

TREDIS® Software (Transportation Economic Development Impact System)

TREDIS®

Transportation Economics



Client

Subscription: State DOTs, MPOs, Consultants

Facts

Period

2020

Project Country

United States

TREDIS is the web-based economic impact and benefit-cost analysis tool for transportation projects and programs. It operates as a SAAS (Software As A Service) product, operated on a cloud platform and accessible to users via subscription. The system combines a highly detailed economic database with an economic simulation and forecasting capabilities. It incorporates various databases and analytic modules by agreement with IMPLAN and Moody's Analytics, and provides results via a flexible visualization module.

TREDIS is the only system that spans all modes of passenger and freight transportation - including highway, rail, marine and air travel, and all types of intermodal terminals and facilities. It is also highly detailed in its representation of both freight and passenger costs and benefits, including the value of improving transportation reliability, access and system connectivity. The system has been widely lauded for its breakthrough technology -- developing a 3-dimensional representation of transportation impacts and economic consequences across a 3-dimensional perspective of space, time and elements of social and the economy. TREDIS is used by local, regional and state transportation agencies to:

- Weigh benefits and costs of alternative transportation investment strategies and policies
- Assess the economic development impacts of investing in new transport infrastructure
- Evaluate benefits of improving access to consumer, producer, and labor markets
- Estimate economic impacts of constructing a transportation terminal or facility
- Estimate the impact of congestion on households and industries (by sector)
- Examine different strategies for managing a transportation corridor
- Perform a comprehensive freight performance evaluation

For any of these applications, TREDIS can be used as a part of a comprehensive planning solution that interacts with existing transportation models and regional economic models. Alternatively, the system can be used by itself as a sketch planning tool to provide "back-of-the-envelope" estimates. TREDIS and its components have been successfully applied in 43 US states, 7 Canada provinces and in Australia. It is also capable of working in other countries around the world. The modular structure of TREDIS enables it to work with a wide variety of transportation models, land use models and financial models. An offshoot of TREDIS is MBCA (Multimodal Benefit Cost Analysis) --an element of TREDIS that is distributed as a free benefit-cost analysis tool, and offered as a public service for multi-modal economic evaluation.

For more information, please visit the [TREDIS web site \(www.tredis.com \)](http://www.tredis.com)

Contact Persons