



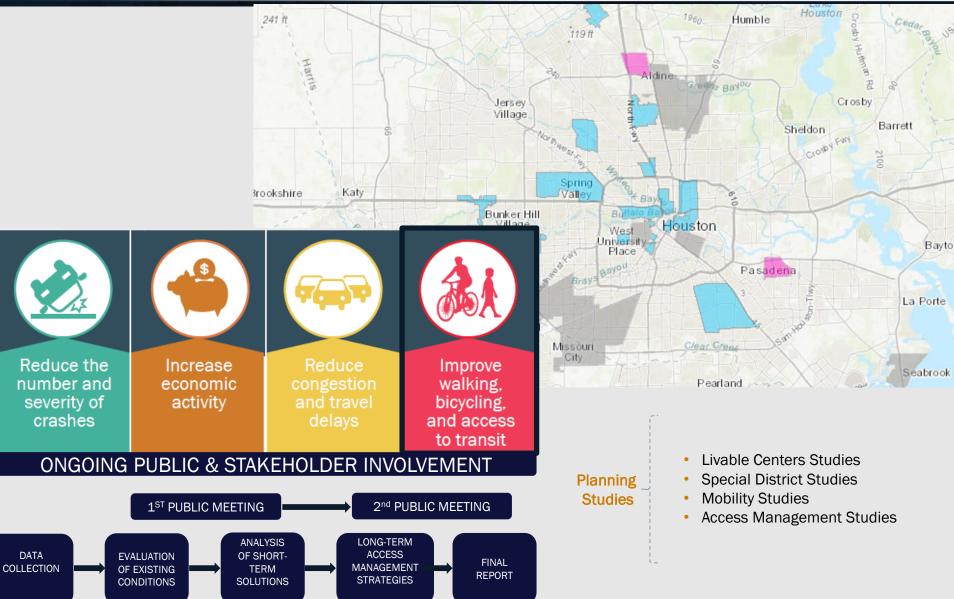
TRANSPORTATION CORRIDOR PLANNING

Active Transportation



8/20/2019

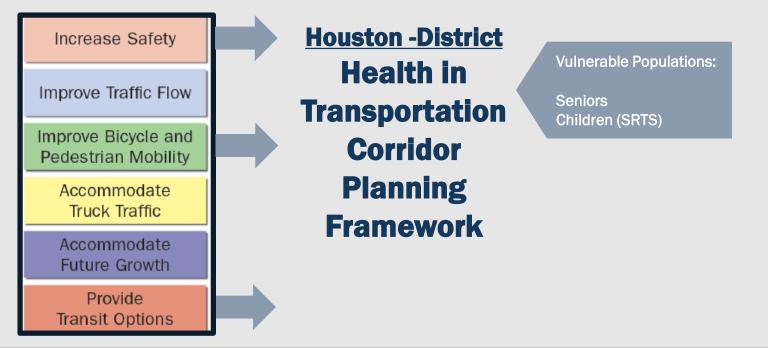
Planning Studies



Health in Transportation Corridor Planning Framework

Goal:

- Incorporate health outcomes from improvements in the built environment and improvements in safety and feasibility of pedestrian, bicycle and transit mobility (Active Transportation)
- Planning Considerations:
 - Outcomes from improvements in the built environment and improvements in safety and feasibility of pedestrian, bicycle and transit mobility
 - Short-range, medium-range, and long-range infrastructure recommendations
 - Mobility needs and priorities of seniors, as well as safe routes to school for children



Balanced portfolio of transportation choices supports health.

Physical activity: active transportation mobility choices

- Seniors
- Children (SRTS)

Air Quality: Reduction in VMT

- Safe Routes to School (SRTS) value of car idling reduction by converting school drop-offs by car to ped/bike trips
- Calculating the value of converting vehicle trips to ped/bike trips

Safety

- Injuries and deaths associated with ped/bike crashes
- Risk Factors

Input into the Framework steps

- Plug-in Survey
- Recommendations

Case Study Report

• Spring Branch Special District Study (urban area in the west side of Houston along I 10)

Health in Transportation Corridor Planning Framework

Health in Transportation Corridor Planning Framework





Identify Transportation and Health Needs, Resources, and Priorities



Develop Goals and Objectives that Promote Health in the Community



Establish Evaluation Criteria that Include Public Health

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Develop and Evaluate Alternatives and their Health Impacts



Identify Alternatives that Support Health in the Community



STEP 1: Spring Branch Special District Study

STEP 1 – 3, 6: Spring Branch Livable Centers Study

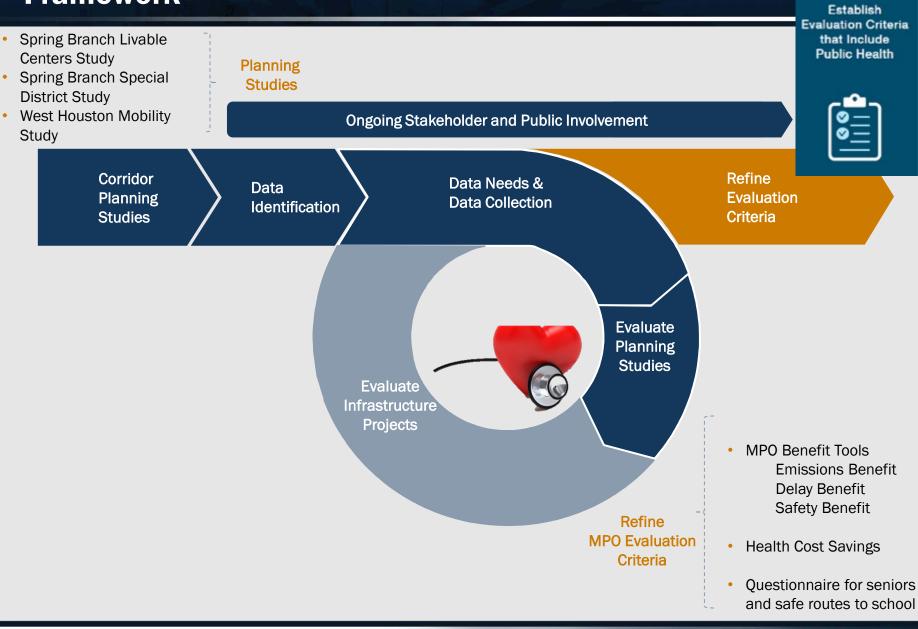
STEP 1-3, 6: West Houston Mobility Study

Spring Branch Livable Center Study 07/01/2017-12/31/2018 Step 5: Develop and Evaluate Alternatives and their Health Impacts Spring Branch Special District Study 05/01/2018-05/31/2020 Step 1: Define Transportation Problems and Public Health Issues

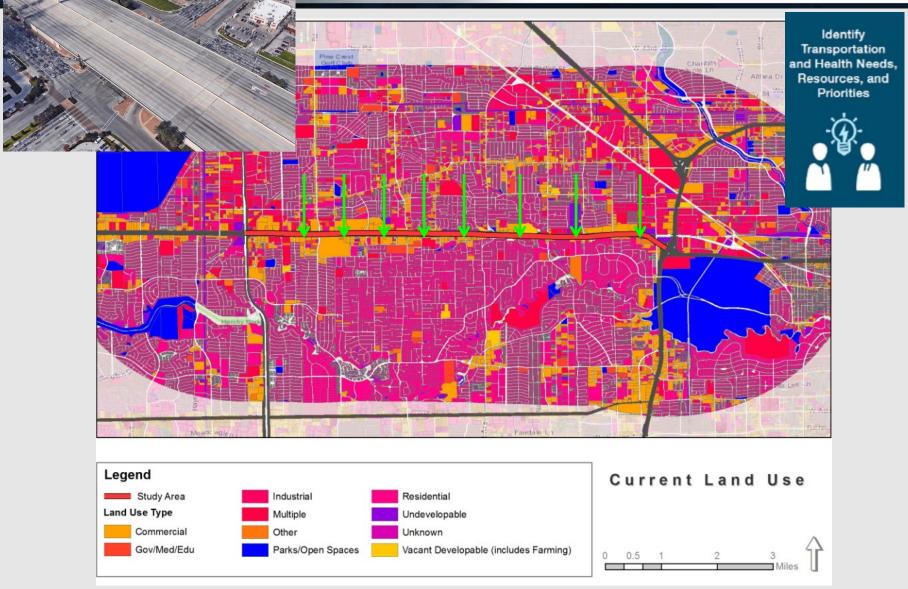
West Houston Mobility Study 03/01/2012-10/31/2015 Step 6: Identify Alternatives that support Health in the Community



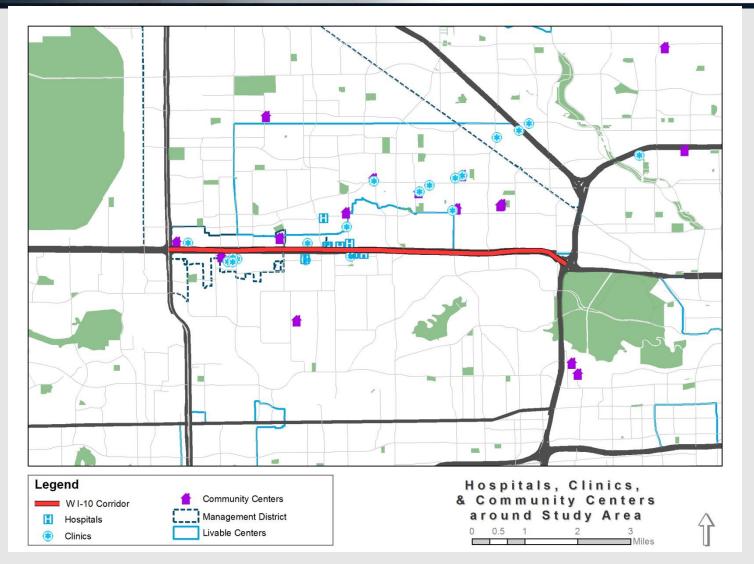
Framework



3-Mile Buffer around 1 10 W Corridor



Medical Facilities & Community Centers around 1 10 W Corridor

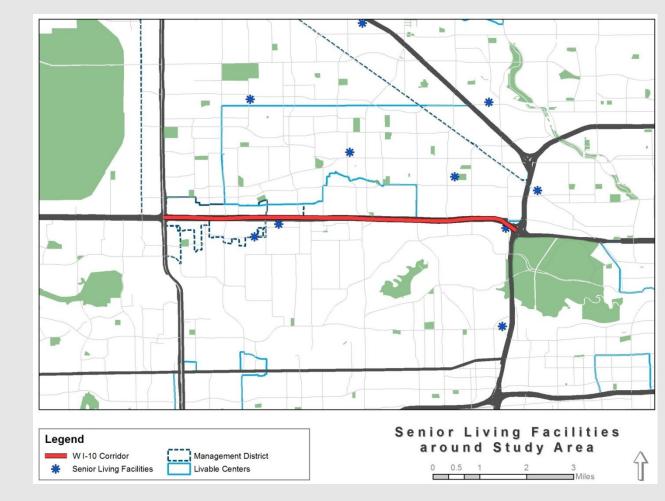


Access to a wide range of services including medical facilities.

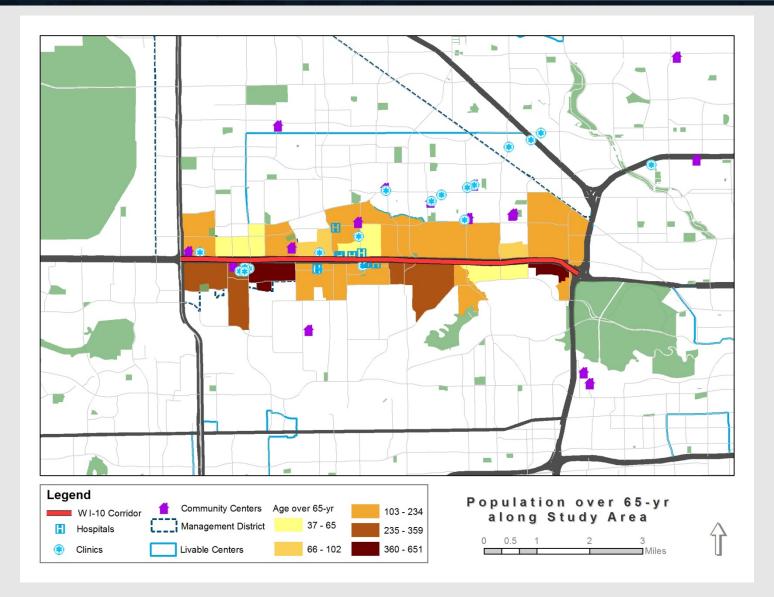
Senior Facilities

- Planning Considerations:
- Transit dependent
 - Need to improve transportation options for seniors
 - Needed infrastructure improvements near transit stops
- Vulnerable Population

 underserved and under-connected senior community



Senior Population around 1 10 W Corridor



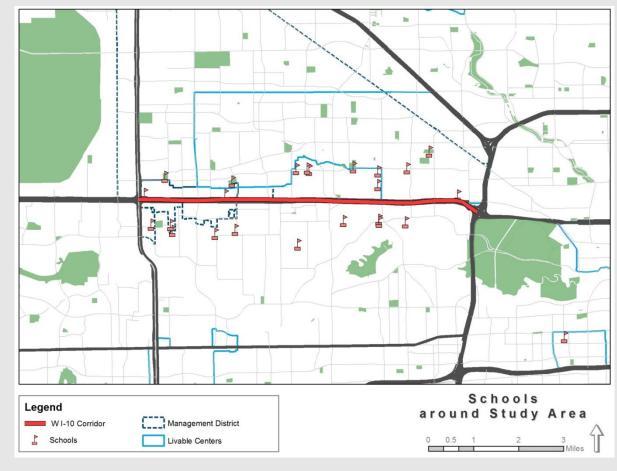
Safe Routes to School

Mobility Goal:

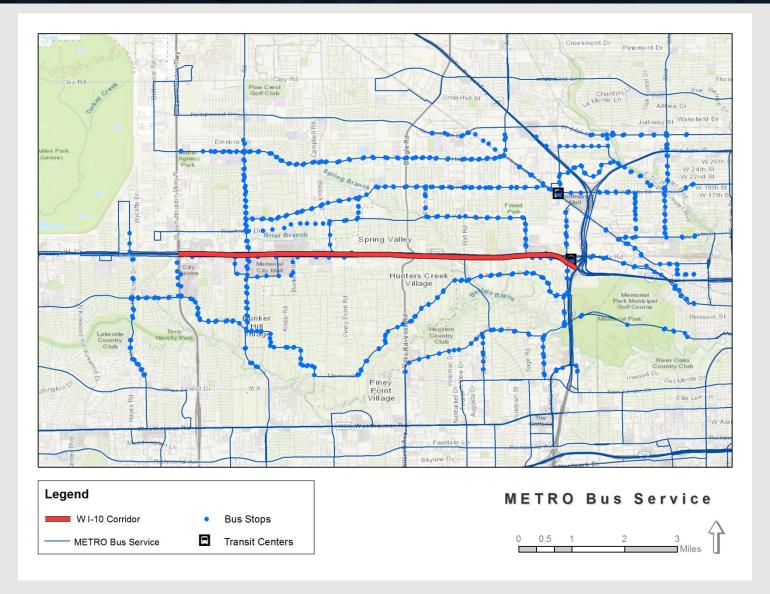
Make walking and bicycling to school safer and more accessible for children and their parents

Planning Considerations:

- Need to improve
- route to school
 - Visibility
 - Infrastructure
 - ADA compliance



Transit Facilities around 1 10 W Corridor



STRAVA Data

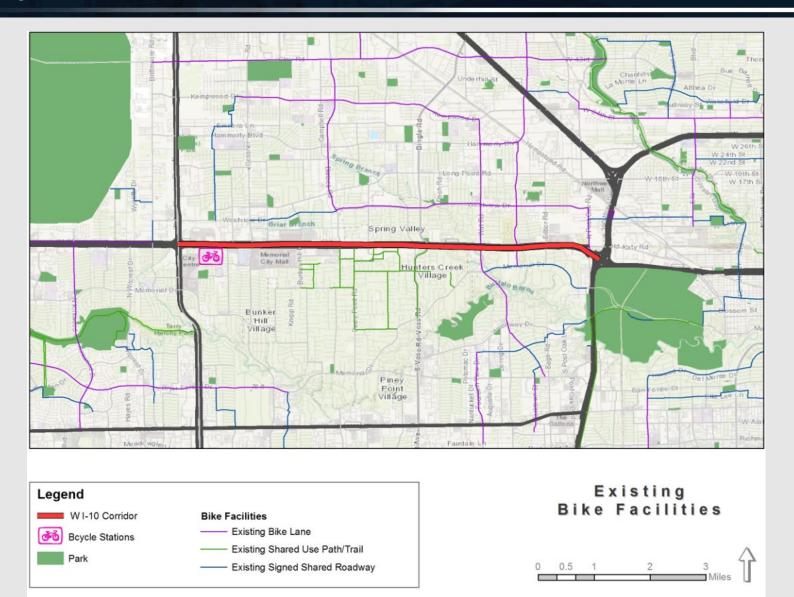
- TxDOT purchased
 Strava dataset
 Considerations:
- Detailed user data for bicycle and runner counts
 - use the STRAVA APP
 - level of magnitude estimates for these users now Surrogate for all users



- Usefulness

 Planning, design, traffic, permitting and benefit estimation

Bicycle Infrastructure



Stakeholder & Community Outreach

Core Group Meeting Kick-off Meeting Scope of Work 	Participants	 Ped/Bike Group Transit Group Seniors Group Safety & Access Mgt 	Define Transporta Problems Public Hea Issues
 Follow-up meetings 		H-GAC Other of Houston	
 Spring Branch Meeting: Kick-of Meeting Scope of Work 	Core Group	 City of Houston METRO Bike Houston 	
 Steering Committee meetings 	Work Group	• SBMD • HPB	
Seniors WorkshopSafety Workshop		HGACLocal Leaders	

• Developed plug-in survey for seniors



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Results from Community Outreach: NW Transit Connector

TxDOT seeking community input on area bike-trail projects

February 13, 2019 by Landan Kuhlmann – 1 Comment

Feb. 28 is the deadline for public input on three proposed bike trail projects that would have a direct impact on cyclists and pedestrians in the area, most notably the Heights.

Texas Department of Transportation spokesperson Emily Black said there have been ongoing conversations about multiple local projects – a Memorial Park Pedestrian connector, a Heights/MKT trail connector and a Northwest Transit Center connector – since



a neighborhood group reached out to TxDOT with ideas in early 2018. Proposed projects were submitted to the Houston-Galveston Area Council for consideration in October 2018.

"These specific community needs were identified and relayed to TxDOT by a citizens group, so we decided to move forward with the projects," Black said. "The proposed projects connect to existing trails to make walking and biking a safer, more convenient alternative mode of transportation." Develop Goals and Objectives that Promote Health in the Community



NW Transit Connector



Public Comments

Mobility Goal:

 Access to a range of Transportation options

Planning Considerations:

- Additional Destinations
 - Need to improve transportation options
 - Afton Pool
 - W 11th Street Park
 - Needed infrastructure improvements near transit stops

access Use Speed connection minute anes former passagemere sup bui eas transportation Loop application Park opportunity safegood considered stations soo fund swim because north just connect changer connections game connector, Thank all due people Mall. relativelv ride possible east trails Instal ing need shared-use -modal walkmul under extended Street description make great road Pool bikeway Northwest east-west provides around between White mile High future Houston/Dallas Oak Shared bus comments West via Westview public Bayou area

Progress



	Health						
Safety	ety Progress: To Date		Next Steps				
Coordination & Part • COH Vision Zero • TxDOT Vision Zero • Traffic Safety Coo the Houston Dist • FHWA: Pedestria Action Plan • FHWA: RSA – In Audits COH	ero 2050 alition in rict an Safety	 Data Collection Stakeholder and Public Engagement Questionnaire Tool – Seniors Secured funding for Off- street ped/bike facility connecting to NW Transit Center 	 Evaluate Alternatives in Previous Planning Studies Refine MPO Evaluation tools: Safety, Delay, Emission (VMT red., Idling) Develop Health related inputs for MPO Evaluation tools Childhood Obesity COH – Choices (Harvard Univ.) Questionnaire Tool SRTS 				

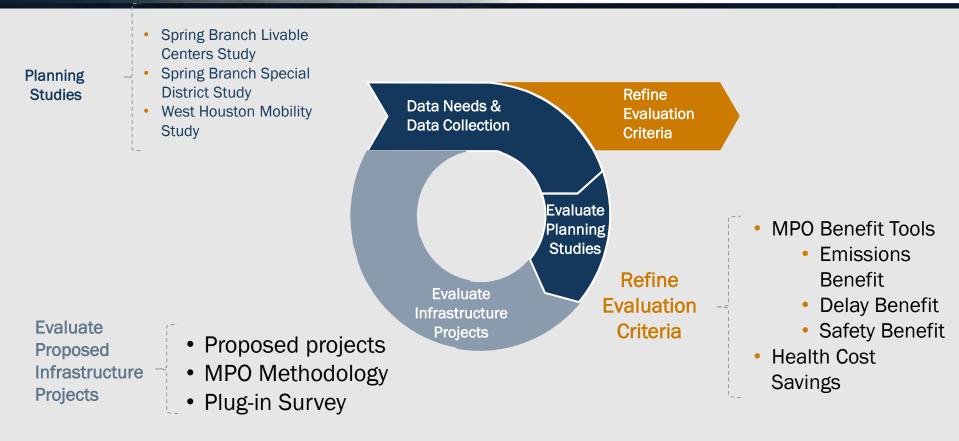
Pedestrians don't come with airbags.

Slow down and watch for pedestrians.





Next Steps



Example: MPO Tool

	ومنازية والمربعة والتكري والمنافع		
Project Information			Data entered by the sponsors
Name:	Montrose - Accessibility	y to Transit	HGAC regional travel demand model data provided by HGAC
Application ID Number:		Í	Data populated/calculated based on inputs
Sponsor ID Number (CSJ, etc.):	N/A		Benefits calculated by the template
Project County	Harris		
	_		
Proposed Improvements Information			
Year Open to Traffic? (Must be >=2021)	2021		
Type of Improvement	Paved Shoulder/Shared	d Use path	
Facility Type	Freeway		
Average Roadway Speed (mph)	39		
Service Life of Project	12		
Daily Travel Demand			
Number of New Daily Users in Year Open to Traffic	353		
Average One way Trip Length	5		
2018 Peak Period Traffic Volume	103,444		
2025 Peak Period Traffic Volume	103,439		
2045 Peak Period Traffic Volume	117,134		
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OUTPUTS			
Benefit Results			
Discounted NOx Benefits @ 7% (2018 \$)	\$2,215.29		
Discounted VOC Benefits @ 7% (2018 \$)	\$108.33		
Total Emissions Benefit Results	40.000.00		
Discounted Emissions Benefits @ 7% (2018 \$)	\$2,323.62		
Emissions Reductions (Life of Project = 12)	1.05		
NOx Emission Reductions (tons/year)	1.35		
VOC Emission Reductions (tons/year)	0.26		

Questions?

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