

How do I get Started?



Please visit the FDOT Resources Home Page on CFGIS
<http://www.cfgis.org/FDOT-Resources.aspx>
to access **TransValU** and other available District resources.

If you have any questions, please contact:

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TransValU

TRANSPORTATION VALUE TO YOU



Florida Department of Transportation
District Five

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What is TransValU?

Which transportation improvement brings the highest return on your investment? Or creates the most jobs? How do you compare the relative benefits and costs of multiple project alternatives? District Five has created a tool to address these questions. **TransValU** (Transportation Value to You) is a tool designed for corridor-level economic and financial analyses of proposed transportation investments in District Five.* It compares the net benefits, economic impacts, and financial return of each project relative to one another. **TransValU** shares theoretical and analytic concepts with the triple bottom-line return on investment model originally developed for the Urban Sustainability Directors Network (USDN), which includes the cities of Boston, Calgary, and Atlanta.

*County-level analysis is available for District Five only, however district-level analysis is also available for other Florida DOT districts.

INPUT

(A)PROJECT INVESTMENT PERIOD	
Project / alternative name	
Total Investment (\$)	
Investment period (Start year)	
Investment useful life (years)	
Baseline traffic data (year)	2014
Future baseline & alternative (year)	2030
Benefits begin accruing (year)	

EVALUATING YOUR INVESTMENTS

TransValU can be used to analyze projects focused on passenger movements (including highway, transit, bicycle/ pedestrian, and combinations of these modes) or those focused on the movement of goods (including highway freight, rail freight, and intermodal logistics centers).

The tool is designed to perform three types of analyses:

- **Benefit-Cost Analysis (BCA)**—reports estimates of project benefits and costs by category, project net present value (NPV), benefit-cost ratio (BCR), break-even year, and overall rate of return (ORR);
- **Economic Impact Analysis (EIA)** —estimates the short-term and long-term economic impacts* of a project, measured in terms of jobs, earnings, business sales, and value added (or Gross State Product) generated; and
- **Financial Analysis**—reports the project net revenues (revenues minus costs), financial rate of return, and discounted payback period.

*Currently, long-term impacts are estimated for freight projects only.

FEATURES OF TransValU:

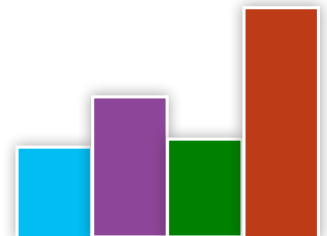
1. **Input Screen** – for each type of project, the tool provides users with clear directions on required and optional input values.
2. **Calculations** – customized formulas and calculations to estimate all relevant metrics (e.g. benefits, costs, economic impacts, cash flows).
3. **Results** –the tool includes a number of tables and charts where key results are summarized.
4. **Alternatives Comparison**– the tool includes a worksheet where results for multiple projects or project alternatives can be stored, for side-by-side comparisons.

Alternatives Comparison made EASY!

OUTPUT

Discount Rate 4.0%	
BENEFITS	Millions of 2011\$
Emissions Benefits	\$20.1
Time Savings	\$110.2
Accidents	\$40.4
...	\$17.5
...	\$151.7
...	\$173.5

DISPLAY OPTIONS



In deciding which type of analysis to run, users should consider the following:

- Run a BCA to determine whether a project creates enough societal benefits (e.g. travel time saving, accident cost saving) to justify its costs.
- Run an EIA to assess the contribution of a project to a local economy, and estimate the number of jobs created or retained by the project.
- Run a Financial Analysis to assess the flows of money (inflows and outflows) to and from a project or agency.

CHARACTERISTICS:

1. All three types of analysis (BCA, EIA and Financial) are accessible from a Welcome page.
2. The BCA module is consistent with the latest USDOT guidance for TIGER grant applications.
3. The EIA module is based partly on the Tool for Assessing the Economic Impacts of Spending on Public Transit developed by the Center for Urban Transportation Research.
4. The Financial Analysis module uses a Discounted Cash Flow approach to estimate measures of financial return from the perspective of the project or agency.
5. Up-to-date data for District Five consistent with on-going regional studies.
6. Incorporates multi-modal improvements together in a single run.
7. User Friendly interface in an Excel-based platform.