• Concerns about pedestrian/bicyclist safety
• TxDOT CRIS
  - 3 files: crash, person, unit
  - Lacks details for ped/bike crashes
• Crash reports acquired
• Entered into PBCAT
• 2007-2014 database
  - K=fatal, A=incapacitating, B=non-incapacitating
  - Reported crashes
AUSTIN DISTRICT
REPORTED KAB PEDESTRIAN AND BICYCLE CRASHES

Pedestrian KAB Crashes
Bicycle KAB Crashes
Total Pedestrian and Bicycle KAB Crashes
CRIS doesn’t have details

- Circumstance of the crash – like walking along or crossing roadway
- Pedestrian action at the time of the crash – like dart out, multiple threat
- Presence of facilities – like sidewalks, shoulders
- Position description – where crash occurred like in the crosswalk
- Land use surrounding crash

Recommended in FHWA documents
PBCAT DATA ENTRY
GOOGLE EARTH
What was the initial position of the bicyclist?

- On a roadway, in a shared travel lane
- On a roadway, in a bicycle lane or on a paved shoulder
- On a sidewalk, crosswalk, or driveway crossing
- On a separate bicycle/multi-use path
- On a driveway or alley
- Other non-roadway areas (parking lot, open areas, etc.)
- Other (e.g., unpaved shoulder, worn path, etc.)
- Unknown
PEDESTRIAN CRASH LOCATION

Where did the crash occur?

The crash occurred outside the intersection crosswalk area but within 15 m (50 ft) of the intersection.

Intersection
- Defined intersection area

Intersection-Related
- Intersection-related area

Non-Intersection Location

Non-Roadway Location

Unknown/Insufficient Information
BICYCLE CRASH LOCATION

Where did the crash occur?

The crash occurred off the street network (e.g., parking lots, driveways, alleys, trails, and other open areas). Note: crashes occurring on paved shoulders, bike lanes, sidewalks, or driveway crossings are considered to be "roadway" crashes and should not be placed in the non-roadway classification.

Intersection

intersection area, inclusive of crosswalks

Non-Intersection Location

Non-Roadway Location

Unknown/Insufficient Information

Close
EXAMPLES OF PEDESTRIAN CRASH TYPES
EXAMPLES OF BICYCLE CRASH TYPES
Which of the following best describes the circumstances of the crash?

The crash does not conform to any of the situations described.

- Multiple Threat
- Turn/Merge
- Trapped
- Dash
- Dart-Out
- None of The Above
CIRCUMSTANCES OF BICYCLE CRASH

Which of the following best describes the circumstances of the crash?

The crash involved a bicyclist and motorist on initial parallel paths but does not conform to any of the circumstances described or are unknown.

Motorist Turned or Merged

Bicyclist Turned or Merged

Motorist Overtaking

Bicyclist Overtaking

Head-On

Loss of Control

Other / Unknown Circumstances
Pedestrian Crashes
Austin, Texas
2010-2014
PEDESTRIAN CRASH FAULT
CRASH LOCATION DESCRIPTION
PEDESTRIAN CRASHES

Non-Intersection  Non-roadway  Intersection or Intersection-Related

<table>
<thead>
<tr>
<th>Year</th>
<th>Non-Intersection</th>
<th>Non-roadway</th>
<th>Intersection or Intersection-Related</th>
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<tr>
<td>2014</td>
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<td>10%</td>
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</tr>
</tbody>
</table>
CRASH CIRCUMSTANCES
BICYCLE CRASHES

Motorist Failed to Yield -
Sign-Controlled Intersection
Motorist Overtaking
Bicyclist
Motorist Right
Turn/Merge
Motorist Failed to Yield -
Midblock
Motorist Left
Turn/Merge
Motorist Failed to Yield -
Signalized Intersection
BICYCLE CRASHES BY BICYCLIST INITIAL POSITION

- Bike Lane / Paved Shoulder
- Driveway / Alley
- Multi-use Path
- Sidewalk / Crosswalk / Driveway Crossing
- Travel Lane
- Non-roadway
LESSONS LEARNED

- **PBCAT is good:**
  - Crash typing
  - Crash circumstances
  - Existing conditions
  - Allows customization of the categories

- **Need to consider:**
  - Subjectivity involved
  - Add what you don’t get from your current database (i.e. CRIS) to reduce data entry time
NEXT STEPS

- More QA/QC
- Use the 2007-2014 data for the crash prediction tool
- Make data results available for area partners
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