

# Bicycle Advisory Committee

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Infrastructure Subcommittee

November 15, 2023



PLANNING &  
DEVELOPMENT  
DEPARTMENT

# Mission and Vision

## **BAC Mission**

To advise and make recommendations to the commission and the director on issues related to bicycling in the city including, but not limited to, amendments to the Bike Plan, bicycle safety and education, implementation of the Bike Plan, development of strategies for funding projects related to bicycling, and promoting public participation in bicycling.

## **BAC Vision**

By 2027, the City of Houston will be a Safer, More Accessible, Gold Level Bike-Friendly City

# Infrastructure Subcommittee Roll Call

Tom Compson, Chair BAC

Joe Cutrufo, Infra SC Chair

Alejandro Perez

Leah Chambers

Lisa Graiff

Trevor Reichman

Jessica Wiggins

Yuhayna Mahmud

Ben Drews

Amar Mohite

Mike VanDusen

Ana Ramirez Huerta

Robin Holzer

## Ex-officio Members

Ian Hlavacek

David Fields

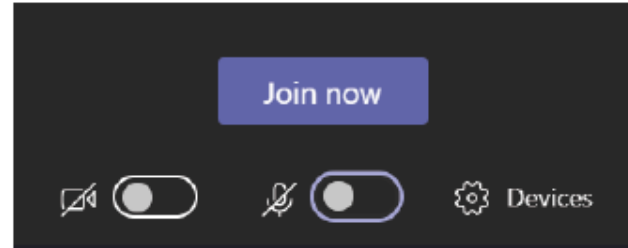
Juvenal Robles

# Microsoft Teams Meeting Instructions

**Agenda and Slides:** <https://houstonbikeplan.org/bac/>

**Join By Phone:** 936-755-1521; ID 114 253 400#

# Microsoft Teams Meeting Instructions



Please Remember to Stay on **Mute**, unless Identified by the Chair to speak

If you are connecting through the phone, please mute/unmute by pressing **\*6**



# Agenda

1. Director's Report
2. Chair's Report
3. Public Comment
4. Presentation: Brazos River Park Trails and Pump Track
5. Presentation: Community Benefits of Pump Tracks and Skills Areas
6. Discussion: Future Bikeways Metrics and Data
7. Open Forum
8. Announcements/Events

**The public is invited to speak for up to two (2) minutes each at the beginning of the meeting.**

# Director's Report

David Fields  
Chief Transportation Planner,  
Planning & Development Department

# Chair's Report

Joe Cutrufo  
Chair, Infrastructure Subcommittee  
BikeHouston

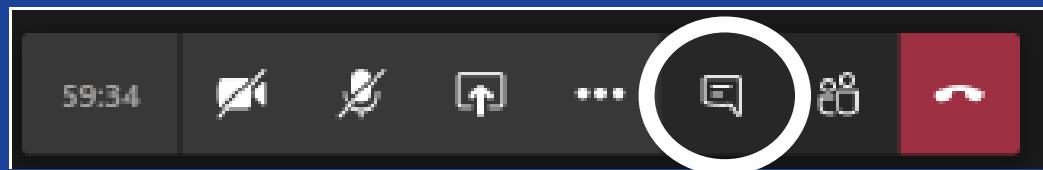


# Public Comment

Send **written comments** to [bac@houstontx.gov](mailto:bac@houstontx.gov) by 5:00pm the day before a BAC meeting. Comments will be read aloud by staff during the meeting.

Comment by **Phone**: to join dial 936-755-1521; ID 114 253 400# Press \*6 to unmute when called upon by the Chair

Comment via **Microsoft Teams**: Type your name and that you would like to comment



# Brazos River Park Trails and Pump Track

Ben Drews, BAC  
Councilman William Ferguson, City of Sugar Land



“The Power of Pump Tracks”

Presentation for COH - BAC

November 15, 2023

# Agenda

- ▶ Community Benefits
- ▶ Health Benefits
- ▶ Economic Benefits
- ▶ Councilman William Ferguson
- ▶ Questions?

# Community Benefits

- ▶ Fun way to engage kids in being active
- ▶ A gateway to more active riders and skilled riders
- ▶ Encourages interaction among the community and creates connections



# Health Benefits

- ▶ Cycling decreases the risk of type 2 diabetes by as much as 40%
- ▶ Just a medium amount of cycling (13 minutes per day) resulted in a 28% lower risk of mortality
- ▶ A study in Bentonville found a benefit of \$86M in health benefits over the course of a year



# Economic Benefits

- ▶ Bicycling provided \$137 million in economic benefits to Northwest Arkansas in 2017
- ▶ In 2010 Orange County supported 516 jobs and had an estimated positive economic impact of \$42.6 million
- ▶ A 2013 study said that the Silver Comet Trail generates about \$120 million in total expenditures throughout the state each year, supporting about 1,300 jobs and about \$37 million in earnings.





Councilman William Ferguson





Questions?

# Community Benefits of Pump Tracks and Skills Areas

American Ramp Company

**Bike park  
programming  
for everyone.**





**Jeremy Jones**

Project Development Director  
Central Territory

**7+** years supporting the development of public bike park projects

**300+** individual public projects improving access and quality of life in communities in Texas and across the Central United States

**\$25M+** in public funds managed for project developments

**Intro**

# Major Bike Park Programming

## Major Program Types

- Pump Tracks
- Skills Courses/Trails
- Jump-Lines
- Flow and Slopestyle Lines
- Bicycle Playgrounds



# Principles of Sustainable Development

## Key Planning Principles

- Access and Enrollment
- Diversity of Experiences
- Sustainable design and construction practices
- Integrated Design and Build
- Community Partnerships
- Diversify Value Objectives



# Bike Park Programming

Integrated bike program types.

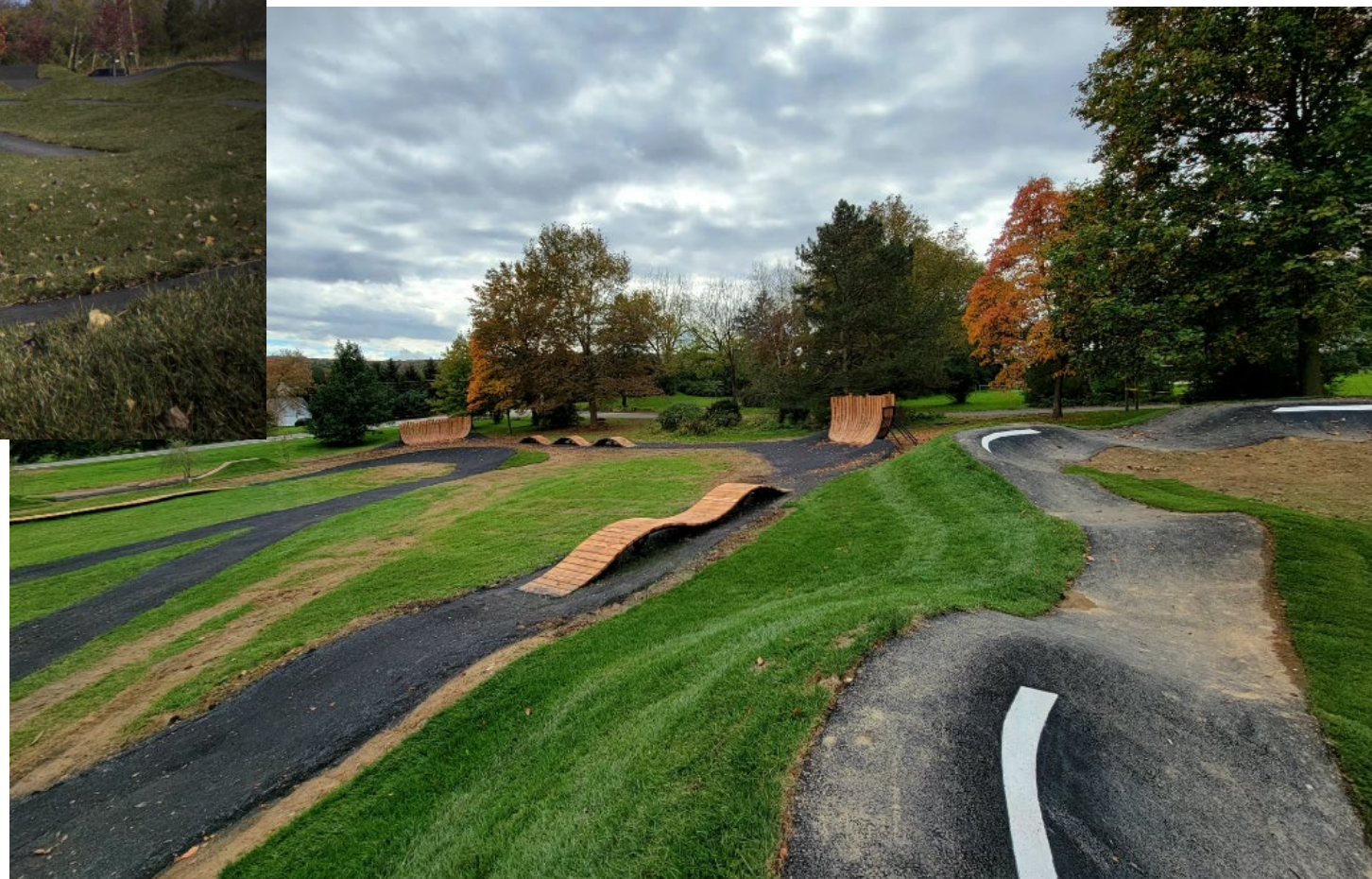


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# Case Study - The Integrated Bike Park - Fort Smith, Arkansas



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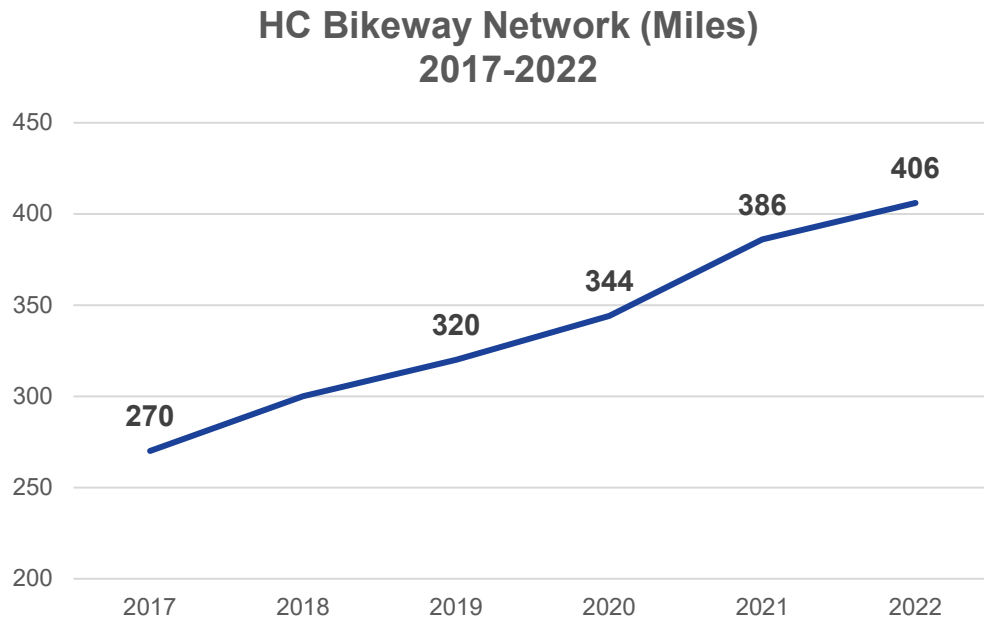


# Future Bikeways Metrics and Data

Brian D. Smith, II  
Planning & Development Department

# Network Mileage

Since adoption of the Houston Bike Plan, Houston's high-comfort network has increased by **136 miles (50%)**

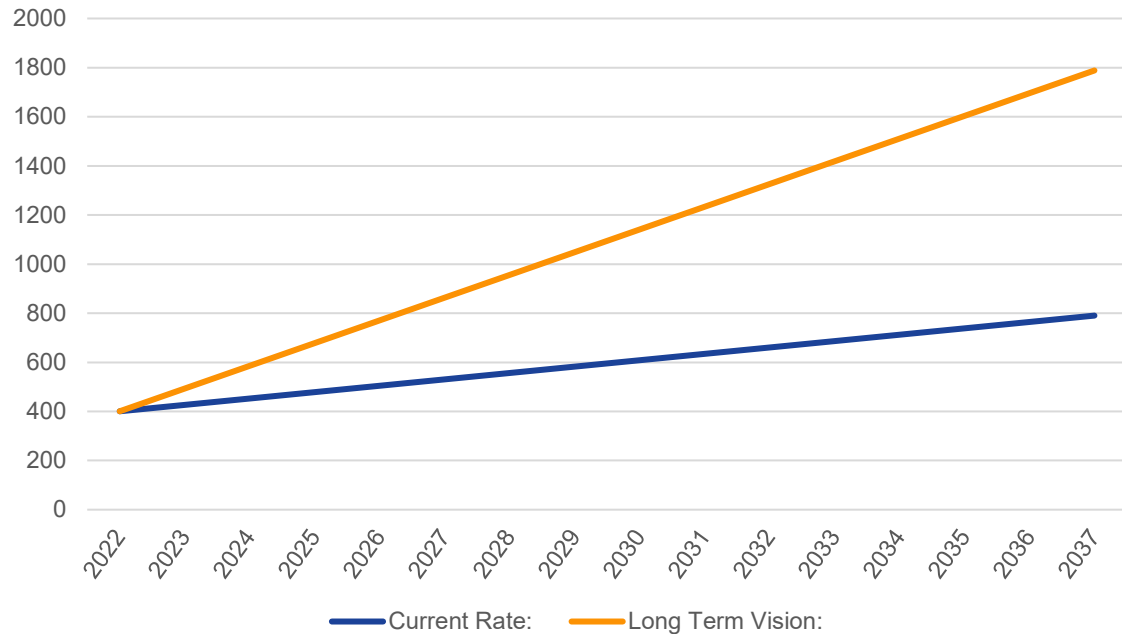


<u>Year</u>	<u>Miles</u>	<u>Inc</u>	<u>% Inc</u>
2017	270		
2018	<i>No Data</i>		
2019	320	50	19%
2020	344	24	8%
2021	386	42	12%
2022	406	20	5%
<b>Total</b>		<b>136</b>	<b>50%</b>

# Projected Expansion

At its current rate, Houston's bicycle network is projected to grow to **500 miles by 2026**

Projected Increase in Total Network Miles



- Current Growth: 26 mi/year
- Projected Mileage in 2037: 796

*To reach the Houston Bike Plan's Long-Term Vision (1,789 mi) by 2037, the network needs to grow by **92 mi/year**.*

# Goal: Improve Safety

Metric	2016	2018	2020	2022	Δ Since Last Report (2021)	Δ Since Bike Plan (2016)	Δ Average Per Year
# of bicycle-related crashes reported	417	397	320	391	<b>+22%</b> (+71)	<b>-6%</b> (-26)	<b>-1%</b> (-4.33)
# of bicycle-related fatalities (5-yr avg)	5.4	6.8	10.4	12.0	<b>+15%</b> (+1.6)	<b>+122%</b> (+6.6)	<b>+20%</b> (+1.1)
# of bicycle fatalities per 10,000 commuters	10.22	12.47	23.36	23.41	<b>+0%</b> (+0.05)	<b>+129%</b> (+13.19)	<b>+22%</b> +(2.20)
# of Bicycle Friendly Businesses	4	8	8	13	<b>+63%</b> (+5)	<b>+225%</b> (+9)	<b>+38%</b> (+1.5)
# of Bicycle Friendly Universities	0	1	1	1	<b>+0%</b> (+0)	<b>+100%</b> (+1)	<b>+17%</b> (+0.17)

# Goal: Increase Access

Metric: Within distance of a high-comfort bicycle facility	2016	2018	2020	2022	%Δ Since Last Report (2021)	%Δ Since Bike Plan (2016)	%Δ Average Per Year
% jobs within 1/2 mile	46%	50%	72%	65%	-9%	+41%	+7%
% population within 1/2 mile	38%	44%	48%	52%	+8%	+37%	+6%
% minority population within 1/2 mile	32%	46%	47%	48%	+2%	+50%	+8%
% low-income population within 1/2 mile	32%	42%	61%	64%	+5%	+100%	+17%
% population with comfortable access (within 1/2 mile) to Bayou Greenways	21%	42%	44%	46%	+5%	+119%	+20%
% Transit Nodes (Transit Centers, Park & Rides, and light rail stations) within 1/4 mile	37%	51%	47%	49%	+4%	+32%	+5%
% schools and libraries within 1/4 mile	23%	28%	27%	26%	-4%	+13%	+2%
% community and multi-service centers within 1/4 mile	33%	39%	39%	39%	0%	+18%	+3%

# Goal: Increase Ridership

Metric	2016	2018	2020	2022	Δ Since Last Report (2021)	Δ Since Bike Plan (2016)	Δ Average Per Year
Commute mode share	0.54%	0.53%	0.40%	0.30%	<b>-25%</b>	<b>-44%</b>	<b>-7%</b>
# of permanent count stations	2	4	4	4	<b>0% (0)</b>	<b>+100% (+2)</b>	<b>+17% (+0.33)</b>
# of bike boardings on METRO (annual)	262,649	283,019	187,514	174,736	<b>-7% (-12,778)</b>	<b>-33% (-87,913)</b>	<b>-6% (-14,652)</b>
# of BCycle checkouts (annual)	98,449	165,585	299,204	200,000	<b>-33% (-99,204)</b>	<b>+103% (+101,551)</b>	<b>+17% (+16,925)</b>
Annual city events that support increased ridership (Sunday Streets, Tour de Houston, BAC meetings, etc.)	11	29	22	16	<b>-27% (-6)</b>	<b>+45% (+5)</b>	<b>+8% (+0.83)</b>

# Goal: Develop and Maintain Facilities

Metric	2016	2018	2020	2022	Δ Since Last Report (2021)	Δ Since Bike Plan (2016)	Δ Average Per Year
Miles of high-comfort bikeways per capita (10,000 people) (existing and programmed)	1.17	1.5	1.72	2.4	+40% (+0.68)	+105% (+1.23)	+18% (+0.21)
Population within 1/4 mile of a BCycle Station	27,900	100,179	208,897	212,369	+2% (+3,472)	+661% (+184,469)	+110% (+30,745)
Jobs within 1/4 mile of a BCycle station	115,600	417,294	439,668	415,199	-6% (-24,469)	+167% (+259,599)	+28% (+43,267)
% of major transit nodes with secured bike parking	4%	4%	35%	TBD	TBD	TBD	TBD
Dedicated City staff (FTE) for bikeway program	1	5	No data	7.6	-	+660% (+6.6)	+110% (+1.1)

# Future Metrics

Metric	Notes/Staff Comments
# of scheduled bikeways closures/detours	<i>Maintain as a routine tally, not for report</i>
# bike crashes by council district	<i>Utilize VZ dashboard and reports for data</i>
Sweeper Usage	<i>Total number of miles swept Routine maintenance report (days out)</i>
Bike Friendly Training	<i>Metric was tracked in previous reports, but we need a more accurate way of tracking trainings given and attendance</i>
Share of transportation budget spent on cycling	<i>\$\$\$ spent on constructing bikeways (more/less than budgeted amount) Share of transportation budget spent on bikeways</i>



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# Open Forum

# Announcements and Events

# Texas Statewide Active Transportation Plan

- TxDOT is seeking public comments for Texas's first Statewide Active Transportation Plan
- Comments must be submitted or postmarked by Nov 30th
- Website:  
<https://www.txdot.gov/projects/projects-studies/statewide/statewide-active-transportation-plan.html>



**STATEWIDE  
ACTIVE  
TRANSPORTATION  
PLAN**

# NHHIP Public Meetings

- TxDOT is hosting a series of public meetings on the North Houston Highway Improvement Project (I-45)
- Meetings can be joined in person or virtual
- Website: <https://www.txdot.gov/nhhip/public-engagement/public-meeting-series-december-2023.html>

## PUBLIC MEETING SERIES SCHEDULE

### SEGMENT 3\* (DOWNTOWN ROADWAYS)

#### IN-PERSON:

**Wed., Dec. 6, 2023**  
St. John's Downtown Church  
2019 Crawford Street, Houston, TX 77002  
5 -7 p.m.  
**PRESENTATION: 5:15 P.M.**

#### VIRTUAL:

**Thurs., Dec. 7, 2023**  
5 -7 P.M.  
**PRESENTATION: 5:15 P.M.**  
[www.nhhipublicmeetings.com/Segment3](http://www.nhhipublicmeetings.com/Segment3)  
or scan the segment QR code



*\*Meeting will feature design changes and seek public feedback specific to the Project 3B reevaluation.*

### SEGMENT 2 (I-45 FROM I-10 TO I-610)

#### IN-PERSON:

**Mon., December 11, 2023**  
Moody Community Center  
3725 Fulton Street, Houston, TX 77009  
5 -7 p.m.  
**PRESENTATION: 5:15 P.M.**

#### VIRTUAL:

**Tue., Dec. 12, 2023**  
5 -7 p.m.  
**PRESENTATION: 5:15 P.M.**  
[www.nhhipublicmeetings.com/Segment2](http://www.nhhipublicmeetings.com/Segment2)  
or scan the segment QR code



### SEGMENT 1 (I-45 FROM I-610 TO BELTWAY 8)

#### IN-PERSON:

**Thurs., Dec. 14, 2023**  
Aldine Ninth Grade Center  
10650 North Freeway, Houston, TX 77037  
5 -7 p.m.  
**PRESENTATION: 5:15 P.M.**

#### VIRTUAL:

**Wed., Dec. 13, 2023**  
5 -7 p.m.  
**PRESENTATION: 5:15 P.M.**  
[www.nhhipublicmeetings.com/Segment1](http://www.nhhipublicmeetings.com/Segment1)  
or scan the segment QR code



Should you need assistance with meeting access services, translation services, or other accommodations, please call (713) 802-5199 no later than 4 p.m. by the following dates for:

- Segment 3 meetings, Thurs., Nov. 30, 2023
- Segment 2 meetings, Mon., Dec. 4, 2023
- Segment 1 meetings, Fri., Dec. 8, 2023

If you do not have internet access, you may call (713) 866-7040 between the hours of 8 a.m. and 5 p.m., Monday through Friday, to ask questions and access project materials during the project development process, by appointment only with TxDOT staff. Those without internet access are encouraged to attend in-person meetings.

# Announcements

## Next Meetings

- Education Subcommittee: December 20, 2:30-4:30pm
- Bicycle Advisory Committee: January 24, 2:30-4:30pm
- Infrastructure Subcommittee: February 28, 2:30-4:30pm

# Thank You



PLANNING &  
DEVELOPMENT  
DEPARTMENT

832-393-6600 | [www.houston.tx.gov/planning](http://www.houston.tx.gov/planning)