

Ensure Project Success Using Modern Geospatial Solutions

Leverage enterprise integrations, web services, mobile mapping, and more to reduce complexity and streamline processes

Reduce IT complexity

In an era of thin margins and ever-increasing regulations, construction companies today are looking to modernize their IT infrastructure for greater business value. Yet this often results in deploying multiple systems, including ERP, CRM, GIS, and project scheduling like Oracle Primavera P6. In addition, companies often perform tasks, such as project costings, using simple spreadsheets. These siloed systems, disparate databases, and stand-alone applications create IT complexity that impacts decision-making at every level, resulting in:

- Inadequate resource and asset allocation
- Risk of program and project overruns
- Inaccurate models and forecasting
- Poor planning and scheduling
- Ineffective project monitoring and reporting

Construction companies need an enterprise approach where connected systems, integrated data, and shared tools supply a seamless digital ecosystem. That's where modern GIS and integrated project controls can help. Modern geospatial solutions transform IT operations with enterprise integration, web services, field mobility, and more.

Companies can leverage an enterprise environment that streamlines systems and data flows and reduces waste. They can leverage timely, complete, and accurate data for assets, parcels, rights-of-way, utilities, people, equipment, supplies, scheduled work, and regulatory requirements.

Construction IT challenges:

- Disconnected systems and software
- Disparate databases and applications
- Limited tools and analysis
- Increasing volumes of data
- Lack of data visibility and cohesion

An enterprise-wide advantage

Modern geospatial solutions allow companies to connect people, processes, and departments using web services and integrated databases. It links to enterprise asset management and project control systems to enable project teams to view data from disparate systems in a single place. Functionality involving command-line knowledge of GIS-specific programming language has been replaced with web-based capabilities built on current IT standards.

With more advanced location-based tools, including maps, apps, dashboards, and reports, personnel perform tasks using fewer resources and less time. They can take advantage of an authoritative geospatial digital twin, which presents a more accurate version of construction projects that includes behaviour and physical characteristics. Engineers can model infrastructure behaviour using real-time data, sensor integration, imagery, and 3D simulations.

Companies can connect to live data feeds like weather and traffic to monitor and analyse real-world relationships between assets and communities. They can develop public-facing web maps and create a self-service channel for customers to track projects and report issues. In addition, field crews can access intuitive mobile mapping solutions to view GIS data, initiate workflows, and complete work orders without copy/paste or manual app-switching.

Modern geospatial solutions enable an integrated approach to planning, program management, fieldwork, and community engagement. Using enterprise GIS software like Esri ArcGIS, companies reduce the risk of rework and optimize numerous workflows such as:

- Scheduling
- Project management
- Environmental management
- Resource management
- Performance monitoring
- Stakeholder engagement
- Health and safety
- Asset management
- Track and traceability
- Digital twins

Partner with a construction IT leader

For businesses looking to take advantage of modern geospatial for construction, Locana can help. With decades of international service, Locana will partner with you to deploy a modern GIS platform tailored to your needs. Our world-class geospatial professionals have worked on some of the world's most advanced engineering and construction projects. We offer the complete lifecycle of GIS services, from systems strategy to design, build, configuration, integration, adoption, and support.

Your organization will have access to industry-leading IT consultants, project managers, GIS and open-source experts, and project management professionals. Because we maintain valued partnerships with enterprise companies such as Oracle, IBM, SAP and Deltek, you will seamlessly connect your GIS software with your enterprise systems. And because of our technical proficiency and proven best practices, you'll gain innovative solutions that cut through complexity. As a result, you'll make better decisions to complete projects on time, on budget, and with minimal risk.

Business benefits of modern GIS:

- Optimize strategic planning
- Improve tracking resources
- Simplify processes
- Improve decisions
- Reduce project overruns

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To learn more about how Locana can serve your construction needs, visit: locana.co/construction.



locana.co



info@locana.co



303-713-3230