

What does sustainability really mean?



Texas A&M's 2018 Sustainability Master Plan identifies these topic areas and goals



Stormwater Management



Waste Management



Energy Use and Greenhouse Gas Emissions



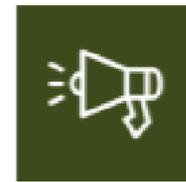
Built Environment and Site Design



Campus Mobility



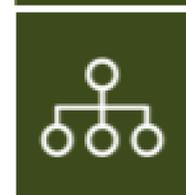
Social Sustainability



Education, Outreach, and Engagement



Instruction, Research, and Innovation



Administrative Support





Texas A&M's 2017 Campus Master Plan

Key Objectives and Focus Elements

Key Objectives

- ▶ *Enhance the Student Experience*
- ▶ *Improve Campus Connectivity*
- ▶ *Integrate the Built Environment*

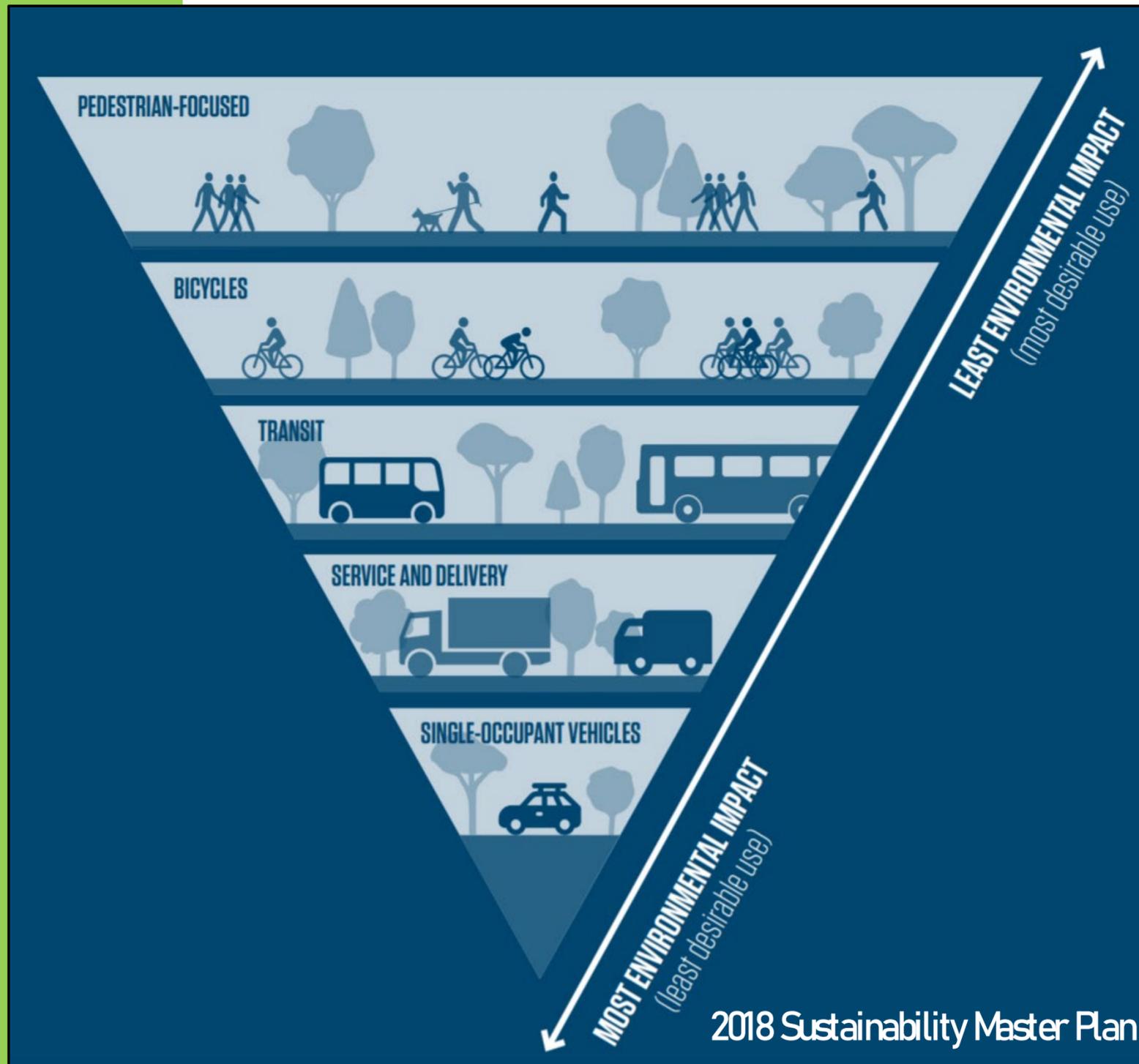
Focus Elements

- ▶ *Campus Development Plan*
- ▶ *Mobility and Safety*
- ▶ *Sustainability and Wellness*
- ▶ *Campus Guidelines*
- ▶ *Heritage Conservation*
- ▶ *Wayfinding and Signage*

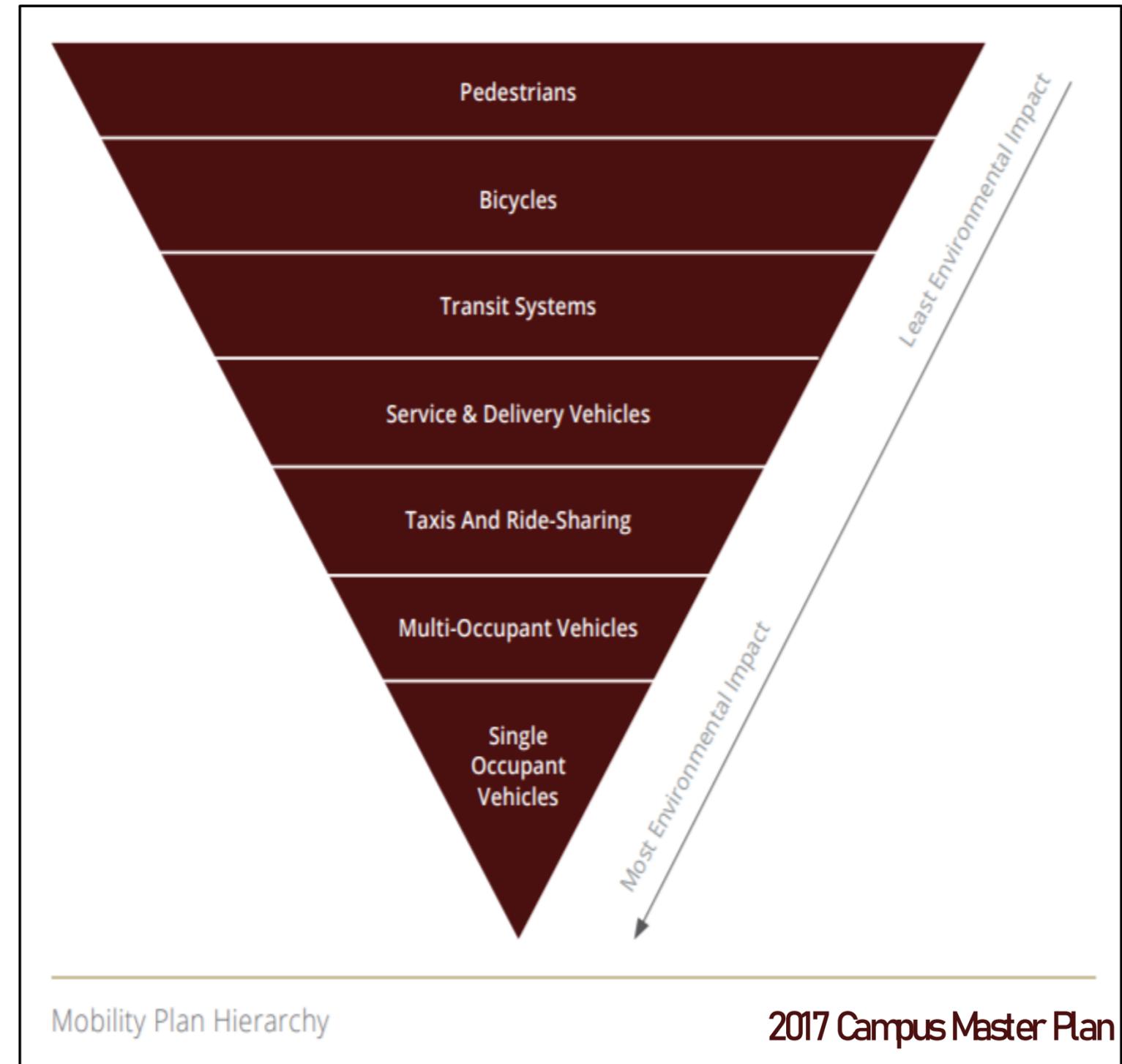
We Commit to Making it Better



Texas A&M Master Plans



► sustainability.tamu.edu



► campusplan.tamu.edu

Our Goals



Key Objectives

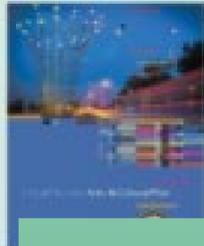
- ▶ *Healthy Place To live*
- ▶ *Equitable and Inclusive City*
- ▶ *Transformative Economy*
- ▶ *Leader in Climate Adaption*
- ▶ *City that Grows up, Not Out*



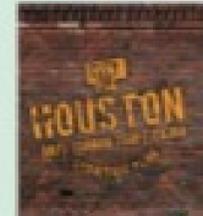
EXISTING CITY PLANS



My Brother's Keeper (2015-)



Arts



PARTNERS



MetroNEXT (2018-)



H-GAC's Livable Centers



Bayou Greenways



Humanitarian Action

CONCURRENT CITY PLANS



Plan Houston (2013-)



H-GAC's Our Great Regions (2013-)



Climate Action Plan



Action Plan for Harvey Recovery



Build Houston Forward



Homelessness Initiatives



Smart Cities



Opportunity Plan



Water Conservation



Complete Communities



Harris County Talking Transition



Climate Action Plan

Objectives of plan are to:

- ▶ *Decrease traffic congestion*
- ▶ *Improve air quality*
- ▶ *Provide better access to green space*
- ▶ *Improve quality of life*
- ▶ *Reduce energy costs through energy efficiency and renewable energy*
- ▶ *Increase resilience*



Climate Action Plan Strategies

- ▶ *Increase infrastructure for EV*
- ▶ *Private property followed by public right-of-way*
- ▶ *Convert City fleet to low E/EV/ZEV tech by 2050*
- ▶ *Expand shared/micromobility options*
- ▶ *Reduce parking requirements*
- ▶ *Promote reuse and conversion of parking facilities*
- ▶ *Implement street design to promote pedestrian safety*
- ▶ *Extend transit network, particularly BRT*
- ▶ *Promote shared mobility (e.g. car share)*
- ▶ *Promote and facilitate first mile/last mile solutions*
- ▶ *Expand Transit Corridor and Walkable Places Ordinances*
- ▶ *Reduce parking ratio requirements for infill housing and nonresidential development*
- ▶ *Unbundled parking and housing space*
- ▶ *Implement parking pricing strategies to encourage transit use*
- ▶ *Integrate TDM policies into development code*
- ▶ *Implement preferred parking for ride-share, vanpools and EV*





Partnership is the Key to Success



LANDSCAPE MANAGEMENT

Office of Sustainability

Facilities

Environmental Health and Safety

INFORMATION TECHNOLOGY

Marketing

Student Affairs

City Police

Campus Administrators

Waste Management

University Police

University Police

Campus Architect

Metropolitan Planning Organization

Department of Transportation

Facilities Planning & Construction

City Planners Utilities

CITY BICYCLE AND PEDESTRIAN PROGRAM COORDINATORS

Texas A&M Transportation Institute

Media

► Any department approved to build or renovate

Commitment Gets Results – *Pedestrian-Friendly Campus*



- ▶ “limited access road closed to private vehicles during busy class hours, successfully giving priority in this area to pedestrians and cyclists ... to continue the pursuit of a more pedestrian-friendly campus ...”

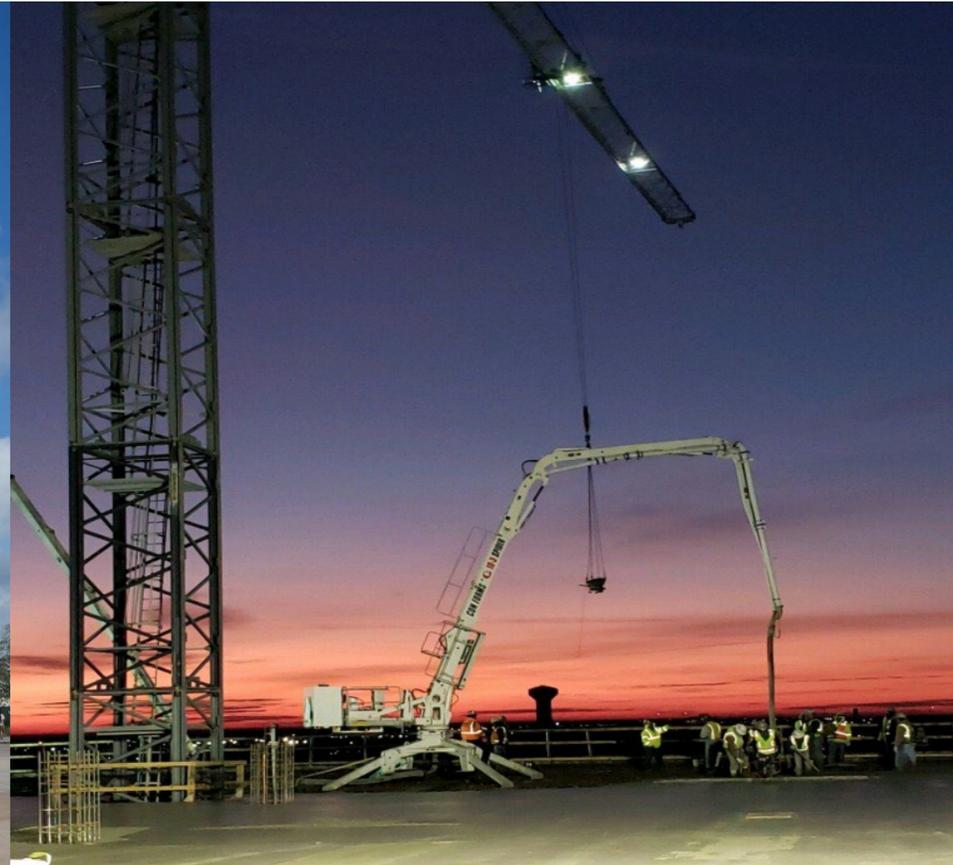




Commitment Gets Results – *Parking Infrastructure*



Cain Garage



Polo Road Garage under construction

- ▶ “...new parking garages will accommodate relocated surface parking spaces...”

Commitment Gets Results – *Finding New Options*



- ▶ “...to continue the pursuit of a more pedestrian-friendly campus, various roadways...will become pedestrian malls that will no longer allow vehicular access deep into the campus core...”





Commitment Gets Results – *Creating Green Space*



- ▶ “...small interior **parking lots will be replaced with new green space**...removing the surface lots aids in reducing vehicle, pedestrian, and bicycle conflicts by encouraging vehicles to park before entering the dense and heavily populated campus core...”

Commitment Gets Results – *Reduce Traffic Conflicts*



- ▶ “...no longer act as a major on-campus roadway...**the roadway will be reduced...**”

T2 Executive Forum



TEXAS A&M UNIVERSITY
Transportation Services



Commitment Gets Results – *Create New Options*



- ▶ “...in order to improve the safety and connectivity, the bicycle network will include **Buffered Bike Lanes and Multi-use Paths**...reduce roadways in order to accommodate **separated bicycle lanes.**”

Commitment Gets Results – *Reduce Traffic Flow*



- ▶ “A major driver of the Campus Master Plan is to **focus mobility planning on the pedestrian...**with the exception of dedicated service spaces, virtually all surface parking is planned to eventually move to periphery structured parking...”

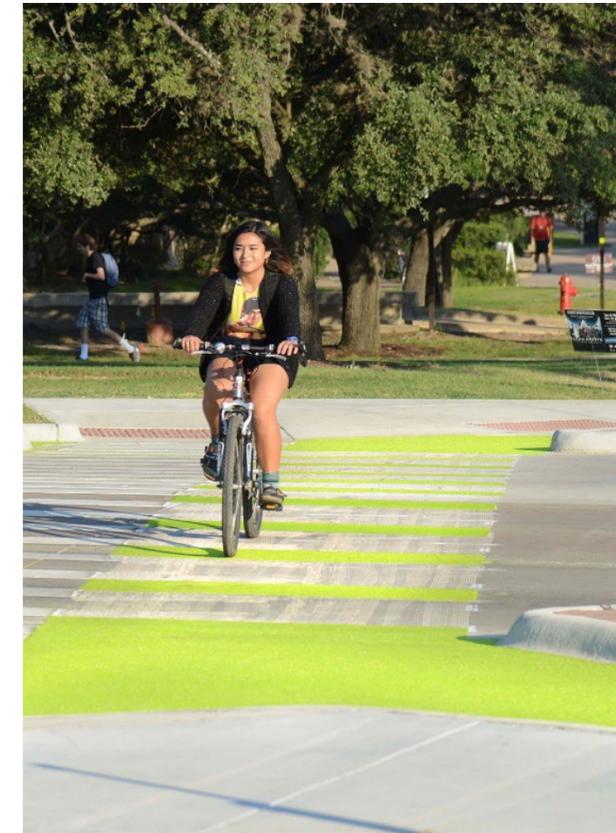


Commitment Gets Results – *Traffic Separation*



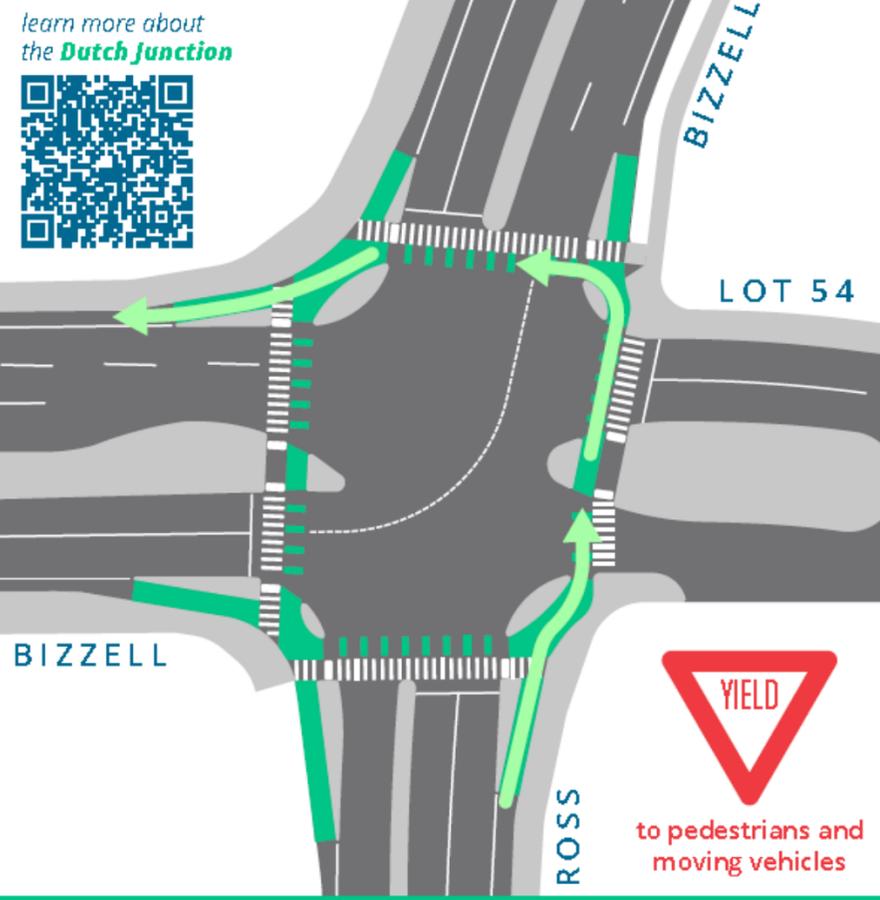
- ▶ “the immense amount of development in this area will soon increase the number of pedestrians entering campus...to maintain efficient vehicle flow without compromising pedestrian and cyclist safety, the Campus Master Plan proposes a cluster of three closely located **grade separations...**”

Commitment Gets Results – *Separating Bike Paths*



 **USE GREEN LANES TO TURN LEFT**

learn more about the **Dutch Junction**



ATM | Transportation Services

 **ALTERNATIVES**

- ▶ “...separating bicycle paths and routes from roadways is a priority of the proposed bicycle network...bicycle paths and routes are separated by either a marked buffer or a raised vegetated buffer...widen the walkways to a 14' section supportive of shared pedestrian and cyclist use...”





Commitment Gets Results – *Encouraging Biking*



- ▶ “...to encourage biking as a last-mile connectivity solution, there need to be bicycle parking facilities adjacent to vehicle parking locations. Cycling can be encouraged by providing end-of-trip facilities, such as showers and locker rooms, in key destination buildings. A bike share program would also support last-mile connectivity...”

Commitment Gets Results – *Channeling Pedestrians*



- ▶ “link city and campus bicycle networks. Ongoing cooperation and coordination between the University, City, and state entities is vital...”





Commitment Gets Results – *Reduce Traffic Conflicts*



- ▶ “**Dismount Zone**...high numbers of bicycles, skateboards, and scooters combined with extremely high pedestrian volume creates a commotion that can often lead to collisions...a dismount zone policy would require all riders dismount non-motorized wheeled vehicles such as bicycles, skateboards, and scooters to allow for pedestrian-only movement...bidirectional bicycle routes are planned...”



Commitment Gets Results – *Bike Education, Services*



- ▶ “...this plan recommends an accompanying **program be established to educate cyclists** on safe biking practices. This type of program will reinforce the dismount zone policy and help reduce bicycle-pedestrian conflict throughout campus...”



Commitment Gets Results – *Bike Education, Services*

Maps ▾ Visitors ▾ Parking ▾ Transit ▾ Alternatives ▾ Departments ▾ About Us ▾ My Account



Google Custom Search   

BIKE SAFETY

- ▶ SAFETY TIPS
- ▶ PREVENTING THEFT
- ▶ CONTACT UNIVERSITY POLICE
- ▶ PROGRAMS AND RESOURCES



SAFETY AND THEFT



BICYCLE SAFETY TIPS

- Keep bike in good repair, checking tires, spokes, brakes, pedals and chains.
- Be sure bell or horn works properly.
- Be sure light is visible for 500ft and reflector for 300ft when riding at night.
- Obey all traffic signs and signals.
- Always give hand signals before turning.
- Yield to pedestrians at crossings or on sidewalks.
- Never race or play games on public streets.
- Wear a helmet for best protection.

[More tips ▶](#) [Avoiding cars ▶](#)



PREVENTING & REPORTING THEFT

- Use a quality case-hardened steel U-bolt lock.
- Secure the bike at least through the frame and rear wheel to a bicycle rack.
- Engrave your driver's license number on the frame of the bike.
- To contact University Police Department (UPD) call [979.845.2345](tel:979.845.2345)
- Report theft or suspicious behavior around bike racks to UPD immediately
- You can also reach UPD by using any of the Blue Police Help phone on campus

[More from UPD ▶](#)

BICYCLE SERVICES

[Bike Share](#)

[Bike Lease](#)

[Bike Registration](#)

[Wheelers at The HUB](#)

[Borrow a Bike](#)

[FIXIT Stops](#)

[Secure Summer Bicycle Storage](#)



TEXAS A&M UNIVERSITY
Transportation Services

Commitment Gets Results – *Supporting Wellness*

▶ “...build on campus wellness initiatives...minimize transit's environmental impact ...consider how to best **accommodate bicycle parking**...higher demand for bicycle storage...designed to meet the duration of need... provide appropriate **screening with landscaping or low-walls**...”



CALENDAR *Flourish* AT TEXAS A&M CONTACT US

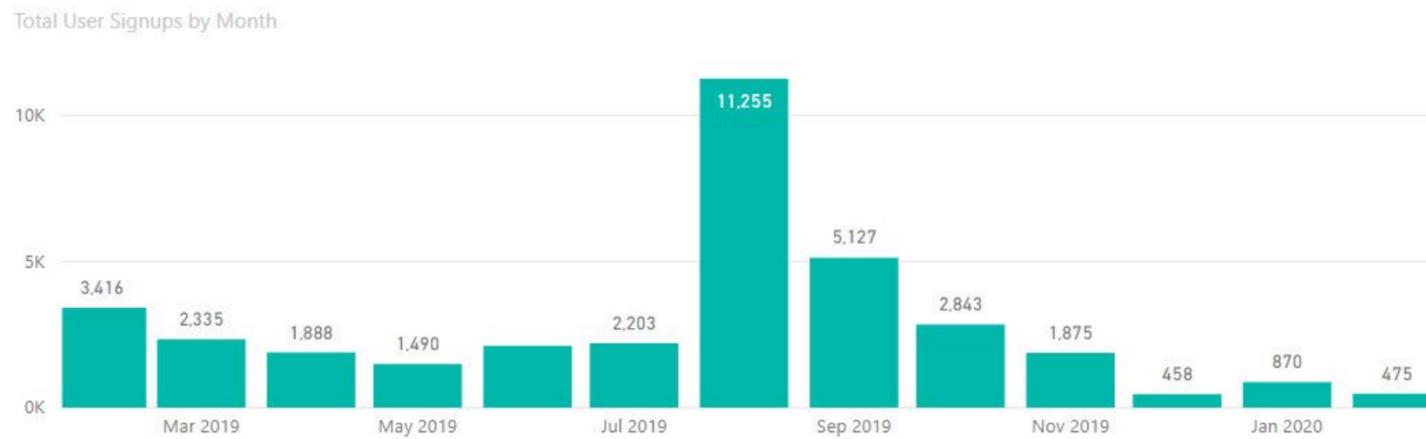
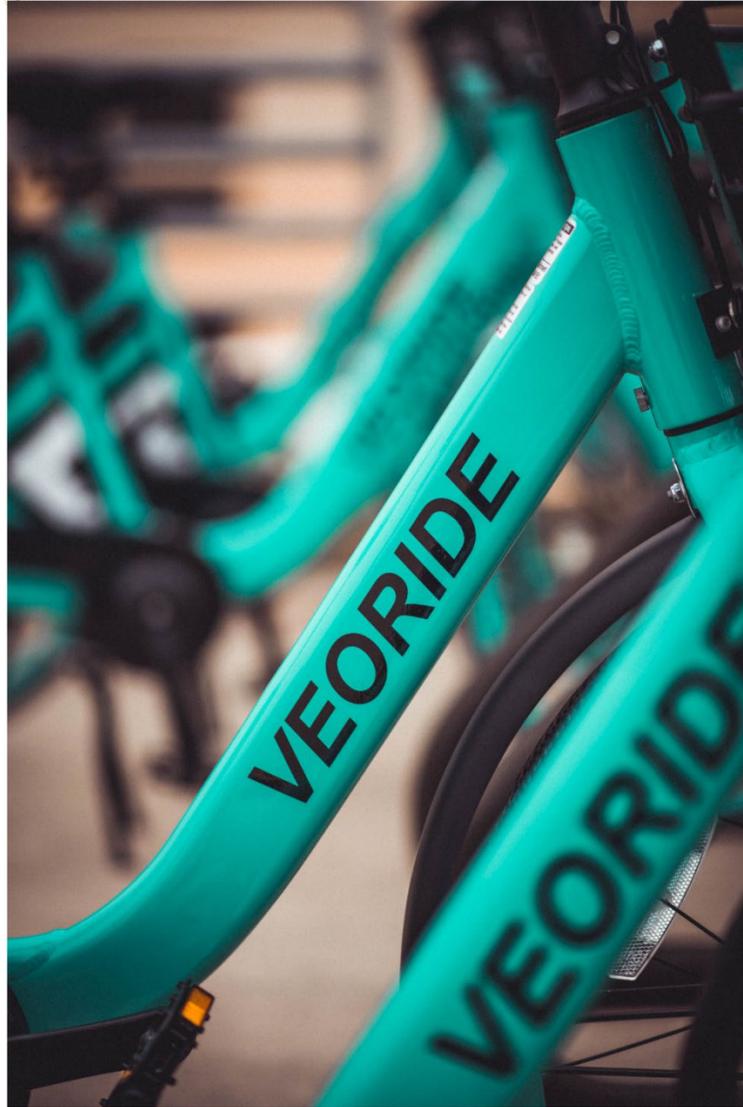
Community | Healthy Living | Personal Interest

Flourish is Texas A&M's official employee well-being program, focusing on community, healthy living, and personal interest.





Commitment Gets Results – *Supporting Shared Transport*



USERS

36,349

Total Users

- ▶ A **campus bikeshare** program would reduce crowding at bicycle parking facilities by lessening the need for privately owned bicycles on campus, and would **encourage non-riders to reduce dependence on motorized vehicles** and adopt a more sustainable and healthy means of transport.

Commitment Gets Results – *Supporting Alternative Fuels*



- ▶ Transporting Texas A&M University's 63,000 students, 5,800 employees, and numerous visitors to and across the institution's 5,000-acre campus has significant environmental, economic, and social impacts. As more campus users **choose alternative forms of transportation**, and as the campus fleet transitions to **alternatively fueled vehicles**, the greenhouse gas emissions and environmental impact of moving people and items around campus will decrease.



Commitment Gets Results – *Walkable City*



- ▶ Convert moving traffic lanes to expand sidewalks, install bike lanes and install parking
 - ▶ *Goal - share the streets*



Commitment Gets Results – *Walkable City*



- ▶ Convert moving traffic lanes to expand sidewalks, install pedestrian plaza, provide connectivity from convention center to park
 - ▶ *Goal - improve attendee experience, attract large conventions*



Commitment Gets Results – *Bike Lanes*



- ▶ Convert parking lane to install bike lane and promote connectivity within bike trail system
 - ▶ *Goal - share streets, promote alternative transportation*



Commitment Gets Results – *Bike Lanes*



- ▶ Convert moving traffic lanes to install bike lane to promote connectivity within bike trail system
 - ▶ *Goal - share streets, promote alternative transportation, on-street parking retained*



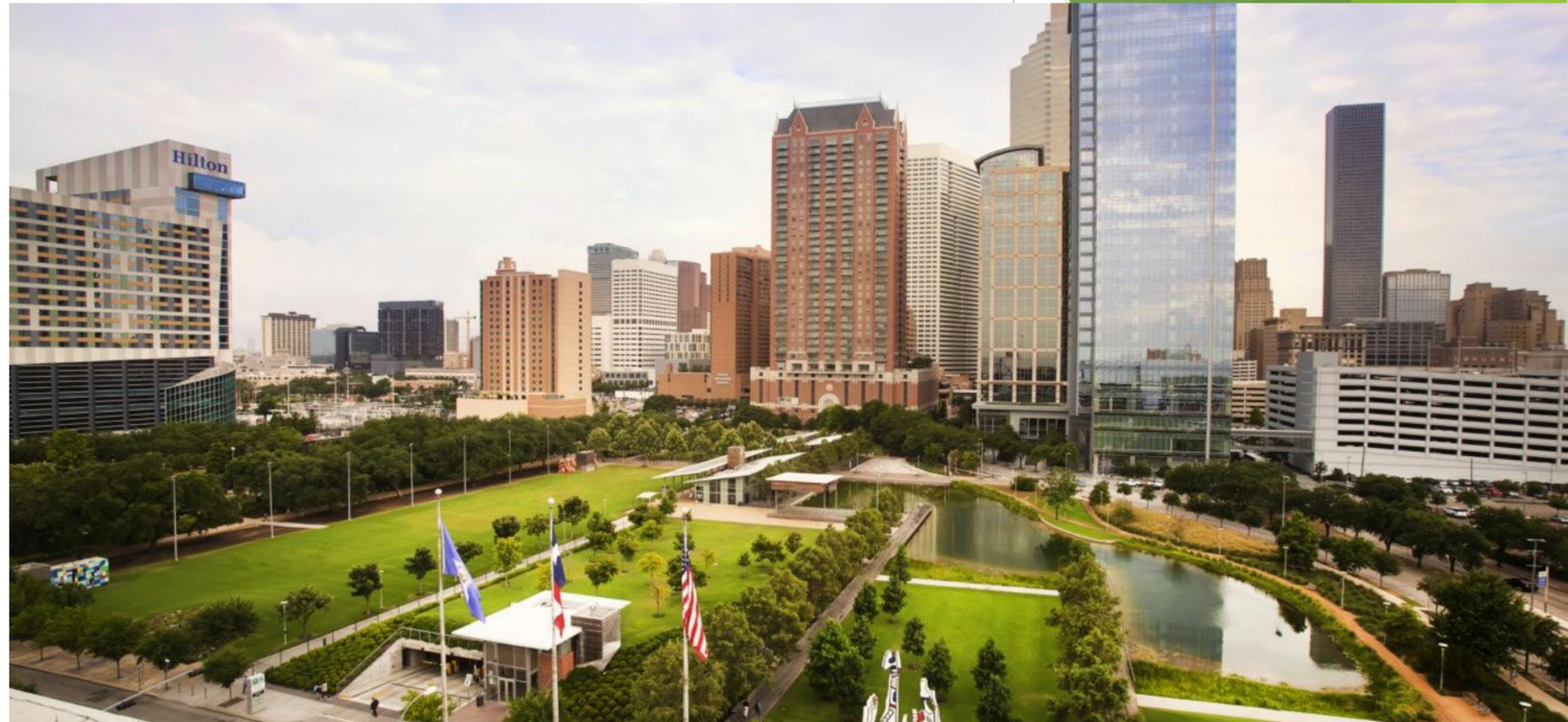
Commitment Gets Results – *Green Space & Connectivity*



- ▶ Convert parking lot to green space
 - ▶ *Goal - green space, flood mitigation, connectivity to Bayou trails*



Commitment Gets Results – *Green Space*



- ▶ Convert public parking to green space
 - ▶ *Goal - green space, economic development for Convention District*



Commitment Gets Results – *Green Space*



- ▶ Convert public parking to greenspace
 - ▶ *Goal - improve walkability*

T2 Executive Forum



PARK
HOUSTON

Commitment Gets Results – *Alternative Modes of Transportation*



- ▶ Convert public parking for car share
 - ▶ Goal - promote alt modes of transportation, reduce SOV



Commitment Gets Results – *Alternative Modes of Transportation*



- ▶ Convert employee parking for EV Fleetshare
 - ▶ *Goal - promote alt modes of transportation, reduce SOV, reduce carbon footprint*



Commitment Gets Results – *Smart Parking Policies*



GROUND FLOOR
BUFFALO BAYOU PARK MIXED-USE

OJB
Design Collective



- ▶ Convert free parking to managed parking
 - ▶ Goal - promote turnover

Commitment Gets Results – *Smart Parking Policies*



- ▶ Convert public parking for rideshare pick up/drop off
 - ▶ Goal - improve pedestrian safety, mitigate congestion caused by rideshare



What's Next?



- ▶ “A shift from a vehicle-centric campus to a pedestrian-focused campus requires investment in both transportation systems and the built environment.”
- ▶ “These investments include increases to on-campus transit capacity, relocation of parking to the perimeter of the campus, and improved connectivity with the surrounding community.”
- ▶ “Walking and biking support the University’s goals for student, faculty, and staff health and wellness and create a richer social environment with more opportunities for the exchange of ideas and chance meetings to collaborate and socialize.”



What's Next?

BUILD Grants
Better Utilizing Investments to Leverage Development
Transportation Discretionary Grants Program



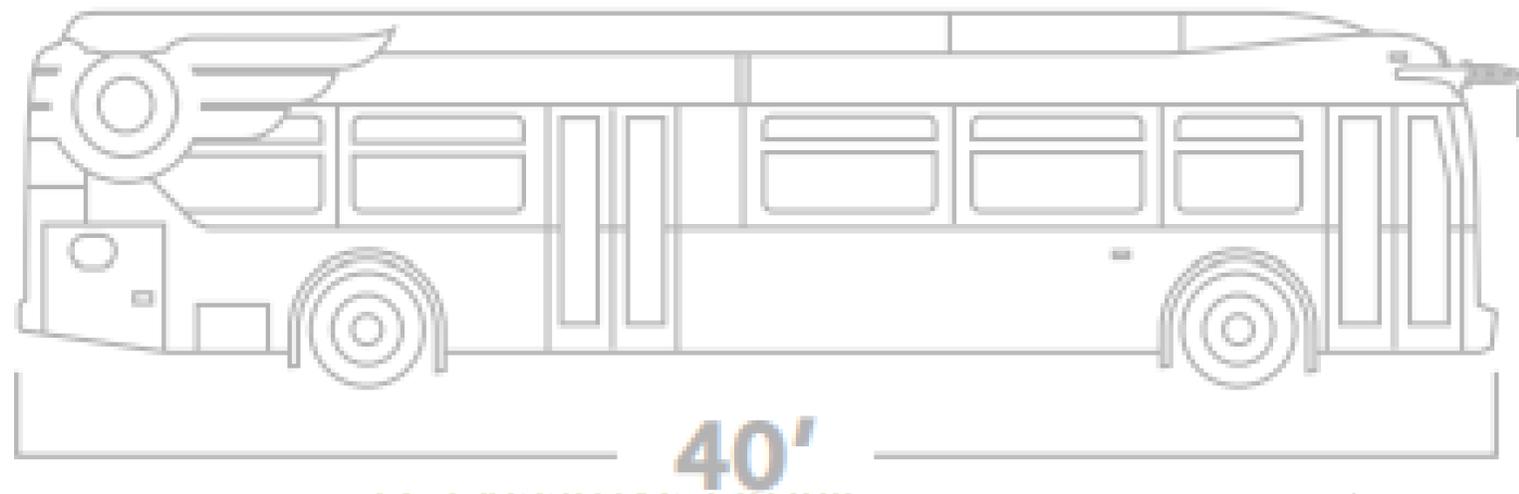
Increased emphasis on projects located in rural areas



Nearly \$1.5 billion ready for projects with a significant local or regional impact

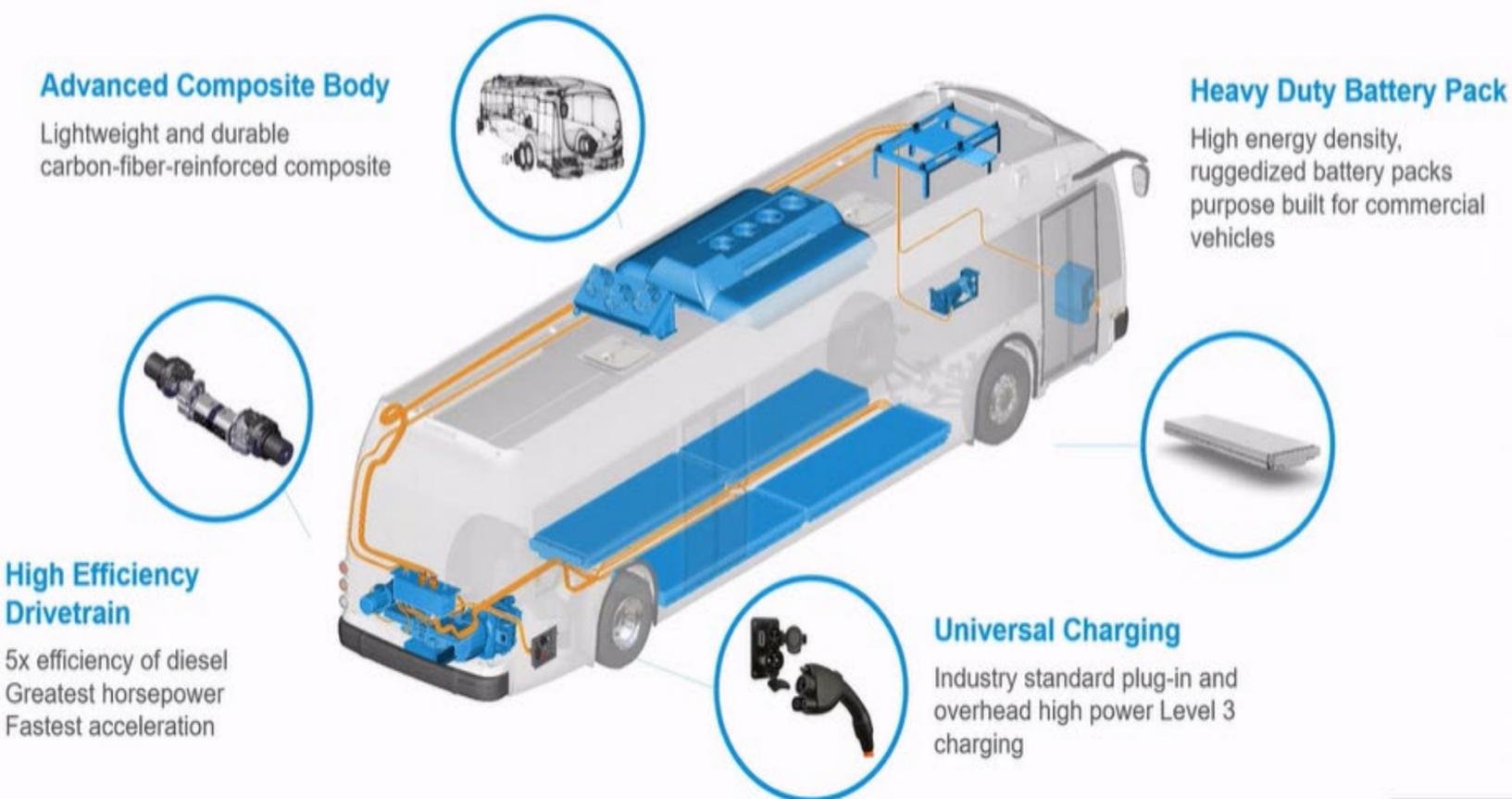


Apply by July 19, 2018





What's Next?



Protterra Battery Powered Bus



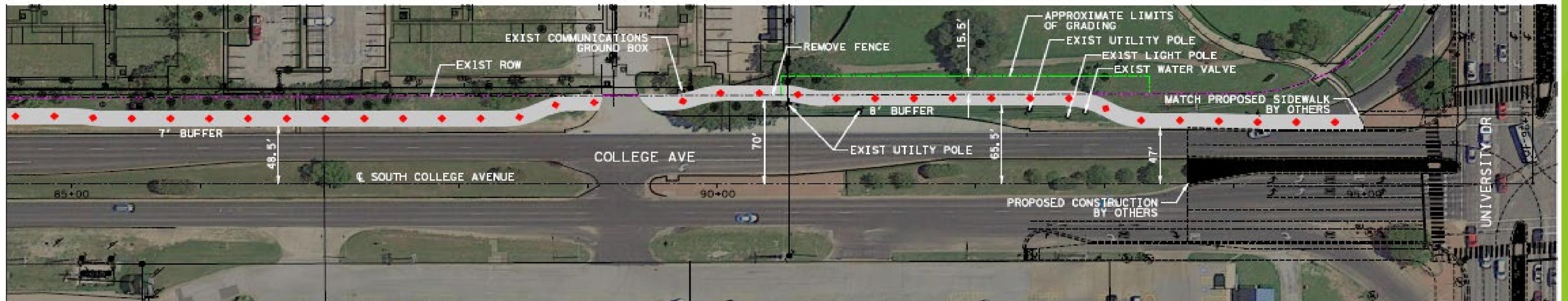
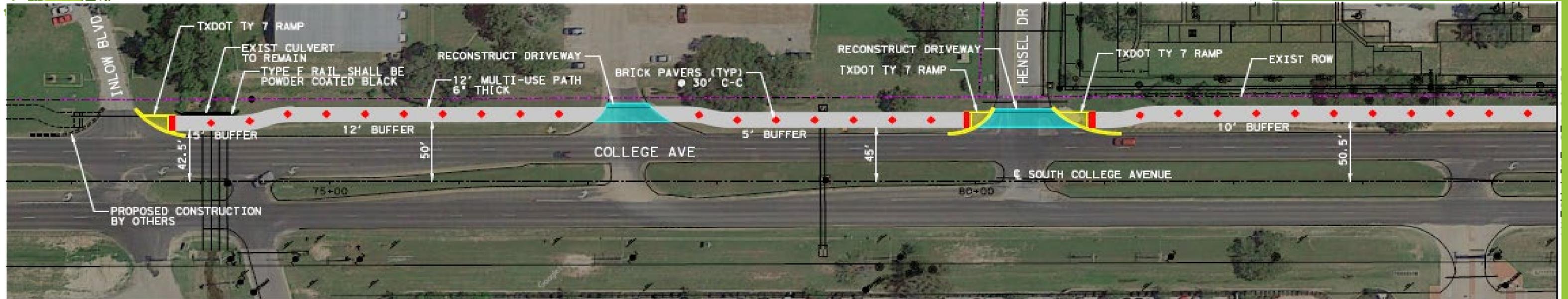
What's Next?



Charging Systems



What's Next in the Industry?



- Collaboration with cities, TxDOT and MPO for multiuse path

What's Next?



- ▶ Micromobility
- ▶ Unbundle Parking
- ▶ TDM Programs for large employers
- ▶ Expand Market Based Parking
- ▶ Autonomous Vehicles
- ▶ Improve Transit
 - ▶ *BRT*
 - ▶ *Routes*

PARTNER- SHIP

Opportunities increase when you help others win. A little win for a partner is a little win for you.

KEY PERSON *of* INFLUENCE.COM.AU