

SGS TRANSPORTATION DATA ANALYTICS

DATA ANALYTICS SOLUTIONS FOR ENGINE AND VEHICLE DEVELOPMENT FROM AN INDUSTRY LEADER

With deep transportation testing expertise for anything from components and engines to full vehicles, SGS's data analytics and consulting services are informed by real world knowledge of your testing and data needs. Within a rapidly evolving industry, there's a strong need to stay ahead of the curve by leveraging the increasing amounts of available data, and we can help. We can work with you to build a custom solution around your testing needs.



PROJECT-BASED DATA EXPLORATION TO CUSTOM DATA ANALYTICS PLATFORMS

Current vehicles require increasingly complex control system management, with over 80 microcontrollers, more than 100 types of sensors, and 5 types of networks. We can work with you to leverage that data, or test data to extract value, make your data actionable, improve your product, find efficiencies, bring your product to market faster, stay ahead of increasing regulatory standards, and more.

We can work with you on anything from project-based data exploration to massive computing platform implementation on a production scale. We offer consulting, engineering, testing services and access to customized data mining applications that leverage our vast industry knowledge to help you achieve increased productivity, quality improvement and cost reduction. We can show you the value in your data.

SGS TRANSPORTATION ANALYTICS SERVICES INCLUDE:

- Design of experiments, hypothesis testing, statistical and historical data analysis, classification, machine learning and prediction
- Leveraging analytics and models on a Big Data scale
- Computer-based pipeline solutions with flexible service delivery models compatible with your existing information systems
- Web-accessible platforms available on your domain, or hosted on ours

CONTACT US

To request a quote or discuss your needs in detail, please call (518) 580-0555 or email us.transportation@sgs.com.

TESTING DOMAIN EXPERTS

- SGS operates a network of eight testing labs across the US
- We can assist with anything from emissions, component, engine and vehicle testing to offering test cell solutions including equipment procurement and project management services for test cell builds
- Our experts develop and interact with testing technology, and have a complete understanding of data types, instruments, measurement nuances, test plan design, data analysis and interpretation
- We conduct regulatory testing and homologation as well as research and development testing, offering engineering services and support as needed

TESTING TECHNOLOGY SOLUTIONS

- Data loggers
- Telematics hardware selection and configuration
- Field instrumentation
- Database configuration
- ANOVA statistical modeling

The logo for SGS, featuring the letters 'SGS' in a bold, sans-serif font. The letters are dark grey or black. To the right of the letters is a vertical orange line. Below the letters and the line is a horizontal orange line that extends to the left, creating a stylized 'L' shape.

SGS A GLOBAL INDUSTRY LEADER

As the world's leading inspection, verification, testing and certification company, SGS delivers solutions for customers spanning 11 different industries including the Transportation industry. With 95,000 employees worldwide and 2,400 offices across the globe, We are constantly anticipating customers' and society's evolving expectations in order to deliver market leading services wherever they are needed.

BENEFITS

Our Transportation team within North America works with our clients to solve problems and manage programs that improve the safety, environment and compliance of the transportation ecosystem.

- Rapid start-up of programs due to our extensive industry background
- Resources to bring your solution to market quickly and efficiently
- Solutions that leverage data in ever increasingly effective and creative ways
- Ensure compliance and get new insights that contribute to a safer and healthier world
- Advanced testing methods requiring the power of smart transportation data analytics, such as connected vehicle and autonomous vehicle quality assurance



SGS ANALYTICS SOLUTIONS AT A GLANCE

With experience in many types of testing services, we are able to build custom solutions based on your current needs. Below are some of the services we currently offer, but reach out to discuss your unique testing and analytics needs. We can combine our testing and analytics services to build a custom solution.

EMISSIONS TESTING SUPPORT

As a provider of Portable Emissions Measurement System (PEMS) testing services and support, we can build custom solutions around your emissions testing campaign. Whether your testing a vehicle, off-road vehicle or a piece of machinery, we can provide both testing and analytics support.

- Make data visualization easier with our app
- Interpret in-use test results with statistical confidence
- Identify control system causes for higher than normal emissions
- Get AECD verification in the field

BENCHMARKING

Use historical data as well as current testing data to make sure your product is improving relative to your competition.

- Competitor product or emissions performance from an independent third party
- Allows you to focus on your core business while we build you actionable reports

REMOTE FLEET MONITORING

We can help you track your fleet and look for ways to maintain its safety and value.

- Track abuse and exposure history as well to ensure compliance
- Discover problems before your fleet fails to maintain the safety of your teams
- Plan alerts for parts and service needs to increase your service network's revenue
- Macro analysis of product performance to assist in decision making
- Monitor your workforce to ensure safety and increase productivity

RELIABILITY, QUALITY AND WARRANTY

Reduce warranty costs, better manage your parts inventory, increase your dependability consumer ranking or improve on your product launch success by letting SGS build you a custom platform.

TEST PROGRAM MANAGEMENT

We can help you better utilize your test program funding, reduce testing costs and look at product line coverage with gap analysis reporting and program analysis.

VEHICLE AND ENGINE TESTING AND DEVELOPMENT SOLUTIONS

We can interpret your in-use and on-road test results with statistical confidence.

- Reduce future development time by quantifying variability
- Minimize recalls by finding hidden defects, malfunctions and issues
- Application engineering to keep development costs down and bring your product to market quickly and safely
- Discover ways to stay ahead of increasing regulatory standards

WHEN YOU NEED TO BE SURE

SGS