Coordinating Improvements

Bus Stop Inventory and Maintenance Application
Overview

- Introductions
- Background of Project
- New Approach
Project Team

- Rob Gregg, CUTR Deputy Director Transit Team
- Bill Morris, CUTR Transit Team
- Justin Begley, CUTR Transit Team
- Martin Catala, CUTR GIS Team
- Martin Akerman, CUTR GIS Team

- Polk TPO
- Florida DoT District 1
- City of Lakeland
Background

- Bus Stop Inventory Data Collection Effort
  - GPS and Photo of each stop
  - 1500 points of data with 25 fields of data
- Multiple transit agencies
  - Coordination of data difficult
History

- Collected rich resource of data 2005

<table>
<thead>
<tr>
<th>Back to Search</th>
<th>Status/Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop ID:</td>
<td>Country:</td>
</tr>
<tr>
<td>Old Stop ID:</td>
<td>Municipality:</td>
</tr>
<tr>
<td>Verified?:</td>
<td>Location Other:</td>
</tr>
<tr>
<td>System:</td>
<td>Cross Streets:</td>
</tr>
<tr>
<td>Status:</td>
<td>Location:</td>
</tr>
<tr>
<td>Speed Limit:</td>
<td>Position:</td>
</tr>
</tbody>
</table>

- Lake Alfred

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Industrial</th>
<th>Medical</th>
<th>Senior Center</th>
<th>Other Land Use</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

| Scoring     | Premium: No (+0 Points) | School: No (+0 Points) | Intermodal: No (+0 Points) | Multi-purpose Trail: No (+0 Points) | Traffic Potential: High (+10 Points) | Score: 10 | Sprinkle Rank: 4 | TPO Rank: 777 |


Stop Inventory tool
  - Query
  - Edit
  - Dormant application
  - Insufficient application
  - How useful is it?
Multiple Iterations of Data
What went wrong?

- Needed broad based approach
  - More stakeholders
- One dimensional application
  - Editing and updating but then what?
New Approach

- Include more data stakeholders
- Understand data relevancy
  - Why is this data important?
  - What can we do with this data?
- Make Better Decisions?
Better Decision Making

- Prioritize Improvements
  - Based on Demand
  - ADA Policy Decisions
  - Grant Requirements
    - State Dollars to State Roads
    - Municipal Sidewalk improvements
Stop Improvement Program

- Improvements Based on Stops with highest needs
  - Stops with high needs are:
    - Stops with high ridership (Top 10%)
    - With little or no passenger amenities
    - Stops with Sidewalks but NO landing pad

- Minimum of information
- Scalable with more data
### Scoring

#### DATA FIELDS:
- Top 15% (0)
- Sidewalk System (20)
- 5’x8’ Landing (15)
- No Stop Hazard (10)
- No Improvement Request (15)
- 16% - 50% (10)
- No Curbcuts (-5)
- 5’ Min Sidewalk (5)
- Shelter (2)
- 51% - 75% (15)
- No Connector (-10)
- Detectable Warning (5)
- Bench (2)
- Bottom 25% (20)
- Trash (2)
- Lighting (2)
- Route Info (2)

#### EVALUATION CRITERIA:
- Boardings
- Connectivity
- ADA Accessibility
- Safety
- Improvement Request

#### VALUE:
- 20%
- 20%
- 25%
- 20%
- 15%

#### TOTAL SCORE
- 100% (65% Stop Area Attributes / 35% Demand)
How will rankings be presented?

- Lowest Stop Score (0 pts) = Highest Ranked for Improvement
  - A stop with a hazard, improvement request, lacking infrastructure and within top 15% of all boardings
- Highest Stop Score (100 pts) = Lowest Ranked for Improvement
  - A safe stop, with infrastructure, without an improvement request and little ridership
Query Interface (Preview)

- Filter and Query of data to access Ranked Stops
## Capital Improvement Interface – Overall Evaluation

<table>
<thead>
<tr>
<th>Overall Score</th>
<th>Location of Stop</th>
<th>Additional Location Information</th>
<th>Placement Routes Served</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Martin Luther King Jr. Ave. &amp; W. 7th St.</td>
<td>SE corner</td>
<td>50,56</td>
<td>LAMTD</td>
</tr>
<tr>
<td>2</td>
<td>N. Lincoln Ave. &amp; W. 10th St.</td>
<td>SE corner</td>
<td>50,56</td>
<td>LAMTD</td>
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<tr>
<td>2</td>
<td>N. Webster Ave. &amp; W. 10th St.</td>
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<tr>
<td>2</td>
<td>Martin Luther King Jr. Ave. &amp; W. 10th St.</td>
<td>NW corner (Coney Funeral Home)</td>
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<tr>
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<td>LAMTD</td>
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<tr>
<td>2</td>
<td>Martin Luther King Jr. Ave. &amp; Emma St.</td>
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<td>4</td>
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<td>42,56</td>
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<td>SE corner</td>
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<td>4</td>
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<td>SE corner</td>
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<tr>
<td>4</td>
<td>Martin Luther King Jr. Ave. &amp; Myrtle St.</td>
<td>NW corner</td>
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<tr>
<td>6</td>
<td>Martin Luther King Jr. Ave. &amp; Silver St.</td>
<td>NW corner (In front of Coleman Bush Building)</td>
<td>50,56</td>
<td>LAMTD</td>
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<tr>
<td>8</td>
<td>200 North Florida Ave.</td>
<td>Lakeland Downtown Terminal</td>
<td>10,11,20,21,22L,30,31,40,41,42,50,51,52,53,56,57</td>
<td>LAMTD</td>
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<tr>
<td>12</td>
<td>Mall Hill Dr.</td>
<td>Entrance to Victory Church on eastside of St.</td>
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<td>Martin Luther King Jr. Ave. &amp; W. 8th St.</td>
<td>NW corner (500 block)</td>
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<td>12</td>
<td>Martin Luther King Jr. Ave. &amp; W. 6th St.</td>
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<td>Stop Amenities</td>
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<tr>
<td>Sign</td>
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<td>Bench</td>
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<td>Scoring/Rank</td>
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<tr>
<td>Overall Score</td>
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<td>ADA Compliance Score</td>
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<tr>
<td>Safety Score</td>
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<td>Demand Score</td>
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<tr>
<td>Improvement Score</td>
<td>0</td>
<td>Connectivity Score</td>
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Interface (preview)
Future Steps

- Evaluate Scoring
  - How realistic is the scoring values
- Perform User Interface Tests
- Develop Export and Import functions
- Develop user manual
- Launch site
Questions

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