Informed Decision Making Throughout the Life Cycle of Your Assets

In today's economic environment, federal funding is increasingly constrained and agencies require decision support and prioritization tools to maximize the benefits of scarce resources. Aging infrastructure, climate change uncertainty and advancements in transportation technology increase the demand for alternative funding strategies and fresh approaches to prioritize investments and programs.

Our staff of more than 30 economists, statisticians and finance professionals has experience in economic analyses, applied research, planning and decision support for federal, state and local transportation agencies. We conduct benefit-cost, economic impact, and life cycle cost analysis for project selection, business cases, prioritization, grant applications and alternatives analysis. With extensive experience in developing dynamic and integrated long-range financial programs, our expertise is utilized in strategic decision-making including budgeting, capital expenditure prioritization and debt planning. We leverage statistical analyses to uncover trends and insights and test assumptions to help our clients make informed and objective business decisions.

**A Sustainable Value Analysis Process Ensures Adequate Funding**

Our Sustainable Value Analysis process is a risk-based approach compliant with the financial planning requirements of the United States and Canadian federal governments, state and provincial agencies, Class I railroad operators, and metropolitan planning organizations. Whether it is for public-private partnerships, financial planning or third-party reviews, the benefit of our holistic approach to financial modeling is to efficiently find the best solutions to adequately fund your transportation projects.

**Supported 95 successful grant applications** for federal discretionary grants and received **$2.3 billion in federal funds** for key highway, rail, port, transit, bike, pedestrian, freight and multimodal projects.

**What We Do**

- Planning and Decision Support
- Benefit-Cost and Economic Impact Analyses
- Life Cycle Cost Analysis
- Economic Development Assessment
- Regulatory Impact Analysis and Business Cases
- Sustainability and Resiliency Analysis
- Risk Analysis and Management
- Statistical Analysis
- Financial Analysis and Funding
- Market Analysis and Forecasting
- Grant Application Support
- Commodity Flow Analysis for State Rail and Freight Plans

**Sustainable Value Analysis**

**PLANNING**
- When and where should it go?
- Is it affordable?
- How reliable is it?

**DESIGN**
- Which investment level delivers best economy of scale?
- Which design best suits purpose and need while minimizing impacts?

**CONSTRUCTION**
- Which delivery mechanism yields highest value-for-money?

**OPERATION & MAINTENANCE/ASSET MANAGEMENT**
- When should a system be replaced?
- Which system should be replaced?
Innovative & Adaptive Approaches to Meet Our Clients’ Challenges

A hallmark of our approach is integrating economics with planning and engineering to develop appropriate solutions directed to our clients’ priorities. This is particularly challenging in an era of climate change and uncertainty, technology disruptions, and funding pressures. We have developed procedures for directly tying benefit analysis with the outputs from travel demand and micro-simulation models used to understand the demand, mode choice, and traffic impacts of transportation improvements. This allows us to better calibrate the models and present performance measures to decision makers. Using tools such as Cal-B/C, REMI or IMPLAN, we can calculate benefit-cost ratios and estimate economic impacts for various scenarios and investments. We can also tie risk analysis to incorporate uncertainty into scenario planning.
Our Story

We specialize in engineering, architecture, environmental and construction services. While we are well-known for adding beauty and structure to communities through high-performance buildings and smart infrastructure, we provide much more than that. We create an unshakable foundation for progress because our multidisciplinary teams also include scientists, economists, builders, analysts and artists.

Our employees, working in more than 200 locations around the world, push open the doors to what’s possible each and every day.

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