TRANSPORTATION CORRIDOR PLANNING

Active Transportation
Planning Studies

• Livable Centers Studies
• Special District Studies
• Mobility Studies
• Access Management Studies

ONGOING PUBLIC & STAKEHOLDER INVOLVEMENT

1ST PUBLIC MEETING

2nd PUBLIC MEETING

DATA COLLECTION

EVALUATION OF EXISTING CONDITIONS

ANALYSIS OF SHORT-TERM SOLUTIONS

LONG-TERM ACCESS MANAGEMENT STRATEGIES

FINAL REPORT

Reduce the number and severity of crashes

Increase economic activity

Reduce congestion and travel delays

Improve walking, bicycling, and access to transit
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

Vulnerable Populations:
- Seniors
- Children (SRTS)
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

1. Define Transportation Problems and Public Health Issues
2. Identify Transportation Needs, Resources, and Priorities
3. Develop Goals and Objectives that Promote Health in the Community
4. Establish Evaluation Criteria that Include Public Health
5. Develop and Evaluate Alternatives and their Health Impacts
6. 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
Framework

- Spring Branch Livable Centers Study
- Spring Branch Special District Study
- West Houston Mobility Study

Planning Studies

Corridor Planning Studies

Data Identification

Data Needs & Data Collection

Evaluate Infrastructure Projects

Evaluate Planning Studies

Refine MPO Evaluation Criteria

- MPO Benefit Tools
  - Emissions Benefit
  - Delay Benefit
  - Safety Benefit

- Health Cost Savings
- Questionnaire for seniors and safe routes to school

Ongoing Stakeholder and Public Involvement

Establish Evaluation Criteria that Include Public Health
3-Mile Buffer around 110 W Corridor
Access to a wide range of services including medical 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 110 W Corridor
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
- 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

Legend
- **WI-10 Corridor**
- **Bicycle Stations**
- **Park**

Bike Facilities
- **Existing Bike Lane**
- **Existing Shared Use Path/Trail**
- **Existing Signed Shared Roadway**

Existing Bike Facilities
Core Group Meeting
• Kick-off Meeting
• Scope of Work
• Follow-up meetings

Spring Branch Meeting:
• Kick-off Meeting
• Scope of Work
• Steering Committee meetings

• Seniors Workshop
• Safety Workshop
• Developed plug-in survey for seniors

Participants

Core Group
• Ped/Bike Group
• Transit Group
• Seniors Group
• Safety & Access Mgt

• H-GAC
• City of Houston
• METRO
• Bike Houston

Work Group
• SBMD
• HPB
• HGAC
• Local Leaders
**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.”
Project Name: North West Transit Center

0.17 mi: Concentra Urgent Care

0.06 Bus Stop Route 39 & 84

0.21 mi: Future High Speed Rail Terminal

0.39 mi: The Awty International School

Legend:
- School
- Existing Shared Use Path
- Proposed Project
- METRO Bus Stop
- METRO Bus Route
- Apartment Complex
- Existing Bike Lane

Identify Alternatives that Support Health in the Community
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
### Progress

#### Safety

**Coordination & Partnership:**
- COH Vision Zero
- TxDOT Vision Zero 2050
- Traffic Safety Coalition in the Houston District
- FHWA: Pedestrian Safety Action Plan
- FHWA: RSA – Intersection Audits COH

#### Progress: To Date

- Data Collection
- Stakeholder and Public Engagement
- Questionnaire Tool – Seniors
- Secured funding for Off-street ped/bike facility connecting to NW Transit Center

#### Next Steps

- 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.)

#### Health

- Questionnaire Tool
- SRTS
Next Steps

Planning Studies

- Spring Branch Livable Centers Study
- Spring Branch Special District Study
- West Houston Mobility Study

Evaluate Proposed Infrastructure Projects

- Proposed projects
- MPO Methodology
- Plug-in Survey

Data Needs & Data Collection

Evaluate Planning Studies

Evaluate Infrastructure Projects

Refine Evaluation Criteria

- MPO Benefit Tools
  - Emissions Benefit
  - Delay Benefit
  - Safety Benefit
- Health Cost Savings
### Project Information

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<tr>
<th>Application ID Number:</th>
<th>Montrose - Accessibility to Transit</th>
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<td>Sponsor ID Number (CSJ, etc.):</td>
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<td>Project County</td>
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### Proposed Improvements Information

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<tr>
<th>Year Open to Traffic? (Must be &gt;=2021)</th>
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<td>Type of Improvement</td>
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<td>Facility Type</td>
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<td>Service Life of Project</td>
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### 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 |

### OUTPUTS

#### Benefit Results

| Discounted NOx Benefits @ 7% (2018 $) | $2,215.29 |
| Discounted VOC Benefits @ 7% (2018 $) | $108.33 |

#### Total Emissions Benefit Results

| Discounted Emissions Benefits @ 7% (2018 $) | $2,323.62 |

#### Emissions Reductions (Life of Project = 12)

| NOx Emission Reductions (tons/year) | 1.35 |
| VOC Emission Reductions (tons/year) | 0.26 |
Questions?

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