InNovo
Engineering, Technology Solutions, & Planning

OFFICES:
ORLANDO, FL
TALLAHASSEE, FL

Capability Statement

InNovo Partners is a transportation engineering, planning, and technology solutions firm. One of our core functions is helping clients make better decisions using innovative technologies and data. Our team of engineers, planners, and technology professionals specializes in providing insights and business intelligence by incorporating data analysis and visualization to scenario planning, policy development, transportation planning, traffic operations, and asset management. Our clients include state and local government agencies, municipalities, transportation and metropolitan planning organizations, and private organizations. Our diverse team is our greatest asset, and we use their comprehensive skills to identify and solve problems for a safer and more efficient transportation system.

Core Competencies

Transportation Planning and Engineering
- NEPA Documentation
- Public Engagement
- Corridor/Intersection Studies
- Traffic Impact Analysis
- Project Cost Estimation
- Trends, Analysis and Statistics

GIS Services, Data Science, and Visualization
- Machine Learning (ML)
- Deep Learning (DL)
- Computer Vision (CV)
- Dashboarding
- GIS Services (ESRI & Open Source)
- Big Data and Data Management
- Data Architecture Development
- Data Governance

Computer Vision / Artificial Intelligence (AI)
- InNovo Platform-as-a-Service (iPaaS)
- Taxonomy
- Traffic and Turning Movement Counts
- Speed and Headway Collection
- Near Miss and Wrong Way Driving Detection
- Asset Collection

Urban and Regional Planning
- Policy Planning
- Master Planning
- Community Visioning
- Public Involvement
- Community Engagement

TSM&O
- Data Analytics & Performance Monitoring
- Safety and Efficiency Analysis (iPaaS)
- TSM&O Program Development
- Planning for TSM&O
- System Engineering Documentation

Information Technology (IT) Managed Services
- PC Support
- IT Technical Support
- Network Support
- Data Redundancy and Support

Research and Development (R&D)
- iPaaS Ongoing Development
- Artificial Intelligence Research
- Large Language Model Application
- Performance Metric Methodology

Staff Augmentation – Field Office Staff
- Engineering and Planning Staff
- Project and Program Management

Certifications

Former Disadvantaged Business Enterprise (DBE)
Small Business Enterprise (SBE)
Small Sustainable Business Enterprise Program (SSBE)
Woman Business Certification (WBE)

Pre-Qualifications

Florida Department of Transportation
- Group 6.1 – Traffic Engineering and Operations Studies
- Group 6.2 – Traffic Signal Timing
- Group 6.3.4 – Intelligent Transportation Systems Software Development
- Group 13.4 – Systems Planning
- Group 13.5 – Subarea/Corridor Planning
- Group 13.6 – Land Planning/Engineering
- Group 13.7 – Transportation Statistics

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Key Project Experience

Transportation Planning and Engineering

- FDOT District 5 Corridor Planning Consultant
- FHWA SHRP2 Planning for Operations Guidebook
- Tampa Hillsborough Expressway Authority (THEA) Whiting Street PD&E Study
- FDOT District 5 TSM&O Project Management
- FDOT District 5, US 1 Corridor Planning Study
- Hillsborough County Planning Department
- Altamonte Springs CV Shuttle Concept of Operations (CONOPS)

GIS Services, Data Science, and Visualization

- FDOT Central Office Sourcebook 2.0 PTI Pilot Application Development
- FDOT District 3 Dynamic Message Sign Dashboard
- FDOT Central Office Vehicle to Everything (V2X) Data Exchange Platform (DEP) Subject Matter Experts
- Seminole County Sheriff's Office Real-Time Data Analysis and Visualization
- Hillsborough County New Development Trips Tracking Tool

Computer Vision and Artificial Intelligence (AI)

- RCI Data Extraction of Safety Assets (Inventorying Signals, Guardrails, Rumble Strips, Speed Limit Signs, Billboards, Transit Stops, etc.)
- Asset Management (ADA Ramps, Pedestrian Safety features, etc.)
- Traffic Counts (Turning Movement, Daily Counts, Vehicle Class)
- Safety Analysis (Wrong Way Driving, Near Miss Events, Before/After Studies, Rail Crossing Assessments)
- Electric Vehicle Penetration Rate Studies (Assess Vehicular Mix)
- Trajectory Data for Simulation Calibration (Speeds, Headways, Lane Utilization, etc.)

Urban and Regional Planning

- City of Orlando Future Ready Master Plan Support
- FDOT Central Office Sourcebook
- FDOT Central Office Forecast and Trends Office Support Consultant
- FDOT District 5 Orange Avenue Master Plan
- FDOT Central Office TIME Model Update Support
- Planning for TSM&O Guidebook
- FDOT District 5 ITS Rail Crossing Public Involvement Program
- Central Florida 2050 Visioning – How Shall We Grow?

TSM&O

- FDOT Central Office Safety Screening Proof-of-Concept
- FDOT Central Office TDA iPaaS Electric Vehicle Identification and Data Analytics
- FDOT District 5 PedSafe Greenway Deployment Project
- FDOT District 5 Regional Integrated Corridor Management System (R-ICMS)

Awards

- Association for Unmanned Vehicle Systems International – iPaaS 2020 XCELLENCE Award
- GrowFL – 2021 Company to Watch Finalist

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