

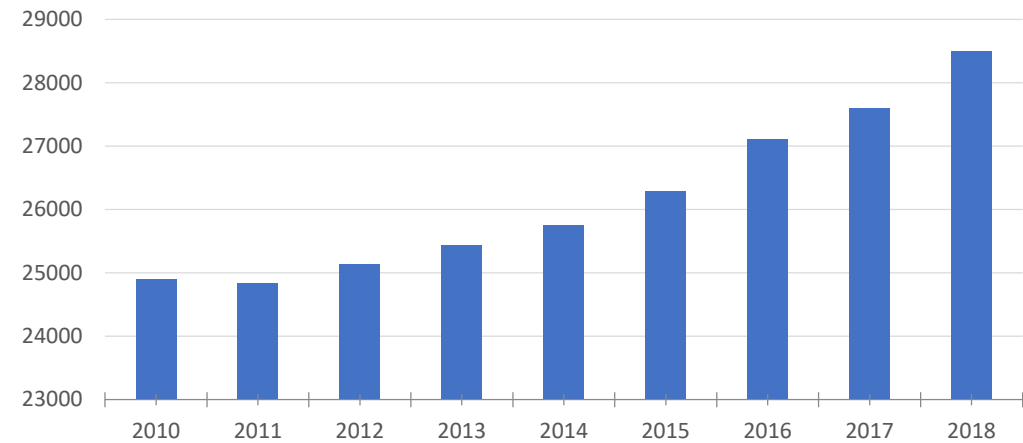


MOBILITY MATTERS

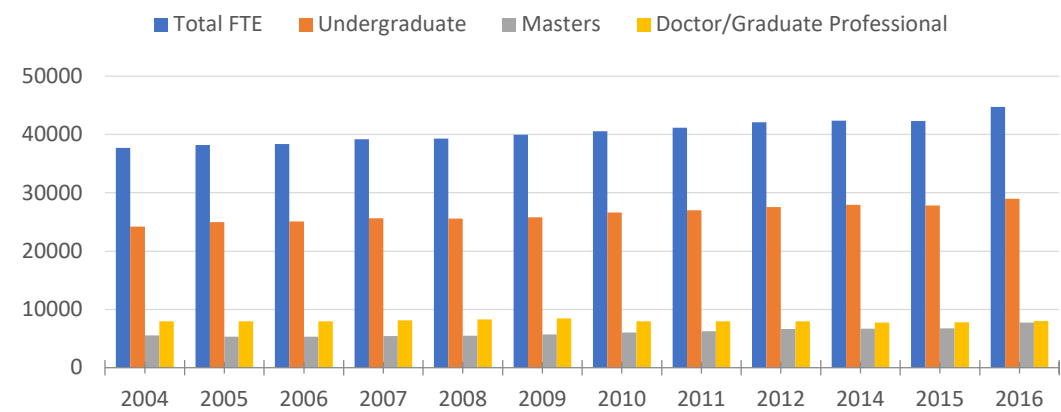
Sharing, Surveying, and Surviving



Total University Faculty/Staff



Total University Enrollment 2004-2016





2015
Congestion
Forecast Map



2045
Congestion
Forecast Map

MOBILITY BY THE NUMBERS

Daily Commuting

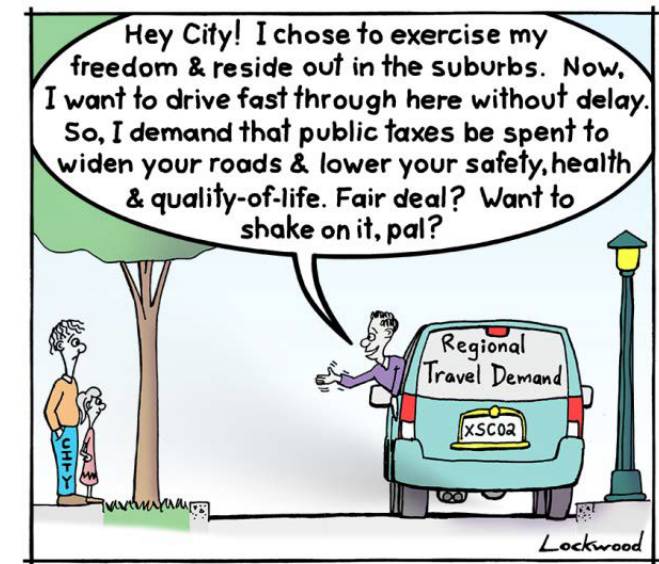
TRAVEL DELAY AND VMT

	2015	2045	Percent Change
AM Peak VMT	1,673,688	1,771,954	6%
AM Peak VHT	42,688	47,510	11%
AM Peak Total Delay (Hours)	7,034	10,122	44%
AM Peak Per Capita Delay (Minutes)	1.18	1.53	30%
PM Peak VMT	3,270,576	3,445,752	5%
PM Peak VHT	83,157	92,012	11%
PM Peak Total Delay (Hours)	14,336	19,737	38%
PM Peak Total Delay (Minutes)	2.40	2.99	25%

MOBILITY BY THE NUMBERS

Daily Commuting

PARAMETER	MICHIGAN	ANN ARBOR
Pavement Condition (% good or better)	21	36
Daily Population Expansion (several city range)	1.10- 1.34	1.74
Mean Commuting Time (minutes)	25.2	20.4
Drive Alone (%)	83	54
Use Transit (%)	2	11
Carpool (%)	8	8
Bike (%)	0	5
Walk (%)	2	20
Work at Home (%)	3	3 – 7



DISRUPTIVE INFLUENCES



Spin scooters to roll in Ann Arbor as city ditches Bird

Updated Apr 19, 2019; Posted Apr 16, 2019

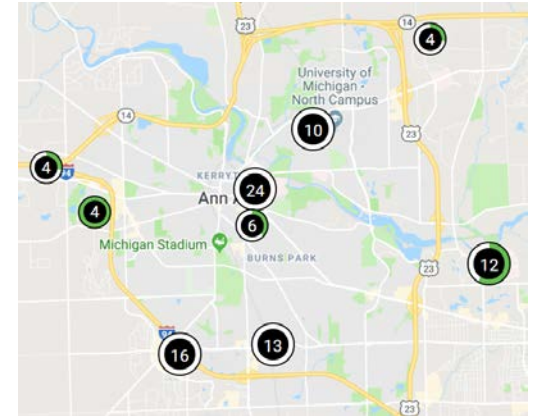
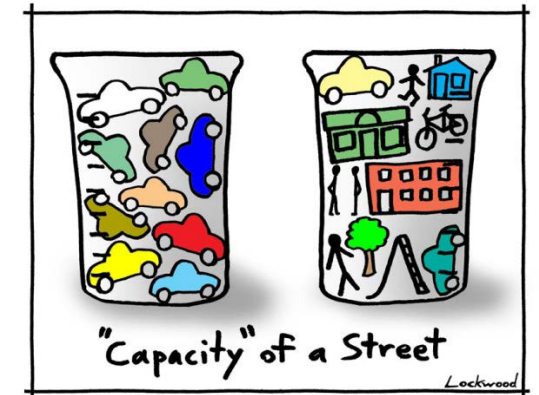


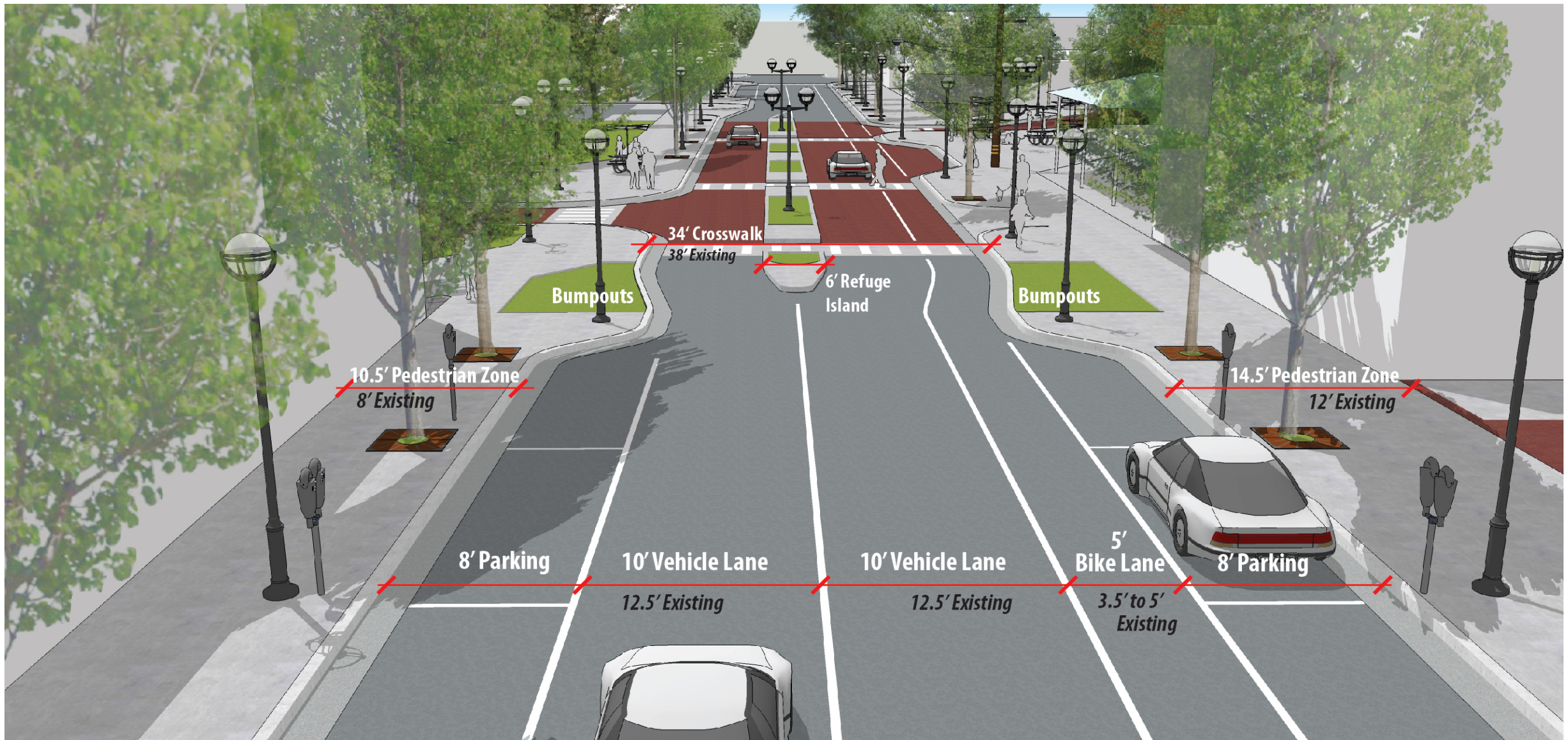
courtesy of Spin, Inc.

Ann Arbor approved an agreement with Spin to deploy scooters in the city. (courtesy of Spin, Inc.)

MOBILITY COMMITMENTS

- **The Complete Streets/Vision Zero Commitment:**
 - Do we prioritize bike/pedestrian safety above speed of movement?
 - Do we have support to remove lanes of traffic and parking?
 - Are we building buffered and protected bike lanes?
 - Is our community prepared to pay for sidewalks?
- **The Carbon Neutrality Commitment:**
 - Are we supporting transit options?
 - Do we subsidize employee parking?
 - Does our community support increased density in its core?
 - Does our university have a neutrality pledge and if so how are they supporting it?
 - Do they subsidize parking?
 - Do their carbon calculations include transportation emissions?
- **The Safe Routes to School (SRTS) Commitment:**
 - What is the nature of our relationship with our school district?
 - Does the school district have a financial interest in SRTS?
 - How do students get to school?
 - How effectively do we coordinate mobility with AAPS plans?





5TH & DETROIT STREET DESIGN

CONCEPTUAL LAYOUT

5th and Detroit Project - How did design & engineering affect behavior?



Before Study:

50% of people crossed with a vehicle present.

Of those:

- 52% of people were prevented from crossing because the car driver did not stop

In total 72% of people were able to cross because there was no car present or the driver stopped



After Study:

42% of people crossed with a vehicle present.

Of those:

- Only 3% of people were prevented from crossing because the car driver did not stop

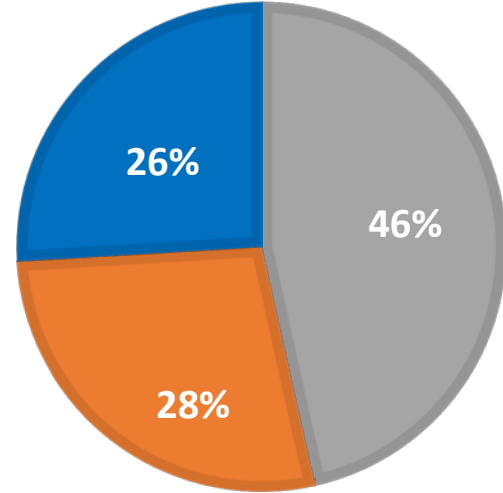
In total nearly 99% of people were able to cross because there was no car present or the driver stopped

Before Improvements:

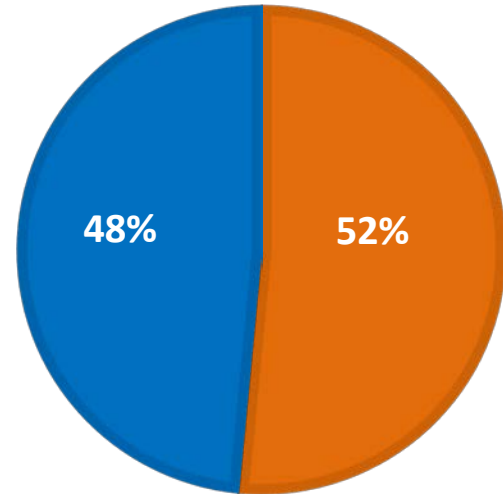
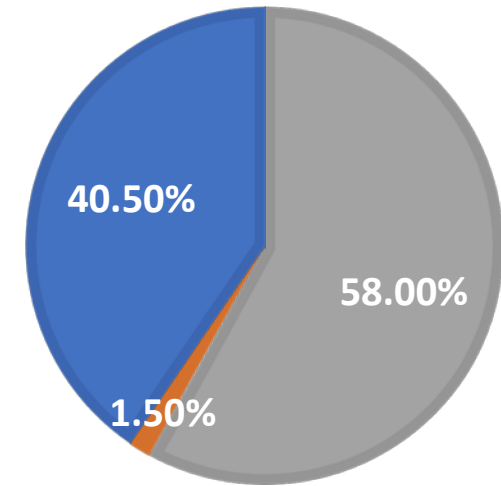
After Improvements:

Legend

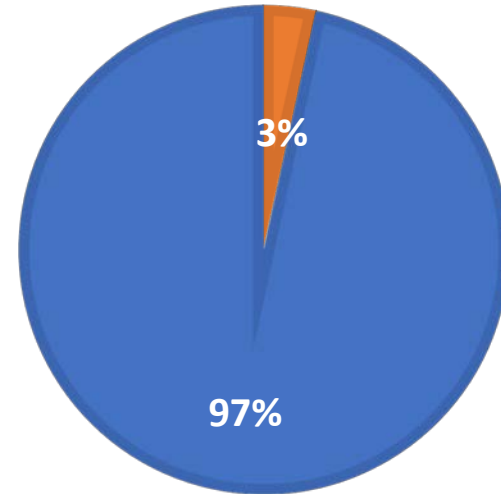
- Crossed Without a Vehicle Present
- Driver Did Not Stop
- Driver Stopped



All Crossing Conditions



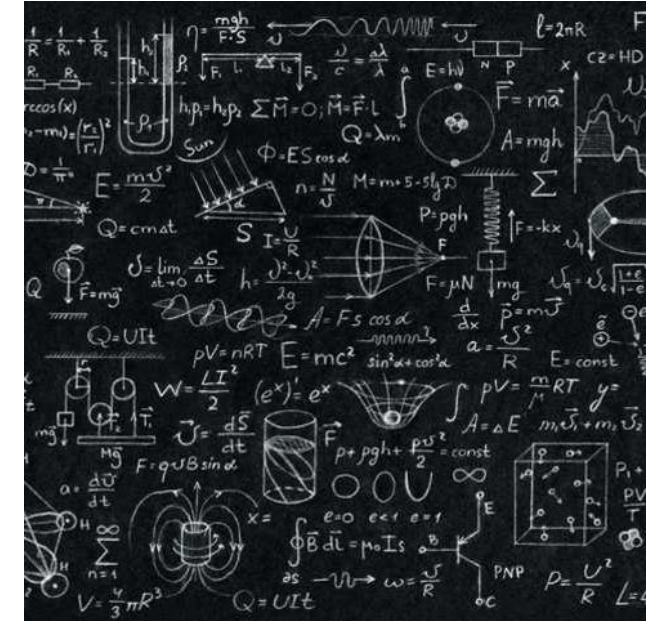
Crossing With a Vehicle Present



PERFORMANCE MEASURES

PERFORMANCE

- ☒ EXCELLENT
- ☐ GOOD
- ☐ AVERAGE
- ☐ POOR



What are our standards?

- Industry best practices
- Peer city comparisons
- Community surveys

Where does our data live?

- City systems
- Third party databases

What's the math?

- Reliable (Is it accurate?)
- Reproducible (Is it precise?)
- Relevant (Who cares?)