom MIS & GIS Software Development
9. Organizational GIS Data Management
10. Analysis & Design of Organizational GIS Infrastructure
11. Military Command & Control Information Systems
12. Artificial Intelligence
13. Real-Time Data (IoT) & Big Data Analytics
14. Data Visualization
15. Organizational Process & Improvement Engineering
16. Electronic Toll Collection (ETC)
17. Test, Audit, Inspection Services
18. Asset Management System Upgrade and Modernization (Maximo, CityWorks etc.)
19. Collaboration with Institutions & Open Data
20. Establishing Work Environment
21. Structural Inspection via high tech RFID systems
22. CMMI (Capability Maturity Model) Based Services
23. Service and Acquisition Support

## Products

- **Land Administration System** – Cadastral Management, Soil Management, Geobotanical Management, Expropriation Management, Road & Street Network Management
- **Field Mobility Solutions** – Offline and online applications for field workers
- **Electronic Toll Collection (ETC) System** – based on RFID (18000-6C), DSRC and GNSS technologies
- **Profitability Management** - Drive various segment profitability laggards to leadership positions.
- **Inventory Management** - Optimize capital invested in inventory while improving customer service levels.
- **Customer Management** - to align strategically and operationally using a customer driven competitive focus.
- **Project Management** - to funnel the senior executive inbox to the few things that matter by censoring-out projects that are "noise".
- **Structural Inspection System for Road, Pavement, Tunnels, and Large Constructions** – Infrared based high-tech system for project costing and maintenance management

## Other Services

- **CMMI** (Capability Maturity Model Integration) based Quality Control & Quality Assurance Assessments
- **SAFe** (Scaled Agile Framework) Consulting
- **Test Services** (Test Management, Test Planning, Test Execution (Manual or Functional Automated Testing), Performance/Load Testing, Penetration Testing)
- Software Engineering Process Areas Consulting and Tools Implementation
- **Structural Inspection Services** for Road, Pavement, Tunnels, and Large Constructions based on Infrared based high-tech system to assist in project costing and maintenance management

## Government Solutions

We deliver integrated, seamless solutions that integrate multitude of systems using modern, responsive application development practices and technologies to support organizational workflows and business processes on local or regional governmental level. By the integration of field operations through robust field mobility applications that while will work online and offline, we focus on easy to use interfaces and excellent user experience that support/improve/enhance business processes and workflows and automate them from start to finish. At LAYERMARK, we understand that *Data is a Pile of Numbers ~ Information is Knowledge*:

- GIS Platform (ESRI environment) Design, Development, Migration, Upgrades
- Mobile Field Data Collection Solutions Design & Development
- Cloud Readiness Analysis and Cloud Migration (Azure, AWS, and others)
- Business Process Change and Re-engineering
- Business Process/Workflow Automation and Integration
- Custom Application Development
- Asset Management System Upgrade and Modernization (Maximo, CityWorks etc.)
- Database Development, Implementation, and Migration across various systems including Oracle, SQL and others

## Military Solutions

We provide geospatial and messaging based command and control utilities based on extensive experience gained on C2 systems and battlefield exercises. Comprising aspects of planning, execution, and assessment phases, many of these utilities are based on Network Enabled Capability as web services. They include messaging, symbology, METOC, rich control feature editors, operational business rules, common operational pictures (COP), smart layers, and simulation systems integration.

- Military Geospatial Intelligence
- NATO JC3IEDM Data Model Support & Consultancy
- Intelligence Preparation of the Battlefield
- Smart Military Layers
- JTLS/JCATS Simulations Systems to C2 Systems Integration
- ADATP-3 Military MTF Messaging Services
- Combat Business Rules
- C2 Business Rules
- METOC Services
- Symbology Services
- COP Services

## Past Performance

LAYERMARK's past performance is supported by the key management team members who have extensive experience (20+ to 30+ years) in the products developed and services provided in this capability statement including but not limited to CMMI High Maturity Lead Appraisers, SAFe consultants, PgMP, PMP certified.