Autocase Economic Advisory

Contact Us

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Stormwater & Landscape Economics

Autocase Economic Advisory supports the stormwater and landscape architecture sectors by quantifying and valuing the benefits of investments in nature-based solutions, blue-green, green, and/or green-gray infrastructure. Autocase Economic Advisory is the economic consulting stream of Autocase. Our team of experienced consultants have conducted economic analyses on over \$100 billion worth of projects and successful grant applications, our expertise in stormwater and landscape economics is concentrated in:

Economic Analyses

- Capital Investment Planning Valuation and Prioritization
- Carbon Life Cycle Analysis
- Cross Asset Strategic Planning
- Cost Benefit Analysis (CBA)
- Econometric Modeling
- Economic Impact Analysis (EIA)
- Environmental, Social & Governance (ESG)
- Financial Life Cycle Cost Analysis
- Geospatial (GIS) Impact Evaluation
- Grant Application Support
- Life Cycle Cost Analysis (LCCA)
- Multicriteria Decision Analysis (MCDA)
- Real Estate Economic Analysis
- Regulatory Economic Analysis
- Resilience Analysis with Climate Change
- Risk Analysis



Quantify

- CSO Event Reductions
- Habitat Created
- Pollutants Removed
- Park Visitors
- Properties at Risk
- Water Conserved



Value

- Habitat & Pollinator Benefits
- Social Cost of Carbon
- Utility Cost Savings
- Water Quality Human & Ecological Benefits

Sector Knowledge

- Blue-Green & Green-Gray Infrastructure
- Ecosystem Restoration
- Nature-based Solutions
- One Water
- Stormwater Management Practices
- Regional Water Stressors

Valuation Methods

- Coastal & Inland Flood Damages
- Climate Adaptation Evaluation
- Ecosystem Services & Natural Capital
- Environmental Value of Water Quality
- Hazard Mitigation Evaluation
- Probabilistic Value-at-Risk/Monte Carlo
- Social Costs of Pollutants
- Social Costs of Water Scarcity



Communicate

- Case Studies
- KPIs
- Literature Reviews
- Methodology Reports
- Technical Reports
- Stakeholder Seminars



Trusted by Industry









LACDPW has expressed a long-term vision of equipping their engineers with economic analytics to assess project proposals for their risks, lifecycle costs, and broader sustainability flood risk impacts associated with a variety of green infrastructure investments. Six large scale green infrastructure sites across LA County, California were assessed to determine the tradeoffs between capital investment costs and benefits to local communities and ecosystems. A gap analysis outlined the pathway towards an economic tool that could be used for project prioritization.

To support San Antonio River Authority (SARA) with their GSI Master Plan for portions of the Upper San Antonio River Watershed, Texas, a TBL-CBA was conducted to value the impacts associated with a suite of eight sites, currently characterized as turf-covered, that were modeled for potential green stormwater infrastructure (GSI) Best Management Practices (BMPs). The evaluation was constructed with a multidisciplinary team of engineers, landscape ecologists, planners, and economists.

Estimated the value of community and environmental benefits from the McCoy Creek Restoration project investments in trails; playgrounds; a community garden; an outdoor classroom; fitness areas; bird watching opportunities; picnic areas; fishing docks; kayak launches; and a sloped bank to host open-air performances. The analysis also valued capital expenditures and protection to nearby properties from flood damages.

Analyzed the benefits of green infrastructure designs across 30 priority sewersheds across the combined sewer system (CSS) in Pittsburgh, Pennsylvania. The TBL impacts were determined for two levels of green infrastructure implementation covering 85% of combined sewerage capture goals. Autocase estimated air pollution and carbon emissions, heat island effect, water quality, and recreational use benefits, among others not conventionally considered in CSS planning.

Visit our website for more <u>project experience</u> and <u>case studies</u>. About Us

Our team of professional economists conduct rigorous, evidence-based economic analyses of the financial, social, and environmental costs and benefits of sustainable and resilient investments in the infrastructure, real estate, public policy and regulatory worlds.

Our economic analyses help you prioritize investments, understand risks, develop strategic plans, report Environmental, Social, and Governance (ESG) metrics, secure funding, communicate with stakeholders, support climate equity, and understand the holistic trade-offs of your investments and policies. We provide objective, third-party, data-driven quantitative insights to support you.



Interested in our services? Contact us at: eric.bill@autocase.com or www.autocase.com/advisory-services