A Whole New Survey: Bus Stop Inventory & ADA Compliance

Esri User Conference 2018
Valley Metro Background

- Light rail
- Local and Express buses
- Circulators
- Paratransit
- Vanpool
- Commuter programs
- 513 square miles
Problem

• No inventory of bus stop ADA conditions
• Unable to prioritize funding for ADA compliant bus stops
Problem

3,400 bus stops to analyze
Problem

ADA?
Solution

- ArcCollector
- In the field data collection
- In-House Data Analysis
- Extra time for ADA Analysis
- We could do better....
Survey123 Mobile App

• Esri product for field data collection
• App customized in-house
• Collects bus stop ADA conditions
• Shows compliance in real-time
Walkthrough
Walkthrough
Walkthrough

Bus Stop Input App

- Is there a shelter?
  - Yes
  - No

- Clear floor ground space
  - Yes
  - No

- Clear Floor Dimensions
  - Yes
  - No

- Clear Floor Accessible Route
  - Yes
  - No

- Clear Floor Side
  - Yes
  - No

- Intersection Accessible Route
  - Yes
  - No

- Surface
  - Yes
  - No

- Stop Length
Walkthrough

Does not meet ADA requirements

Clear floor ground space
Clear floor dimensions
Clear floor accessible route

StopID: 659

Location:

Bus Stop Amenities
Number of benches
### Walkthrough

#### Bus Stop Input App

<table>
<thead>
<tr>
<th>Question</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is there a shelter?</td>
<td>Yes</td>
</tr>
<tr>
<td>Clear floor ground space</td>
<td>Yes</td>
</tr>
<tr>
<td>Clear Floor Dimensions</td>
<td>Yes</td>
</tr>
<tr>
<td>Clear Floor Accessible Route</td>
<td>Yes</td>
</tr>
<tr>
<td>Clear Floor Side</td>
<td>Yes</td>
</tr>
<tr>
<td>Intersection Accessible Route</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface</td>
<td></td>
</tr>
</tbody>
</table>
Walkthrough

Bus Stop Input App

Stop Length
60

Hazard / Obstruction
None

Is there a bus stop sign?
☑ Yes ☐ No

Where is the bus stop sign?
Shelter

Is there a NextRide sign?
☑ Yes ☐ No

What is the NextRide number?
12345

Meets ADA requirements

StopID: 3965
Walkthrough
Walkthrough

Completed Survey
This survey has already been completed.
Do you want to continue and edit this survey?

Yes  No
Outcomes

• Comprehensive database of every bus stop
• Detailed ADA compliance

4-5 months to complete

• Regional funding strategy
• Partnership with MPO
• $2.5 million to improve stop accessibility
• Four rounds completed

ATAN
Achieving Transportation Accessibility Now