MSU Mobility Planning

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Traffic Management

- Pedestrian safety
- Parking management
- Traffic flow optimization
Parking Controls

• Transition plan
  – Federal APD
  – T2 Systems

• Capacity Counts – Usage Data
  – Publish to public feed
  – Integrate 3rd party solution

• RFID (next year!)
Autonomous Vehicle Test Bed

- Partnering with industry
- Research on autonomous vehicles
  - Engineering
  - Social science
  - ...

CAMPUS FACTS
- Founded in 1855
- Nation's Pioneer Land-Grant University
- Contiguous 5,200 acres (21 km²)
- Developed 2,000 acres (8.1 km²)
- 545 buildings, 103 for instructions
- 39,000 undergraduate students
- 11,400 graduate students

TRAFFIC DATA
- 113 miles of pedestrian walkways and sidewalks
- 57 lane miles of road
- 20 miles of bike paths
- 37 traffic lights
- 9,228 employee parking permits
- 2,020 student parking permits
- 1,629 commercial parking permits
- 62,759 visitor day parking permits
- 7,850 bicycle permits
- 1,060 licensed motorized vehicles (170 with GPS tracking locators)
- 85 members of MSU Police force - provides flexibility in managing traffic
CANVAS Autonomous Vehicle Platform
Mobility Data Collection Project

The Distribution of Total MSU Students in Greater Lansing Area (2016)
CATA

- New bus app: Transit
Bike Sharing

• Regional Cooperation (MSU, East Lansing, Lansing, Meridian, CATA, LEAP, …)
• RFP to be released this month
• Several vendor expressed interest
• Possibly also electric scooters

(Pictures from potential vendor sites – for illustration only)
Mobility App (iPhone only ... for now)

- Gather data on motion of cars, bikes, peds, ... @MSU
- Crowd-sourced big data analysis / visualization
- Prizes! (drawing April 15)
- Soft launch **today**
Download

• Search in AppStore for “msu mobility”
• Or click on: https://itunes.apple.com/us/app/msu-mobility-research/id1217059359?mt=8