



Ann Arbor's Safe Systems for Auto, Pedestrian and Bike Users



Presentation to Ann Arbor City Council
Work Session
May 9, 2016

Pedestrian Safety and Access Task Force

SEVEN BEHAVIORS IDENTIFIED BY THE PUBLIC

1. *Motorists passing other vehicles that are stopped for pedestrians in a crosswalk.*
2. *Motorists failing to stop for pedestrians at midblock crosswalks.*
3. *Motorists failing to stop for pedestrians at school crosswalks.*
4. *Motorists failing to yield to pedestrians when turning at intersections.*
5. *Inconsistent signing, marking and signaling of crosswalks.*

6. *Snow and ice accumulation on sidewalks and crosswalks.*

7. *Motorists speeding in residential neighborhoods.*

PEDESTRIAN SAFETY AND ACCESS TASK FORCE RECOMMENDATIONS TO CITY COUNCIL

SEPTEMBER 2015



Photo credit: The Greenway Collaborative, Inc.

Presentation Overview

- Crosswalks
- Sidewalk Gaps
- Traffic Calming
- Streetlights
- Enforcement
- Bike Facilities
- Safety
- Evaluation
- Questions



Crosswalk Treatments

Bus Stop Locations



Refuge Islands

Countdown Heads



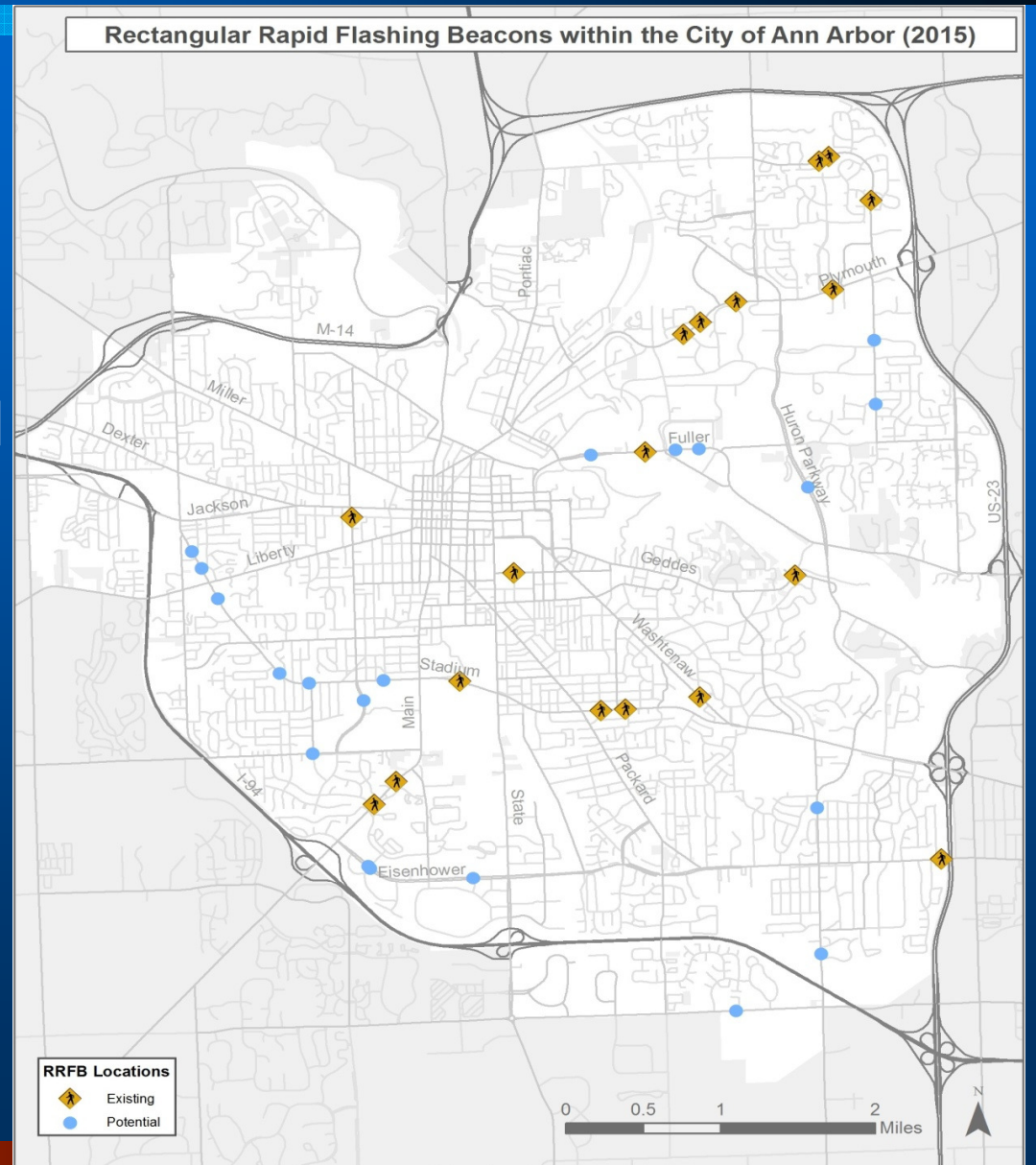
Flashing Beacons



Pedestrian Hybrid Beacon

Active Crosswalk Considerations

- **Enhanced Crosswalks**
 - 18 RRFBs
 - 1 Pedestrian Hybrid Beacon (HAWK)
- **19 Potential Locations**



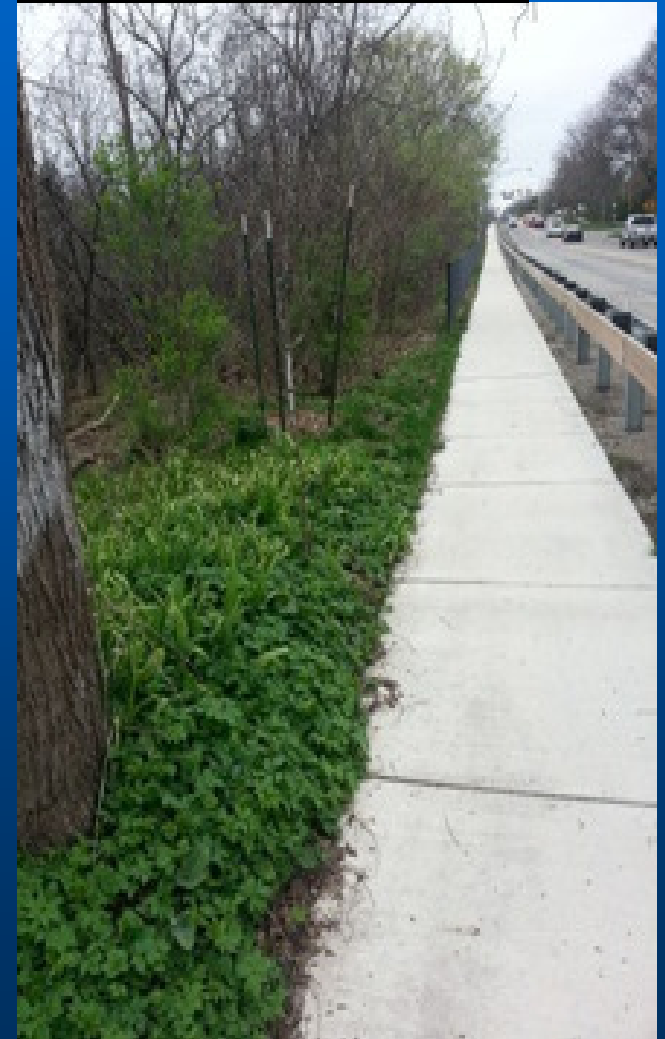
Active Crosswalk Implementation

- **Priority Setting**
- **Funding**
- **Crosswalk Design**
 - **Inventory of Existing**
 - **Identification of Inconsistencies**
 - **Establishment of Proposed Guidelines**
 - **Public Participation**
- **Implementation**

Sidewalk Gaps

- **Non-motorized Transportation Plan (NTP)**
 - 70 segments listed
 - Approximately 25 miles of gaps
- **2015 Citywide Inventory**
 - 154 miles of gaps
- **Gap Filling**
 - 7.3 miles since NTP Plan adoption

Scio Church Road

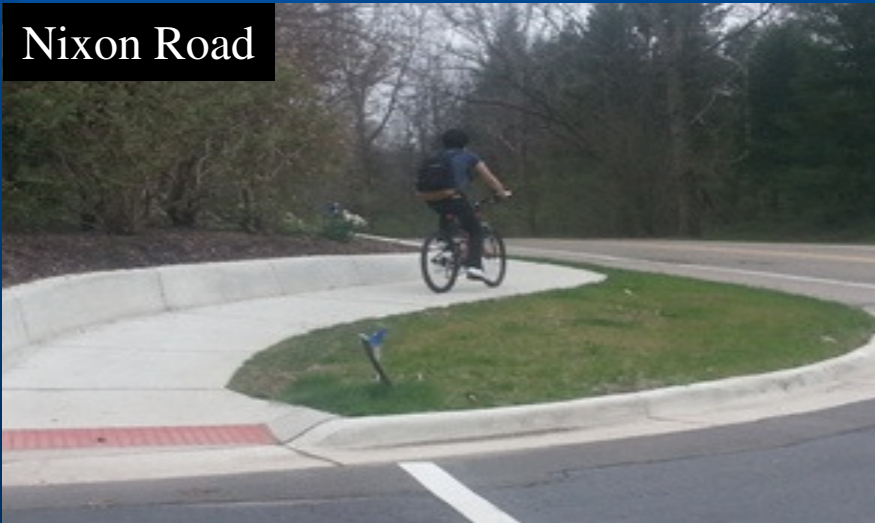


Sidewalk Gaps

S. State Street at Ann Arbor RR



Nixon Road



Packard at Platt



Sidewalk Gaps

- **Strategy Update**
 - Completed Inventory
 - Developed Priority System
 - Identified Top 20 Miles
 - Next Step – Field View
 - Identify Potential Funding Sources
 - Program Improvements

Nixon Road



Scio Church Road



Sidewalk Gaps

- **Prioritization Criteria**

- **Pedestrian Attractors**

- Schools, Libraries
 - Transit Stops
 - Affordable Housing
 - Commercial Areas, etc.

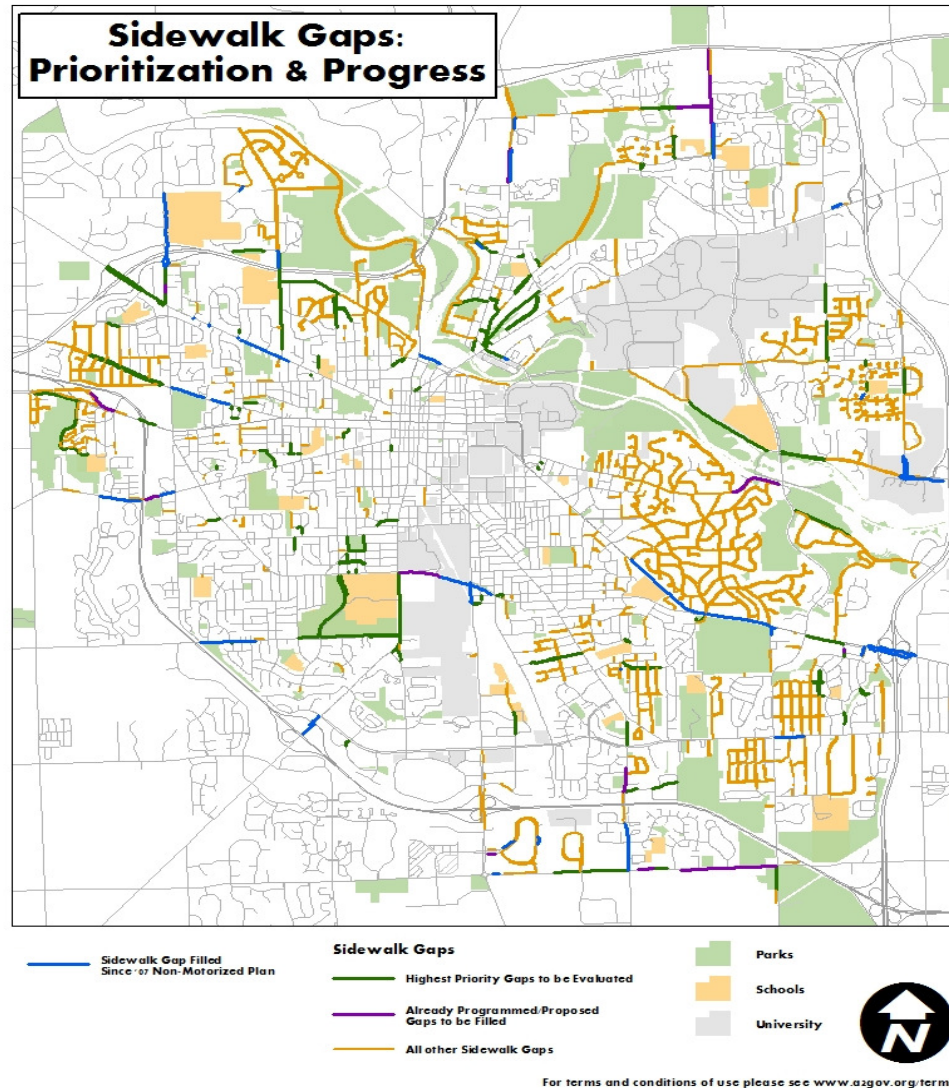
- **Safety**

- Classification of Roadway
 - Crash History

- **Citizen Request**

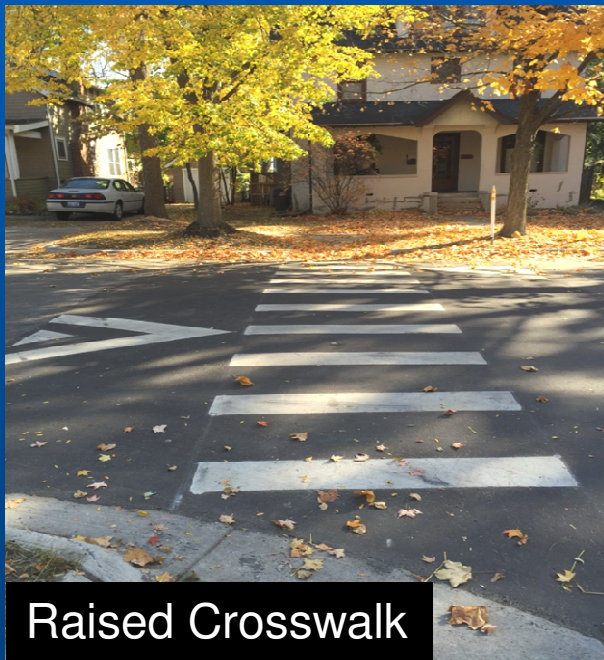
- **Identified in Non-motorized Transportation Plan**

Sidewalk Gaps

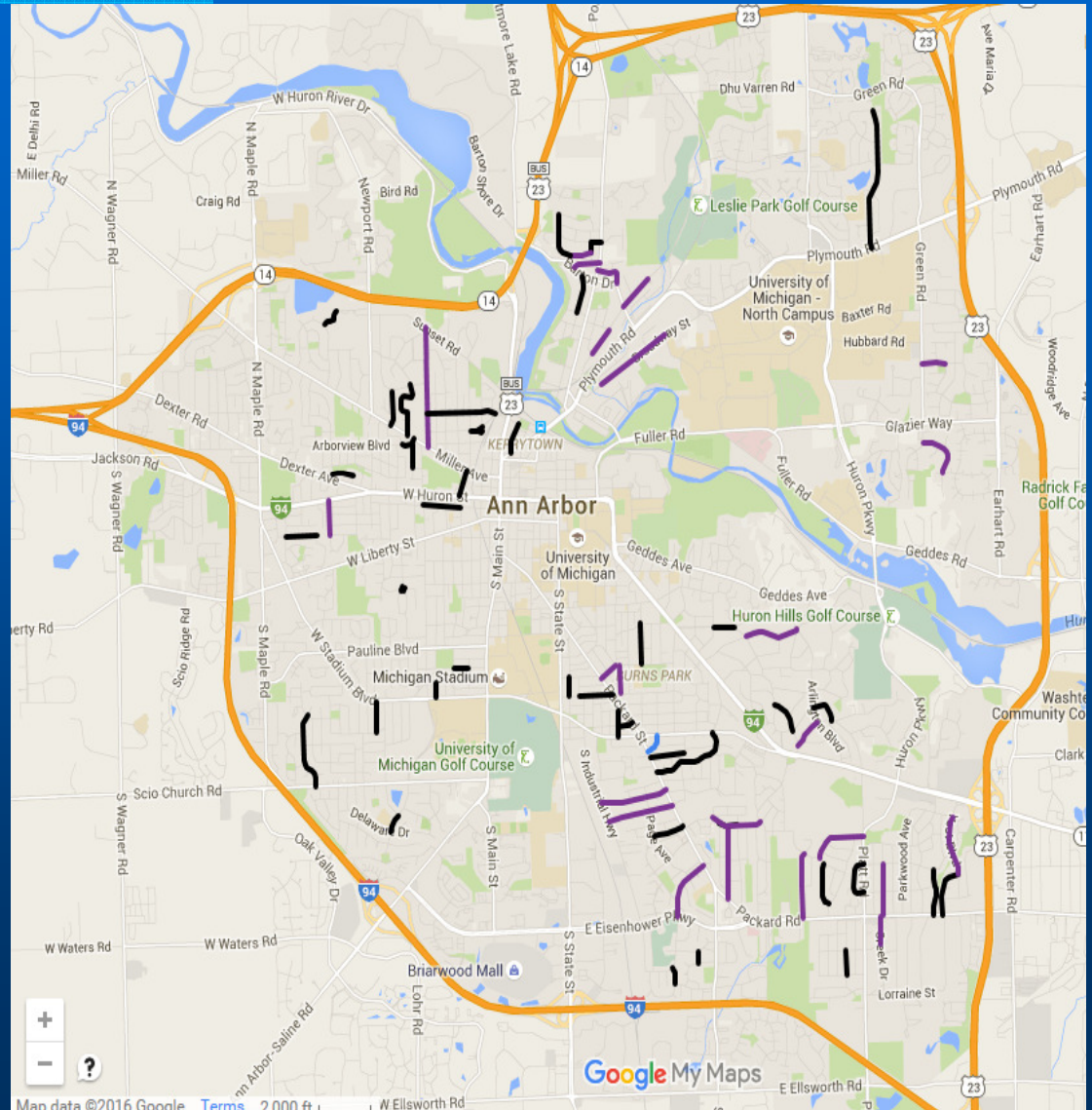


Traffic Calming

- Act 51 Local Streets
- Council Approved Process
- Citizen Petition Initiated



www.a2gov.org/trafficcalming



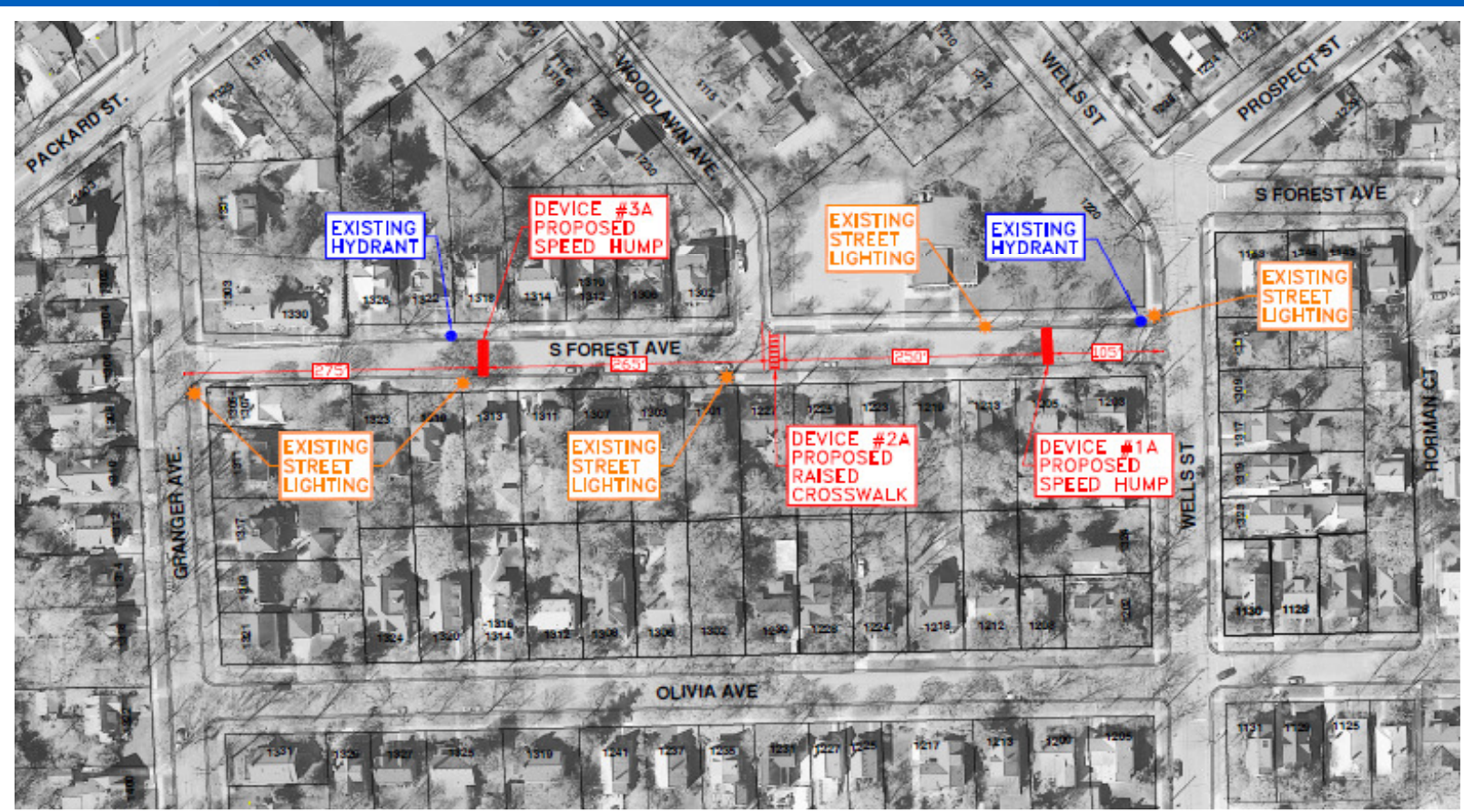
Traffic Calming

- 24 Corridors
- One Request Pending
- Action Steps
 - Receive petition
 - Study
 - Neighborhood meetings
 - Review findings
 - Decision/Implementation



Traffic Calming

Example: S. Forest (Wells to Granger)



Designing for Lower Speeds

- Higher Order Roads
- a.k.a. “Majors”
- Toolbox
 - 4-to-3 Conversions
 - Lane Narrowing
 - Crosswalks
 - Bump Outs
 - Others

Platt Road



Streetlight Request Prioritization

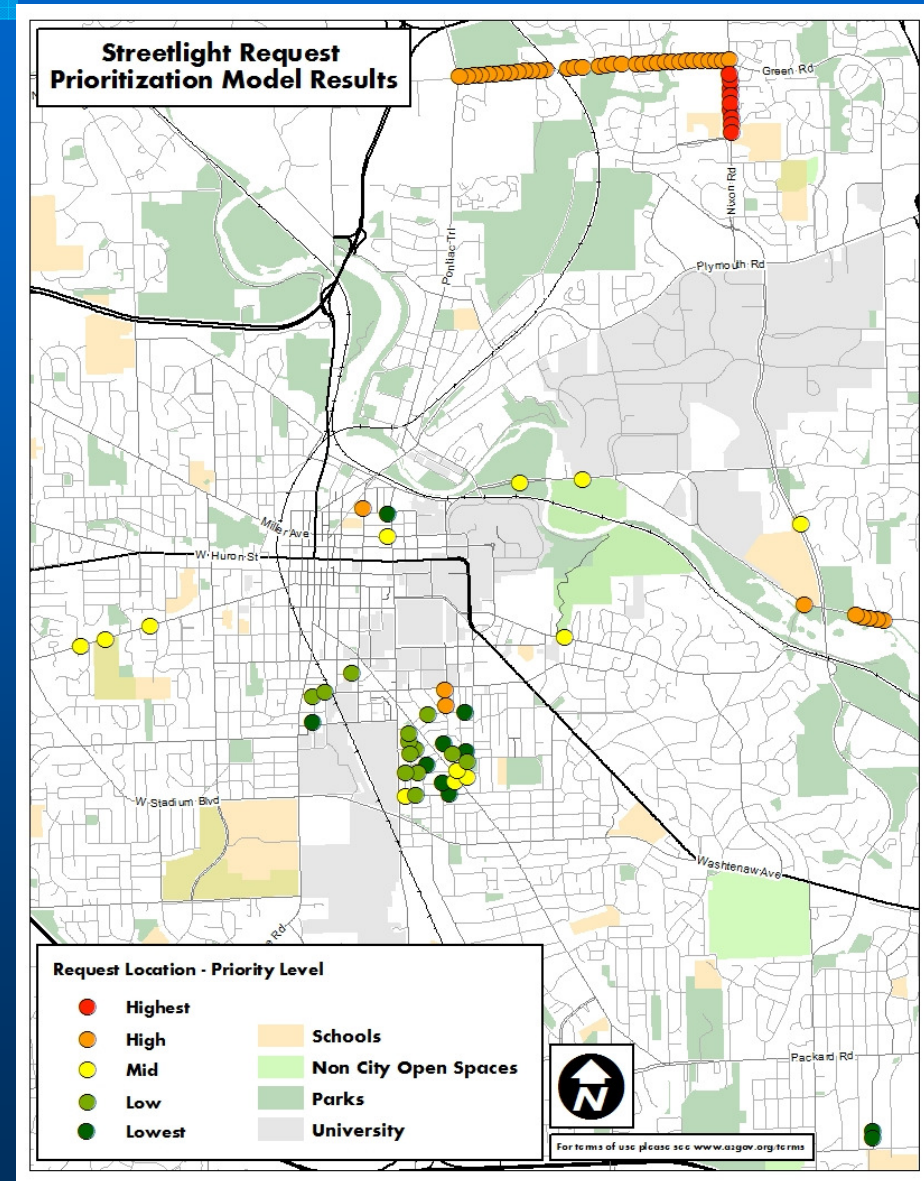
- How to Prioritize New Streetlight Requests
- Prioritization Model
 - Develop Criteria, Weights, Scoring



- | | |
|------------------------------------|---------------------------|
| • History of Crash Incidents | • Crash Potential |
| • Proximity to Transit Stops | • Current Lighting Levels |
| • City vs. DTE System Addition | • Street Classification |
| • Proximity to Activity Generators | • Public Request |

Streetlight Request Prioritization

- Model results to be used to prioritize locations for utilizing Council allocated funds



Enforcement

2010 Code amendments:

- bicyclists' rights and duties
- bike lanes and bike paths
- pedestrian rights and duties



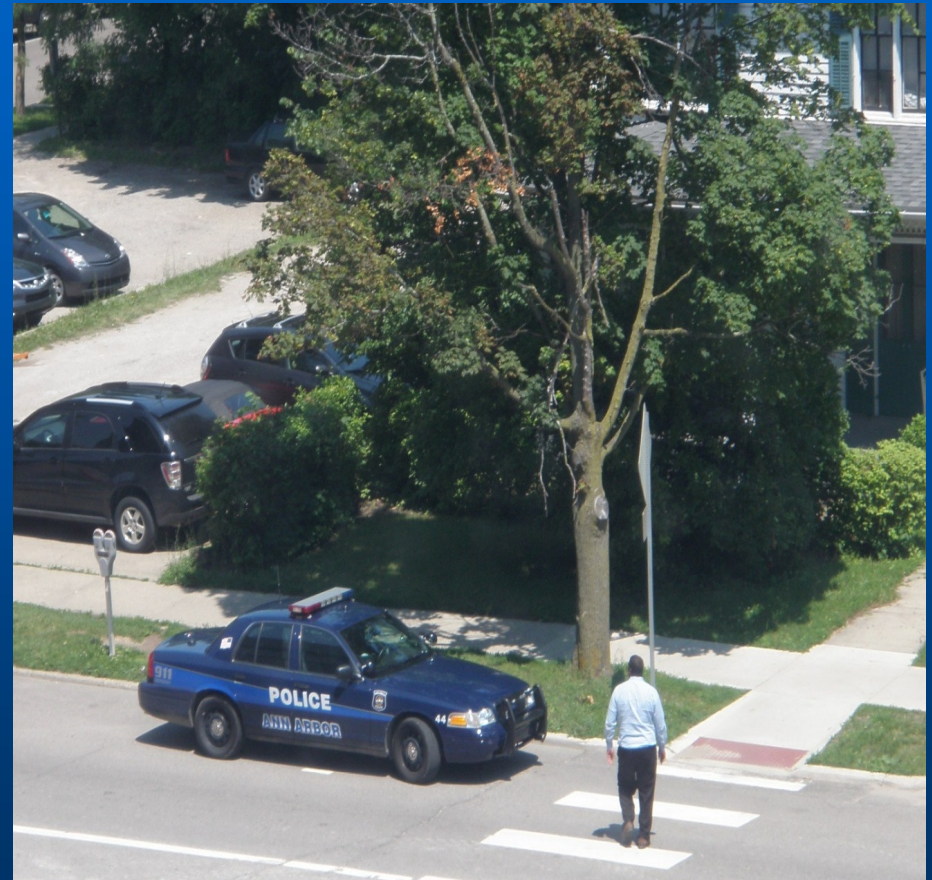
Enforcement: Targeted

- **January 2013**

- 14 Locations
- 11 Stops
- 9 Citations Issued
- 4 Warnings Issued

- **May 2013**

- 14 Identified Locations
 - 9 enforcement locations
- 15 Stops
- 12 Citations Issued
- 3 Warnings Issued



Enforcement: 26 Week Program

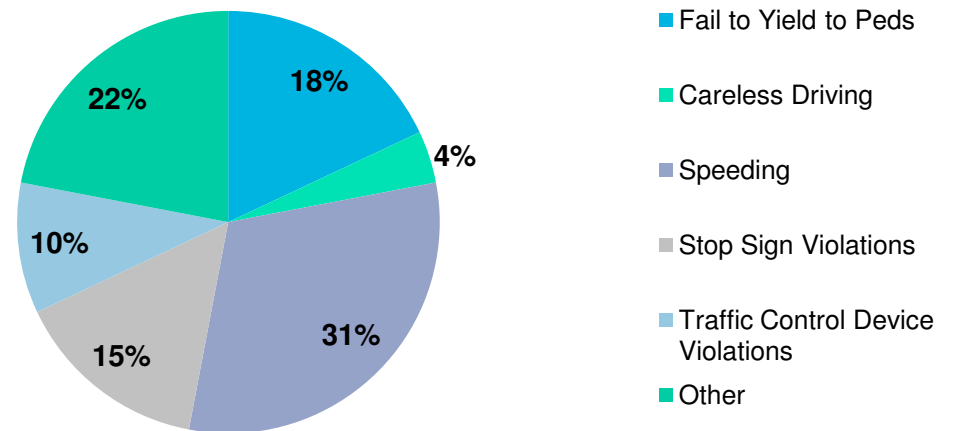
- January to July 2014
 - 36 Locations
 - 489 Stops
 - 133 Citations Issued
 - 356 Warnings Issued
 - 514 Hours Dedicated Enforcement Time
- All Enforcement Locations
 - 178 Locations
 - 1383 Stops
 - 440 Hazardous Citations Issued
 - 40 Non-Hazardous Citations Issued
 - 903 Warnings Issued
 - 1364 Hours Dedicated Enforcement Time

Ann Arbor Police Department		Ticket No. w1624	
The People of: Ann Arbor, Michigan		<input type="checkbox"/> Driver	<input type="checkbox"/> Bicyclist <input type="checkbox"/> Pedestrian
THE UNDERSIGNED	Month	Day	Year
SAYS THAT ON:	At approximately		<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.
State	Driver License #		
Name (First, Middle, Last)			
Vehicle Plate No.	Year	State	Vehicle description (Year, Make, Color)
The Person Named Above, in violation of <input type="checkbox"/> Local Ordinance			
Upon			
At or Near			
Within <input type="checkbox"/> City of Ann Arbor		County of Washtenaw	
Did the Following			
X	Violation	Amount	SOS Points
	Disregard Red Light/Stop Sign	\$130	3
	Speed 1- 10 over Limit	\$130	2
	Speed 11 – 15 over Limit	\$140	3
	Speed 16+ over Limit	\$160+	4
	No Turn of Red	\$130	2
	Failed to Yield to Pedestrian	\$130	2
	Impede Traffic Flow - Pedestrian	\$130	0
	Prohibited Turn	\$130	2
Other*		\$\$\$\$	1-4
<p>Walk, bike or drive, we share a responsibility to keep each other safe.</p> <p>You are being issued a written warning today. No further action is required from you other than to do your part in keeping The City of Ann Arbor a safe place to walk, bike and drive.</p> <p>walk.BIKE.DRIVE. OUR SAFETY DEPENDS ON YOU</p>			
Complainant's Signature		Month	Day
Officer's Name (printed)		Officer's ID No.	
Agency ORI MI- 8121800	Agency Name Ann Arbor Police Department		
Written Warning – No further action is required			

Enforcement: Complaints

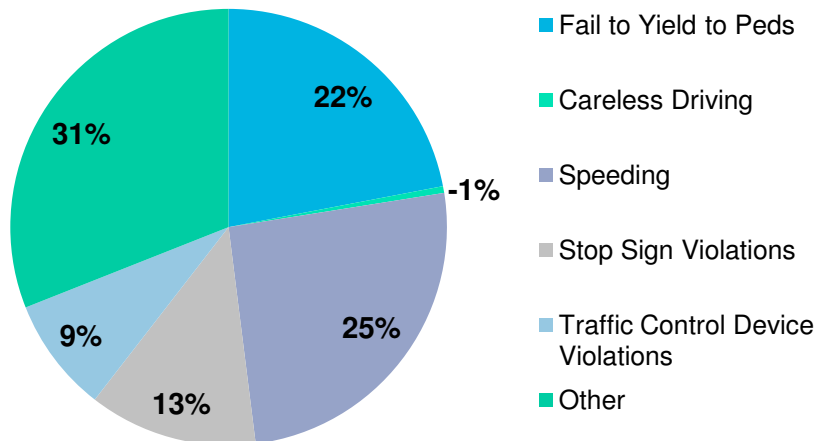


2014 On-Line Traffic Complaints Received: 285

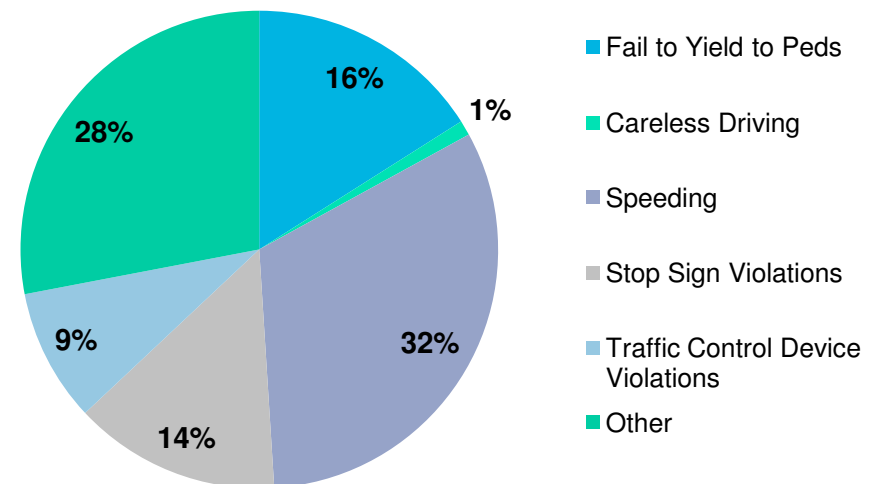


Enforcement: Complaints

**2015 On-Line Traffic Complaints
Received: 260**



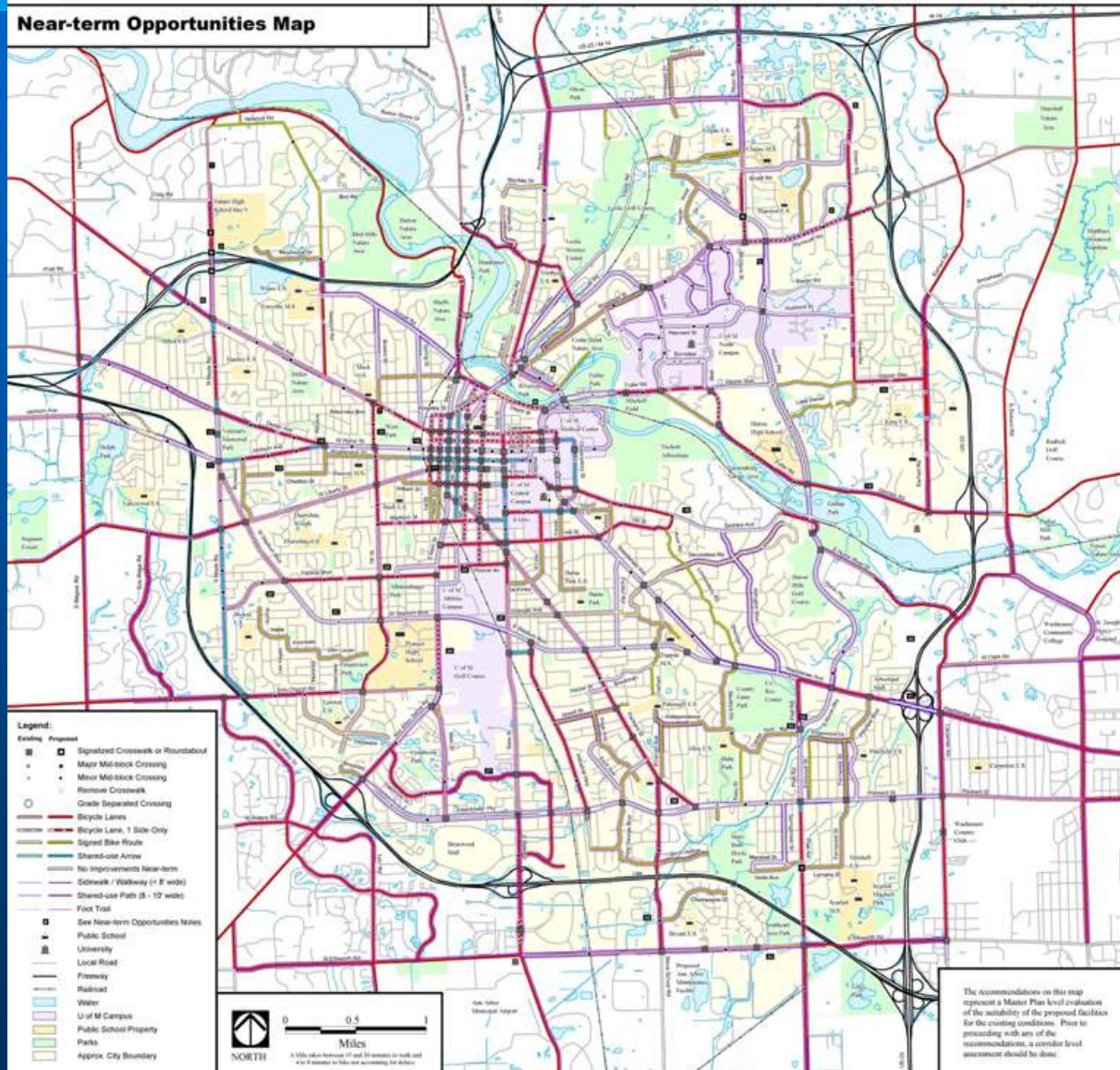
**2016 On-Line Traffic Complaints
Received: 98
(Thru 04/30/2016)**



Bicycle Planning

City of Ann Arbor Non-motorized Transportation Plan 2007

Near-term Opportunities Map

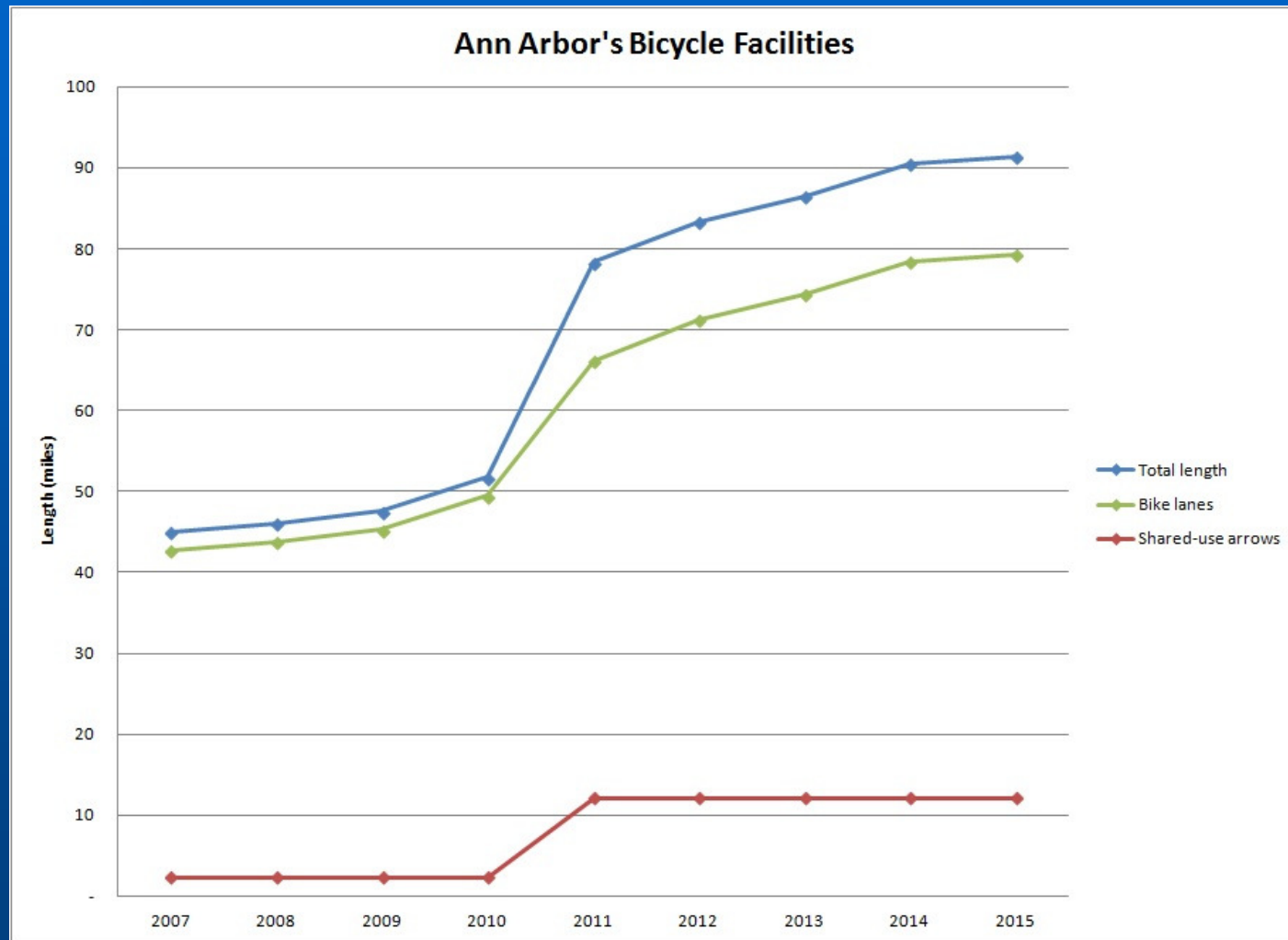


Bicycle Facilities

- Lane Lines
- Pavement Symbols
- Signs
- Parking

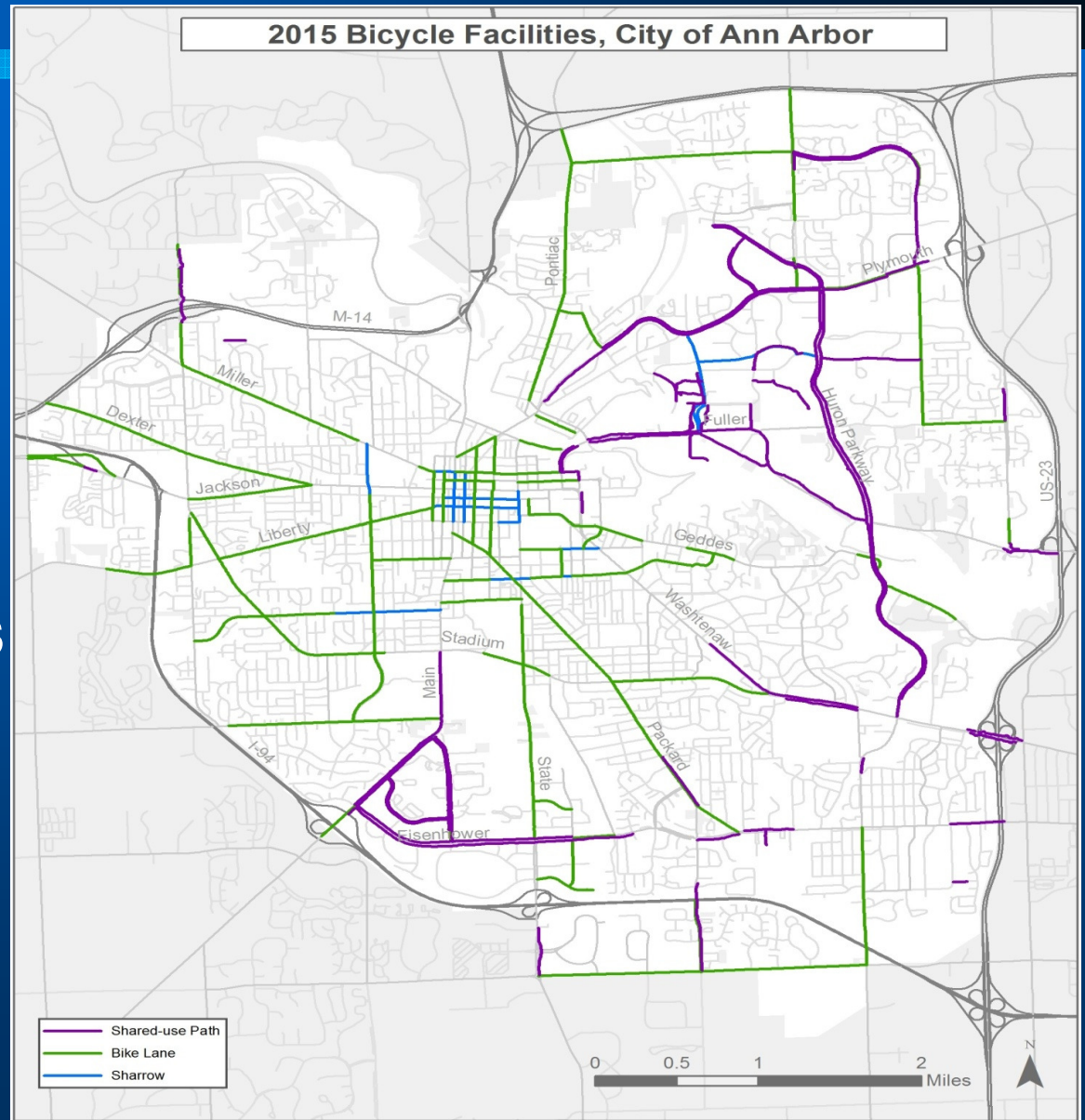


Bicycle System Expansion



Bicycle Facilities

- 79 miles of Bike Lanes
- 12.1 miles of Sharrows
- 57.6 miles of Shared-Use Paths



Bicycle Facilities

- **System Expansion**

- **Included in Road Projects**

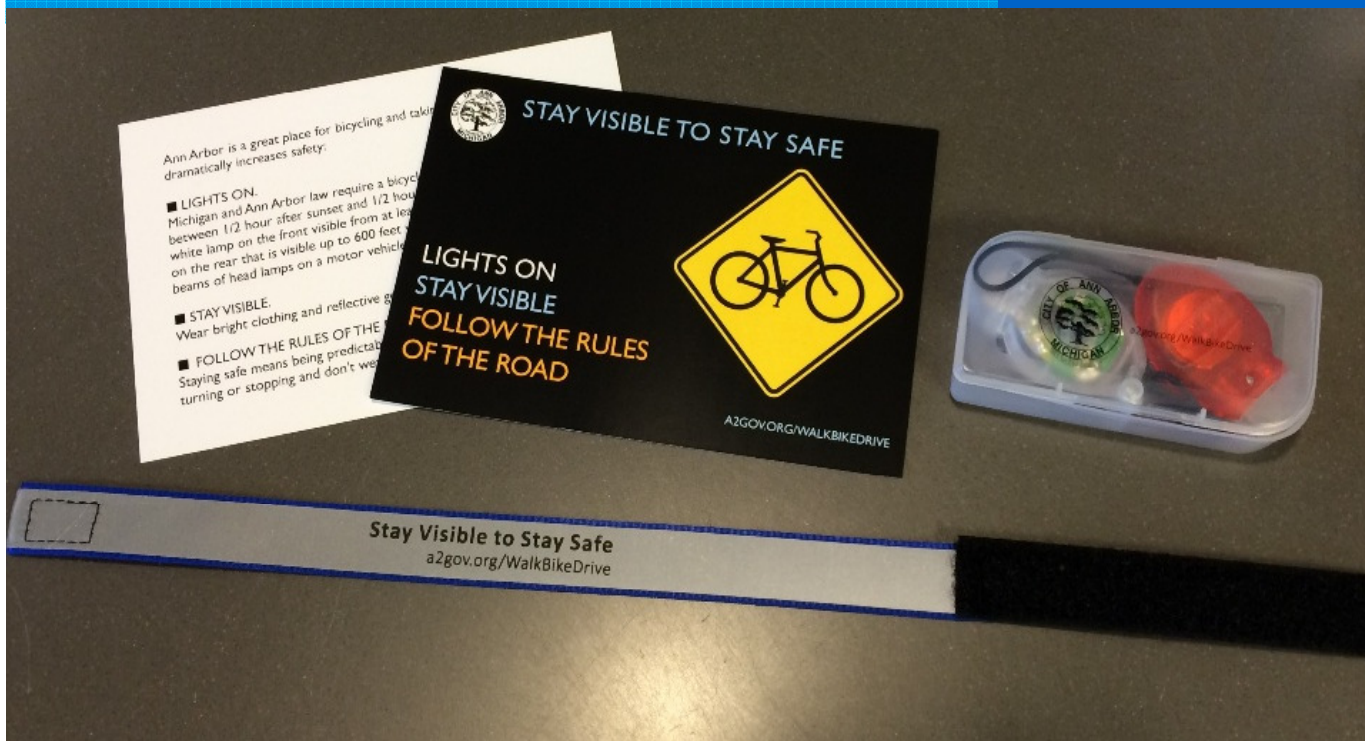
- Resurfacing
 - Reconstruction
 - Alterations

- **Grants**

- Transportation Alternatives Program (TAP)
 - American Recovery and Reinvestment Act (ARRA)
 - Transportation Investment Generating Economic Recovery (TIGER)

- **ALT Transportation Fund**

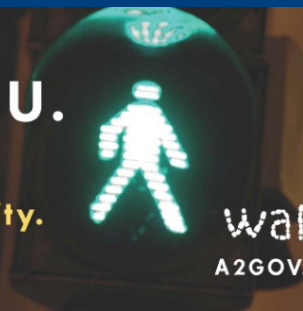
Safety Outreach



OUR SAFETY DEPENDS ON YOU.

➡ In the dark, wear light-colored clothing and reflective gear to ensure your visibility.

PEDESTRIAN TIP NO.15



walk BIKE DRIVE.
A2GOV.ORG/WALKBIKEDRIVE

WE SHARE THE RESPONSIBILITY TO KEEP ANN ARBOR | AND ONE ANOTHER | SAFE!



WALK

- **Cross at the crosswalk.**
- **Look both ways before entering the street.** Be sure you give drivers enough time to see you and stop.
- **Use the signals.** Traffic signals help pedestrians communicate with drivers.
- **Take refuge.** Some crosswalks have a pedestrian refuge island in the street. Cross easily and safely, one side of traffic at a time.
- **Be visible.** Assume drivers can't see you so wear light-colored clothing and reflective gear.

BIKE

- **Lights on.** Ann Arbor law requires front headlights and rear reflectors after dark.
- **Follow the rules of the road.** Ride with traffic, even in bike lanes, obey traffic signals and use hand signals.
- **Yield to pedestrians.** On the sidewalk, consider yourself an invited guest. Ride slowly, announce your presence, walk your bike on crowded sidewalks and always yield to pedestrians.
- **Wear a helmet.** Your brain is your most precious asset; protect it.

DRIVE

- **Stop for pedestrians.** Ann Arbor law requires drivers to stop for pedestrians at or in crosswalks.
- **Stay out of bike lanes.** It is illegal for cars to drive or park in bike lanes.
- **Watch for bikes, and give them space.** Bicyclists may legally ride in roads both with and without bike lanes so give them and yourself room.
- **Take care near buses.** Watch for riders exiting buses, and yield the right of way to buses.
- **Stop on red.** Yellow means slow down, not speed up.
- **Don't pass vehicles stopped at crosswalks.**

Are you concerned about speeding cars, unsafe roadways or crosswalks? Please use our online tool for traffic complaints:

WWW.SURVEYGIZMO.COM/S3/1463514/ANN-ARBOR-TRAFFIC-COMPLAINT-QUESTIONNAIRE



OUR SAFETY
DEPENDS ON
YOU!

TO LEARN MORE VISIT WWW.A2GOV.ORG/WALKBIKEDRIVE

Evaluation

- Extent
- Safety Statistics
- Mode Share

Non-motorized Commuting Rates

Year	City of Ann Arbor	Washtenaw County	SEMCOG region	Michigan
2000	24.7%	11.6%	4.0%	3.7%
2010	27.9%	11.9%	4.0%	4.0%
2014	29.7%	13.2%	4.1%	4.2%

Source: US Census Bureau, 2000 Decennial Census and American Community Survey 5-year estimates



Information available at a2gov.org/walkbikedrive

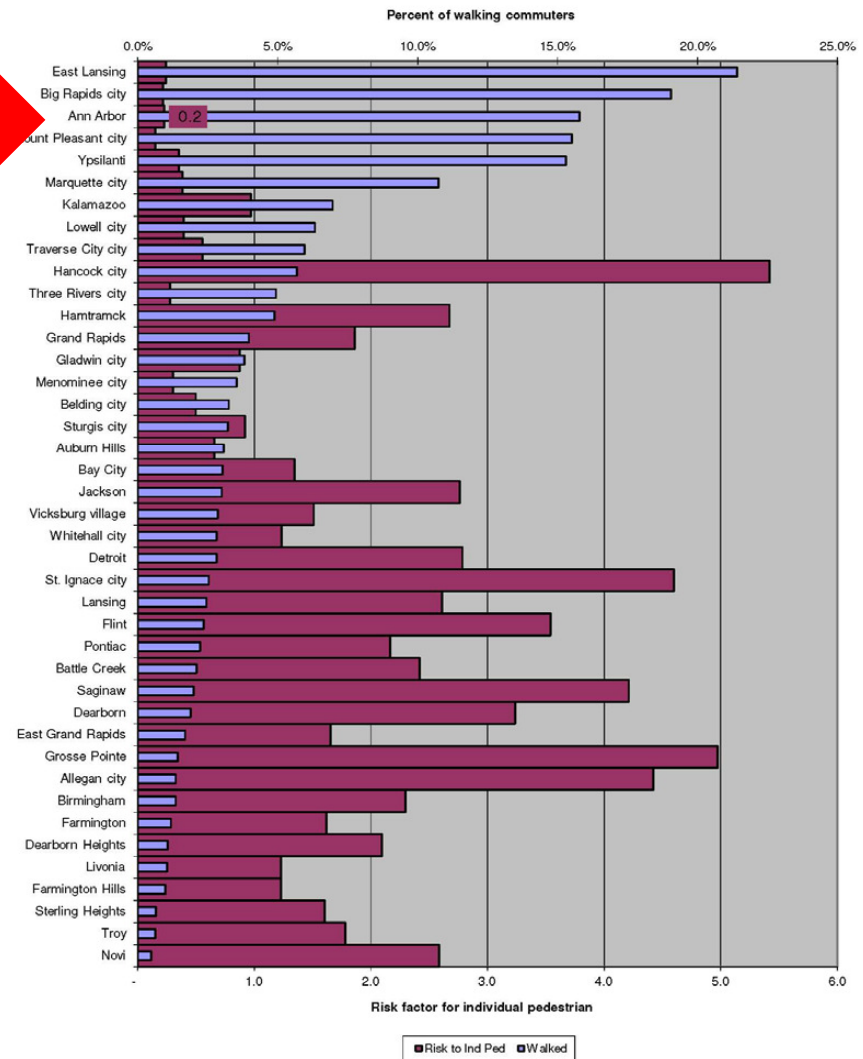
Evaluation: Percent Walking and Risk

Blue = Percent Walk

Ann Arbor: 14.7 %

Red = Risk

Ann Arbor: 0.2



Summary

- **Next Steps**
 - Crosswalks
 - Sidewalk Gaps
 - Traffic Calming
 - Streetlights
 - Bike Facilities
 - Safety and Enforcement
 - Changing Driver Behavior Study



Questions

