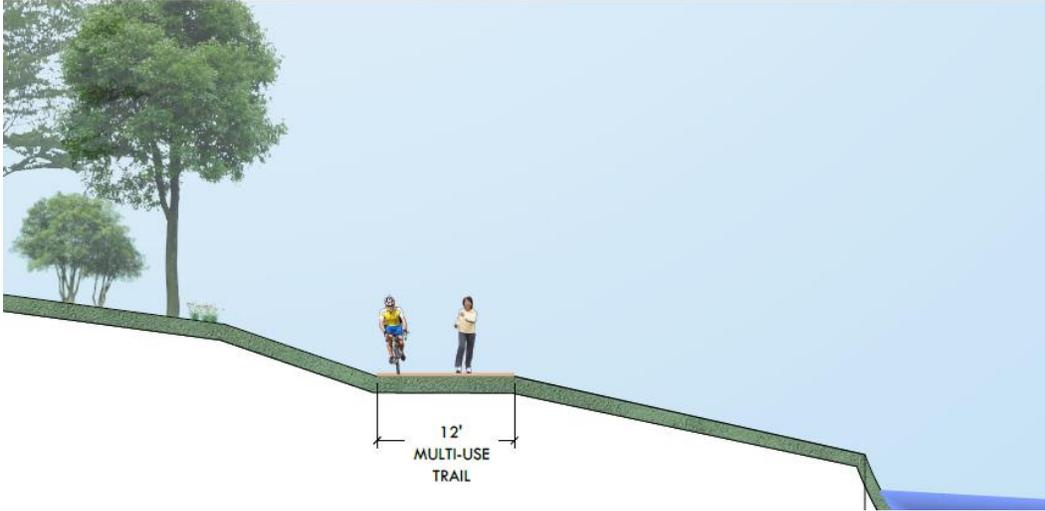# Phase 2 Hike and Bike Trail Improvements

Site Feasibility Study for Proposed
Alignments – Preliminary Observations

12'
MULTI-USE
TRAIL

2013 Parks, Recreation, and Open Space Master Plan Trail Alignments

- Multi-use pathways on street rights-of-way
- Multi-use pathways on drainage corridors
- Multi-use pathways on utility corridors
- Signed "share-the-road" routes

Proposed Trails 2013
- ●●● Phase 1
- ●●● Phase 2
- ●●● Phase 3
- ●●● Share the Road Route
- ▭ City_Limits
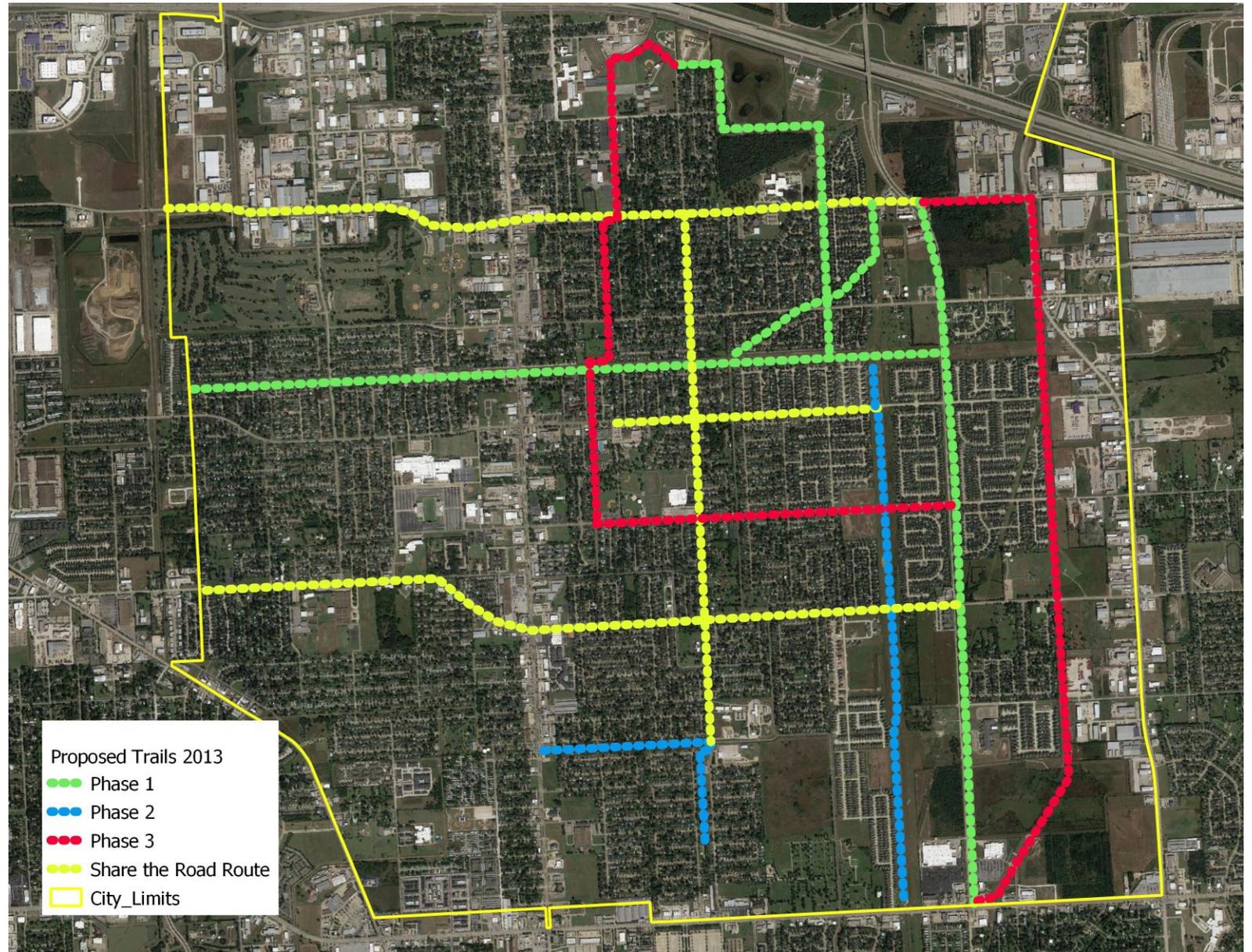
2013 Planned Trails

Segment	Type	Length (miles)	Description	Unit Cost	Estimated Cost Low	Estimated Cost High	Estimated Cost - Concrete Option	Implementation
Centerpoint Energy Easement from Louisiana Ave. to East Blvd.	Utility Corridor	2.62	8' Wide Decomposed Granite	$16 to $24/LF	$221,654	$332,481	$817,348	Phase 1
East Blvd. from Spencer Hwy. to 13th St.	Path on Road ROW	2.49	8' Wide Decomposed Granite	$16 to $24/LF	$210,754	$316,131	$777,154	Phase 1
Drainage Easement through Wynfield Park and Running Brook Park	Drainage Corridor	0.79	8' Wide Decomposed Granite	$16 to $24/LF	$66,739	$100,109	$246,101	Phase 1
Drainage Easement from College Park to City Warehouse Rd.	Drainage Corridor	0.40	8' Wide Decomposed Granite	$16 to $24/LF	$33,658	$50,486	$124,112	Phase 2
Drainage Easement from Center St. to Luella Ave.	Drainage Corridor	0.60	8' Wide Decomposed Granite	$16 to $24/LF	$50,373	$75,560	$185,751	Phase 2
Centerpoint Energy Easement from East Meadows Park to Centerpoint Energy Easement North of San Augustine St.	Utility Corridor	1.89	8' Wide Decomposed Granite	$16 to $24/LF	$159,667	$239,501	$588,773	Phase 2
East 13th Channel from San Jacinto Elementary to Centerpoint Energy Easement South of X St.	Drainage Corridor	1.56	8' Wide Decomposed Granite	$16 to $24/LF	$131,789	$197,683	$485,971	Phase 3
Patrick's Bayou from San Jacinto Elementary to P St.	Drainage Corridor	2.01	8' Wide Decomposed Granite	$16 to $24/LF	$169,805	$254,707	$626,155	Phase 3
P St. from Patrick's Bayou to East Blvd.	Path on Road ROW	1.27	8' Wide Decomposed Granite	$16 to $24/LF	$107,290	$160,934	$395,630	Phase 3
Drainage Easement from East 13th to Spencer Hwy.	Drainage Corridor	3.00	8' Wide Decomposed Granite	$16 to $24/LF	$253,440	$380,160	$934,560	Phase 3
		16.63			$1,405,168	$2,107,752	$5,181,557	

Types of Proposed Routes

Drainage and Utility Trails

Shared-Use Paths along Roads

Share-The-Road Routes

Existing Conditions

Challenges

Existing Infrastructure
- Limited ROW on some streets lead to missing barriers and narrow sidewalks
- Encroachment and residential parking on the sidewalks and ROW
- ADA accessibility at curb cuts
- Disconnected sidewalks
- Potential Flooding issues
- Different width sidewalks

Future Infrastructure
- Obstacles in the ROW (e.g. electricity poles, drainage ditch, underground utility.)
- Uneven elevation of the ROW

Opportunities
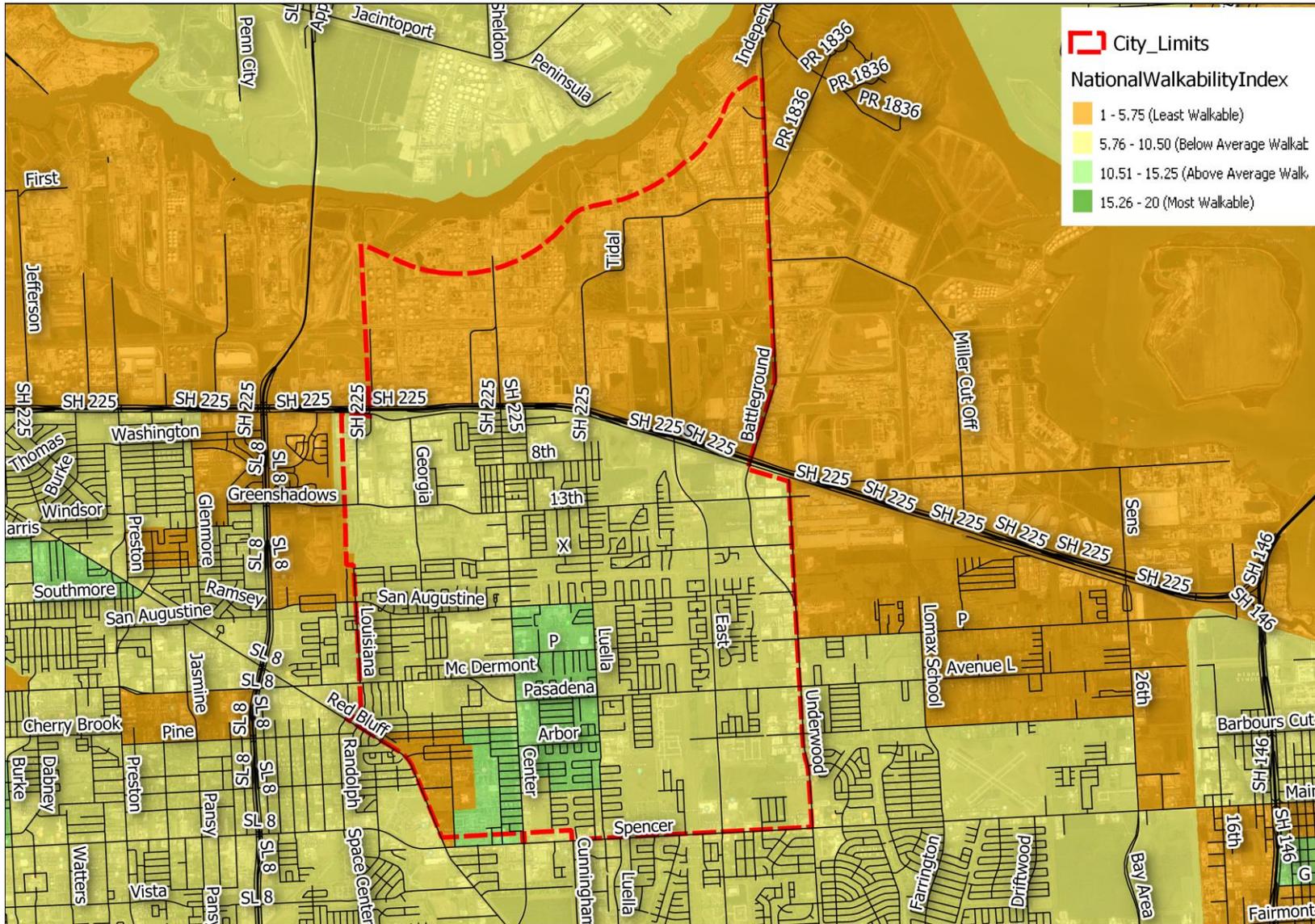
Existing infrastructure
- Wide range of sidewalk coverage
- Sidewalks connecting with many the points of interests(e.g. schools, parks, trailheads, churches, city hall, etc.)
- Pedestrians and cyclists are actively using the sidewalks and roadways

Future Infrastructure
- Wide drainage and utility ROW provide connection to neighborhoods
- Wide road ROW along some routes
- Available space for potential connections

Walkability Index Map

Legend:

City_Limits

NationalWalkabilityIndex
- 1 - 5.75 (Least Walkable)
- 5.76 - 10.50 (Below Average Walkab...)
- 10.51 - 15.25 (Above Average Walk...)
- 15.26 - 20 (Most Walkable)

Scale: 0 — 2500 ft

Walkability

The Walkability Index dataset characterizes every Census 2010 block group in the U.S. based on its relative walkability. Walkability depends upon characteristics of the built environment that influence the likelihood of walking being used as a mode of travel. The Walkability Index is based on the EPA's previous data product, the Smart Location Database (SLD). Block group data from the SLD was the only input into the Walkability Index, and consisted of four variables from the SLD weighted in a formula to create the new Walkability Index. This dataset shares the SLD's block group boundary definitions from Census 2010.
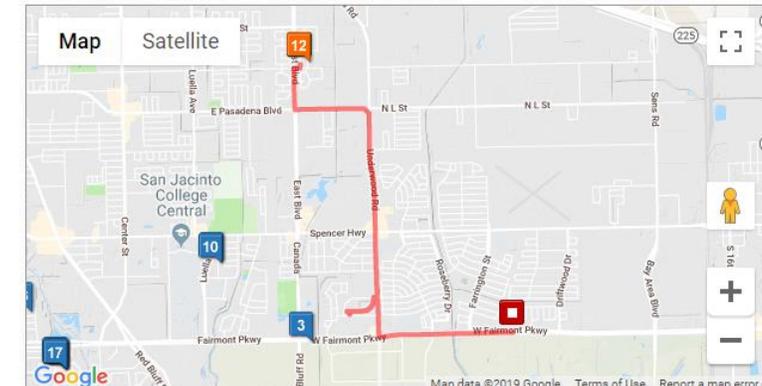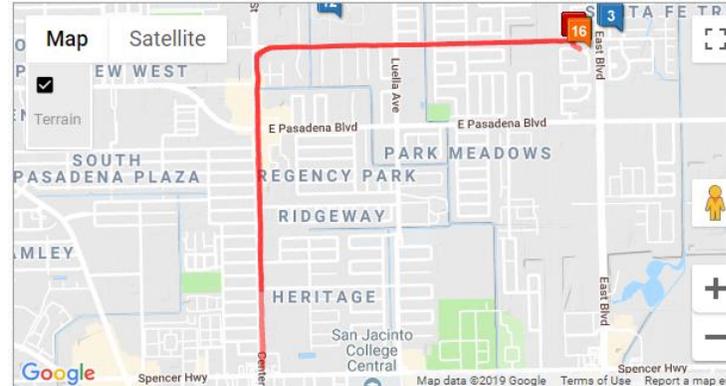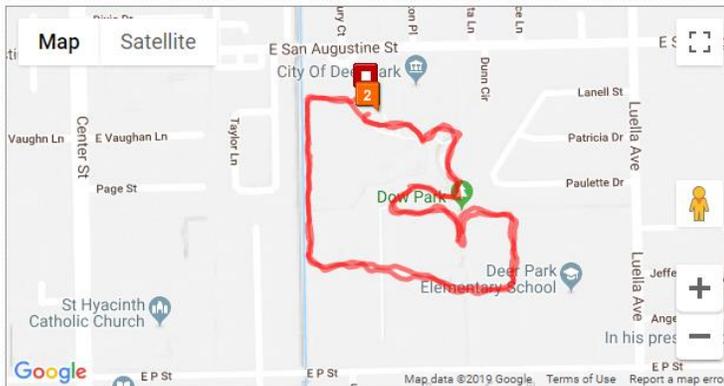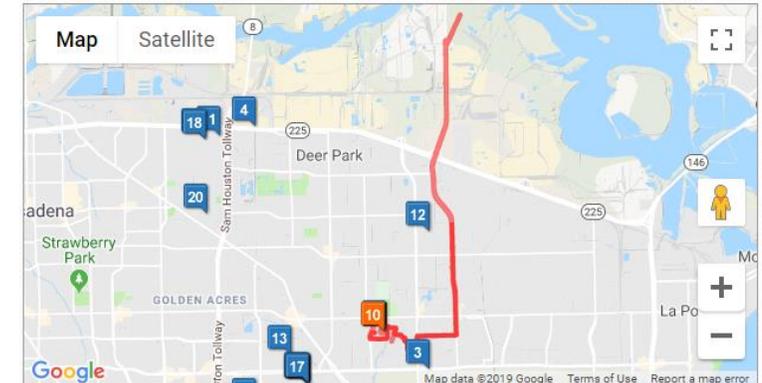
Source: EPA Smart Location Database

DEER ★ PARK
Birthplace of Texas

BURDITT
Land|Place

Local Pedestrian and Cycling Activity

1.34mi walk on 7/29/13
DISTANCE: **1.34** mi
ELEVATION: 9
CREATED: 07/29/2013
Zoom In

1.12mi walk on 9/28/13
DISTANCE: **1.12** mi
ELEVATION: 16
CREATED: 09/28/2013
Zoom In

17.55 mi road cycling on 09/29/...
DISTANCE: **17.6** mi
ELEVATION: 143
CREATED: 09/29/2013
Zoom In

2.13mi walk on 10/22/13
DISTANCE: **2.13** mi
ELEVATION: 9
CREATED: 10/22/2013
Zoom In

Ran 5.54 mi on 04/30/2013
DISTANCE: **5.54** mi
ELEVATION: 37
CREATED: 04/30/2013
Zoom In

5.31mi road cycling on 7/20/13
DISTANCE: **5.32** mi
ELEVATION: 32
CREATED: 07/21/2013
Zoom In

DEER ★ PARK — *Birthplace of Texas®*

Phase 2 Hike and Bike Trail Improvements

BURDITT Land | Place

Local Pedestrian and Cycling Activity

Source:Mapmyride.com

Phase 2 Hike and Bike Trail Improvements
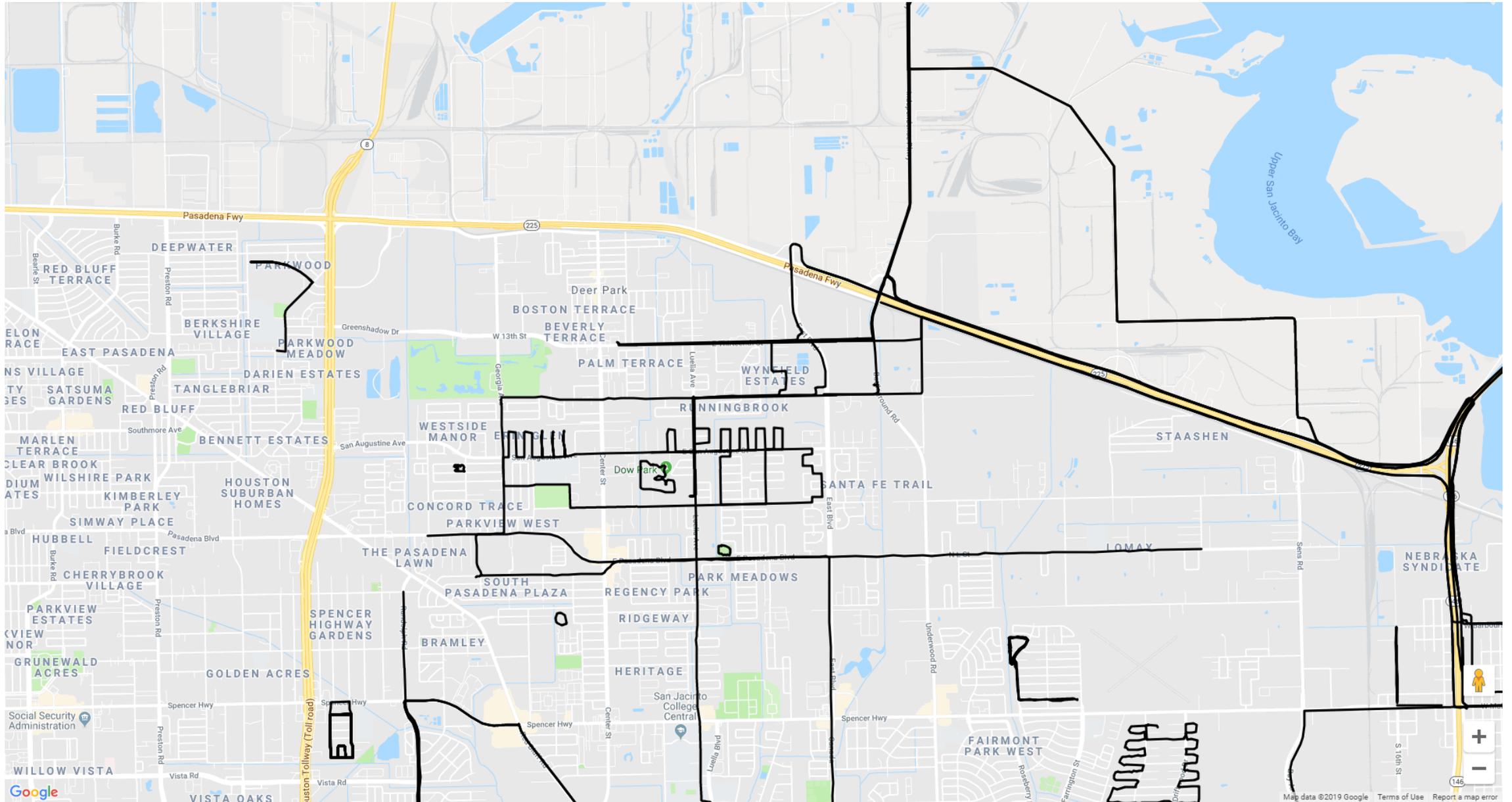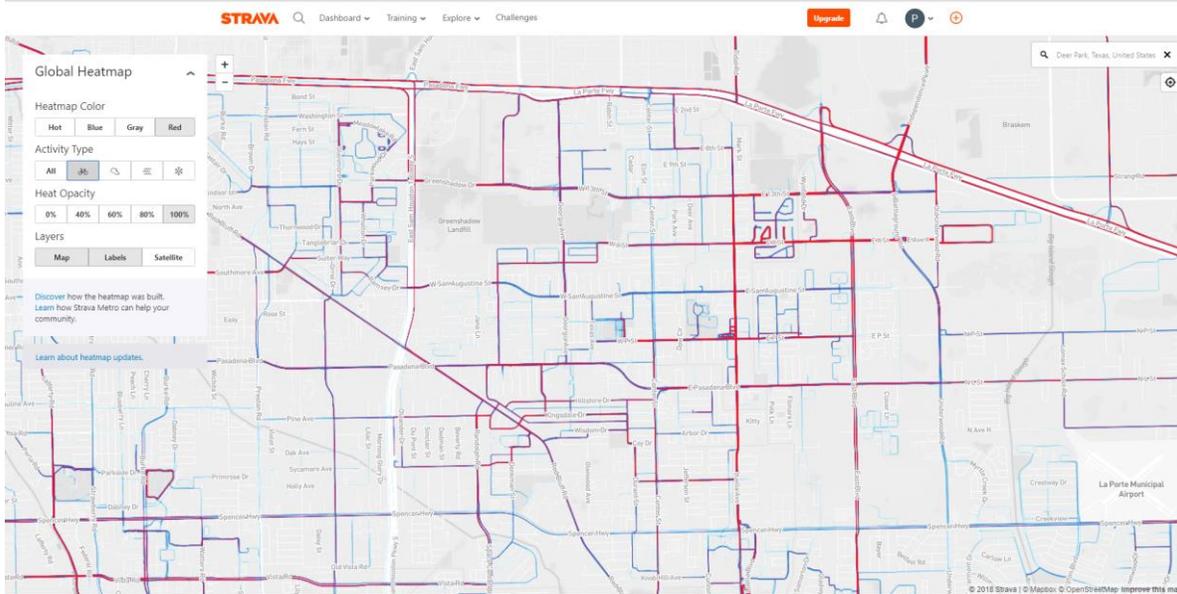
Local Pedestrian and Cycling Activity from Fitness Trackers
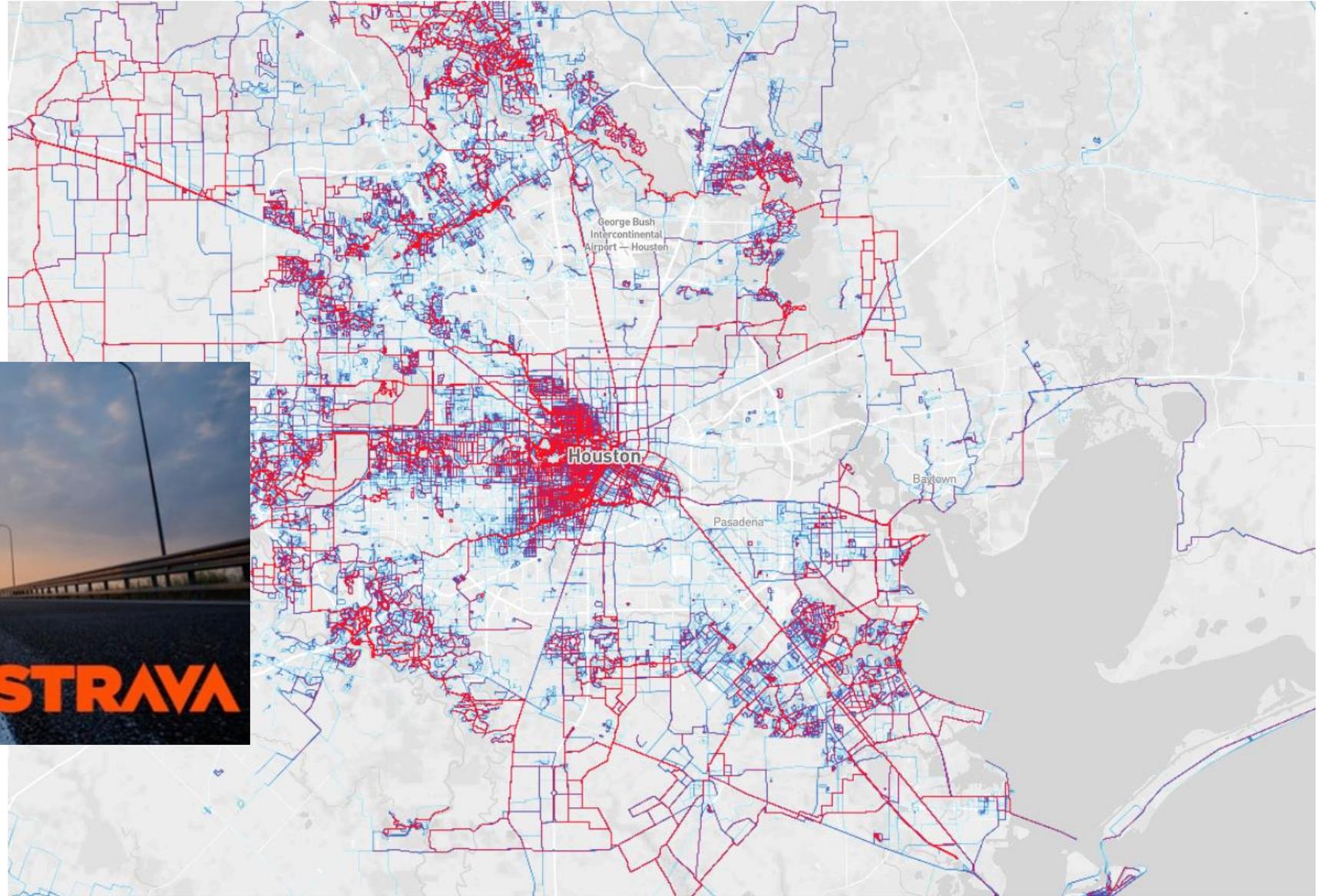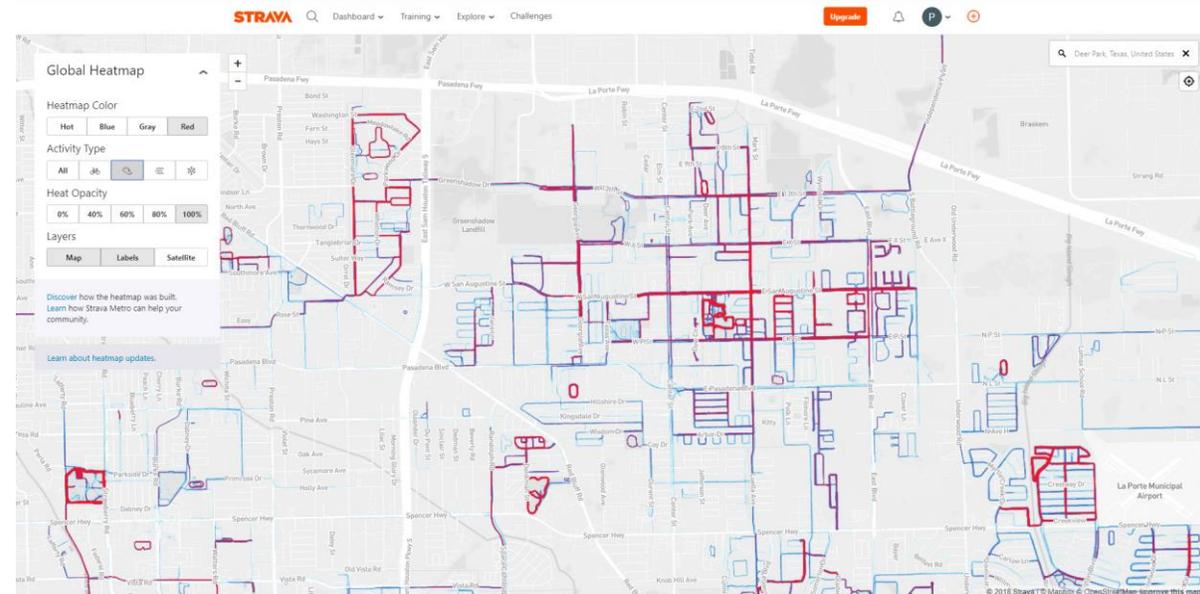
Click for STRAVA Global Heatmap

Hot Routes for Running

- Luella Street
- San Augustine Street
- E. X Street
- E. P Street
- Georgia Avenue
- E. 13th Street
- East Blvd.

Hot Routes for Cycling

- Luella Street
- East Boulevard
- Red Bluff Road
- E. X Street
- E. 13th Street
- Pasadena Boulevard
- E. P Street

Discussion