

# Austin Transportation Department

## 2018 Bond Development

September 11, 2017



# Topics

- Austin Transportation Department's CIP
- Rolling Needs Assessment
- 2018 Bond Needs Assessment
- Programs Included in Staff Recommendation
- Process for Identifying Projects

# Austin Transportation

The Austin Transportation Department is committed to providing the most safe, efficient, cost-effective and sustainable roadway, bikeway, walkway and transit system for our community.

**Multimodal**

**Operations  
minded**

**Strategic**

**Regionally  
engaged**

**Publicly  
transparent**

# Austin Transportation

The Austin Transportation Department (ATD) is responsible for the following assets on behalf of the City of Austin:

- Traffic Signals
- Advanced Traffic Management System (ATMS)
- Bike facilities
- Traffic safety improvements
- Traffic calming devices (LATM)
- Signs & Markings\*
- Parking Meters\*\*

\* Funded by Operations & Maintenance

\*\* Funded by Parking Enterprise

# Rolling Needs Assessment

- Annual Process as part of the Long-Range CIP Strategic Plan
- Divisions review CIP needs
  - Active Transportation and Street Design
  - Transportation Engineering
  - Transportation Systems Development
  - Arterial Management
- Types of needs: capital renewal, service demands, planning priorities



# 2018 Bond Needs Assessment

- Reviewed 2017-18 Rolling Needs Assessment
- Considered 2016 Mobility Bond implementation
- Prioritized safety-focused programs and citywide programs not receiving funding through 2016 Bond



# ATD Needs Assessment and Staff Recommendation

The ATD Needs Assessment amount is based on the department's 5 year projection of CIP funding needs.

ATD's Needs Assessment Total: \$2B

The Staff Recommendation Amount is based on City staff assessing all departments' Needs Assessments and balancing those needs on various scenarios of a proposed 2018 bond where taxes either are not or are increased.

Staff Recommendation Amount for ATD: \$40M

# ATD Needs Assessment and 2018 Bond Staff Recommendation

Portfolio Name	Description (short)	Needs Assessment Amount	Staff Recommendation Amount
Traffic Signals/Advanced Transportation Management System (ATMS)	Manage over 1,000 signals and pedestrian hybrid beacons plus CCTV cameras, travel time and volume sensors, school zone and other beacons, and dynamic message signs	\$94M (includes Traffic Management Center \$50M)	\$20M
Corridor Mobility/Capacity Enhancements	Redesign existing corridors, acquire right-of-way, provide new road connections, provide transit-supportive investments	\$1.1B	\$0
Active Transportation	Design and construct on-street and off-street bicycle facilities	\$35.5M	\$0
Transportation Safety/Vision Zero	Design and construct safety infrastructure for all transportation modes	\$43M	\$20M
Leveraging Regional Projects	Participation in regional projects addressing regional connectivity and congestion management	\$625M*	\$0

\*Estimate represents magnitude only.



# Not Included: Corridor Mobility/Capacity Enhancements

- Corridor Mobility Development Program
- Transit Speed and Reliability Program
- Corridor Right-of-Way Preservation Program
- Connectivity Program

# Not Included: Active Transportation

- All Ages and Abilities Bicycle Network
- Bicycle Facility Network Build Out with Street Maintenance Program
- Active Transportation Network Barrier Removal
- Bike Share Expansion



# Not Included: Leveraging Regional Projects

- IH-35 Corridor Improvements
- MoPac Corridor Improvements
- Project Connect
- Regional Park & Ride Initiative

# Traffic Signals/Advanced Traffic Management System (ATMS)

Over 1,000 signals and pedestrian  
hybrid beacons (PHB)

Closed-circuit television (CCTV)  
cameras

Travel time and volume sensors

School zone and other beacons

Dynamic message signs (DMS)



# Traffic Signals/ATMS

Staff Recommendation- \$20M

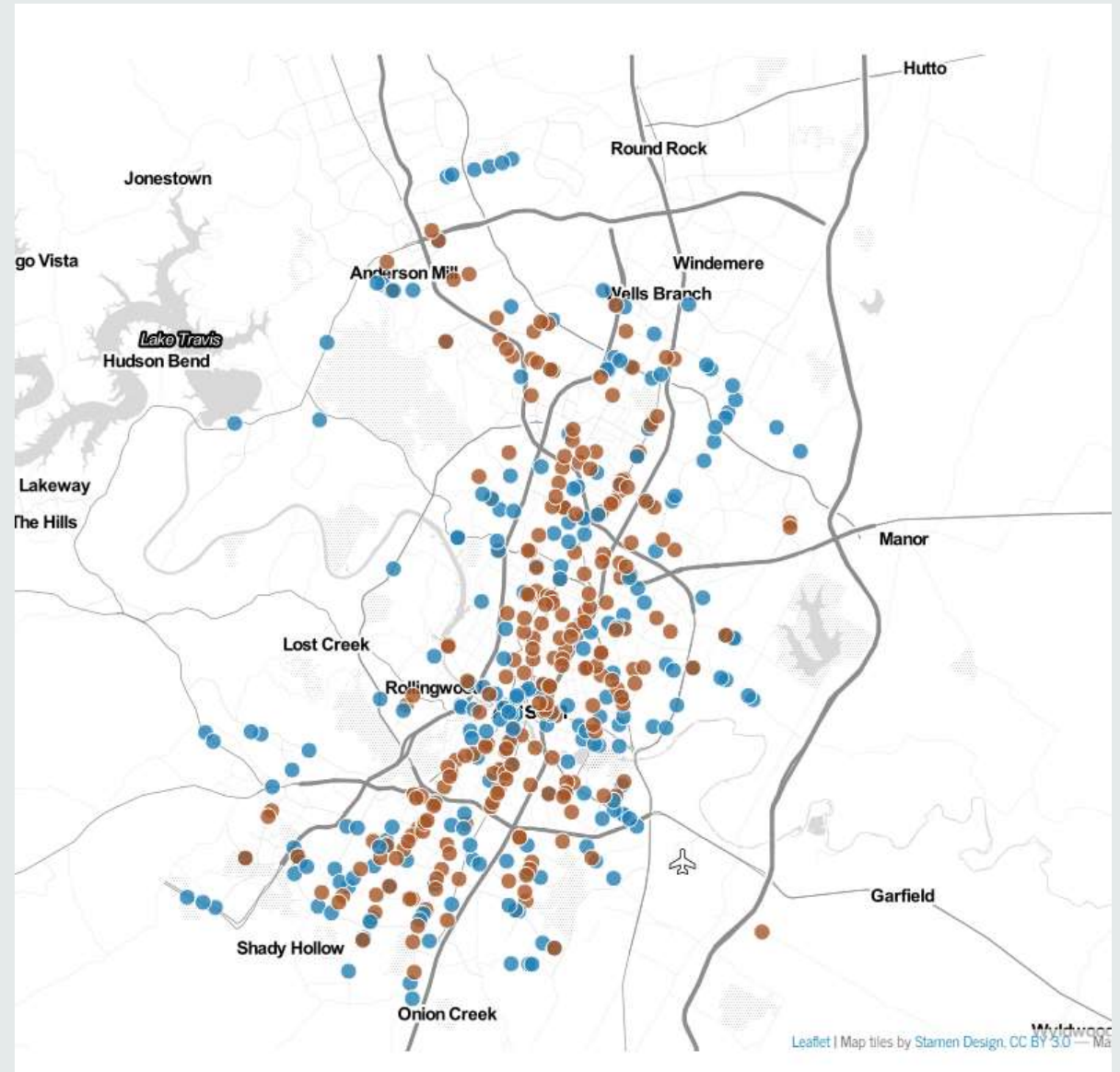
Category	Outputs	Amount
Traffic Signal and ATMS	new signals, new PHBs, new rapid flashing beacons, new school zones, signal modifications and upgrades, signal cabinet replacements, and communications and cybersecurity enhancements	\$8.9M
Safety Improvements	Emergency Vehicle Preemption, Accessible Pedestrian Signals at signals, Retroreflective Backplates at signals , and Battery Backups with roughly half to refurbish battery systems at the end of their life	\$4.2M
Mobility Improvements	Replace loop detection at signals, extend traffic monitoring capabilities with CCTV cameras, upgrades to City traffic management center, transit signal priority, updated conflict monitors, updated signal controllers and firmware	\$4.9M
Placemaking	Illuminated street name signs at signals downtown for visibility and place-making	\$2M



# Traffic Signals/ATMS

## Identifying Project Locations:

- Map signal and PHB requests
- Prioritized by multiple factors (safety, delay, operations, connectivity, resiliency, best practice)



# Traffic Signals/ATMS

## **Not included in staff recommendation:**

- Traffic Management Center (\$50M) – establish new regional TMC in partnership with TxDOT designed to manage regional roadway system as one system
- Partial funding for Traffic Signals/ATMS (\$24M)



# Transportation Safety/Vision Zero

Major Intersections Safety  
Improvements

Pedestrian Crossing Program

Local Area Traffic Management



# Transportation Safety/Vision Zero

Staff Recommendation - **\$20M**

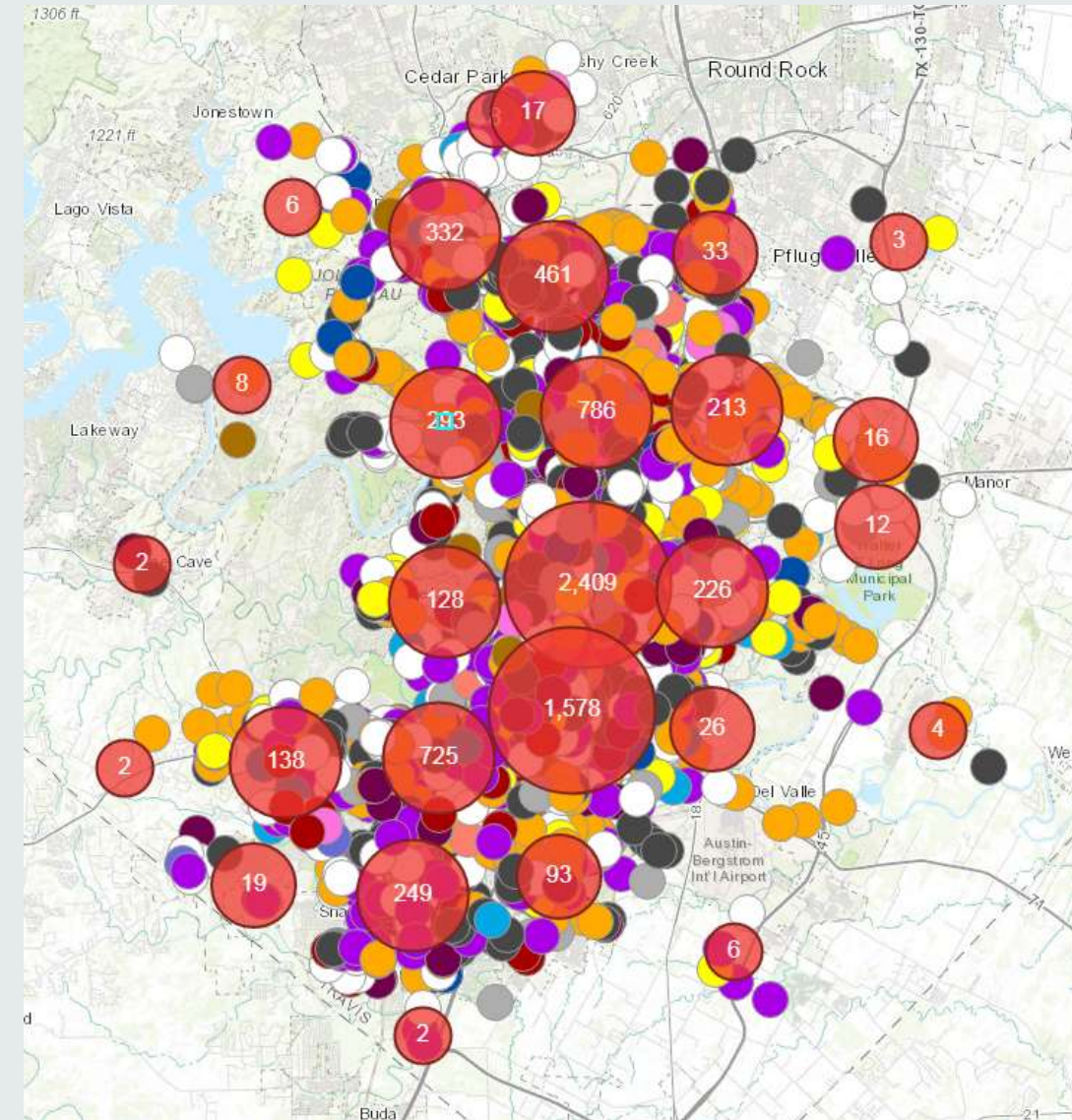
Program	Outputs	Amount
Major Intersection Safety Improvements	Targeting 15-20 locations (~3-5 locations/year)	\$15M
Pedestrian Crossing Program	Targeting 150-200 locations (~20 locations/year)	\$3.8M
Local Area Traffic Management	Targeting 100 locations (~20 locations/year)	\$1.2M



# Transportation Safety/Vision Zero

## Identifying Project Locations:

- **Major Intersection Safety Improvements** – June 2016 Top Crash Location Intersection Priorities Improvements List, performing safety studies for all 28 locations over the next 3 years
- **Local Area Traffic Management** – 3-1-1 requests, evidence of support, scoring based on 12 criteria that also include documented traffic speed and volume
- **Pedestrian Crossing Program** – identified through planning framework developed as part of the forthcoming Pedestrian Safety Action Plan, includes citizen requests, crash histories, high pedestrian demand, Vision Zero Input Map



# Transportation Safety/Vision Zero

## **Not Included: \$23M**

- Special Event Safety and Security Infrastructure - \$5M
- Railroad Crossing Improvements - \$3M
- Partial Funding (\$15M) for:
  - Major Intersection Safety Improvements
  - Pedestrian Crossings
  - LATM

# Future Topics

- Public Works Department - Bridges 101 and Current State of Austin's Bridges – Sept. 18?
- Austin Transportation Department - Other Possible Topics?