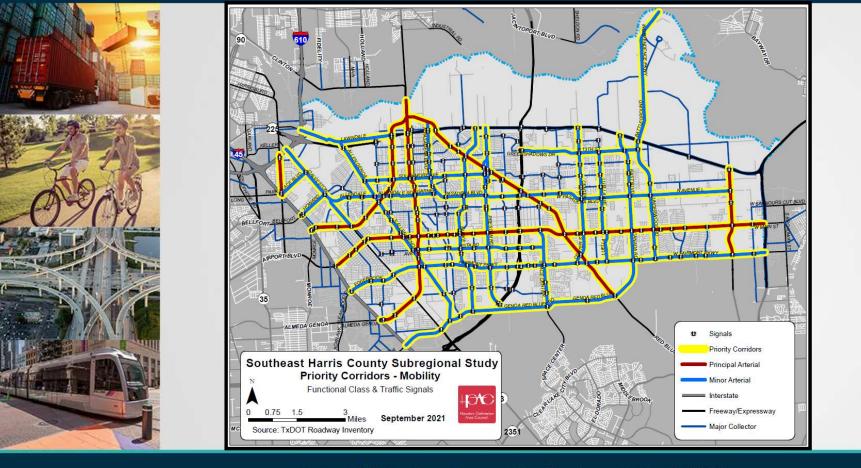
Update on the Southeast Harris County Subregional Study

Mike Burns, AICP TAC – 10/13/2021

Regional Collaboration • Transportation Planning • Multimodal Mobility

METROPOLITAN PLANNING ORGANIZATION

Study Area



Regional Collaboration • Transportation Planning • Multimodal Mobility

METROPOLITAN PLANNING ORGANIZATION

Introductions – Steering Committee

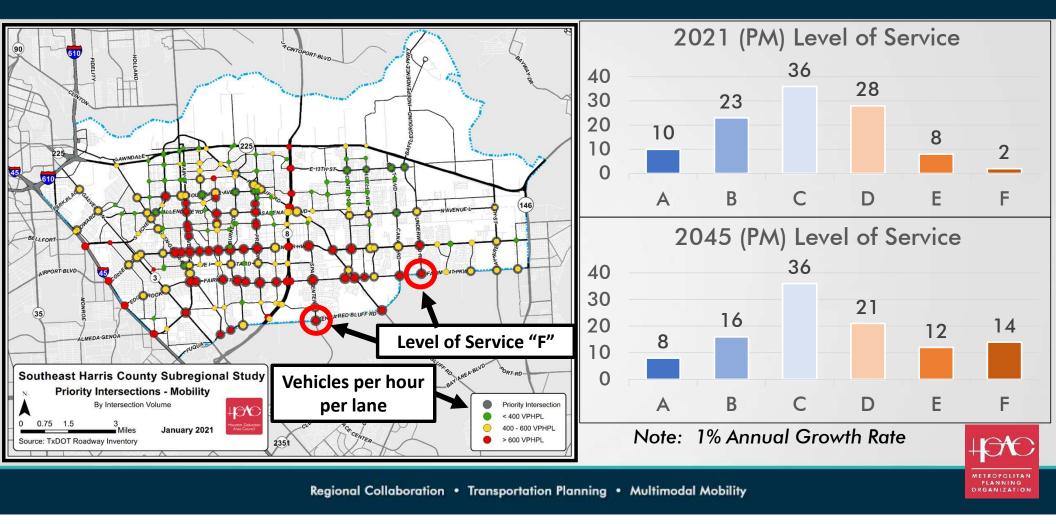
Representing	Name	Title
Port Houston	Bruce Mann	Director, Freight Mobility
Harris County	Bryan Brown	Senior Planner - Engineering Dept
Economic Alliance Houston Port Region	Chad Burke	President and CEO
City of Houston Public Works	Donald Buaku	Principal Planner
TXDOT	Jeffrey English	TxDOT
Gulf Coast Rail District	Katherine Parker	Executive Director
Harris County Transit	Ken Fickes	Director - Transit Services
Harris County Precinct 2	Milton Rahman	Director of Engineering
La Porte Police Dept	Sgt Bennie Boles	Police Sergeant
La Porte	Teresa Vazquez-Evans	Planning & Development Director
City of South Houston	Arthur Olivera	Street and Bridge
Deer Park	Adam Ballesteros	City Engineer
Pasadena	Sarah Benavides	Senior Assistant Director, Public Works
Harris County	Loyd Smith	ALTERNATE - Harris County
City of Houston Planning	Sharon Moses-Burnside	ALTERNATE - City of Houston



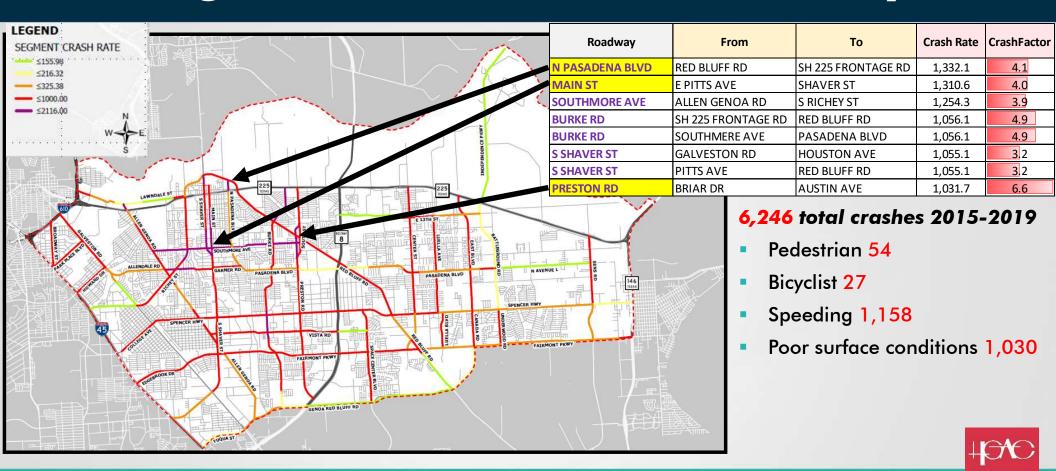
Measurable Goals

Goal	Description	Measures					
Safety	Improve safety on the Vision Zero high-injury network with a goal of zero fatalities	Predicted changes to crash rates, number of conflict points					
Mobility	Expand and accommodate all roadway users by incorporating Complete Streets principles, as context-appropriate	Connectivity, gaps, cross section, multimodal					
Mobility	Increase operational efficiency and reliability of major intersections and roadways	V/C, LOS, travel time					
Economic	Provide mobility options for residents and visitors	Connectivity, cross section, economic impact, broadband					
Economic	Increase truck travel time reliability on the regional freight network	Travel time, delay, stops					
Maintenance	Achieve a state of good repair for transportation assets	Pavement section & condition, funding, policy					
Maintenance	Improve transportation asset resiliency and stormwater capacity	Pavement section, cross section, truck routes, best practices					
Natural / Cultural Resources	Reduce transportation emissions	Emissions, delay, stops					
Natural / Cultural Resources	Minimize impacts requiring mitigation	ROW required, access					

Existing Condition – Intersection Congestion



Existing Conditions – Corridor Safety



METROPOLITAI

Safety – Mitigation "Toolbox"





Safety – Median Improvements



Two-Way Left-Turn Lane (TWLTL)

Raised Median



Safety – Median Improvements

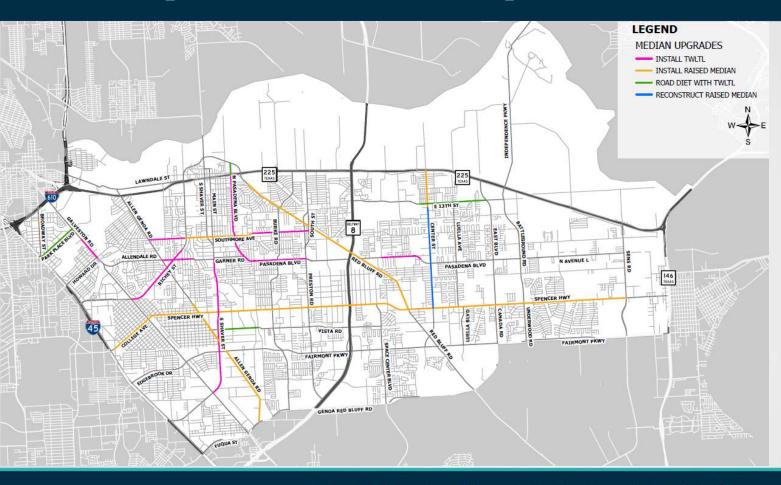




Road Diet



Safety – Median Improvements



Considerations

- Crash data
- Turning traffic
- Land uses
- Number of driveways
- Right of way

Recommendations

- Raised median 25 miles
- Two-way Left Turn Lane 13 miles
- Road diet 4 miles
- Reconstruct raised median 2 miles

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ORGANIZATION



Safety – Driveway Consolidation





Driveway Consolidation



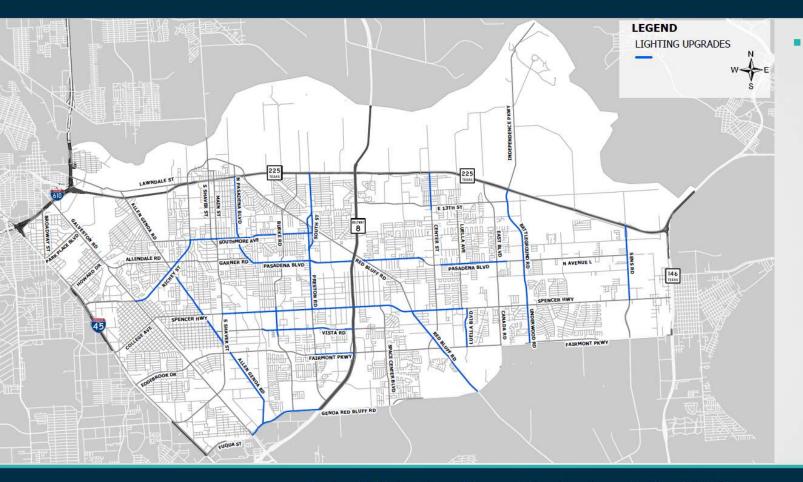
Safety – Access Management



- 17 miles of corridors
- Consolidate driveways
- Reduce access points
- Prevent cut-through traffic



Lighting Improvements



- Study corridors with inadequate lighting
- 44 miles (32%)

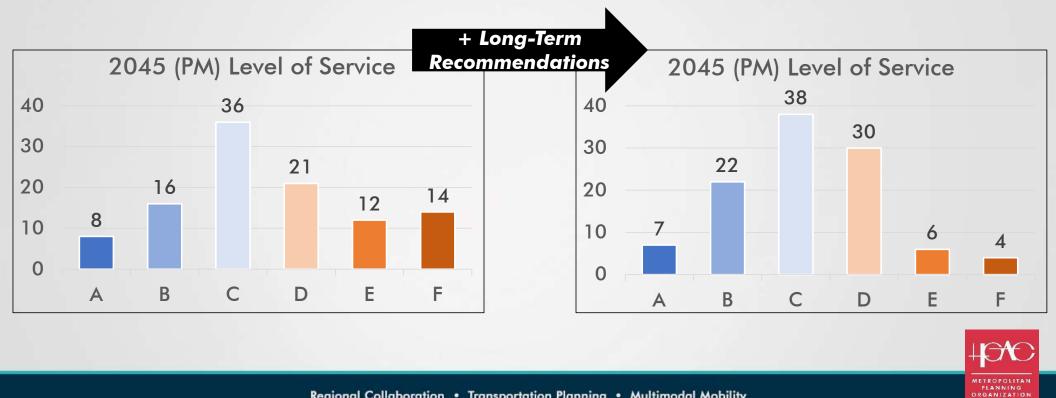


Capacity – Example Mitigations



Level of Service with Improvements <u>(2045 PM)</u>

LOS Before and After



Mobility - Traffic Signal Improvements

Mid-Block Pedestrian Crossing



Pine Mill Ranch Drive, Katy, TX

Rectangular Rapid Flashing Beacon (RRFB)



Roesner Rd, Katy, TX

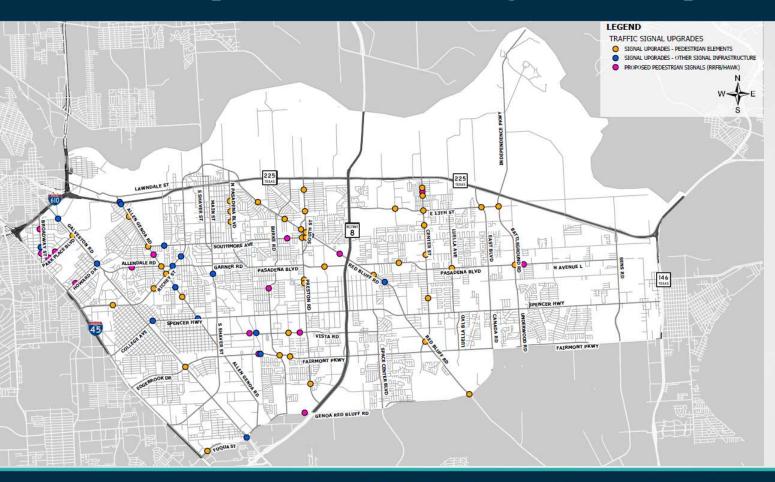
High Intensity Activated Crosswalk (HAWK)



Mobility - Traffic Signal Improvements



Mobility - Traffic Signal Improvements



- Mid-block pedestrian crossings
- 16 crossings
- Pedestrian facilities at intersections
 - 41 signals
- Traffic signal upgrades / repairs
- 16 signals



Mobility - Curb Ramp Improvements



Sidewalk Improvements



Damage BUCHHEITCONCRETE.COM



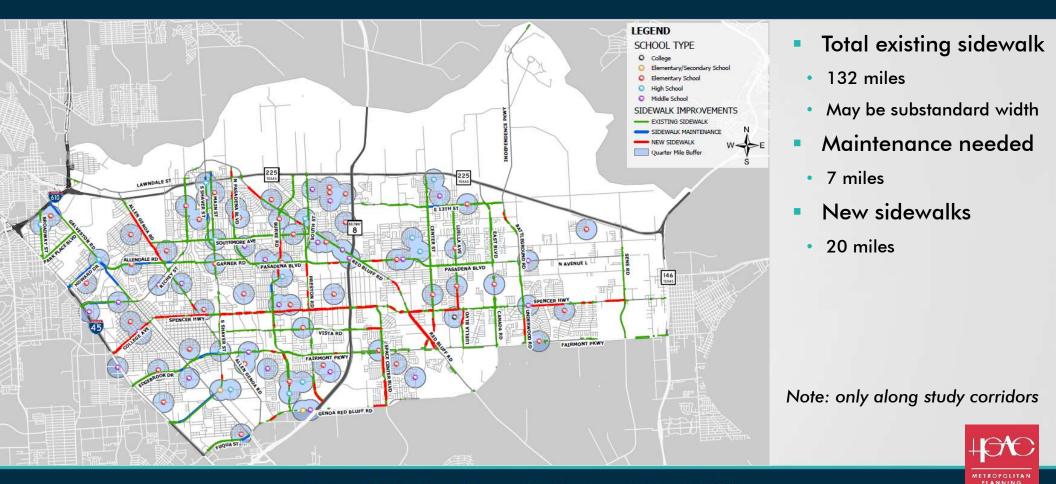
Obstructions PLANNING.ORG



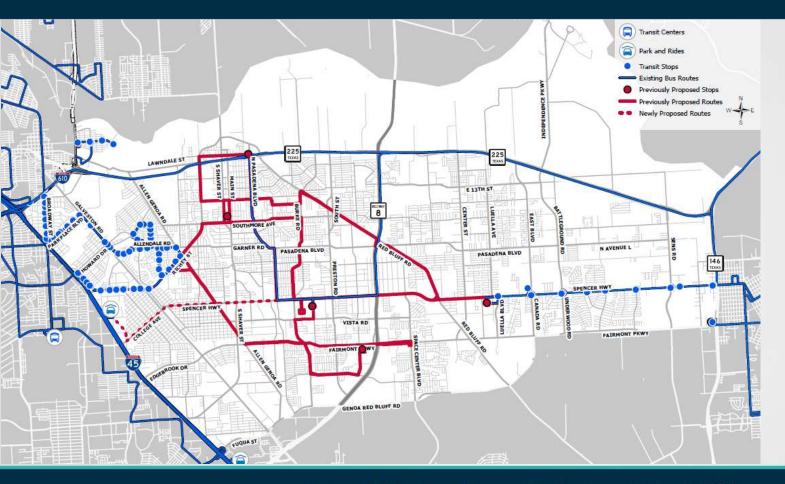
Overgrown Grass HOUSTONPUBLICMEDIA.ORG



Mobility - Sidewalk Improvements



Mobility - Transit Recommendations



- Documents previous Harris County Transit recommendations
 - Completed using ridership data and public outreach
- Proposes one new connection to park and ride

Note: Feasibility study is recommended

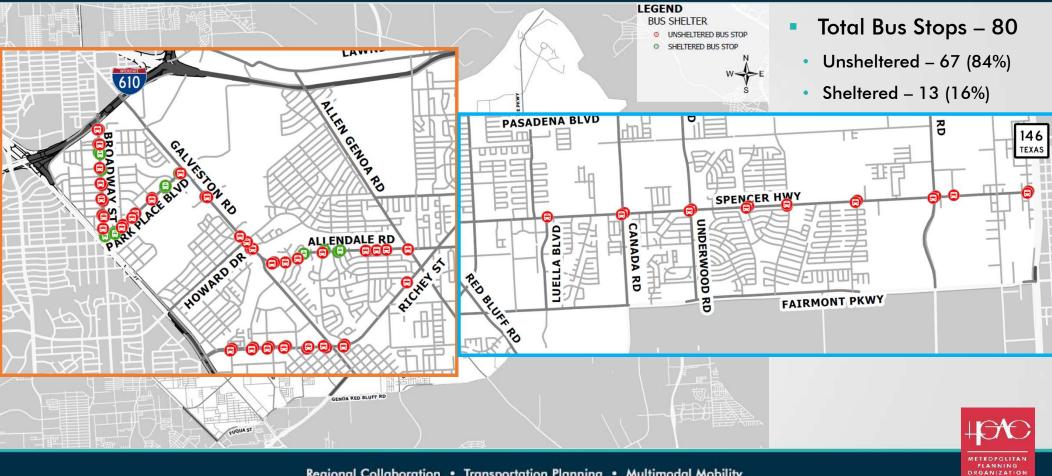


Mobility - Bus Stop Shelters

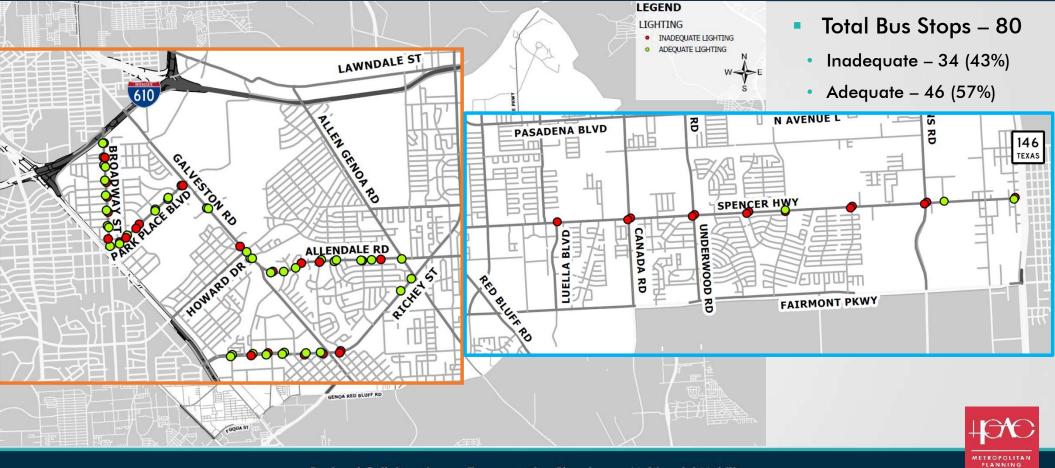




Mobility - Bus Stop Shelters



Mobility - Bus Stop Lighting Improvements



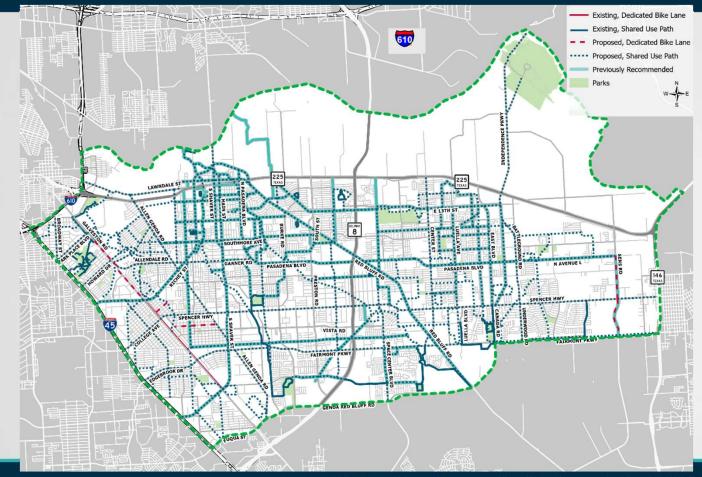
Shared Use Path



- Separated from motor vehicle traffic
- Comfortable for a wide range of users
- Provides connectivity to other bicycle / pedestrian facilities
 - not always direct connectivity to destinations



Active Modes Recommendations

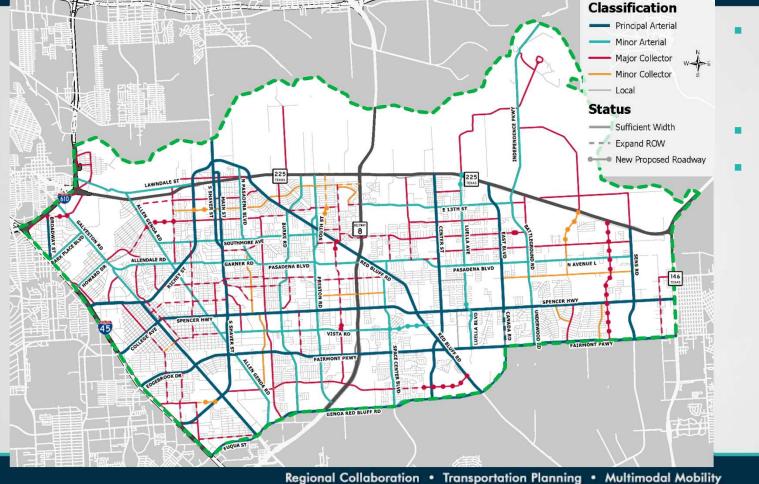


- Documents existing facilities (91 miles)
- Uses proposed facilities from other planning efforts
- Proposes high comfort bicycle facilities (244 miles)

Note: Additional design-level analysis is needed; ROW may be required



Thoroughfare Recommendations



- Right of Way Demand
 - Shared Use Path
 - Travel/Turn Lanes
- Future Connections
- Intersection Realignments



Schedule



Phase Phase 1							Phase 2														
Year		2020						2021										2022			
	Month		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
ent	Steering Meeting			•		-•-					-	•		•				-0-		-0	
Public	Stakeholder Meeting																•				
	Public Meeting								-•-												
Project Task							sting C	onditio		Pro	ject De	velopn		→ Fir	nal Rep	oort —	•				



Next Steps



Thank You!



For More Information:

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