Southeast Harris County Subregional Study

Mike Burns, AICP
Mike Feeney, PE
Steering Committee Meeting 2 – 1/27/2021

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Regional Collaboration • Transportation Planning • Multimodal Mobility

Steering Committee - Meeting 2 Agenda

- Agenda:
  1. Big Picture Open Discussion – 15 minutes
  2. Vision, Goals & Metrics – 20 minutes
  3. Network Screening – 15 minutes
  4. Steering Committee Comments – 35 minutes
  5. Next Steps – 5 minutes

H-GAC SOUTHEAST HARRIS COUNTY
SUB-REGIONAL STUDY
RFP: TRN19-04 | August 2019

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Kimley »Horn

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Open Discussion

- What does success look like in this project?
- What are your priorities?
- What are the biggest challenges to and opportunities from transportation in this area?
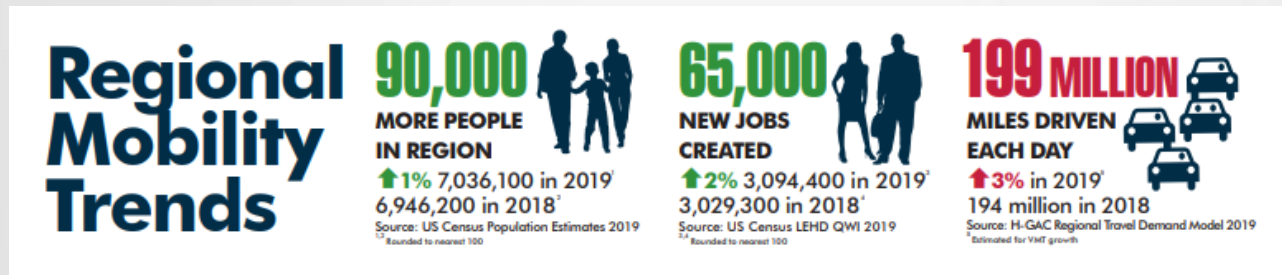

Southeast Harris County Subregional Study Area
☐ Study Area

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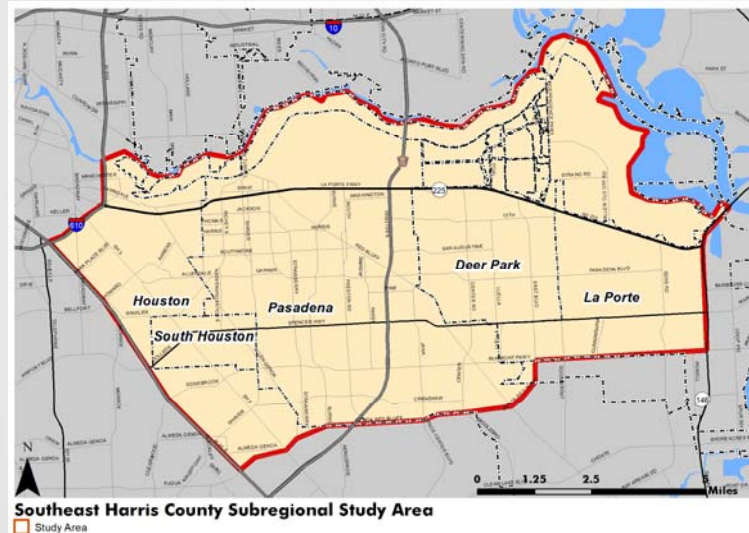
Vision – For Review

- Vision:
  - Recommend improvements to address multimodal transportation, development, and economic policy needs in the subregion that align with H-GAC's goals of mobility, safety, economic competitiveness, transportation asset condition, and natural and cultural resources

Regional Mobility Trends

90,000 MORE PEOPLE IN REGION
↑1% 7,036,100 in 2019[1]
6,946,200 in 2018[2]
Source: US Census Population Estimates 2019
[1,3] Rounded to nearest 100

65,000 NEW JOBS CREATED
↑2% 3,094,400 in 2019[3]
3,029,300 in 2018[4]
Source: US Census LEHD QWI 2019
[3,4] Rounded to nearest 100

199 MILLION MILES DRIVEN EACH DAY
↑3% in 2019[5]
194 million in 2018
Source: H-GAC Regional Travel Demand Model 2019
[5] Estimated for VMT growth

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Goals and Metrics – For Review

Goals (metrics) - 1 of 2:

- <u>Mobility</u> – Expand and accommodate all roadway users by incorporating Complete Streets principles, as context-appropriate (connectivity, gaps, cross section)

- <u>Mobility</u> – Increase operational efficiency and reliability of major intersections and roadways (v/c, LOS, travel time)

- <u>Safety</u> – Improve safety on the high-injury network (predicted changes to crash rates, number of conflict points)

- <u>Economic</u> – Provide mobility options for residents and visitors (connectivity, cross section, economic impact, broadband)

- <u>Economic</u> – Increase truck travel time reliability on the regional freight network (travel time, delay, stops)

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Goals and Metrics – For Review
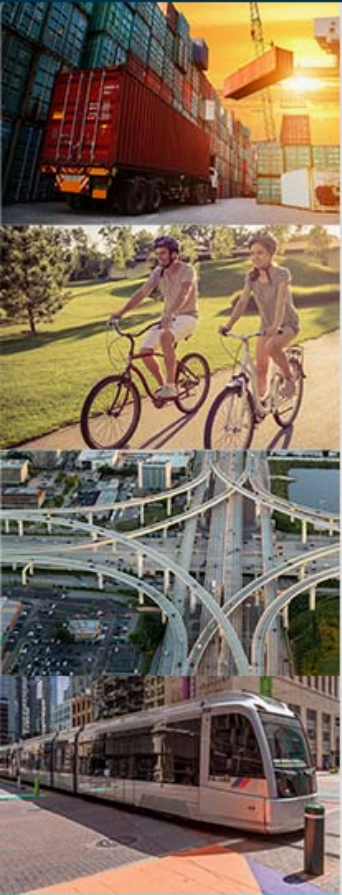
Goals (metrics) - 2 of 2:

- <u>Maintenance</u> – Achieve a state of good repair for transportation assets (pavement section & condition, funding, policy)

- <u>Maintenance</u> – Improve transportation asset resiliency and stormwater capacity (pavement section, cross section, truck routes, best practices)

- <u>Natural/Cultural Resources</u> – Reduce transportation emissions (emissions, delay, stops)

- <u>Natural/Cultural Resources</u> – Minimize impacts requiring mitigation (ROW required, access)
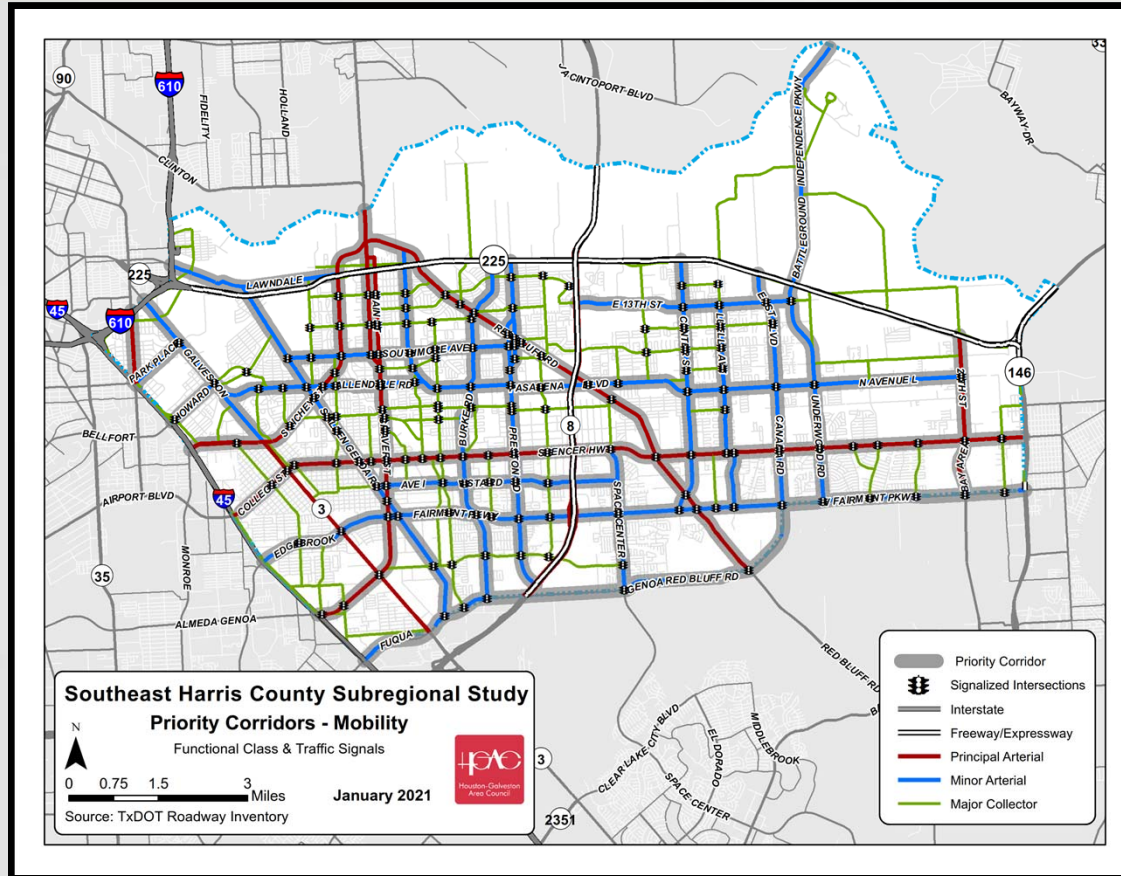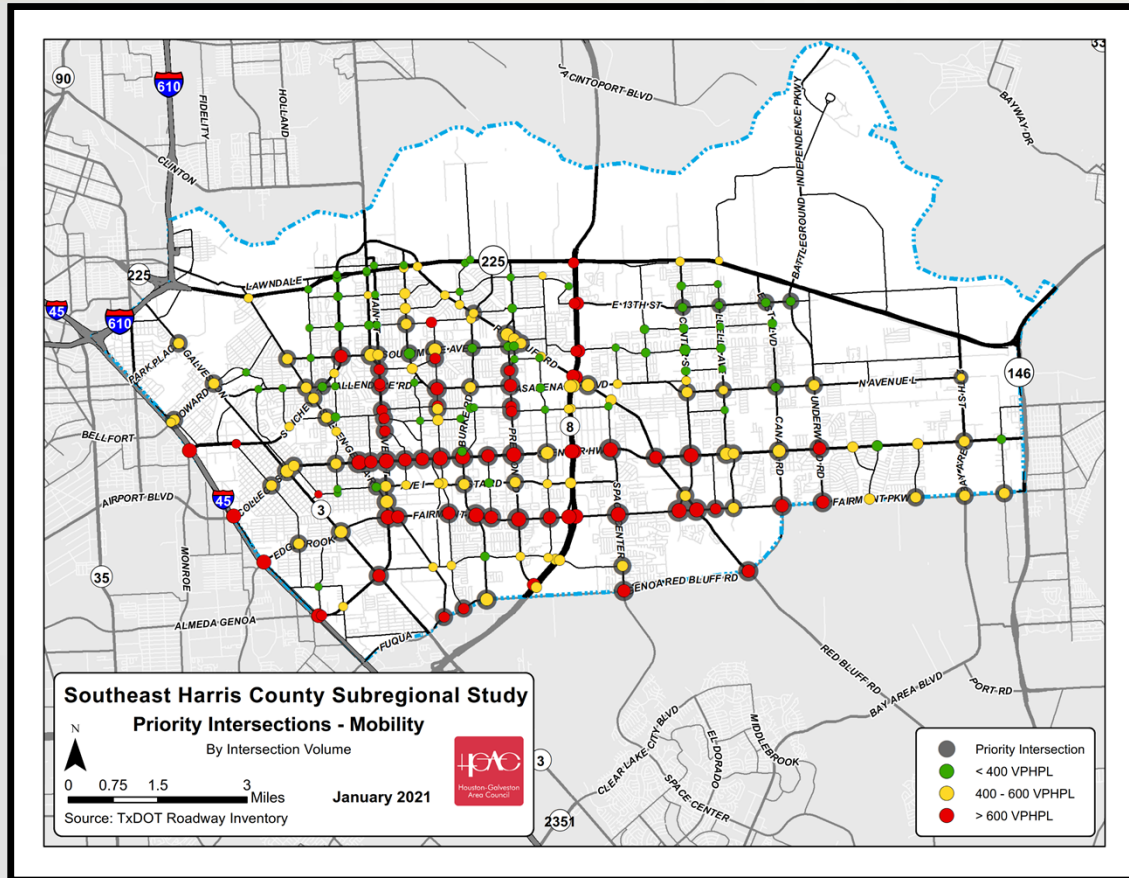
Network Screening - Overview

Network screening defines focus areas (intersections and corridors) for further evaluation based on an evaluation of key indicators

- Corridor Mobility – Identify 25 high-congestion corridors

- Intersection Mobility – Identify 100 high-congestion intersections

- Segment Safety – Identify 25 miles of high-crash segments

- Intersection Safety – Identify 50 high-crash intersections

Network Screening – Corridor Mobility

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Priority Corridors - Mobility
Functional Class & Traffic Signals

January 2021

Source: TxDOT Roadway Inventory

Legend:
- Priority Corridor
- Signalized Intersections
- Interstate
- Freeway/Expressway
- Principal Arterial
- Minor Arterial
- Major Collector

Network Screening – Intersection Mobility

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Priority Intersections - Mobility
By Intersection Volume

January 2021

Source: TxDOT Roadway Inventory

Legend:
- Priority Intersection (grey)
- < 400 VPHPL (green)
- 400 - 600 VPHPL (yellow)
- > 600 VPHPL (red)

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Network Screening – Segment Safety

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Priority Corridors - Safety
Crash Density Heat Map
January 2021
Source: TxDOT Roadway Inventory
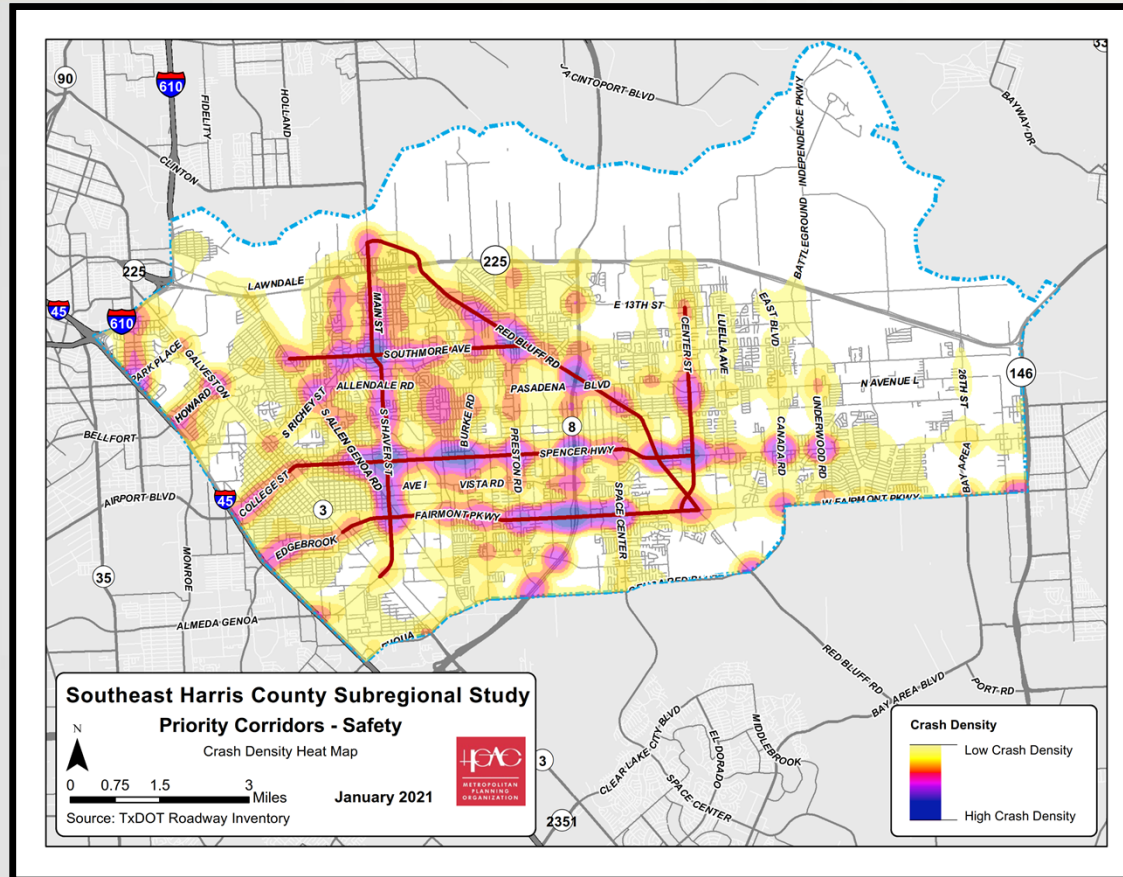
Network Screening – Intersection Safety
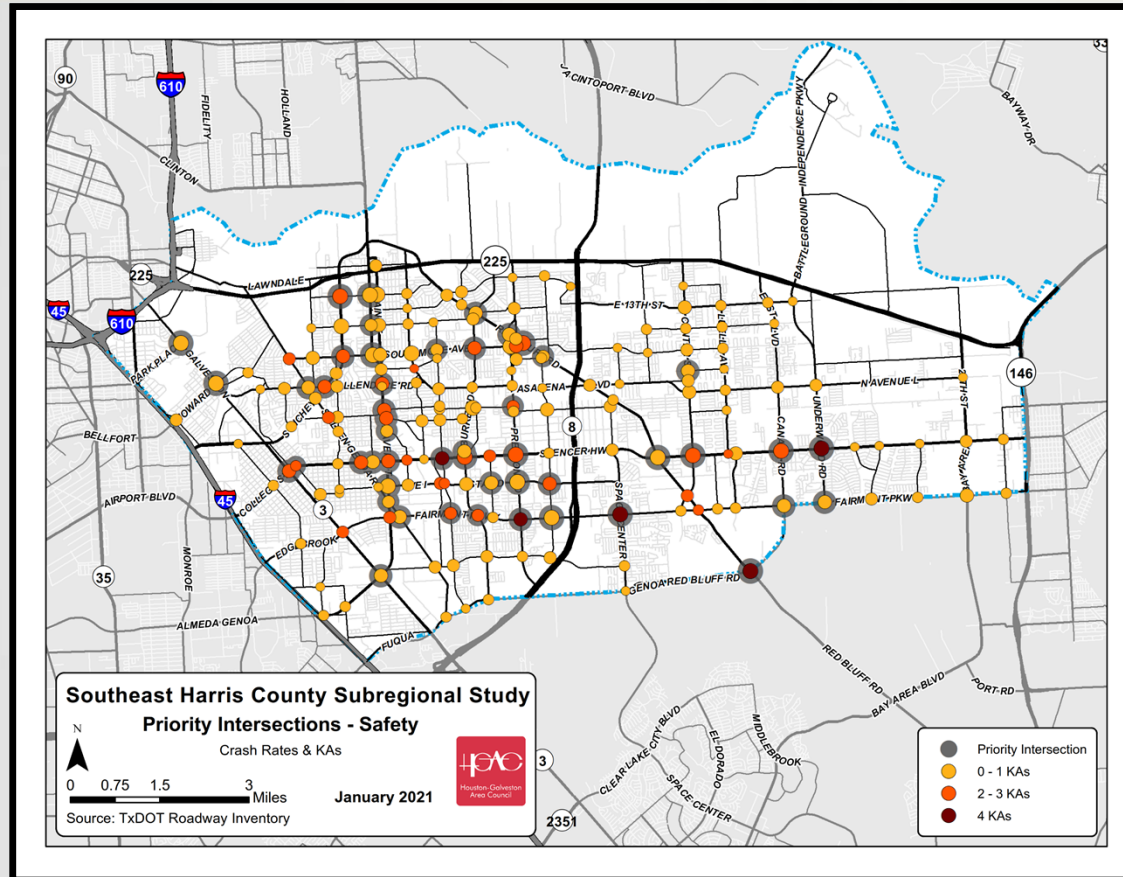
Next Steps

- Finalize Vision Statement, Goals & Metrics
  - Done
- Finalize Network Screening
  - Corridors and Intersections by February 5, 2021
- Schedule Stakeholder Meeting
  - Provide Contact Information by February 5, 2021
- Existing Conditions Analysis
- Developing Public Outreach Tool
- Schedule First Public Meeting (March)
- Date of Next Steering Committee Meeting (March)

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Thank You!   Further Discussion

For More Information:

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