

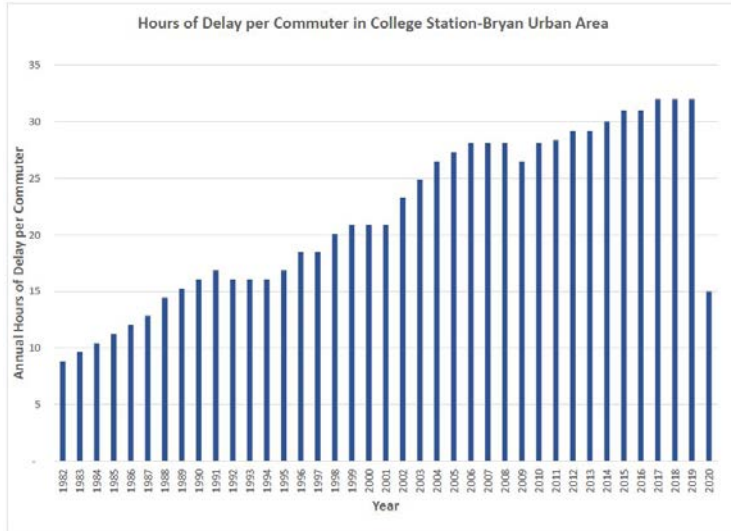
# Traffic Congestion and Mobility Implementation

Council Workshop  
January 27, 2022



CITY OF COLLEGE STATION  
*Home of Texas A&M University®*

# Congestion Trends and Approaches



Source: Texas A&M Transportation Institute Urban Mobility Reports

## Methods to Reduce

- Add capacity to roadway network
- Use existing capacity more efficiently
- Reduce traffic demand



- From 1982 to 2019, annual hours of delay per commuter increased from 9 hours to 32 hours .
- From 2010 to 2019, the number of commuters increased 32% while hours of delay per commuter increased 17%.

# EXISTING TRAFFIC CONGESTION

## LEVEL OF SERVICE DESCRIPTIONS

- A - Free-Flow
- B - Reasonably Unimpeded
- C - Stable Flow
- D - Noticeable Congestion
- E - Significant Delay
- F - Stop-and-Go Condition

EXISTING TRAFFIC LEVEL OF SERVICE*	
<span style="color: yellow;">█</span>	D
<span style="color: red;">█</span>	E & F
<span style="color: blue;">█</span>	TXDOT THOROUGHFARES
<span style="color: grey;">█</span>	CITY THOROUGHFARES



\*Based on the Travel Demand Model adjusted for existing traffic volumes

# CRASH DENSITY

Crash data collected by the Texas Department of Transportation from 2017-2021 was used to map traffic accidents spanning all modes of transportation and includes injury and non-injury collisions and their locations.

## TOP 10 INTERSECTIONS WITH CRASHES\*

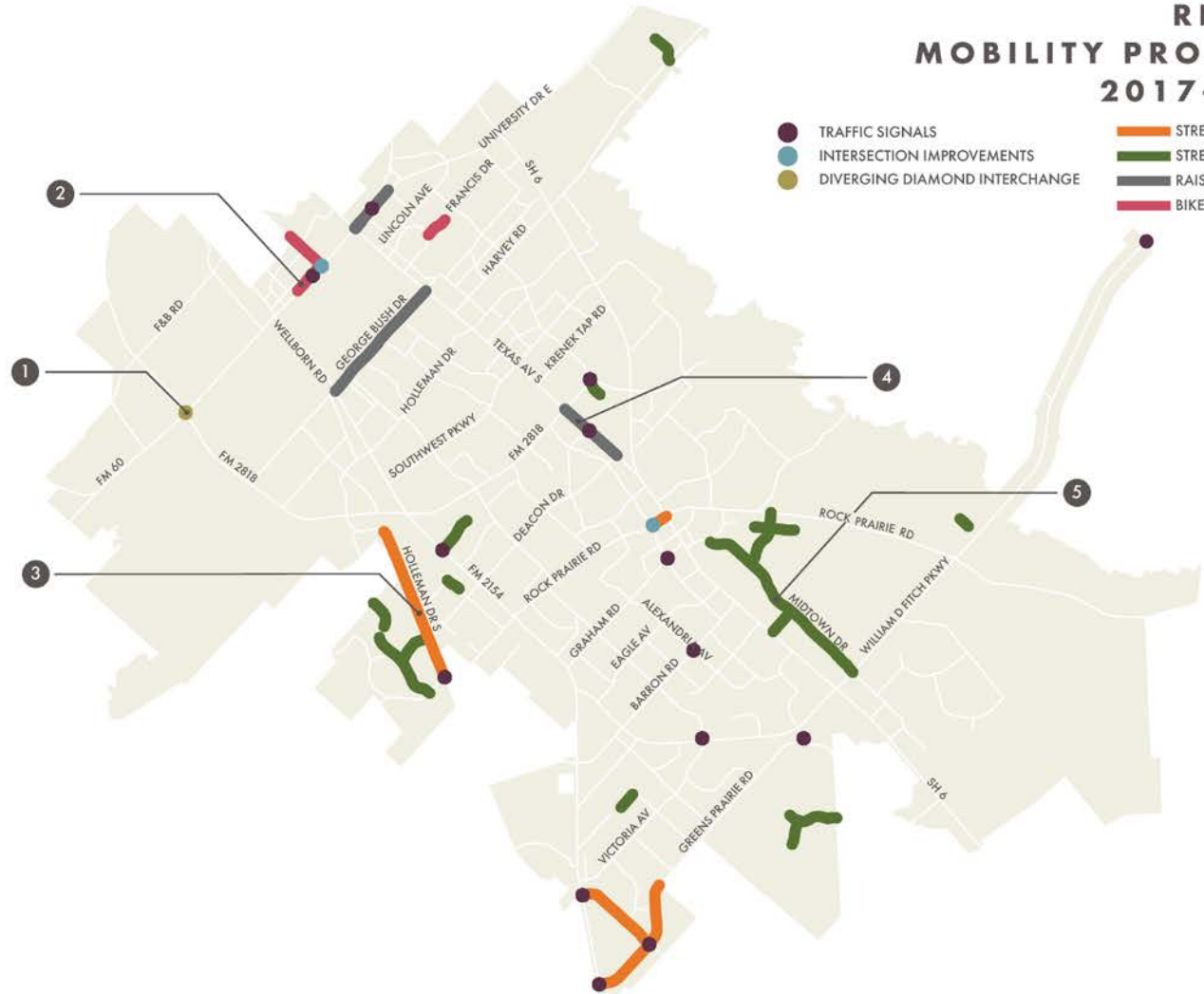
- 1 FM 2818 & TEXAS AVE S
- 2 FM 2818 & HOLLEMAN DR W
- 3 FM 2154 & ROCK PRAIRIE RD
- 4 UNIVERSITY DR & TEXAS AVE
- 5 UNIVERSITY DR E & SH 6
- 6 GEORGE BUSH DR & WELLBORN RD
- 7 HARVEY RD & SH 6
- 8 FM 2154 & CAIN RD
- 9 FM 2154 & HOLLEMAN DR
- 10 ROCK PRAIRIE RD & SH 6

\*Based on the number of crashes within a 1,000 foot radius



# RECENT MOBILITY PROJECTS 2017-2021

- TRAFFIC SIGNALS
- INTERSECTION IMPROVEMENTS
- DIVERGING DIAMOND INTERCHANGE
- STREET WIDENINGS
- STREET EXTENSIONS
- RAISED MEDIANS
- BIKE IMPROVEMENTS



1 DIVERGING DIAMOND INTERCHANGE



2 UNIVERSITY DRIVE BIKE/PED IMPROVEMENTS



3 HOLLEMAN DRIVE SOUTH



4 TEXAS AVENUE RAISED MEDIANS



5 MIDTOWN DRIVE



# UPCOMING MOBILITY PROJECTS

- ROUNDABOUTS
- TRAFFIC SIGNALS
- INTERSECTION IMPROVEMENTS
- DIVERGING DIAMOND INTERCHANGE
- STREET WIDENINGS
- STREET EXTENSIONS
- RAISED MEDIANS
- BIKE IMPROVEMENTS



## 1 HARVEY MITCHELL PARKWAY (FM 2818)



## 2 JONES BUTLER ROAD



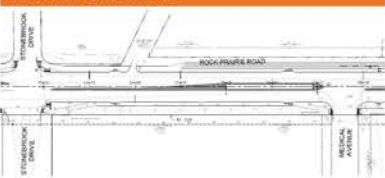
## 3 DEACON DRIVE WEST



## 4 SH 6



## 5 ROCK PRAIRIE ROAD



# Collaboration with Regional Partners



- Texas Department of Transportation (TxDOT)
- Bryan/College Station Metropolitan Planning Organization (MPO)
- Brazos County Regional Mobility Authority (RMA)
- Texas A&M University / Texas A&M University System
- College Station ISD
- City of Bryan
- Brazos County
- Brazos Transit District (BTD)



# Add / Enhance Roadway Capacity

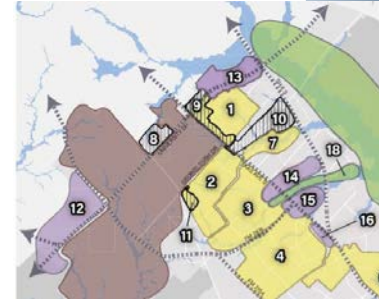
- **Maintain funding programs for mobility projects.**
  - Prioritize projects for upcoming bond election
- **Enhance and Upgrade Intersections**
  - Implement innovative intersections, roundabouts, protected intersections, etc.





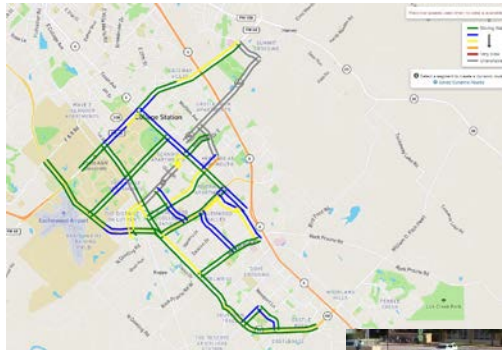
# Reduce Traffic Demand

- Land Use & Redevelopment plans
- Evaluate best management practices to increase bicycle and pedestrian use
  - Separated bike lane design and locations
  - Expansion of shared micromobility
- Implement complete street design
  - Prioritized Mode Corridors
- Transit
  - Park and Ride potential
  - BTD implementing fixed stop locations

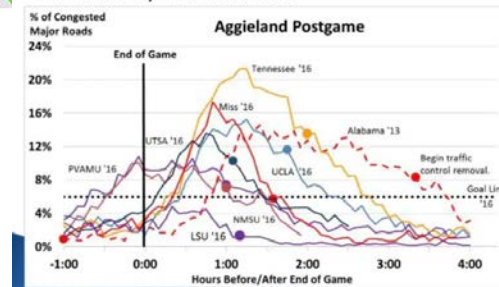


# Monitoring & Analysis

- Utilize reliable data sources to monitor congestion and establish performance measures.



Game Day Coordination



# Summary

## Implement Comprehensive Plan Strategic Actions

- Continue collaboration with other regional partners
- Funding for mobility projects
- Update design standards to better support all modes
- Develop performance measure to assess and prioritize needed improvements

