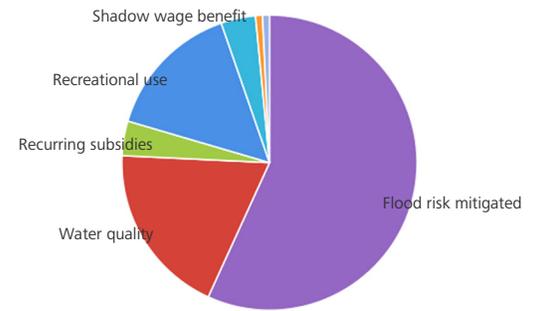


Secure financing and community buy-in for sustainable projects

Cost-benefit analysis combined with 3D design software reports triple bottom-line* value of projects, on demand



A sample stakeholder cost-benefit breakdown generated by AutoCASE

Highlights

- Translate economic, social, and environmental value to financial metrics
- Inform analysis and design iterations with rich data from 3D models
- View full costs and benefits by stakeholder group
- Bring economists' expertise in-house with transparent data sources
- Compare the value of various design options and different projects

Benefits

- Understand TBL* values without costly economic consulting
- Achieve more sustainable, profitable results in less time
- Reduce pushback and costly delays by addressing community concerns
- Present your case with confidence backed by credible data
- Prioritize competing projects for financing based on societal value

Making the case for project value

Every infrastructure and major building project today competes for scarce financing. Teams that convince stakeholders of maximum financial and sustainable returns achieve more wins. But the true scope of valuation is complex. Significant elements of public value are often discounted, not quantified, or overlooked. For example, improved water quality and increased recreational and property value, the natural outcomes of green stormwater infrastructure projects, are often not factored in or are left to subjective evaluation. This makes comprehensive comparisons of sustainability-driven projects to traditional projects difficult.

Custom economic and risk-assessment studies that are meant to resolve this complexity are too costly for ongoing use. They tend to be one-off efforts that end up having little relationship to what is ultimately built.

The solution is to have analysis and reporting of TBL values – economic, social, and environmental costs and benefits – built into the design process.

Introducing AutoCASE

A joint solution by Impact Infrastructure and Autodesk, AutoCASE and its plug-in for Autodesk design software assesses the triple bottom-line costs and benefits of proposed infrastructure and building projects from within the design environment. Because AutoCASE generates TBL business cases quickly, when changes occur, teams can assess the impact immediately and use this information to favorably increase their chances to win financing and buy-in from the community.

How does it work?

AutoCASE has two integrated components: Impact Infrastructure's AutoCASE application and Autodesk's infrastructure and building design solutions.

Project data is integrated via Autodesk's design software. Additional information can be added via an intuitive AutoCASE interface initially, and updated as more

Get in touch.

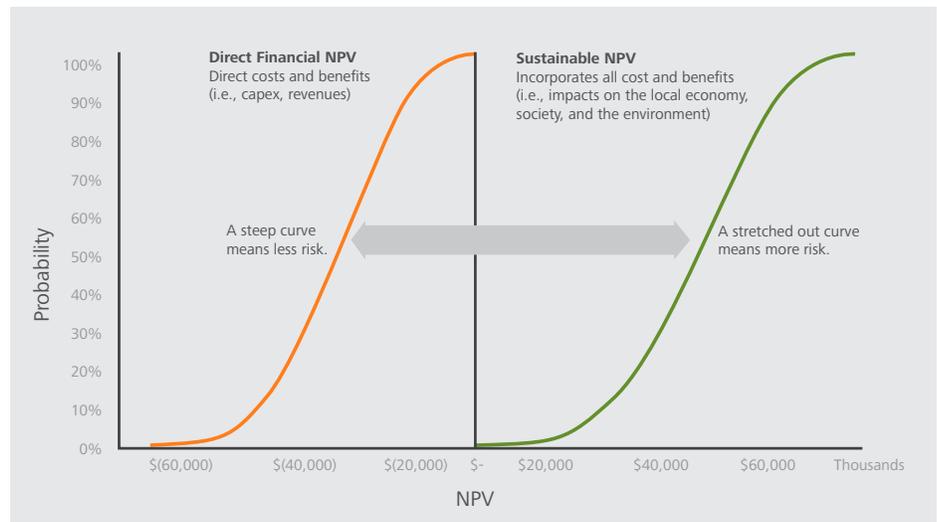
Contact your Autodesk Sustainability Solutions team today.
sustainability.solutions@autodesk.com
sustainability.autodesk.com

AutoCASE delivers cost/benefit analysis, including:

- › CO₂ and pollutants avoided
- › Flood risk mitigation
- › Reduced heat stress mortality
- › Recreational value added
- › Increased property values
- › Protection of water quality and ecosystem services
- › Links to the Envision™ Sustainable Infrastructure Rating System

information becomes available. With a simple command, you can run a detailed, comprehensive analysis with AutoCASE and obtain the project's TBL business case within seconds.

AutoCASE provides users with outputs that include risk-adjusted Net Present Value (NPV) of projects, presented as probabilities of outcomes.



AutoCASE utilizes peer-reviewed studies, industry standards, and local data. The detailed, automatically generated report denotes societal benefits in monetary terms and, unlike traditional cost-benefit analyses, accounts for risk and uncertainty.

The report also breaks down the project by value to multiple stakeholder groups and presents benefits that may be overlooked in normal business case analyses. Teams can compare TBL business cases for design alternatives or even different projects, for example, a stormwater management project versus a transit project. And because AutoCASE is a cloud-based solution, it's available on demand and can be run as many times as needed to optimize a design.

Case in point

*Trinity River Vision Authority
Fort Worth, Texas*

The Trinity River Vision Authority and their engineers at Verdunity successfully used the AutoCASE method to make the case for a more ambitious stormwater approach for a 329-acre development called Panther Island. AutoCASE demonstrated that the total value of a

green infrastructure design exceeds the total expected value of the traditional scenario by more than \$5.3 million.

*City of Tucson
Tucson, Arizona*

The City of Tucson and surrounding Pima County, along with engineers and planners from Stantec, successfully used AutoCASE to establish the value of green, low impact development over traditional stormwater management solutions. They found green stormwater features to be highly beneficial, having more than an 80% probability of achieving a positive net social value. The AutoCASE study enabled the city to make policy decisions in support of green infrastructure features in the region.

For more information on these and other related projects, visit www.ImpactInfrastructure.com/downloads

Getting up-to-speed

Generating business-case reports from AutoCASE has never been easier. In fact, even users that lack finance expertise can perform TBL business-case analysis without extensive training. For support, our consultants from Impact Infrastructure and Autodesk with expertise developing infrastructure projects are available to help plan and integrate AutoCASE into your

Now available – AutoCASE for Stormwater Management

- Incorporate a comprehensive business case analysis into the planning and design of stormwater management projects.
- Integrates with Autodesk Civil 3D

workflow. They can help at any stage, from defining the input requirements needed to capture your building and design data accurately, to generating economic reports or interpreting results.

With the introduction of AutoCASE, you have new tools and support to justify greener projects that deliver far-reaching impact for people, the planet, and profits.

For more information about AutoCASE or other Autodesk Sustainability Solutions, visit our website at www.autodesk.com/sustainablesolutions, or contact sustainability.solutions@autodesk.com.

*Triple bottom line (TBL): An expanded accounting framework used to assess performance results that includes a broad spectrum of financial, social, and environmental considerations. TBL accounting relates directly to the common nomenclature known as "the three P's": people, planet, and profit.

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