
HOUSTON
BIKEPLAN
GRAB A PEN!
Mark this map and tell us: Where do you bike? Where do you want to bike? Where are the barriers? What else do we need to know?
Houston Bike Plan:
Public Comments, Goals & Tools
Bicycle Advisory Committee Meeting #2
July 8, 2015

Today's Objectives

- Share Progress to Date
- Share Draft Vision and Goals
- Group Exercise: Goals & Metrics
- What is a Bicycle Toolbox?
- Group Exercise: Building a Bicycle Network

Where Are We?

Phase		Timeline
1	Existing Conditions and Opportunities	May 2015
2	Defining Goals	July 2015
3	Bicycle Toolbox	Aug 2015
4	Developing Draft Plan	Nov 2015
5	Public Outreach on the Plan	Feb 2016
6	Finalize Plan	April 2016



Major Public Engagement Periods

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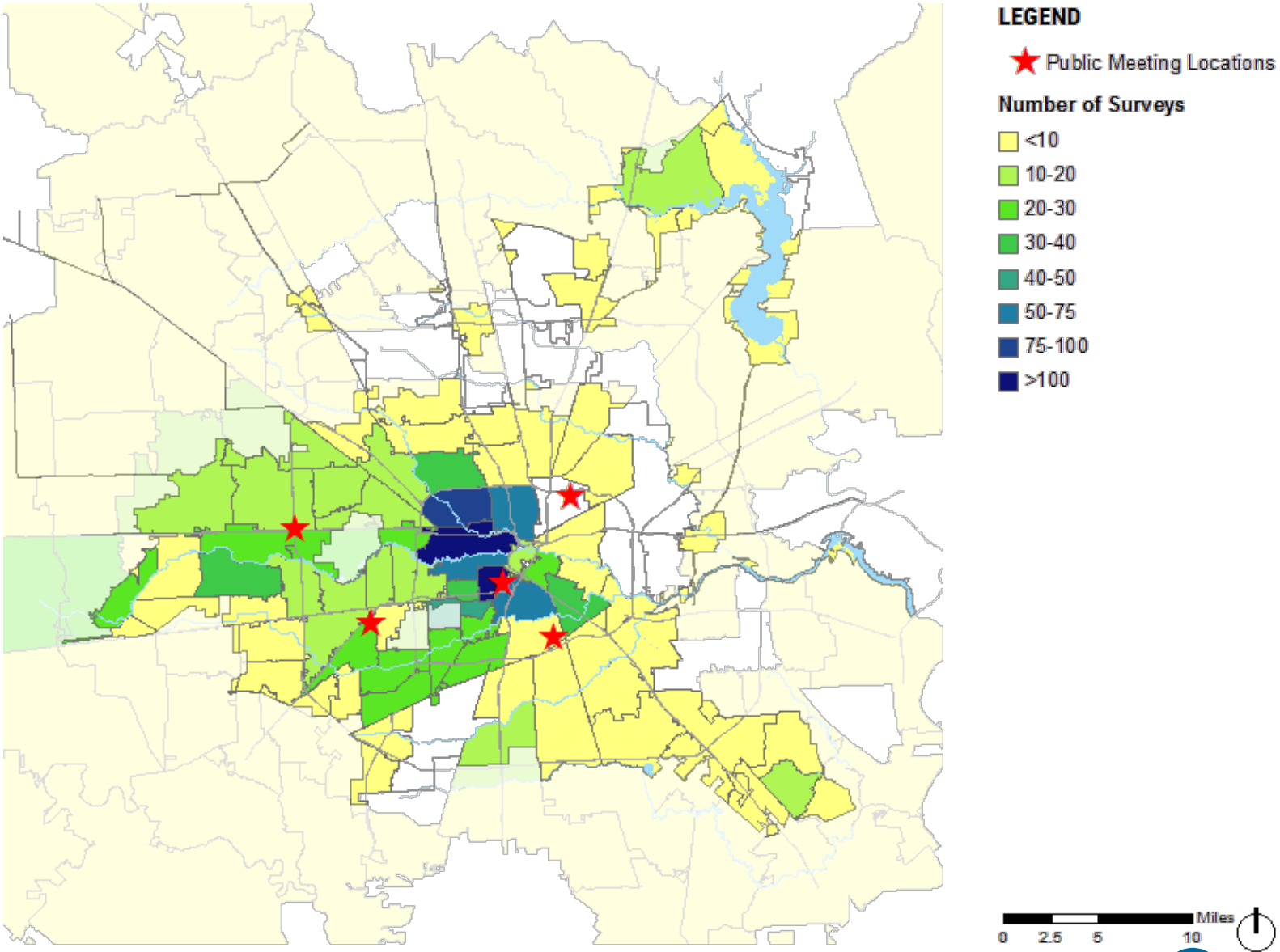
Who Have We Reached?



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How Much Input Have We Received?

Since May 30 Kick Off

- 5 Public Meetings
  - 237 attendees
  - 258 comments on goals and needs
  - 35 comment cards received
- Online Participation
  - 1885 online surveys
  - 303 map ideas
  - 55 comments
- Meeting In A Box Available
- Building awareness at 24+ events



*All numbers current as of 7/6/15

What Do People Want?

- Cultural Shift – Safety/Education/Enforcement
  - Education: Increase safe behavior for people who bike, walk and drive
  - Awareness of people bicycling
  - Enforcement/enhancement of laws for all
  - Reprioritize funding from roadways to bicycle facilities
- Infrastructure/Design
  - Network of improved bike lanes and separated bike lanes
  - Intersection improvements
  - End of trip amenities
  - Wayfinding

What Do People Want?

- Access/Connectivity
  - Safe access to bike facilities and bayou trails
  - Continuous connectivity through the City
  - Avoid congestion
  - Transit connectivity
- Maintenance
  - Better maintenance/repair of existing facilities
- Health/Wellness
  - Ability to live a healthy lifestyle
  - Environmental benefits

Defining Outcomes

Vision

- An inspirational description of your desired future conditions

Goals

- Tangible objectives that deliver against the vision

Metrics

- Measurable variables and milestones used to assess progress

Strategies

- Specific projects, programs, and policies to achieve goals

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Today's Activities: Goals & Metrics Input, then Design a Bike Network

- Your Job Today:
  - Provide input on draft Vision and Goal statements
  - Provide input on metrics to measure success of our goals
  - Develop a bike network for Bike City, USA

Draft Bike Plan Vision and Goals

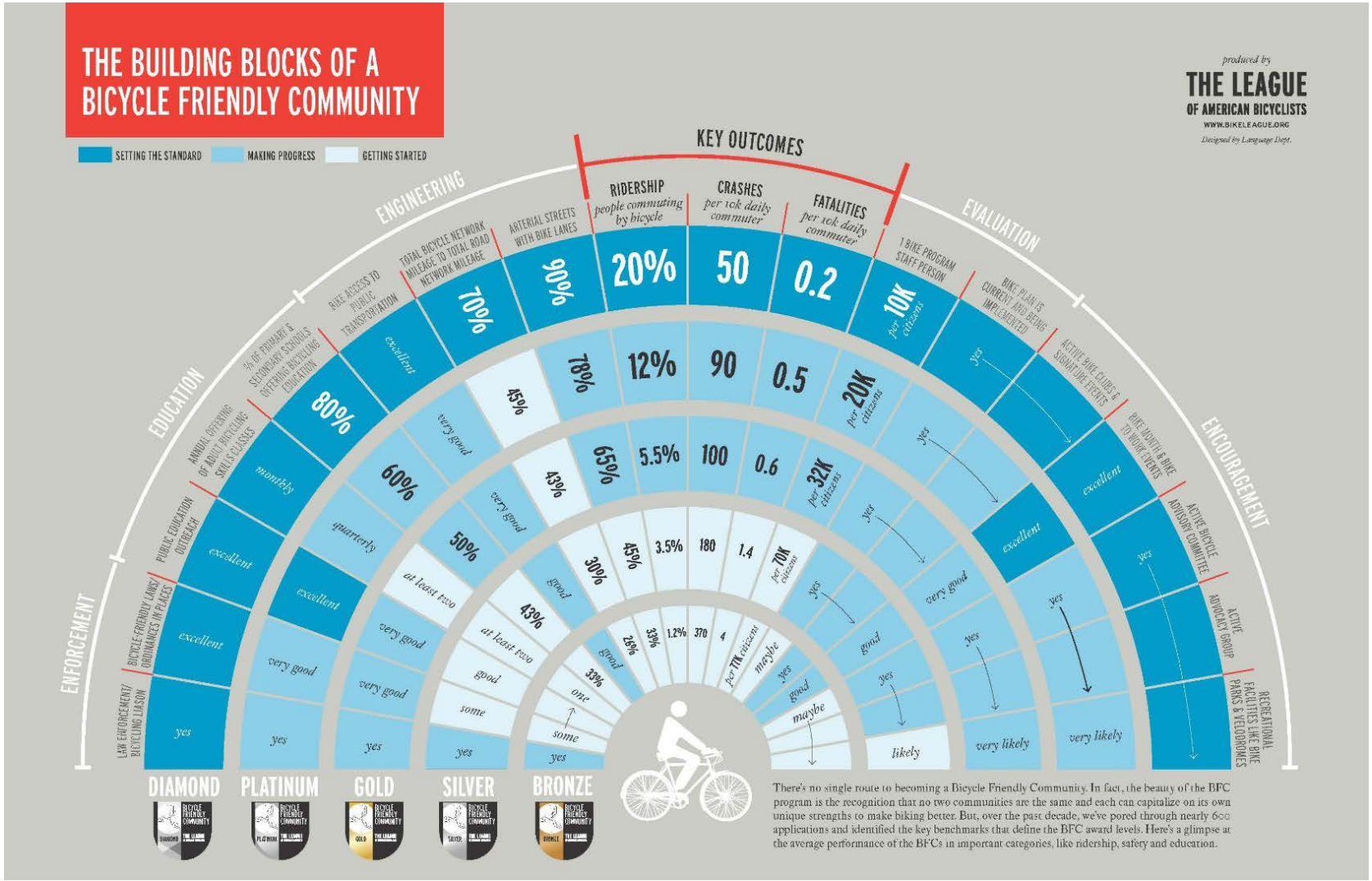
Vision

By 2026, the City of Houston will be a Safer, Healthier, Gold Level Bike-Friendly City with…

Goals

- Increased safety for bicyclists of all abilities through improved facilities, education, and enforcement;
- Access to a well-connected, citywide network of comfortable bike facilities, from neighborhoods, jobs and activity centers;
- Adopted policies and programs that encourage more people to bike and promote healthy, active transportation options; and
- Programs to develop and maintain the city's bicycle network including both bikeways and end of trip facilities while coordinating to create a regional bikeway network.

League of American Cyclist – Bike Friendly Community



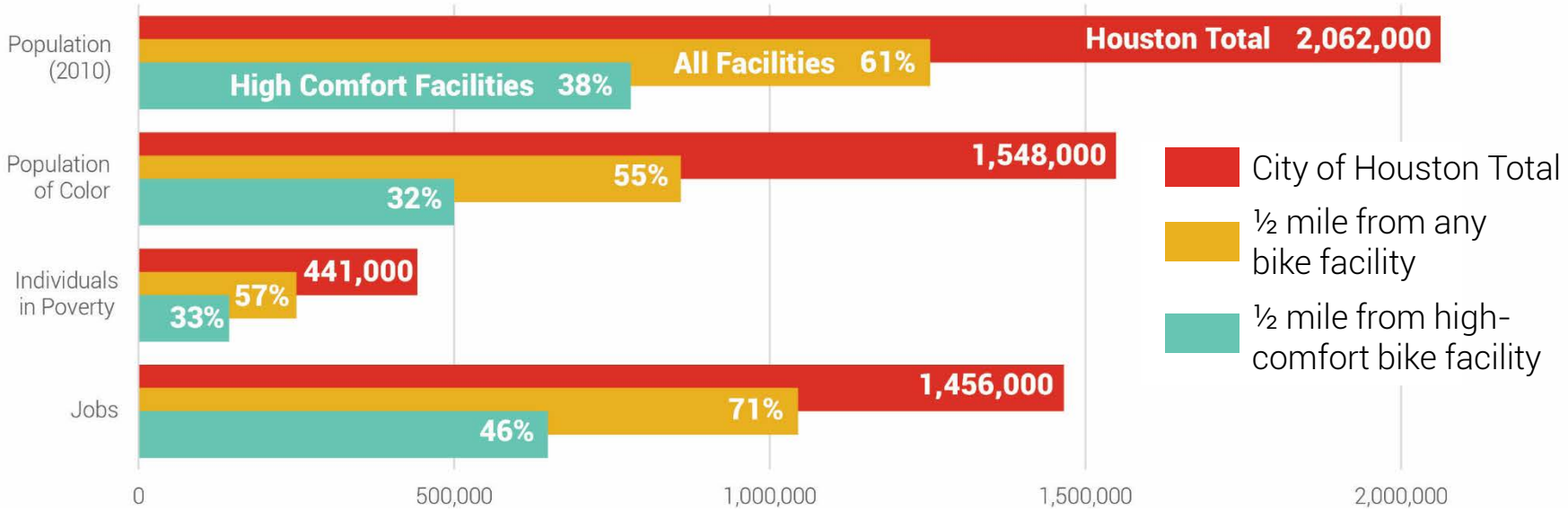
These are averages; Each city should decide its own approach and priorities

Measuring Success

- What Makes a Good Metric?
  - Inputs v. Outcomes
  - Objective way to see if the strategy is working
  - Comparison that measures change over time
  - Focus attention on what matters most to success
  - Measures accomplishments
  - Provide a common language for communication
  - Are valid and verifiable/measurable

Access Metrics

Access Metrics for Population & Jobs



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

Source: Census & ACS Data; Team Analysis

Peers Comparisons

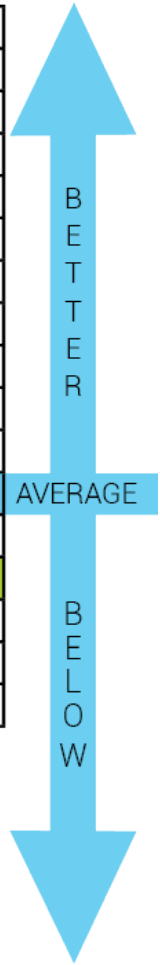
	% of Bicycle Commuter Mode Share
6.1	Portland, OR
3.6	Minneapolis, MN
3.4	Seattle, WA
3.3	San Francisco, CA
2.9	Washington, D.C.
2.2	Denver, CO
1.8	Average
1.3	Austin, TX
1.3	Chicago, IL
1.1	Atlanta, GA
1.0	Los Angeles, CA
0.7	Miami, FL
0.7	Phoenix, AZ
0.5	Houston, TX
0.2	Dallas, TX
0.2	San Antonio, TX
0.1	Fort Worth, TX

	Total Existing Miles of Bicycle Facilities / Sq Mile
7.8	San Francisco, CA
4.6	Austin, TX
3.9	Seattle, WA
3.9	Minneapolis, MN
3.8	Washington, D.C.
3.1	Denver, CO
3.0	Portland, OR
2.7	Average
2.6	Chicago, IL
2.5	Dallas, TX
1.5	Phoenix, AZ
1.3	Los Angeles, CA
1.3	Miami, FL
1.1	Houston, TX
1.1	San Antonio, TX
0.7	Atlanta, GA
0.5	Fort Worth, TX

	Miles of Planned Bicycle Facilities
1741	San Antonio, TX
1680	Los Angeles, CA
1296	Dallas, TX
1100	Austin, TX
1000	Fort Worth, TX
962	Portland, OR
640	Chicago, IL
632	Average
523	Seattle, WA
311	Denver, CO
277	Miami, FL
275	Minneapolis, MN
125	Washington, D.C.
98	Houston, TX
60	Atlanta, GA
19	San Francisco, CA
5	Phoenix, AZ

	% Adults Meeting Recommended Minimum Weekly Aerobic Physical Activity*
62.4	San Francisco, CA
61.5	Denver, CO
60.6	Miami, FL
60.3	Portland, OR
56.0	Los Angeles, CA
55.9	Austin, TX
55.5	Minneapolis, MN
55.3	Average
54.9	Washington, D.C.
54.5	Seattle, WA
52.9	Phoenix, AZ
52.3	Chicago, IL
52.1	Atlanta, GA
51.1	Houston, TX
50.3	San Antonio, TX
48.8	Dallas, TX

	Bicyclist Fatalities per 10k bicycling commuters
0.9	San Francisco, CA
1.1	Portland, OR
1.1	Washington, D.C.
1.5	Denver, CO
1.6	Atlanta, GA
1.7	Seattle, WA
2.3	Minneapolis, MN
2.4	Austin, TX
3.9	Chicago, IL
4.3	Los Angeles, CA
5.4	San Antonio, TX
7.8	Average
7.9	Miami, FL
11.2	Houston, TX
17.6	Dallas, TX
19.3	Phoenix, AZ
41.9	Fort Worth, TX



*Data was unavailable for Fort Worth, TX

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

By 2026 Houston will be a Safer, Healthier, Gold Level Bike-Friendly City with…

Area	*Goal Statement*	*Measure(s) (ex)*	*Target(s) (ex)*
Improve Safety 	Increased safety for bicyclists of all abilities through improved facilities, education, and enforcement.	• # of bicycle fatalities • # of bicycle related crashes • # safe passing citations	• Zero Annual bicycle fatalities • 50% reduction of reported bike crashes
Increase Access 	Access to a well-connected, citywide network of comfortable bike facilities, from neighborhoods, jobs, and activity centers.	• % population and jobs within ½ mile of a high-comfort bike facility	• Increase to 50% of people & 75% of jobs within ½ mile of connect high comfort bike facility
Increase Ridership 	Adopted policies and programs that encourage more people to bike and promote healthy, active transportation options.	• Commute mode share • # of permanent count stations • Active people	• 4x current commute mode share • 60% of adults meet recommended daily physical activity
Develop and Maintain Facilities 	Programs to develop and maintain the City's bicycle network, including both bikeways and end-of-trip facilities, while coordinating to create a regional bikeway network.	• Miles of bikeways per capita • % bikeways in good or better conditions	• Double centerline miles of high comfort bicycle facilities

Group Exercise

- Break in to small groups (3-4 people)
- Using worksheets review and discuss the Vision and each of the goals
- Have one person be official note taker to capture any comments or potential edits
- Appoint one person to present ideas
- Provide any measures of success you would like to see as potential metrics aligned with each goal

- Timeline: 30 minutes group discussion; 15 minutes debrief

THE RIGHT FACILITY FOR THE RIGHT PLACE

Different bike facilities offer different levels of comfort, especially for inexperienced riders. The plan will include a "toolbox" of bike facilities for different kinds of places.



Also includes tools to address other critical areas such as intersections

A PLACE FOR YOUR BIKE

When making a trip by bike, people want to know that there is a secure place to park. Different types of bike parking offer different levels of security -- at different costs.

PARKING

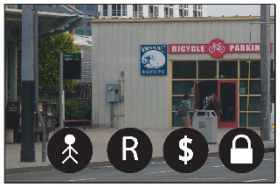

Bike Rack



Bike Locker



Secure inside parking



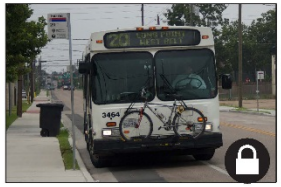
Staffed Bike Station

NETWORKS

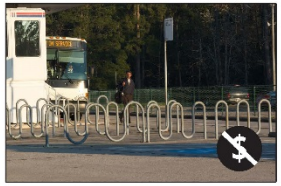


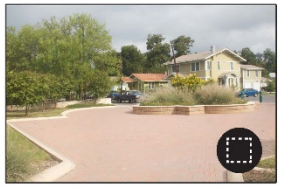
Bike Share

CONNECTIONS

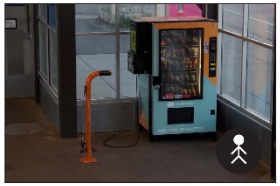

Bikes on buses

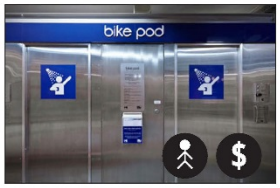

Bikes on trains


Bike and Ride Bike Parking


Trailhead with Car Parking

SUPPORT


Bike Repair Station



Showers

Most secure

R
Can be reserved

$
relatively expensive to implement

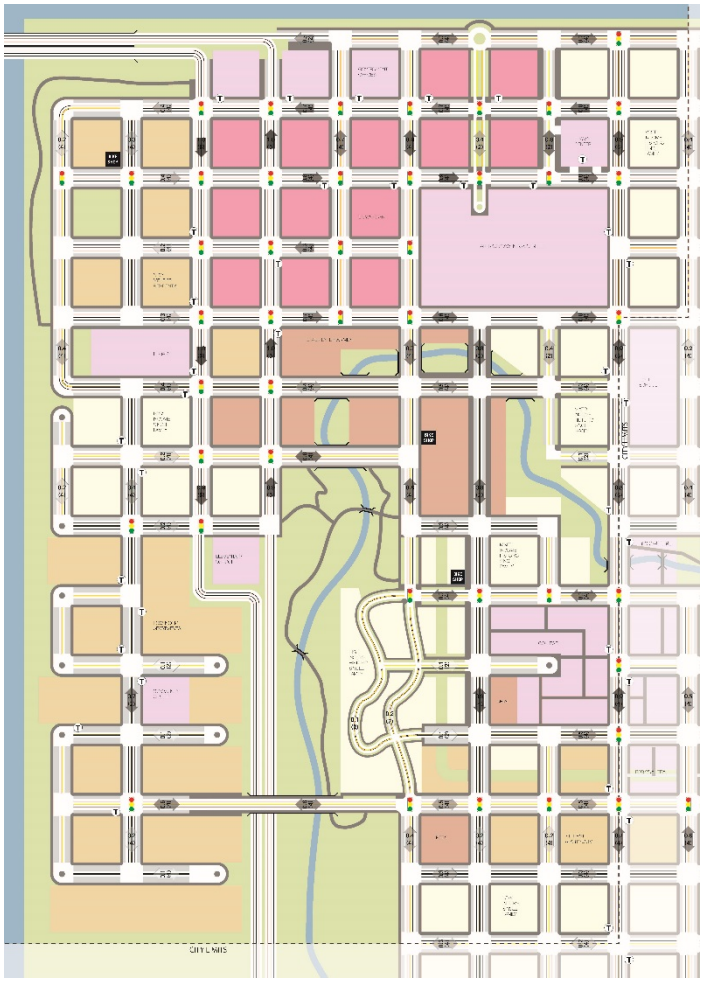
relatively inexpensive to implement

requires significant property

requires operating staff

Today's Activities: Create A Bike Network!

- Using toolbox, work in small group to create a high-comfort bike network
- Why?
  - Discussion on how to connect areas of a city and address barriers
  - What are the trade-offs? (i.e. parking or number of lanes)
  - Identify how end of trip facilities can fit into the design of a bike network
- Appoint one person to present bike plan in debrief
- Timeline: 45 minutes group discussion; then debrief



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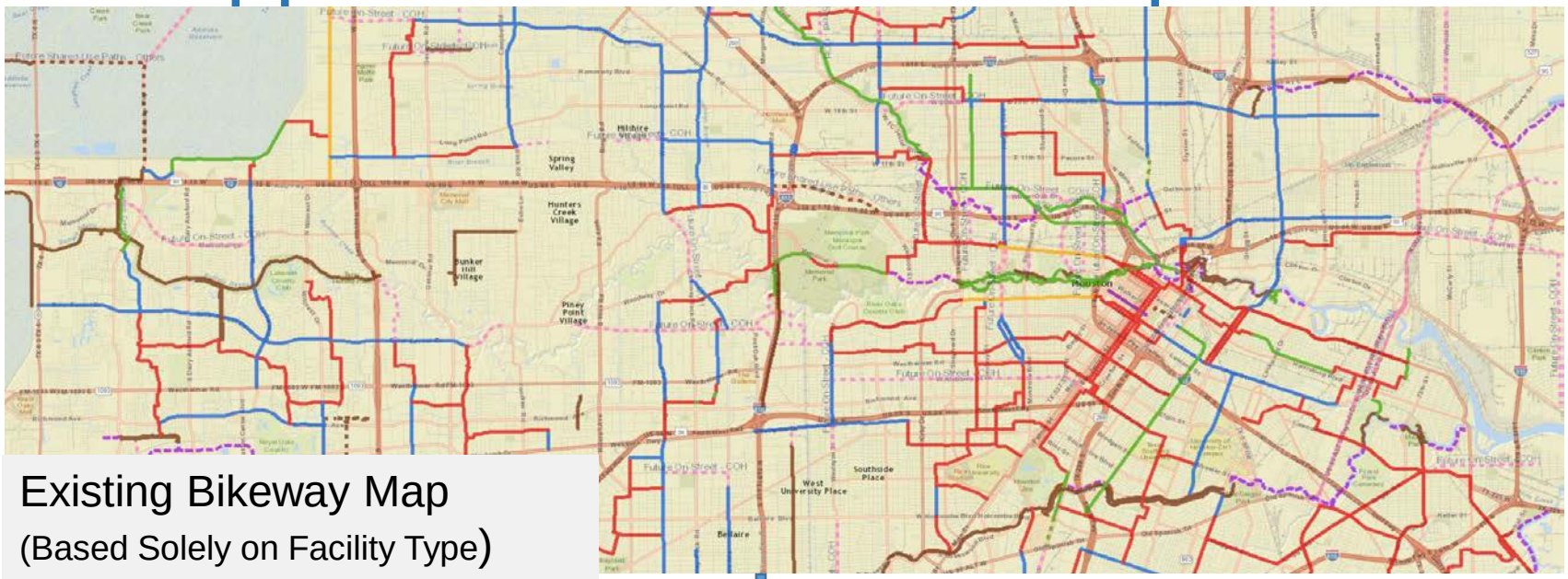
What Next: Refine Goals and Toolbox to Support Draft Plan Development



Existing Bikeway Map
(Based Solely on Facility Type)

+



New Facilities In Development (White Oak)



Clarity on Goals
(e.g., Job Access)



Well Defined Toolbox
(e.g., Separated Bikeways)

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Bike Plan Next Steps

- Complete first phase of public input
- Refine vision and goals
- Develop metrics as measures of success
- Develop a draft bicycle toolbox
- Next BAC Meeting
  - Wednesday, Sept. 9, 3-5pm
  - Review draft goals and toolbox
  - Develop plan recommendations