SAM
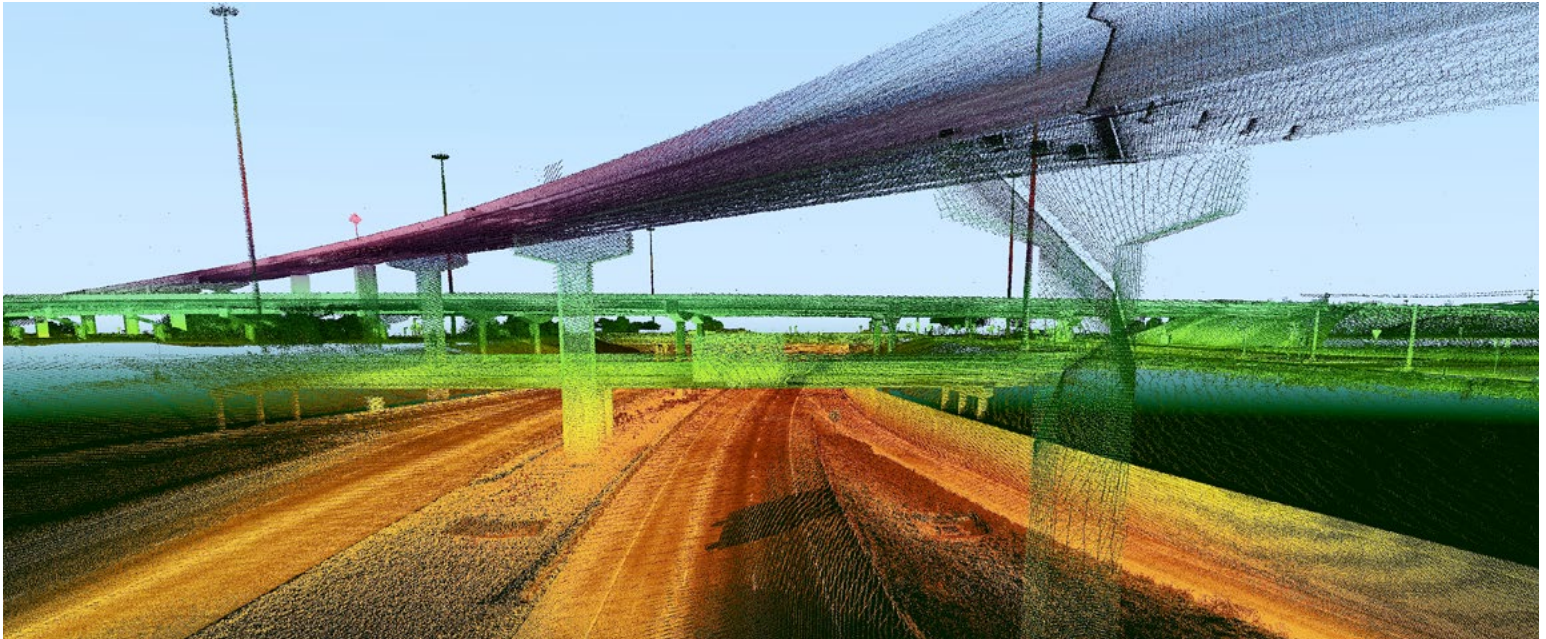
MOBILE LIDAR //

Through our mobile LiDAR services, SAM is committed to providing clients with exceptionally detailed data.

Mobile LiDAR, or 3D laser scanning, is one of the fastest, most efficient ways to collect spatial data. Our non-invasive technologies capture all required data-point measurements in a single pass, speeding up processes and eliminating the need for further mobilization costs. With access to a full range of laser scanning technologies, our team can tailor the level of data collected to meet your specific priorities.

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Our mobile scanning technologies save time and money

Capturing up to a million or more survey-quality points per second, SAM's mobile LiDAR solutions move your program forward far faster than conventional geomatics techniques. Our experts use the most advanced laser scanning tools to save you time and money.

We equip our mobile LiDAR vehicles with multiple 360-degree LiDAR sensors, high-resolution cameras, GPS receivers, and an Inertial Measuring Unit to capture the industry's highest data density—up to 150 points per square foot. This non-invasive method accurately locates features inaccessible by other methods. If daylight site access is constrained, data collection can even be performed at night.

Complete data processing

As soon as it's collected, SAM's experienced technicians review the data to verify complete coverage. Post-production data is archived to support more seamless service for future geomatics work.

SAM is experienced in a wide range of data processing software systems, and can provide your LiDAR data in any preferred format. Many clients use our mobile scanning and mapping data to support Digital Terrain Models with a georeferenced point-cloud dataset.

Key Services:

· 3D Asset Inventory/Mapping
· GIS Mapping
· As-Built Geomatics
· Engineering Design
· Digital Terrain Models
· Planimetrics
· 3D Modeling
· Engineering/Route Selection
· Vegetation Geomatics
· Crossing Geomatics
· 3D Corridor Mapping for Engineering and Obstruction Surveys
· Positive Train Control (PTC) Mapping
· Existing Track Geometry and Cardinal Points
· High and Wide Routes Defined by AREMA Plate Templates
· Rail Yards, Signals, Yard Roads, Maintenance Facilities
· Under Cutting Projects, Bridges and Track Profiles
· Open Deck Bridges for Timber Maintenance

What differentiates SAM?

SAM has built a reputation as a trusted, knowledgeable, and innovative partner. SAM transforms petabytes of complex spatial data into intelligent insights in a holistic Managed Geospatial Services™ (MGS™) framework. As North America's premiere MGS™ company, SAM provides practical, precise, and high-fidelity solutions designed to enhance decision-making, mitigate risks, achieve strategic objectives, and drive costs out of our client's business. Our vision is to advance spatial data acquisition, improve analysis capabilities, and develop predictive analytics to redefine and transform how infrastructure assets are developed and managed throughout their lifecycles.

REACH OUT TODAY

Want to experience the SAM difference for yourself?

Learn how we can put our resources to work for your next program. Call us toll free at **(800) 656-9525** or visit us at **sam.biz**