

Deploy Intelligent Design That Improves Workflows with Integrated GIS and EAM

SBS solutions and Locana services help companies standardize designs, streamline workflows, and make better decisions

The design dilemma

For large and midsize utilities alike, building safe and reliable infrastructure is a complex undertaking. Engineers, planners, and designers often rely on multiple sources of data and applications such as CAD, GIS, asset management, and work order management. These applications, working in isolation, lack the standards and integrations necessary to create a seamless workflow environment. They often require performing many functions manually, often using pen and paper to redraft and remap designs.

Moreover, service crews still take printed maps and sketches as a job packet into the field when beginning construction projects. They perform hand-drawn redlining to track updates and additions. The revised paper records are returned to the office and input separately into several systems, including GIS, asset management, ADMS, dispatch, and more. The manual and paper-based methods, from the back office to the field, add time, cost, and redundancy.

Locana has partnered with SBS to provide an integrated approach to utility infrastructure design that streamlines workflows using automated functions, productized system integration, and digital tools. Engineering, operations, and GIS can work seamlessly together to improve infrastructure planning, analysis, and data capture before, during, and after projects. Staff can employ intelligent design solutions to work smarter, faster, and with greater accuracy and performance.

Utility design challenges:

- Manual engineering, mapping, and field services
- Isolated GIS, CAD, and asset management
- Incomplete and inaccurate data
- Workflow redundancy and lack of standards
- Lack of integrated communication and transparency

The benefits you gain

- Automated processes and workflows
- Integrated GIS, CAD, and other systems
- More accurate, timely, and complete data
- Efficient engineering, design, and construction
- Increased transparency and communication

Optimize designs for greater performance

By combining digital mapping with intelligent design, asset management for materials, and work order management - you take your design precision and efficiencies to a new level. Companies in electric, gas, and telecommunications industries optimize network design for maximum performance and reliability. You leverage enterprise GIS data and tools to create advanced modeling, order materials ease, execute costing and estimation, and distribute results—all in one solution.

You can deliver more consistent and coordinated projects using a model-based approach and rules-driven workflows. You can effectively edit and work with assets and related attributes and considerations. Designers create plans and sketches with greater accuracy, making it easy to use the correct and current construction standards. Using enterprise GIS, which automates steps and interoperates with your other systems, you remove the need for manual redrafting and remapping. Work orders are attached to drawing files and associated information for the remainder of the process. The bill of materials is automatically created and edited as the design is modified.

People gain greater trust in their data, which is developed at an accelerated speed and leads to more efficient network modernization and maintenance of assets in the field. Once new projects are designed and asbuilt, they are transitioned into GIS production, it provides other departments with the latest information for continuous network monitoring, upgrading, and repairing.

The integrated, automated approach improves:

- Intelligent design and engineering
- Standardized safety and compliance
- Enterprise cohesion
- Field operations toolsets
- Risk management

Partner with leaders in geospatial and CAD solutions

For companies looking to implement intelligent design solutions that bring together GIS, CAD, and more, turn to companies you can trust—like [Locana](#) and [SBS](#). Take advantage of a best-in-breed approach to improving your engineering and geospatial capabilities. With hundreds of clients served worldwide, SBS provides proven, effective solutions for designing the world's critical infrastructure. And Locana offers expanded services and solutions that run the gamut of geospatial technologies, developing, implementing, and connecting solutions for organizations of every size, industry, and geography.

Locana

To learn more about how Locana can start your geospatial journey with strategic planning and design, visit www.locana.co/what-we-do/enable.



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