TGER

Preparing a Benefit-Cost Analysis for a Rural TIGER Grant Application

Presented by the Office of the Assistant Secretary for Transportation Policy

United States Department of Transportation

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- \$527 million multimodal, merit-based competitive grant program
- \$140 million for rural areas
- Up to \$150 million for TIFIA payments
- Last round the average award was \$13.25 million
- Geographic diversity requirement



Why Benefit-Cost Analysis (BCA)?

- President's commitment to data-driven decisionmaking
- Requirement from TIGER I and II
 - No funding for projects for which C > B
- Value of BCA in project selection
 - BCA quality matters more than size of the B/C ratio
 - Focus your analysis on how it demonstrates need for your project

BCAs for Rural Projects

- Rural projects are usually smaller
 - Sophisticated statistical analysis and ridership forecasts may not be cost-effective
- A transparent, reproducible, thoughtful and reasonable BCA is possible for <u>all</u> projects
- No Applicant is exempt from BCA requirement
- General and more detailed BCA webinars are available

EIA vs BCA

- Economic Impact Analysis (EIA) focuses on local benefits – <u>this is not a BCA</u>
 - Ignores costs to other localities
 - Includes transfer payments as "impacts"
 - Payrolls, tax revenues, real estate investments
- BCA focuses on national benefits (including local)
 - Nets out costs to other areas
 - Includes only productivity increases resulting from job creation, increases in property values



Basic Requirements

- Project Summary
- Monetized estimates of benefits & costs
 - Year-by-year stream of benefits and costs
 - Discounted to present value (3% & 7%)
- Replicable methodology
- Demonstrate Independent Utility
- Appendix A of 8/12/11 Federal Register NOFA provides guidance



Rural Ridership

- Most benefits for any project are driven by ridership ("usership") estimates
 - Provide reasonable, multi-year forecast estimates
- Rural projects generally have lower ridership
 - Emphasize commitments by industry to expand operations if transportation facilities are improved
- Sophisticated forecasts may not be possible
 - Do what you can (e.g. sample count of usership at peak/offpeak hours with reasonably projected growth)
 - Emphasize recent increases in traffic (or increases in traffic that can confidently be forecast) that current facilities cannot accommodate.



Benefits

- Livability
- Economic Competitiveness
- Safety
- State of Good Repair
- Sustainability

Which benefits apply to your project?



Costs

- Provide costs from all sources (local, State, other Federal grants, private)
- Direct capital costs: construction, design, land acquisition
- Beyond capital costs
 - O&M, rehabilitation, life-cycle costs
 - External costs: noise, congestion, pollutants
 - Cost to users during project construction: increased delay, vehicle operating costs
- Costs of whole project should be compared with benefits of whole project (no "leveraging")
 - Or, if TIGER funds only a part of a project, you can compare costs and benefits for TIGER-funded portion only
 - But only if that portion has independent utility



BCA Ratings

- BCAs are reviewed and rated by BCA Review team for quality:
 - Very Useful Marginally Useful
 - Useful Not Useful
- ...and for net benefits
 - Benefits > Costs
 - Benefits < Costs</p>
 - Uncertain



Lessons Learned

- <u>ALWAYS</u> document and provide reliable sources for data and calculations
 - If a number does not have a source or reproducible calculation, explain how you got it
- Be **<u>realistic</u>** in assumptions and estimates
- Quantify where you can, Qualify where you can't
 - Every project has difficult-to-measure benefits & costs
 - A good qualitative analysis helps supplement understanding of the project BCA



Lessons Learned (cont'd)

- Emphasize what your area lacks and is taken for granted in more urban areas
 - e.g. sidewalks, shoulders, pavement, basic transit service
- **Prioritize** your projects
 - Focus on one or two projects where benefit/cost arguments are most compelling
- Consider the viewpoint of objective reviewers

– Are estimates plausible and reasonable?

Focus on overall evaluative process, <u>not</u> just B/C ratio



Notable TIGER Rural BCAs

- <u>Staples North/South Corridor with Railroad</u> <u>Overpass Project</u> (Staples, MN)
- <u>East Foster Wells Road Extension Phase 2</u> (Franklin County, WA)
- <u>Woodside Boulevard Complete Streets Initiative</u> (Hailey, ID)
- <u>Southwest Oregon Freight Rail Revitalization</u>
 <u>Project Rail Line Rehabilitation</u> (Coos Bay, OR)



BCA Resources

- August 12, 2011: <u>Federal Register NOFA</u> Appendix A: Additional Information on Benefit-Cost Analysis
- August 17, 2011: <u>TIGER Benefit/Cost Analysis</u> <u>Special Topics Webinar</u>
- 2010 archived webcast for <u>Benefit/Cost Analysis</u> for Transportation Infrastructure: A Practitioner's Workshop
- General inquiries about BCA to <u>TIGERGrants@dot.gov</u> before October 31, 2011



Additional Application Help

TIGER Website: www.dot.gov/tiger/

Special Topics Webinars

August 22nd Project Readiness/NEPA

August 24th Public Private Partnerships & TIFIA

August 30th MARAD Port Outreach

Archived Webinars

July 18th July 27th How to Compete for TIGER

"Talking Freight"



Parting Words...

- BCA is an opportunity to objectively demonstrate the need for your project
 - Highlight benefits that are well-documented and align well with program's selection criteria
- Document, document, document
- Be realistic in your assumptions and estimates
 - Don't forget about true costs of the project
- It is possible to produce a quality BCA no matter what the size of your project

