B. Overview of the Decision Support Tool

Overview of the Atlanta BeltLine Decision Support Tool

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What is a Decision Support Tool (DST)?

- Process that provides a consistent and reproducible basis for making decisions
- Provides a detailed picture of impacts related to the implementation of a plan or policy
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What does a DST do?
- Organizes relevant info
- Spatially resolves actions of the plan
- Predicts impacts
- Generates performance measures

How does a DST work?
Coordinates into one tool:
- Information tool
- Monitoring tool
- Modeling tool
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What are the inputs

- Benchmark data
  - Qualitative and Quantitative
- Assessments
  - Performance Measures
- Stakeholder expectations
  - Relevant information from surveys, charettes, and public meetings

What are the benefits of using a DST

- Investigate potential benefits of alternative scenarios
- Comparison between scenarios and with the baseline data
- Identify trade-offs
- Do projects/policies meet the stated goals
What is the purpose of the Atlanta BeltLine DST?

The primary objective is to measure the impacts of the 25 year long Atlanta BeltLine project, based on vision and goals of the BeltLine, and to ensure the effectiveness and equity of its implementation.

Process and the DST

1. Vision & goals of BeltLine
   - Approve scope of BeltLine process
   - Approve vision & goals

2. Setting DST strategy
   - Approve problem statements & opportunities for the BeltLine
   - Approve evaluation criteria & methodologies
   - Approve strategies
   - Approve financial assumptions

3. Analysis of plan scenarios or projects
   - Consensus on scope & impact analysis & review (short-term & long-term)
   - Adopt preferred scenario
   - Evaluate conformity to region’s vision & goals
   - Approve evaluation criteria & methodologies for prioritization

4. Implementation
   - Adopt plan for implementation
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(1) Vision and goals of BeltLine

Vision and goals of the Atlanta BeltLine will be key criteria in creating decision tool variables to measure the impacts of plan scenarios and making decisions in each process.

(2) Setting the DST Strategy

- Identify specific problems and needs for the BeltLine areas and each project.
- Determine possible variables and methods of DST.
- Set strategies to address selected problems
- Estimate available revenues and approximate costs for strategies.
### B. Overview of the Decision Support Tool

#### (3) Analysis of Plan Scenarios

<table>
<thead>
<tr>
<th>Approve scenarios</th>
<th>Residential Goals</th>
<th>Alternatives</th>
<th>Region's vision &amp; goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation criteria &amp; methodologies</td>
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<tr>
<td>Approve preferred scenario</td>
<td>Transit Goals</td>
<td>Alternatives</td>
<td>Region's vision &amp; goals</td>
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<tr>
<td>Evaluate conformity to region's vision &amp; goals</td>
<td>Trail Goals</td>
<td>Alternatives</td>
<td>Region's vision &amp; goals</td>
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<tr>
<td>Approve plan scenarios (two levels).</td>
<td>Greenspace Goals</td>
<td>Alternatives</td>
<td>Region's vision &amp; goals</td>
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<tr>
<td>Determine preferred plan scenarios.</td>
<td>Evaluate conformity to region's vision &amp; goals</td>
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### Short Term Analysis

<table>
<thead>
<tr>
<th>Approve scenarios</th>
<th>Residential Goals</th>
<th>Alternatives</th>
<th>How soon can proposed plans generate benefits in a community?</th>
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</thead>
<tbody>
<tr>
<td>Evaluation criteria &amp; methodologies</td>
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<tr>
<td>Approve preferred scenario</td>
<td>Transit Goals</td>
<td>Alternatives</td>
<td>How well are they harmony with on-going project?</td>
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<tr>
<td>Evaluate conformity to region's vision &amp; goals</td>
<td>Trail Goals</td>
<td>Alternatives</td>
<td>How much are they consistent with community's vision and goals?</td>
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Methods: DST metrics
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**Long Term Analysis**

- Such **large scaled** and **long term** developments will bring substantial impacts on physical, economic, environmental, and socio-economic areas.

**Methods:**
- Economic efficiency analysis
- Population impact analysis
- Transportation impact analysis
- Health impact analysis
- Environmental impact analysis

**(4) Implementation**

- Conduct **Multi Criteria Decision Analysis** to determine **priority** of plan scenarios
- Community engagement framework

**Methods:** Visualization will be useful to facilitate communications
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