WALKING AND BIKING CRASHES: WHAT AUSTIN-AREA DATA SHOWS
PEDESTRIAN CRASH FAULT

- Pedestrian at Fault
- Motorist at Fault
- Both at Fault
- Neither at Fault
PEDESTRIAN CRASHES BY SPEED LIMIT (MPH)
BICYCLE CRASHES BY SPEED LIMIT (MPH)
PEDESTRIAN CRASHES BY ROADWAY TYPE

- OTHER ROADS
- TOLLWAY
- CITY STREET
- COUNTY ROAD
- FARM TO MARKET
- US & STATE HIGHWAYS
- INTERSTATE
CRASH LOCATION DESCRIPTION
PEDESTRIAN CRASHES

- Non-Intersection
- Non-roadway
- Intersection or Intersection-Related
PEDESTRIAN CRASH TYPE

- Unusual Circumstances: 0.8%
- Backing Vehicle: 1.4%
- Working or Playing in Roadway: 3.0%
- Bus-Related: 15.5%
- Unique Midblock: 2.1%
- Walking Along Roadway: 0.8%
- Crossing Driveway or Alley: 1.0%
- Waiting to Cross: 1.3%
- Pedestrian in Roadway—Circumstances Unknown: 0.0%
- Multiple Threat/Trapped: 0.4%
- Dash/Dart-Out: 17.5%
- Crossing Roadway - Vehicle Not Turning: 1.7%
- Crossing Roadway—Vehicle Turning: 6.1%
- Off Roadway: 0.0%
- Crossing Expressway: 1.7%
- Other/Unknown-Insufficient Details: 0.0%
BICYCLE CRASH TYPE

- Motorist Left Turn/Merge
- Motorist Overtaking Bicyclist
- Motorist Failed to Yield - Sign-Controlled Intersection
- Bicyclist Failed to Yield - Sign-Controlled Intersection
- Motorist Failed to Yield - Signalized Intersection
- Bicyclist Failed to Yield - Signalized Intersection
- Crossing Paths - Other Circumstances
- Loss of Control/Turning Error
- Motorist Right Turn/Merge
- Parking/Bus-Related
- Bicyclist Left Turn/Merge
- Bicyclist Right Turn/Merge
- Motorist Failed to Yield - Midblock
- Motorist Failed to Yield - Midblock
- Backing Vehicle
- Parallel Paths - Other Circumstances
- Bicyclist Failed to Yield - Midblock
- Other/Unusual Circumstances
- Nonroadway
- Other/Unknown - Insufficient Details
RECENT TTI RESEARCH EFFORTS

- Crosswalk markings
- Rectangular rapid flashing beacons (RRFB)
- Pedestrian hybrid beacons (PHB)
CROSSWALK MARKING PATTERNS

Bar Pairs | Continental | Transverse

Source: Kay Fitzpatrick, TTI
CROSSWALK DETECTION DISTANCE
KEY FINDING = LIGHT / MARKING

Source: Kay Fitzpatrick, TTI
RECTANGULAR RAPID FLASHING BEACON

Source: Kay Fitzpatrick, TTI
<table>
<thead>
<tr>
<th>Time</th>
<th>Range</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baseline</td>
<td>0 to 26%</td>
<td>4%</td>
</tr>
<tr>
<td>One week</td>
<td>64 to 97%</td>
<td>79%</td>
</tr>
<tr>
<td>One month</td>
<td>62 to 96%</td>
<td>84%</td>
</tr>
<tr>
<td>Two years</td>
<td>72 to 96%</td>
<td>84%</td>
</tr>
</tbody>
</table>

Source: Kay Fitzpatrick, TTI
Crash Reduction
- 29% reduction in total crashes
- 69% reduction in pedestrian crashes

Driver Yielding in Austin:
- 89% driver yielding for 45 ft crossing distance
- 92% driver yielding for 68 ft crossing distance
QUESTIONS

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