Mid-Continent Transportation Research Symposium

SHRP2 C03
Interactions between Transportation Capacity, Economic Systems, and Land Use

Presented by
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Objectives

- Determine net economic changes in the area of impact of a transportation improvement
- Develop enough cases to demonstrate impacts by analogy
- Link to collaborative decision-making framework
Research Team

• Economic Development Research Group
• ICF International
• Cambridge Systematics
• Texas Transportation Institute
• Wilbur Smith, Assoc.
Philosophy

- Black boxes are unsatisfying to decision makers and the public
- Lack of transparency hurts credibility of economic impact analysis
- The public has forgotten the importance of transportation facilities to our quality of life
- Reintroducing this concept is part of collaborative decision making
Approach

• 60 case studies—analysis by analogy
• Typology based on type of facility, degree of urban/rural setting, economic climate of the area
• 40 more case studies next year, to include
  – Intermodal investments
  – Transit-oriented developments
• Web-based analysis tool
• Meta analysis report—patterns, rules of thumb, guidelines
Project Outline
19 Tasks in Sequence of 5 Key Steps

STEP 1 Preliminary Research
1 Background  2 Working Paper  3 Liaison SHRP2

STEP 2 Data Collection Design
4 Settings  5 Projects  6 Groups  7 Structure  8 Cases

STEP 3 Product Design
9 Data Design  10 Meta Analysis Design  11 DB System Structure  12 Int. Report

STEP 4 Case & Meta Analysis Implementation
13 Data Collection  14 Critical Evaluation  15 Meta Analysis  16 Working Papers

STEP 5 Database & Tool Implementation
17 Database & User System  18 Handbook  19 Final Report
SHRP Capacity Project Interactions

C01 – CDMF

Key Decision Points

Decision Processes

Institutional Models

Methods & Tools

C03 – Interactions

Non-Economic PMs

Economic PMs

C02 – Performance Measures
Interview Topics

- Projects
- Impact Measures
- Tools
- Stakeholders
- Settings
- Problems
- Interests
- Decision Process
- Methods
- Influence
- Uses &
## Potential Cases

<table>
<thead>
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<th>Type</th>
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<tbody>
<tr>
<td>Beltway</td>
<td>6</td>
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<tr>
<td>Bypass</td>
<td>19</td>
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<tr>
<td>Limited Access Road (interstates)</td>
<td>46</td>
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<tr>
<td>Interchange</td>
<td>3</td>
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<tr>
<td>Connector</td>
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<tr>
<td>Widening</td>
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<td>Bridge</td>
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<td>Special Purpose Lanes</td>
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<td>Access Road</td>
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<td>Bundled (system level)</td>
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<tr>
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<td><strong>Total</strong></td>
<td><strong>128</strong></td>
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Potential Cases by BEA Region
Information to be Collected

- Impact measures
- Project data
- Location classification
Screen Shots of Web Tool

TRB.ORG