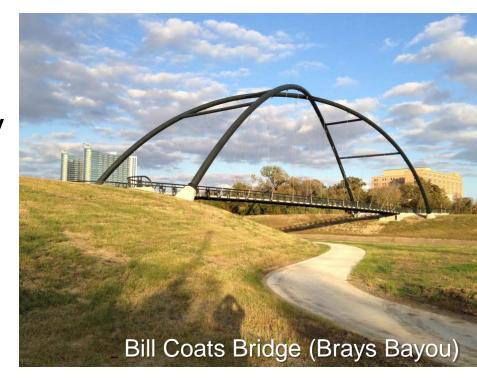




May 29, 2015

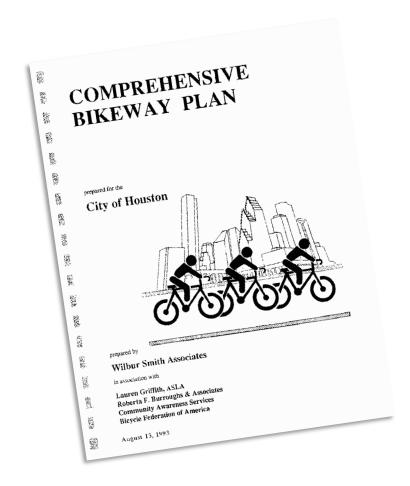
Overview & Objectives

- Why do we need a new bike plan?
- What is the Role of the Bicycle Advisory Committee?
- What is the scope and schedule?
- How can the community provide input?





Why do we need a new bike plan?



- 20 years since plan update
- Complete Streets
 Executive Order
- Rebuild Houston
- Bayou Greenways
- Significant benefits



Plan is being developed in partnership

Lead Agency



Multiple Departments

- Planning & Development
- Public Works & Engineering
- Parks & Recreation

Funding Partners









Supported by Bicycle Advisory Committee

Bicycle Advisory Committee (BAC)

- Community leaders representing...
 - A diverse cross section of Houston
 - Responsible for implementation
 - Bicycle riding community
 - Geographic areas
- Serves as sounding board and guides the direction of the plan
- Reviews and provides feedback on plan goals and recommendations
- Promotes participation in the plan



BAC Members

- AARP
- Alief Independent School District
- Bike Houston
- Bike Barn
- City of Houston Health Department
- City of Houston Mayor's Office of Sustainability
- City of Houston Parks & Recreation
- City of Houston Planning & Development
- City of Houston Police Department
- City of Houston Public Works & Engineering
- Critical Mass
- Greater Houston Partnership
- Houston B-cycle

- Houston Complete Streets
 Coalition
- Houston Galveston Area Council
- Houston Independent School District
- Houston Parks Board
- Management District Energy Corridor
- Management District Houston Downtown
- METRO
- Neighborhood representative
- Neighborhood Centers
- Super Neighborhood Alliance
- TxDOT Houston District
- Urban Land Institute (ULI)



Our Request of BAC Members

Be present

- We will be respectful of your time and schedule. We know you are busy.
- Please make the time to attend each of the events and meetings

Engage

- Meetings will be most valuable to you and us if you truly engage in the discussions
- Ask questions and share ideas even if you don't feel like you are "an expert"



Our Request of BAC Members

Communicate

- Share the goals of your community or organization but also be prepared to think regionally
- Serve as a champion to your community by sharing information and collecting input about the plan

Follow Through

- Continue to engage the community about the findings and recommendation of the Bike Plan
- Work toward implementation with the city, your organization and other partners



Poll Q1: What is the primary reason you bike?

- 1. Recreation
- 2. Commuting or other non-recreational trips
- 3. Health/Exercise
- 4. To Save Money
- 5. I Don't Bike
- 6. Peer Pressure
- 7. Other

Poll Q2: What % of all trips in the City of Houston are Home to Work trips?

- 1. Less than 10%
- 2.10-15%
- 3.15-25%
- 4.25-40%
- 5.40-50%
- 6. Over 50%

What is the Bike Plan Project Schedule?

Phase

- Existing Conditions and Opportunities
- **Defining Goals**
- 3 Bicycle Toolbox
- Developing Draft Plan
- Public Outreach on the Plan
- Finalize Plan

Timeline

May 2015

July 2015

Aug 2015

Nov 2015

Feb 2016

April 2016



Major Public Engagement Periods

Phase 1: Existing Conditions and Opportunities

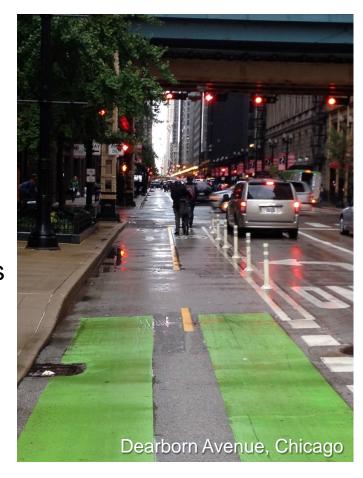
March-May 2015 **Timing Existing Conditions Report Deliverables** Case For Action/Opportunity Statement Kick off meetings Meetings City Staff & Funding Partners



The Opportunity and Case for Action

The Houston Bike Plan is a **transformative opportunity** to...

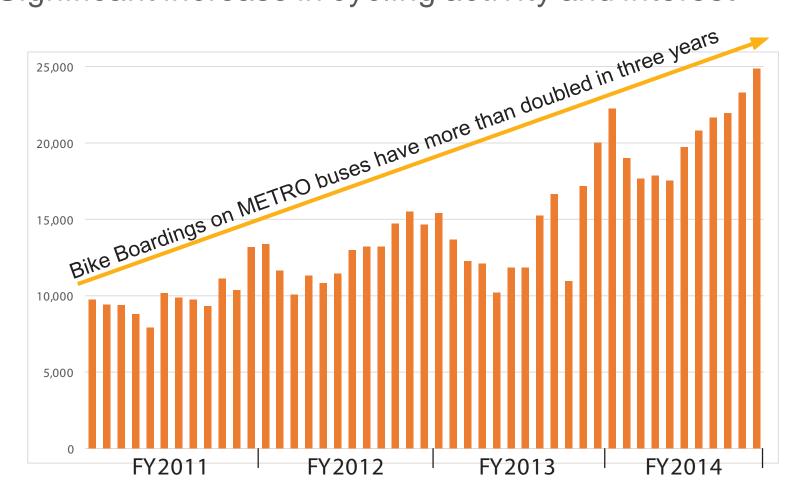
- Provide a safer, more comfortable environment for the growing number of people riding bicycles in Houston
- Provide affordable access to opportunities
- 3. Improve community health and wellness
- Compete with peer cities who are setting the bar
- Benefit everyone, not just people who bike





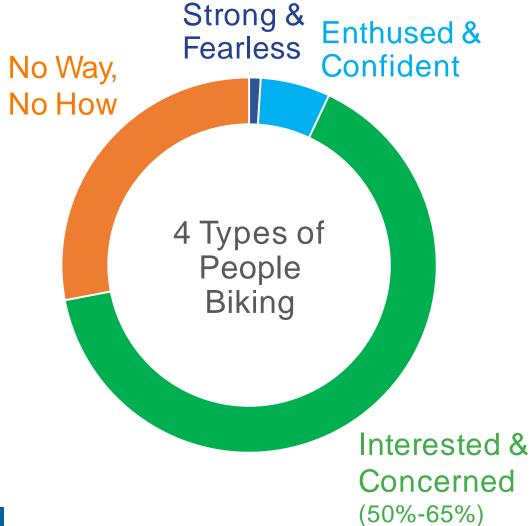
Better Serve Growing Ridership

Significant increase in cycling activity and interest





Who is Our Design Rider?



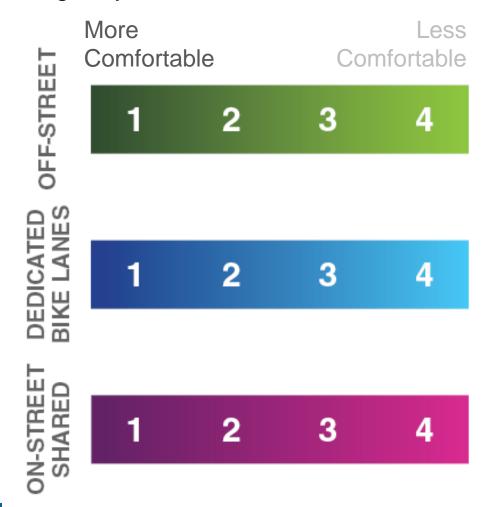
- People in the Interested
 & Concerned category
 typically most attracted
 to bicycle facilities with
 higher comfort levels
- Current network introduces enough gaps and high stress locations to limit frequent bicycle use to Strong & Fearless riders



Source: Dill & McNeil: Four Types Of Cyclists?.2012. Portland State University

Defining Bicycle Level of Comfort

Existing Bicycle Facilities Assessed on Four Levels of Comfort

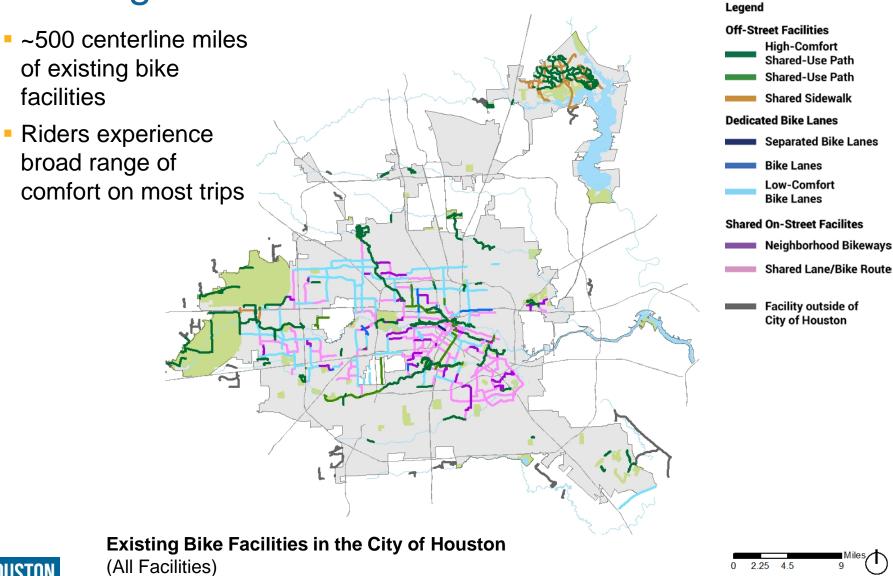


Level of Comfort assessment based on:

- Bicycle facility width
- Adjacent traffic volumes & speeds
- Separation from vehicle traffic
- Intersections & crossings

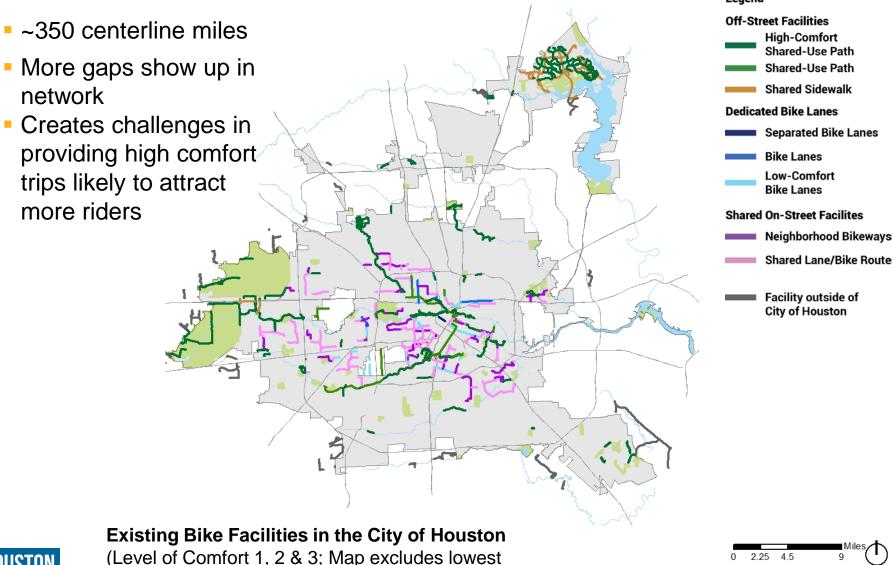


Existing Network – All Facilities





Existing Network – Level of Comfort 1-2-3

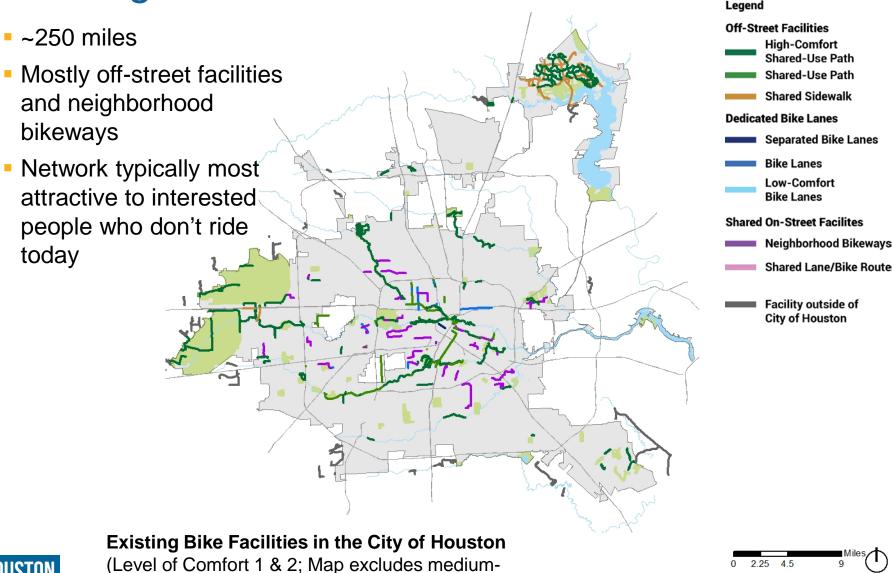




comfort facilities)

18

Existing Network – Level of Comfort 1-2

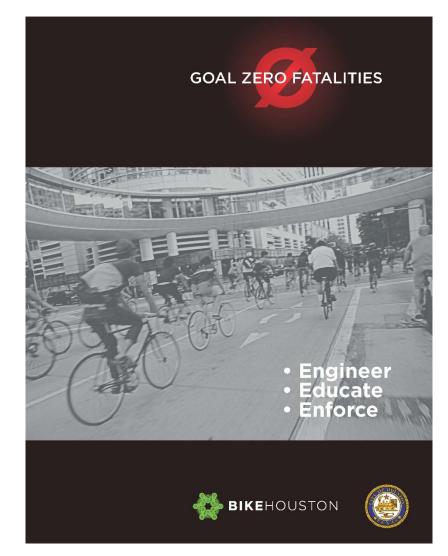




low and lowest comfort facilities)

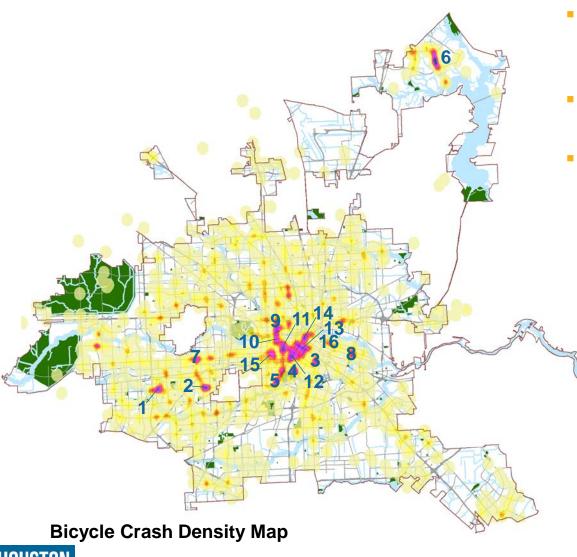
Goal Zero

- In 2014, the City of Houston and BikeHouston partnered to launch the Goal Zero Campaign
- Campaign focuses on safety education for drivers and bicyclists
- Partnership has supported the development of the City's Bicycle Master Plan





Improved Safety for All Users



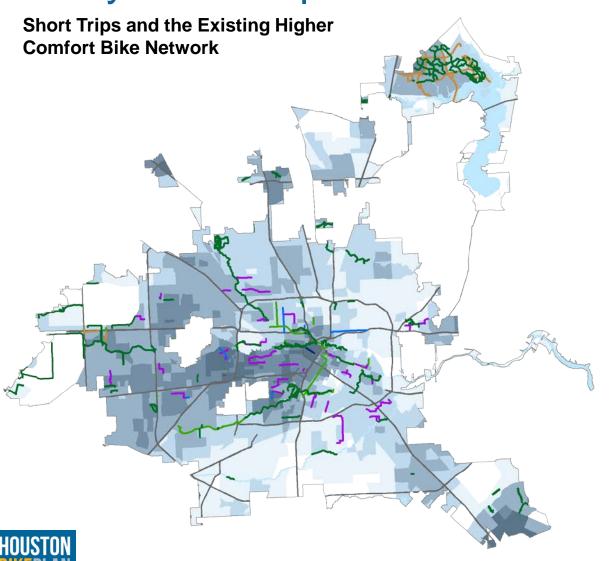
- Over 1,500 reported bike crashes reported in COH (2010-2014)
- 25 bike related fatalities over same period
- Indicator of high bike use areas to focus for plan development

Areas with 10+ Bike Crashes within ½ mile (2010-2014)

- 1. Bellaire and Corporate Chinatown
- 2. Bellaire and Renwick Gulfton/Sharpstown
- 3. Scott Street between 45 and Elgin
- 4. 3rd Ward Riverside Terrace
- Med Center
- Kingwood Kings Crossing Along Lake Houston Parkway
- 7. Westheimer and Voss/Hillcroft
- 8. Wayside and Canal Magnolia Park
- 9. Waugh North of Buffalo Bayou
- 10. Waugh South of Buffalo Bayou
- 11. East Montrose
- 12. Midtown
- 13. Downtown Pierce Elevated
- 14. Downtown
- Woodhead/Dunlavy Lanier MS
- 16. Lockwood and IH10 Denver Harbor/Port Houston

Source: TxDOT Crash Record Information System (2010-2014)

Bicycles Faster and More Convenient for Many Short Trips



LEGEND

All Trips

Percentage of Trips 3 Miles or Less

1.1% - 10%

10.1% - 20%

20.1% - 30%

30.1% - 40%

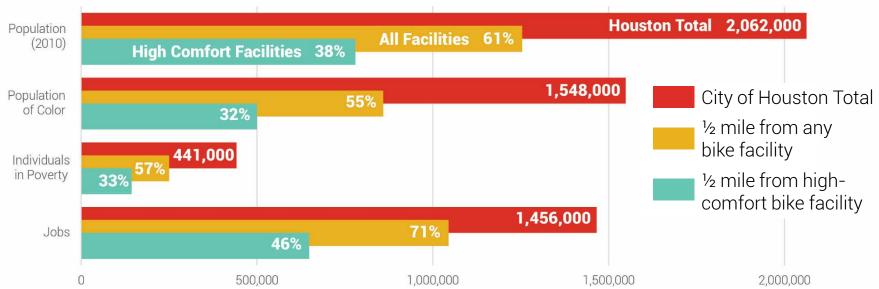
40.1% - 50%

50.1% - 65%

- Bicycle travel times are especially competitive on short trips
- 10 million daily trips in the City of Houston; 33% are under 3 miles
- 15% of home-to-work trips are under 3 miles;
 46% over 10 miles

Access Metrics

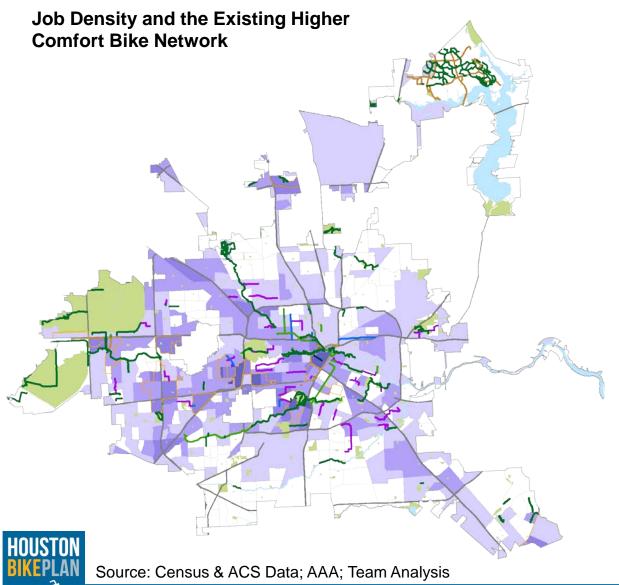
Access Metrics for Population & Jobs



- Overall network provides proximate access to over 60% of people and jobs
- About 38% of the population is proximate to high-comfort bicycle facilities, but barriers to access and last mile challenges still exist
- Access is slightly lower for populations of color and households living below the poverty line



Low Cost Access to Opportunity



LEGEND

- ☐ Employment CentersEmployment Density(Persons per square mile)
- 0 500
- 501 2,000
- 2,001 8,000
- 8,001 40,000
- 40,001 97,309
- Low Cost: annual cost of operating a bicycle is ~\$300 vs. over \$8,000 for a car
- 71% of jobs are within ½ mile of an existing bicycle facility
- Only 46% of jobs are within a ½ mile of high comfort bicycle facility

The Challenge – Last Mile Connections

Trails and bike lanes are often near major job centers but rarely connect to the center or core of activity







Existing Bike Network around Texas Medical Center

Lagging Peers Cities

								1.1	Washington, D.C.		
								1.5	Denver, CO		
		7.8	San Francisco, CA	1741	San Antonio, TX	62.4	San Francisco, CA	1.6	Atlanta, GA] E	3
6.1	Portland, OR	4.6	Austin, TX	1680	Los Angeles, CA	61.5	Denver, CO	1.7	Seattle, WA	E	
3.6	Minneapolis, MN	3.9	Seattle, WA	1296	Dallas, TX	60.6	Miami, FL	2.3	Minneapolis, MN]	
3.4	Seattle, WA	3.9	Minneapolis, MN	1100	Austin, TX	60.3	Portland, OR	2.4	Austin, TX	ן ו	
3.3	San Francisco, CA	3.8	Washington, D.C.	1000	Fort Worth, TX	56.0	Los Angeles, CA	3.9	Chicago, IL]	-
2.9	Washington, D.C.	3.1	Denver, CO	962	Portland, OR	55.9	Austin, TX	4.3	Los Angeles, CA		1
2.2	Denver, CO	3.0	Portland, OR	640	Chicago, IL	55.5	Minneapolis, MN	5.4	San Antonio, TX		
1.8	Average	2.7	Average	632	Average	55.3	Average	7.8	Average	AVEF	RAGE
1.3	Austin, TX	2.6	Chicago, IL	523	Seattle, WA	54.9	Washington, D.C.	7.9	Miami, FL		
1.3	Chicago, IL	2.5	Dallas, TX	311	Denver, CO	54.5	Seattle, WA	11.2	Houston, TX		
1.1	Atlanta, GA	1.5	Phoenix, AZ	277	Miami, FL	52.9	Phoenix, AZ	17.6	Dallas, TX	E	3
1.0	Los Angeles, CA	1.3	Los Angeles, CA	275	Minneapolis, MN	52.3	Chicago, IL	19.3	Phoenix, AZ		
0.7	Miami, FL	1.3	Miami, FL	125	Washington, D.C.	52.1	Atlanta, GA	41.9	Fort Worth, TX)
0.7	Phoenix, AZ	1.1	Houston, TX	98	Houston, TX	51.1	Houston, TX			V	V
0.5	Houston, TX	1.1	San Antonio, TX	60	Atlanta, GA	50.3	San Antonio, TX				
0.2	Dallas, TX	0.7	Atlanta, GA	19	San Francisco, CA	48.8	Dallas, TX				

% of Bicycle Total Existing Miles of

0.5

Miles of Planned Bicycle Facilities

Phoenix, AZ

5

Recommended Minimum Bicyclist Fatalities per 10k Weekly Aerobic Physical bicycling commuters Activity*

% Adults Meeting

*Data was unavailable for Fort Worth, TX

Commuter Mode Share

San Antonio, TX Fort Worth, TX

0.2



Source: Alliance for Biking & Walking's 2014 Benchmarking Report for Bicycling and Walking in the United States

Fort Worth, TX

Bicycle Facilities / Sq Mile

San Francisco, CA

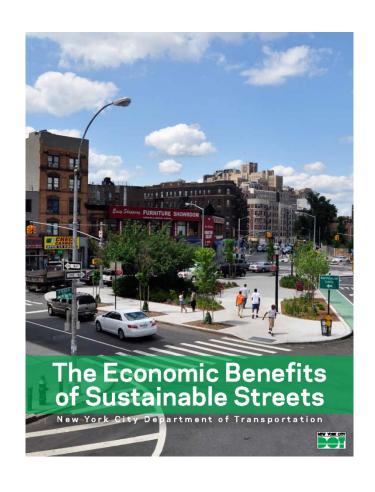
Portland, OR

0.9

A great bicycle network benefits everyone.... not just cyclists

Benefits For everyone

- Fewer cars on the road
- Less conflicts with people biking
- Economic development
- Environmental and Health
- Maximize investments
 - Bayou Greenways
 - Transit expansions





Phase 2: Defining Goals

Late May 2015 - July 2015 **Timing** Draft Goals Statement, Preliminary **Deliverables** Performance Metrics and Definition of Target Riders Public engagement summary report **Meetings**

- BAC Kickoff meeting
 - Public meetings, stakeholder focus groups and interviews
 - Elected Official and Stakeholder Briefings (assumes 15 total)



Poll Q3: What are the top two goals to focus on to improve biking in Houston? (Pick 2)

- 1. Provide a well-connected, lower stress bicycle network
- 2. Improve safety for all road users
- Capture significant potential for growth in people biking
- 4. Provide affordable access to jobs & opportunities
- 5. Improve community health and wellness
- 6. Better compete with peer cities who are setting the bar
- 7. Support community benefits for everyone, not just people who bike

Poll Q4: What are the two most important barriers to address to improve biking in Houston? (Pick 2)

- 1. Weather
- 2. Lack of bike parking
- Lack of end-of-trip amenities (e.g., showers)
- 4. Lack of a network of comfortable bike facilities
- 5. Lack of direct access to jobs and activities
- Feeling of safety (e.g., challenging intersections, speed & quantity of vehicles)
- Poor lighting
- 8. Lack of bicycle and driver education
- 9. Other

Plan will identify goals for biking

Examples of Potential Goals

Safety

Goals Zero

- Reduction in crashes
- Reduction in injuries & fatalities)

Facilities for design riders

Access

Better access to

- Jobs
- Neighborhoods
- Other Destinations (e.g., Parks, Bayous, Libraries, Schools)

Bike Ridership

Increase in mode share

__% increase in total trips

(Especially short trips 0-3 miles)

Facilities

Linear miles of dedicated bikeways

___% of facilities in good or better condition

Bike parking at transit nodes

Goal setting will involve significant community input



Design Riders: Who are we planning for?

Post a photo of yourself with your bike using the hashtags **#ibikehtown** and **#houstonbikeplan** on Twitter, Instagram or Facebook.





Post a photo of yourself with your bike using the hashtags #ibikehtown and #houstonbikeplan on Twitter, Instagram, or Facebook



I'm a student and #ibikehtown #houstonbikeplan

Learn more online:

www.houstonbikeplan.com

- y @houstonbikeplan
- f Houston Bikeway Program

PARTICIPA FN FI



Más información online:

www.houstonbikeplan.com



f Houston Bikeway Program

Sube una foto tuya con tu bicicleta usando los hashtags **#ibikehtown** y **#houstonbikeplan** a tu Twitter, Instagram, o

Facebook.



 Soy una trabajadora social y #ibikehtown #houstonbikeplan





Poll Q5: Which description below best characterizes you as a bicyclist?

- 1. Strong & Fearless
- 2. Enthused & Confident
- 3. Interested but Concerned
- 4. No Way No How

Poll Q6: Of the Bicycle facility types below, which two would you most prefer riding on?













- 1. Shared-use path or trail,
- 2. Bike lane
- 3. Separated bike lane
- Shared roadway, Neighborhood street,

- Shared roadway, mixed use street with sharrow marking
- Shared roadway, mixed use/commercial street

Poll Q7: Of the bike parking facilities shown below, which two would you most prefer using to park your bike?













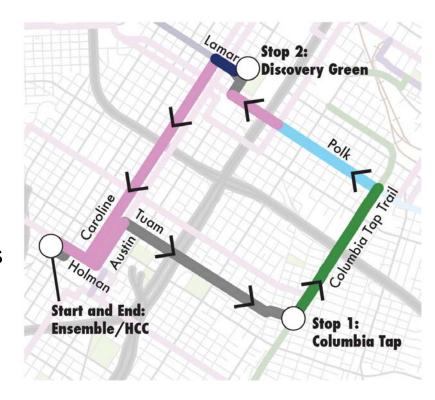
- 1. Bike station
- 2. Bike locker
- 3. Bike lid

- 4. Regular bike rack
- 5. Sign post
- 6. Whatever is available

Public Engagement Kick-off Event

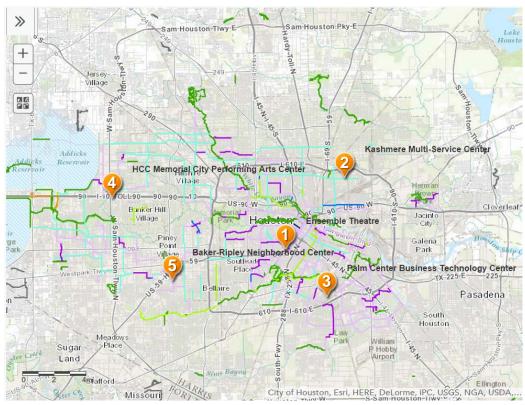
Saturday, May 30, 9am – 1pm

- Organized ride
 - Examples of different facility types and comfort levels
 - Major opportunities, barriers and challenges
- Open House
 - Share overview of plan and Existing Conditions
 - Community input on plan goals
 - Specific input on biking in Houston
 - Tools for how to stay involved
- Four more meetings across Houston through June





Community Meeting Locations Map



Interactive Map to Allow People to Plan Their Route at HoustonBikePlan.org

- Bike Ride & Open House Kickoff
 Saturday May 30th, 9:00am-1:00pm
 Ensemble Theater
 3535 Main Street, Houston, TX 77002
- Thursday, June 4, 2015, 6:00-8:00 pm

 Kashmere Multi-service Center

 4802 Lockwood Drive, Houston, TX 77026 /
 Auditorium #172Meeting #3
- Tuesday, June 9, 2015, 6:00-8:00 pm

 Palm Center Business Technology Center

 5330 Griggs Road, Houston, TX 77021

 Conf. Room C101
- Tuesday, June 16, 2015, 6:00-8:00 PM

 HCC Memorial City Performing Arts Center

 1060 W Sam Houston Pkwy N,

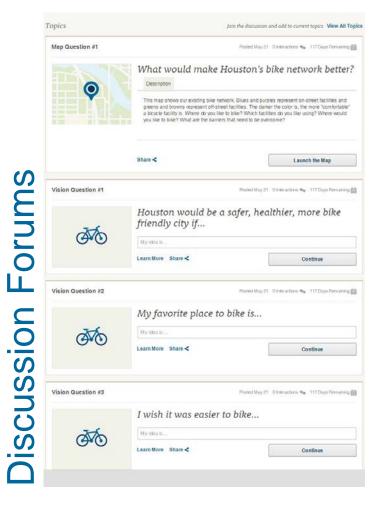
 Houston, TX 77043

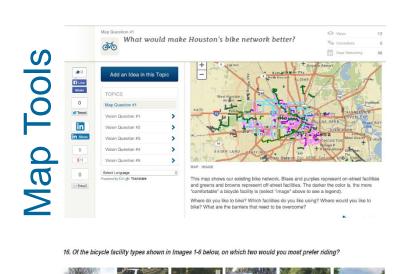
 Theat. II Room 411
- Tuesday, June 23, 2015, 6:00-8:00 PM Baker-Ripley Neighborhood Center 6500 Rookin, Houston, TX 77074



www.HoustonBikePlan.org

Destination site for all project materials and feedback









Public Engagement to Date

- City Council CIP Meetings (Feb-March 2015)
- Bike Houston Annual Meeting (3/24/15)
- Sunday Streets (Westheimer) (3/29/15)
- Bayou Greenways Day (4/4/15)
- Earth Day Discovery Green (4/11/15)
- Earth Day Houston Arboretum (4/18/15)
- Critical Mass (4/24/15)
- Sunday Street (19th Street) (4/26/15)
- Houston Dragon Boat Festival (5/2/15)
- Bike to Work Day TMC (5/8/15)

- Bike to Work Day Greenway Plaza/Galleria (5/14/15)
- Bike to Work Day Energy Corridor District (5/14/15)
- Bike to Work Day Downtown Celebration (5/15/15)
- Sunday Streets Navigation (5/17/15)
- Green Office Challenge (5/20/15)
- NUSA Conference (Hyatt Regency) (5/20-23/15)
- METRO RailFest (5/23/15)
- Critical Mass (5/29/15)

1,039 people on mailing list

(as of 5-27-15)

193+ Interested in going to first meeting on Facebook



Future Public Engagement

- Ongoing event outreach (be where people are)
 - Flyers
 - Posters
 - Email sign up
- Leverage stakeholders to get the word out
 - Meeting in box
 - Newsletters/email blasts
 - Coordination at events

Please let us know if you have events where you would like Bike Plan information







Phase 3: Bicycle Tool Box

Timing

July 2015 - August 2015

Deliverables

- Draft Bicycle Toolbox (facility standards, policies, and programs)
- Supporting materials for public outreach/education

Meetings

- BAC Meeting
- Council & Commission Briefings on Proposed Goals



Phase 3: Bicycle Toolbox

Toolbox outlines key **Projects** components of successful bike plan Bayou Greenways On Street Dedicated Bikeways Neighborhood Bikeways **Policies Programs** Context Sensitive Bikeshare Design Bicycle Safety Bike Parking Training Bike/Transit **Sunday Streets** Integration



Phase 3: Bicycle Toolbox





























Phase 4: Developing the Draft Plan

July 2015 – November 2015
 Draft Bicycle Network Map Analysis of plan against Project Goals From Phase 2 Potential pilot projects
 BAC meeting: Share the draft Bicycle Network Map and analysis against project goals Briefings for City of Houston staff and senior administrators



Bicycle Plan Map Linked to Goals





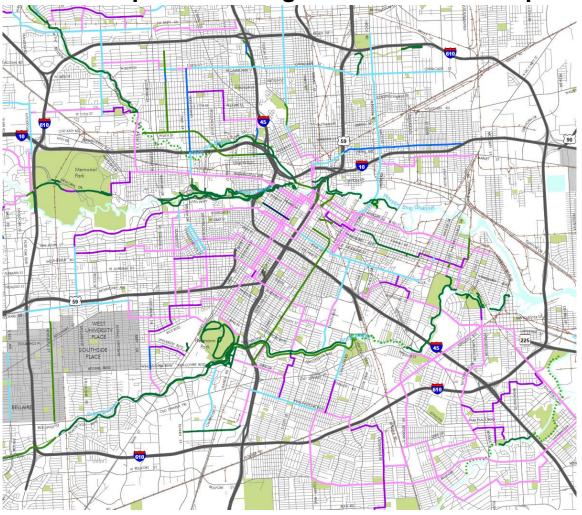






Develop a New Bike Map

Plan will Update Existing Conditions Bike Map



Zoom Map of Existing Conditions in IH-610 Loop Area

- Based on facility types <u>and</u> comfort levels
- Focused on citywide bikeway network
- Will include:
 - Existing facilities
 - Near, Mid, & Long term implementation opportunities
- Easy to read graphical style to support trip planning



From Map -> Potential Projects

Existing Facilities

Comfortable for a broad range of cyclists

- Shared use trails
- Separated bikeways
- Bike lanes
- Neighborhood bikeways





- Narrow/low comfort bike lanes
- Shared lanes on higher speed/volume streets
- Challenging intersections
- Existing network gaps



- Near term
- Paint, signs & signals to improve bike options in existing street corridor & ROW
- Funded trail improvement



Medium/long term implementation

implementation

- Require new roadway infrastructure
- New trails segments
- Bridge crossings/grade separations
- ROW acquisition





Recommended

Phase 5: Public Input on Plan Phase 6: Finalize the Plan

Timing

Phase 5: Nov 2015 - Feb 2016

Phase 6: Feb 2016 - Apr 2016

Deliverables

- Summary of Public Feedback
- Proposed Revisions to the Draft Map
- Implementation Plan with Project Prioritization
- Finalized Houston Bike Plan

Meetings

- 5 community meetings on draft plan
- BAC Meeting
- Committee and Commission Meetings



Implementation & Pilot Projects



From Plan to Action

- Finalize Recommendations:
 - Policies
 - Programs
 - Projects
- Prioritize projects to near term/long term projects
- Define implementation and funding strategies
- 4. Develop pilot projects:
 - New on-street facilities
 - Neighborhood bikeways
 - Intersection treatments



Next Steps

- Attend May 30th Bike Ride & Open House
- Help promote June Meetings
 - Facebook events
 - Newsletters and email blasts
 - Postcards and posters available
- Next BAC Meeting
 - Weds., July 8th 1-3 or 3-5; or
 - Thurs., July 10th 11-1 or 1-3
 - Discussion Topics
 - Summary of public feedback
 - Draft goals
 - Draft toolbox







BIKE RIDE & OPEN HOUSE

SATURDAY MAY 30". 9AM-1PM

ENSEMBLE THEATER 3535 MAIN STREET HOUSTON, TX 77002

Parking is available at the HCC lots located on Berry Street at San Jacinto (next to Adkins Architectural Antiques) and on Berry Street at Fannin.

Participants may enter to win one of several raffle prizes.



This project is funded by the City of Houston, BikeHouston, Houston Parks Board, H-GAC, FTA, FHWA, and TxDOT. Join us at one of the four public meetings for a presentation on the Houston Bike Plan, and an opportunity to give input on biking in Houston.

KASHMERE MULTI-SERVICE CENTER

THURSDAY, JUNE 4, 2015, 6:00-8:00 PM / AUDITORIUM #172 4802 LOCKWOOD DRIVE, HOUSTON, TX 77026

2 PALM CENTER BUSINESS TECHNOLOGY CENTER

TUESDAY, JUNE 9, 2015, 6:00-8:00 PM / CONF. ROOM C101 5330 GRIGGS ROAD, HOUSTON, TX 77021

3 HCC MEMORIAL CITY PERFORMING ARTS CENTER

TUESDAY, JUNE 16, 2015, 6:00-8:00 PM / THEATER II ROOM 411 1060 WEST SAM HOUSTON PKWY N. HOUSTON, TX 77043

4 BAKER-RIPLEY NEIGHBORHOOD CENTER

TUESDAY, JUNE 23, 2015, 6:00-8:00 PM 6500 ROOKIN. HOUSTON. TX 77074

www.HoustonBikePlan.com
Bikeways@houstontx.gov
832-395-2700

