Spatial Data Science and Analytics

Rigorous analytics add a new dimension to trusted science

AECOM uses Data Science and analytics to gain a deep understanding of data to find simple solutions for complex business problems.

Planning Using Predictive Modeling

AECOM is a leader in using Predictive Modeling to make environmental compliance processes more effective and efficient. From large linear projects to small siting jobs, we incorporate predictive modeling to make informed assessments of how much survey and boot-on-the ground are needed. Working with regulators, we save projects time and money by allocating the right amount of resources and avoiding surprises.

Data isn't just a by-product of the work we do - it is the foundation for efficient planning and making smart, timely decisions. At AECOM, we use the framework of Data Science to standardize use of data analysis, modelling, automation, and forecasting. This brings our clients a new level of transparency, rigor, and trust in the process. Depending on business needs, AECOM uses a range of approaches from traditional statistical analysis to advanced techniques like Machine Learning and Deep Learning. Every step, we focus on solving problems with simple and practical tools that bring the most impact to the bottom line.

KEY BENEFITS

- Gain new insights from data that lead to new solutions to old constraints
- Automation of repeated process for increased efficiency and lower cost
- Understand data in the terms that mean the most to businesses with descriptive analysis
- Expose points of failure and build more robust operations with diagnostic analysis
- Reduce costs by learning from data and efficiently allocating scarce resources with predictive analysis
- Help make better business decisions and measure KPIs that matter with prescriptive analysis

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