Welcome!

- By default Zoom has muted your microphone. Please wait patiently for the meeting to start.
- Before we start we will confirm who is on the call. Only Steering Committee members should be on this call.
- How to ask a question: Go to the bottom of your screen and click "Participants". This should open a pop-up window at the bottom of which are three options, including "Unmute Me", "Raise Hand" and "Claim Host". To ask a question, click "Raise Hand". This will notify the host that you would like to ask a question, allowing the host to pause, say your name, and wait for your question. You can also type your questions into the chat window.
- We appreciate your patience as we learn how to conduct online meetings together.

Oakland Plan

STEERING COMMITTEE – MEETING 9

June 2020

Today

Topic	Duration	Presenter
Moment of Contemplation **Centering on Equity and Sustainability**	5 min	Josiah Gilliam, Derek Dauphin
Updates • Engagement Site • Meeting Agenda for July • Meeting Times	10 min	Derek Dauphin
Homework Report Out	5 min	Sophie Robison
Infrastructure Presentations and Discussion • Climate Action Plan • Trees • Open Space • Stormwater • Energy	50 min	Sarah Yeager, Matt Erb, Kara Smith, Ben Grunauer, Megan Zeigler, All
New Homework	5 min	Derek Dauphin

Engagement Site Update

- Staff are developing content now with the target for going live for early July. Will be active for one month.
- Will have main page where input activities will focus on establishing a collective vision for the future of Oakland.
- Action Teams will have their own subpages where content will be ordered by the topics in the Neighborhood Plan Guide. Engagement activities on these pages will focus on gathering input on goals.
- Special Steering Committee meeting work session will happen next week.

Engagement Site Update

- Agenda for the engagement site work session: Overview of the site, engagement activities, discuss ways to connect people with the online engagement opportunities.
- Your role for the July engagement site: Share the site with those you represent (staff will provide social media and email content, physical media), create your own account, participate in the engagement activities and discussions.

Meeting Agenda for July

- We’ll review the input up to that point.
- Discuss experiences using the site, lessons learned.
- Prepare for the first Action Team meetings in August.

Meeting Times Update

- Discussed the proposal to change the meeting time with the resident representatives.
- Due to COVID response operations within the neighborhoods, the 3 p.m. time that was most popular at our last meeting would also make it impossible for some resident representatives to attend.
- A few new options were identified and we would like to run through them using Zoom’s polling function.

Last Month’s Homework

Question from Megan Zeigler (GBA): What is your favorite tree in Oakland that provides shade? This can be a street tree, a tree in a park, or in another space in Oakland.

- Trees outside **Carnegie Library** as a favorite spot to "sit on a **picnic** bench and do homework in the shade and... **hammock**”.
- The trees along the west façade of the Carnegie **Museums.**
- In Schenley Park: a special tree across from **Phipps**, the mixed-oak grove on the SE side of **Flagstaff Hill** (love "how different they all are, and **how free they are to spread** their canopies"), the opposite side of Flagstaff near Frew Street (it's an "outlier" in that it's more than 50 years older than the others).
- The **weeping beech** next to the Spanish War Memorial near Anderson Park.
- Tree by Langley/bus stop: "I waited for the 58 there and **when there wasn't room on the bench, I'd stand under the tree to get a bit of protection** from the elements."
- Trees covering the hill of the Oakcliffe area.

Last Month’s Homework

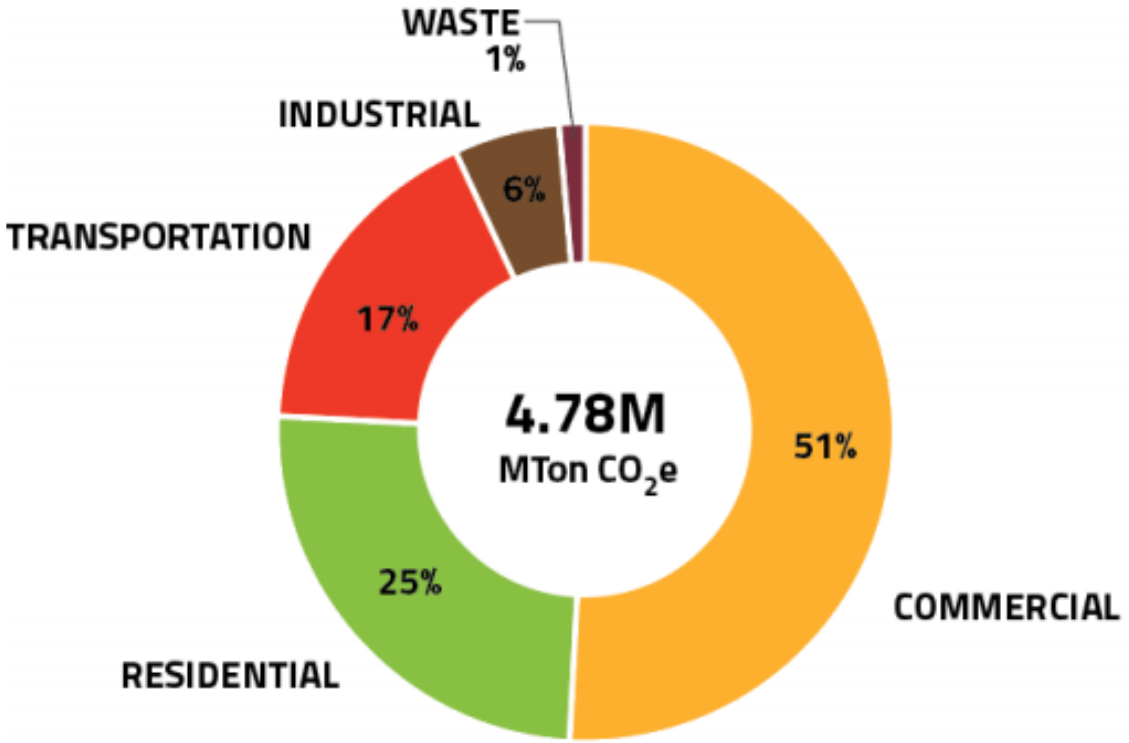
Question from Andrea Boykowycz (OPDC): Many parts of Oakland lack trees and shade. What place do you feel is most in need of a tree and the shade it would provide? This could be along a street, park, or other space in Oakland.

- **Green space decreases** on **Forbes** and **Meyren** down. If the sidewalk was expanded, trees or planters would encourage motorists to slow and improve pedestrian experience.
- **Schenley Plaza** needs more **shade; Atwood**/**Dawson** missing trees and green space.
- Trees along **Fifth** & **Forbes** (line the street, break up the spawl of grey concrete, filter the air), trees along all business corridors (go from "**concrete jungle to a neighborhood street**").
- The south side of **Forbes** sidewalk between **Bigelow** and **Schenley Drive Ext.**
- **Oakland Ave** from **Bates** to **Sennott** has wide sidewalks and deep setbacks, great opportunity for street trees. Another response also highlighted **Bates Street.**
- **Coltart** is very bright and hot in the summer but has less room: "generally would love to see trees **encroach on on-street parking on pretty much every street in Oakland**”.
- From the **Boulevard** to **North O**: renter dense areas need not look like an uncomfortable temporary home, could emulate the look of rental home streets in Shadyside.

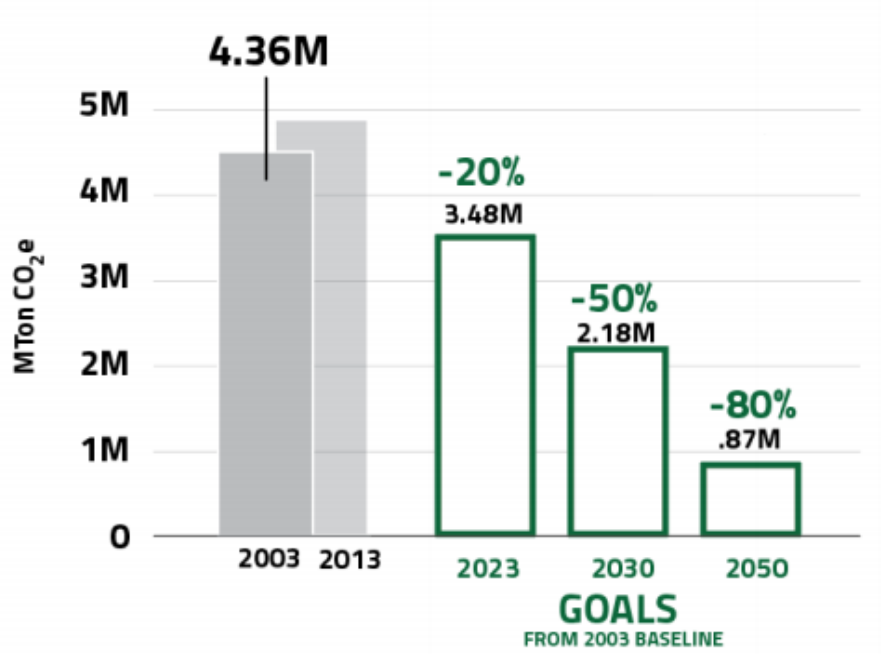
Existing Conditions: Infrastructure

Pittsburgh Climate Action Plan

Pittsburgh Climate Goals



TOTAL EMISSION REDUCTIONS:



20% GHG Reduction by 2023
50% GHG Reduction by 2030
80% GHG Reduction by 2050

Pittsburgh Climate Goals

2030 GOALS:

CITY OPERATIONS

100% renewable elect.

100% fossil fuel free fleet

Divestment of City pensions

CITY OF PITTSBURGH

50% energy & water use

50% transport emission

Zero waste

PITTSBURGH CLIMATE ACTION PLAN 3.0

Energy Generation and Distribution

Buildings and End Use Efficiency

Transportation and Land Use

Waste and Resource Recovery

Food and Agriculture

Urban Ecosystems

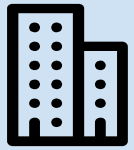
Pittsburgh Climate Goals

Objective

50%
by 2030

100%
clean electricity

Strategies



LOWER ENERGY CONSUMPTION
by improving renewable financing options and energy efficiency codes

REDUCE EMISSIONS FROM TRANSPORTATION
by improving public transit and pedestrian conditions

Goals

- Implement and prioritize district energy systems
- Electric vehicle charging in municipally owned parking lots
- Community solar projects or other local renewable energy initiatives at scale
- New financing programs for energy efficiency, renewables, and infrastructure
- Benchmarking, audit, and retro-commissioning (RCx) policies for existing buildings
- Incentives and demonstration projects for building decarbonization with a focus on City facilities
- Electrify city fleets and buses
- Improve access to charging infrastructure and encourage private EV ownership
- Implement high priority segments in the walking and bicycling network

Oakland's Tree Canopy Change 2010 to 2015

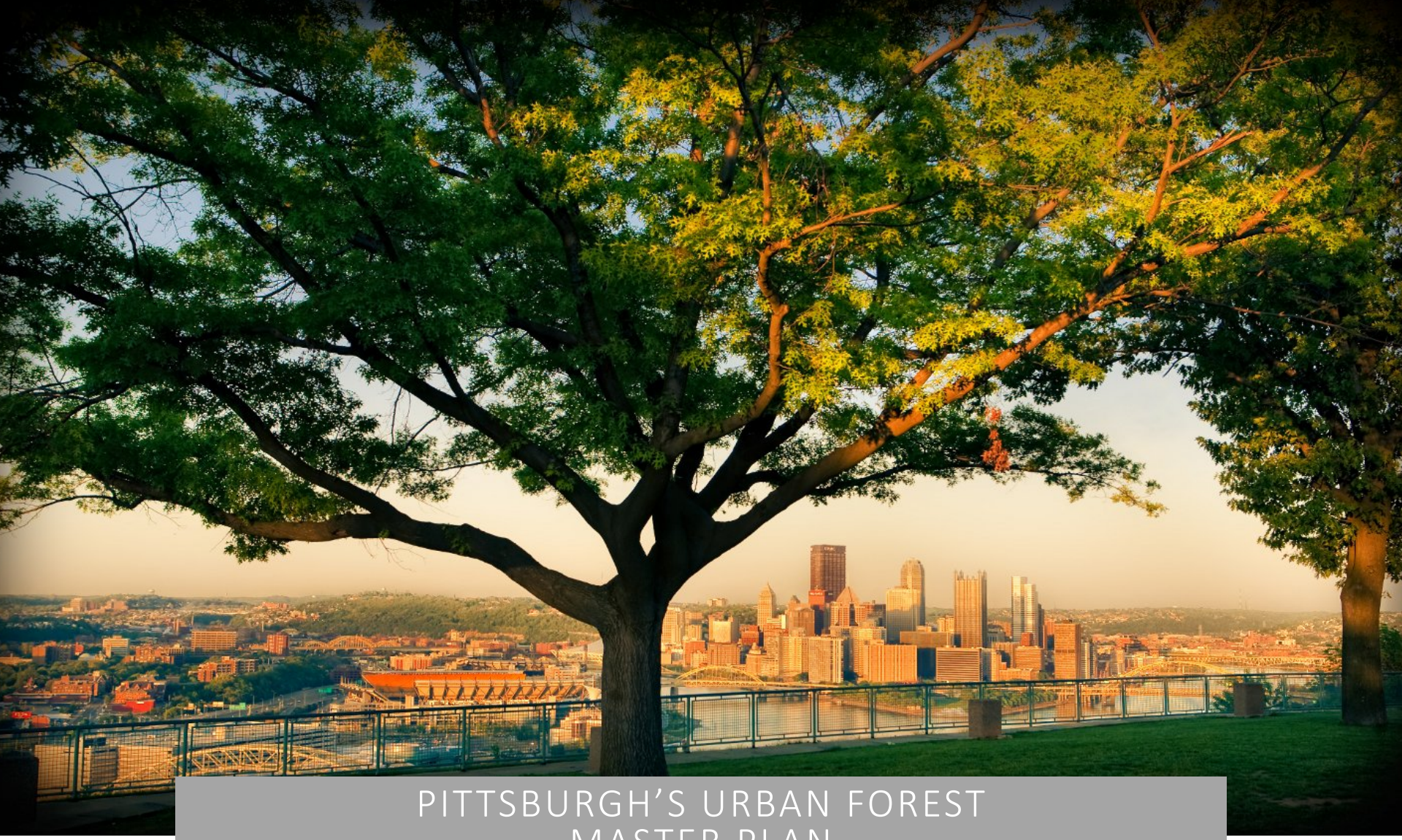
Matt Erb

TREE PITTSBURGH
Protecting and Growing our Urban Forest

TREE PITTSBURGH

Tree Pittsburgh's mission is to protect and restore the County's urban forest through community tree planting and care, education, and advocacy.

Founded in 2006 to assist in the implementation of the Street Tree Management Plan which showed $8 million backlog of work.



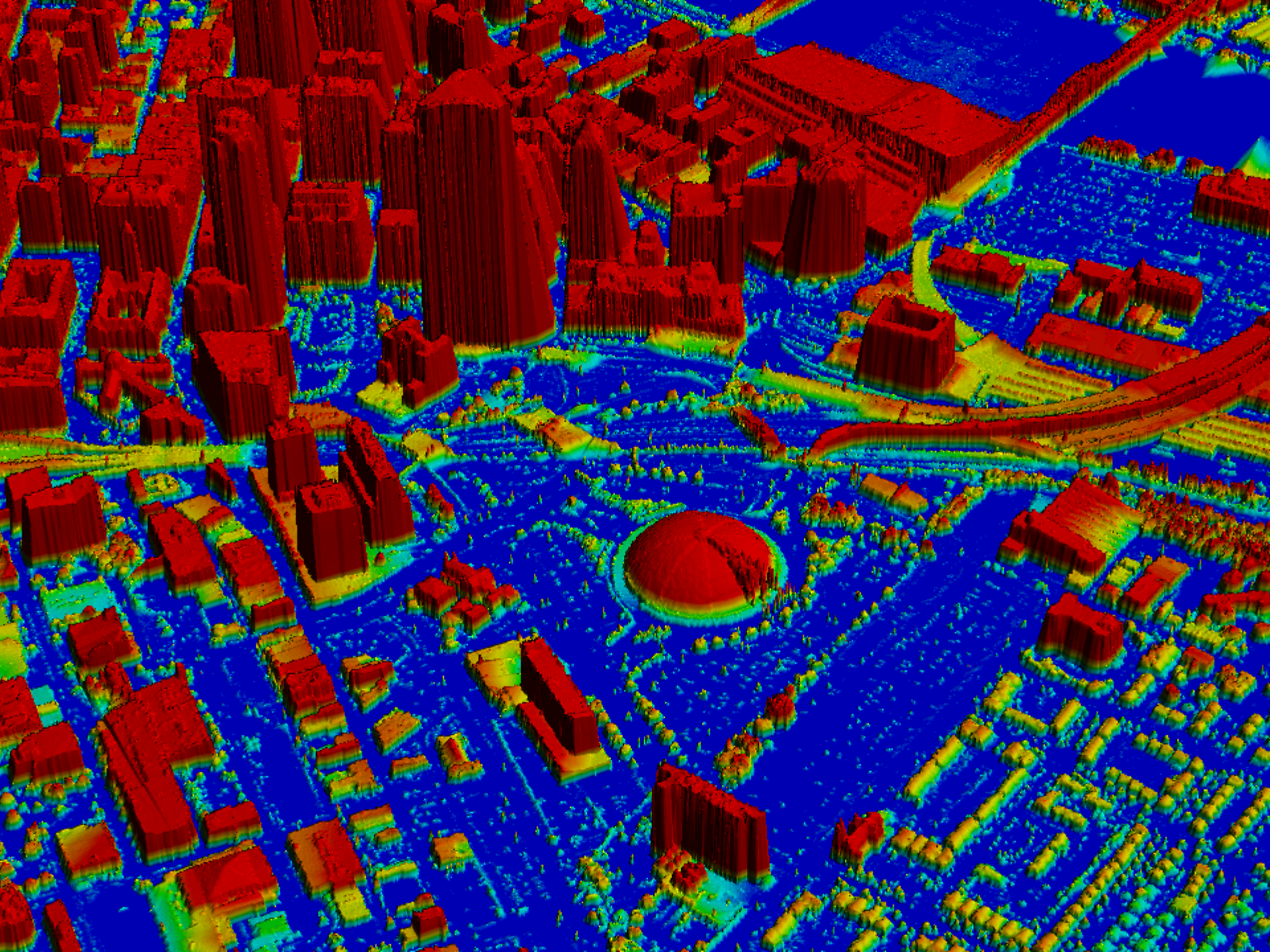
PITTSBURGH'S URBAN FOREST MASTER PLAN

A Road Map for the Effective Management of the Urban Forest

Urban Tree Canopy (UTC) Assessment

- **Measures the area covered by tree canopy (leaves, branches, stems) of the ground when measured from above**
- **Can help decision makers effectively plan and manage urban forest goals**
- **Initial study done in 2010 showed Allegheny had 56% tree canopy**


SCIENCE
SMITH-WRIGHT HALL



Pittsburgh Urban Tree Canopy 2015

N

TREE PITTSBURGH
Protecting and Growing our Urban Forest

CITY OF PITTSBURGH

2010 – 15,476 acres of tree canopy 44%

2015 – 14,515 acres of tree canopy 41%

6% loss of canopy in 5 years

Loss of 1,007 acres

-0.55 acres per day

Gain of 46

Net Loss of 961 acres

2.4 million trees = $17,232,600 in annual benefits

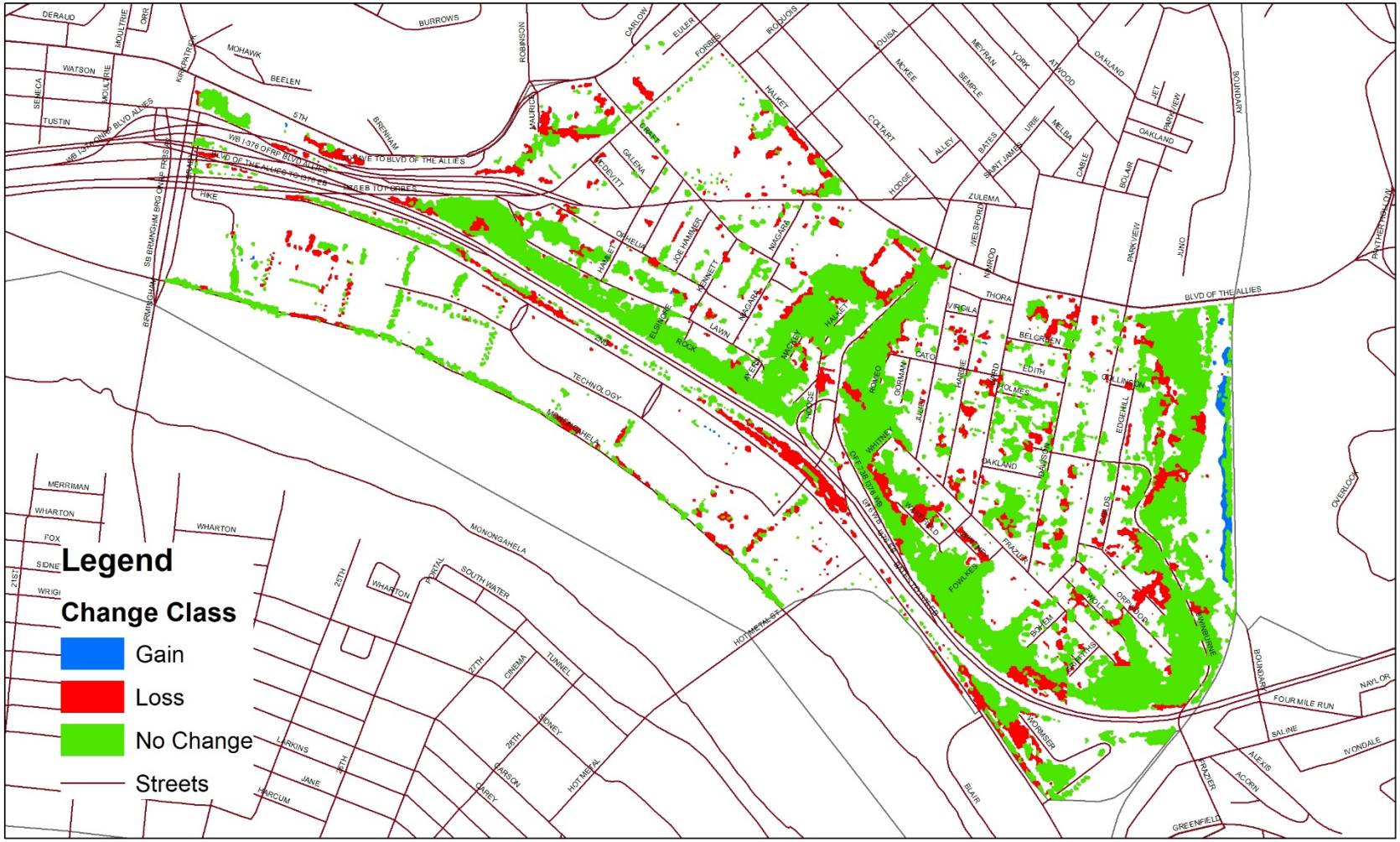
Loss of over $1 million in benefits annually

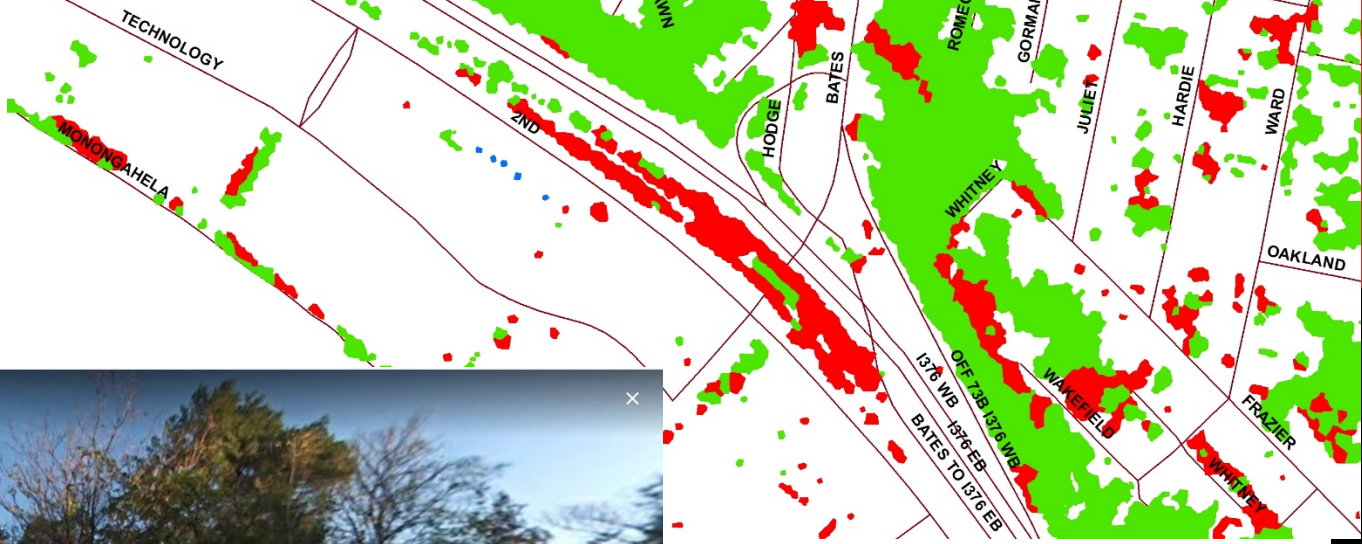
2011 i-Tree ECO Pgh Average of of 155 trees per acre

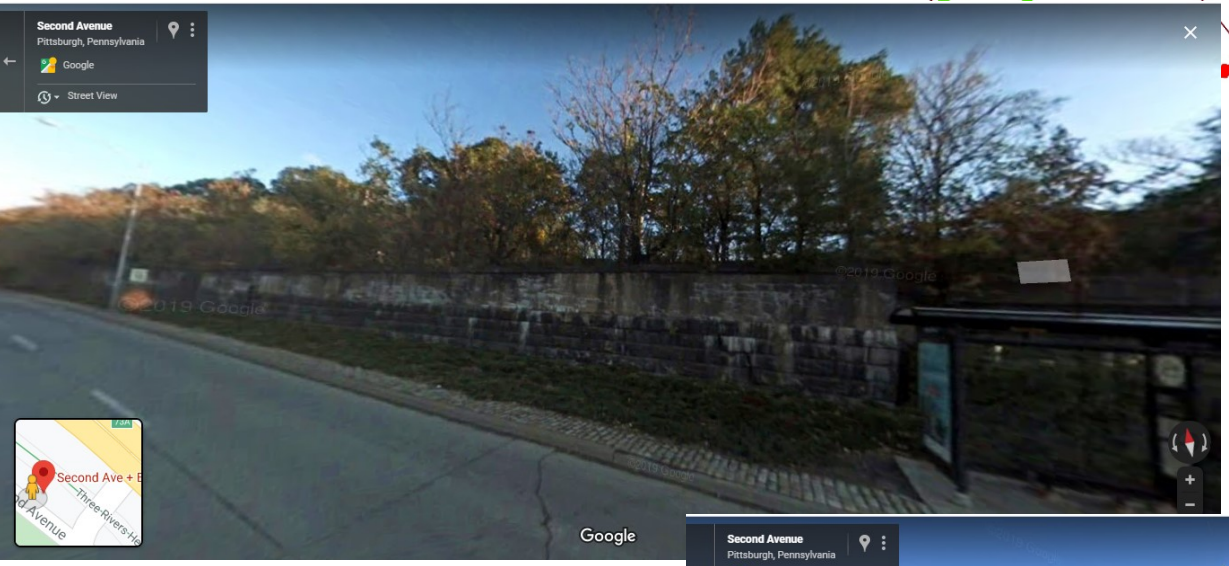
= loss of 156,085 trees lost over five years or the equivalent of 86 trees lost every day

Neighborhood	No Change Acres	Gain Acres	Loss Acres	2010 Canopy Acres	2015 Canopy Acres	Canopy Change %	2010 Tree Canopy %	2015 Tree Canopy %
South Oakland	76.6	0.9	18.3	94.9	77.5	-18.4	25.9	21.1
North Oakland	76.7	0.5	9.2	86.0	77.2	-10.2	26.9	24.2
West Oakland	52.5	0.1	4.3	56.8	52.6	-7.4	37.5	34.7
Central Oakland	32.0	1.2	5.2	37.1	33.2	-10.5	20.7	18.5
Total	**237.8**	**2.7**	**37**	**274.8**	**240.5**	**-12.5**	**27**	**24**

South Oakland Tree Canopy Change 2010-2015

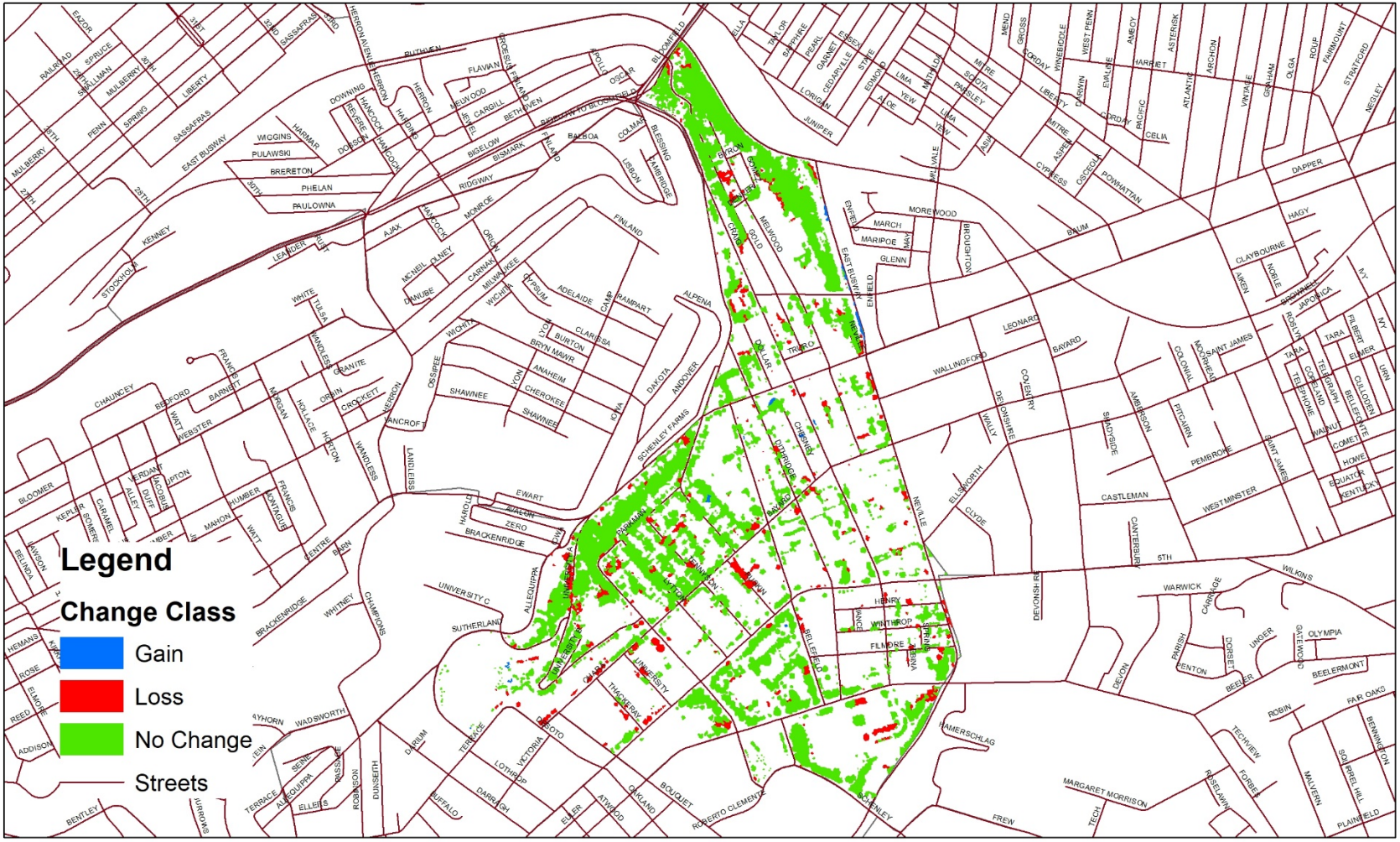


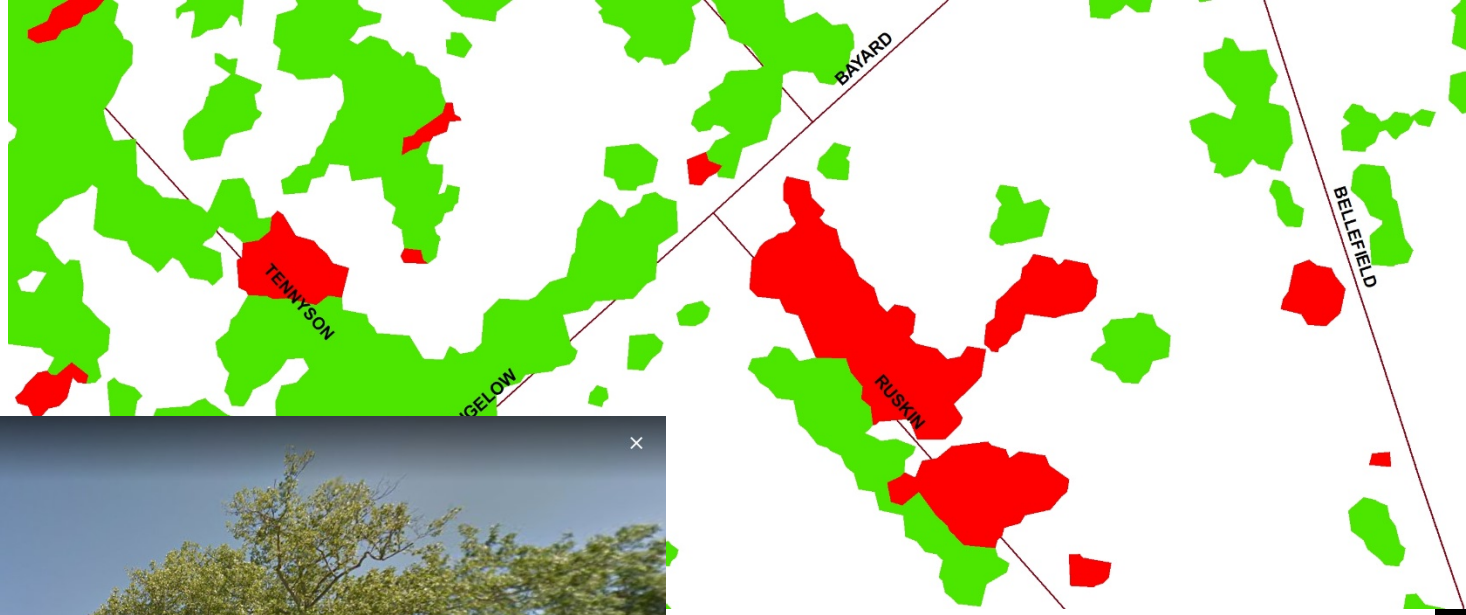

TECHNOLOGY
MONONGAHELA
2ND
HODGE
BATES
WHITNEY
JULIET
HARDIE
WARD
OAKLAND
FRAZIER
WAKEFIELD
I376 WB
I376-EB
OFF 73B I376 WB
BATES TO I376 EB


Second Avenue
Pittsburgh, Pennsylvania
Google
Street View
Second Ave + B
Google


Second Avenue
Pittsburgh, Pennsylvania
Google
Street View
Second Ave + B
Google

North Oakland Tree Canopy Change 2010-2015

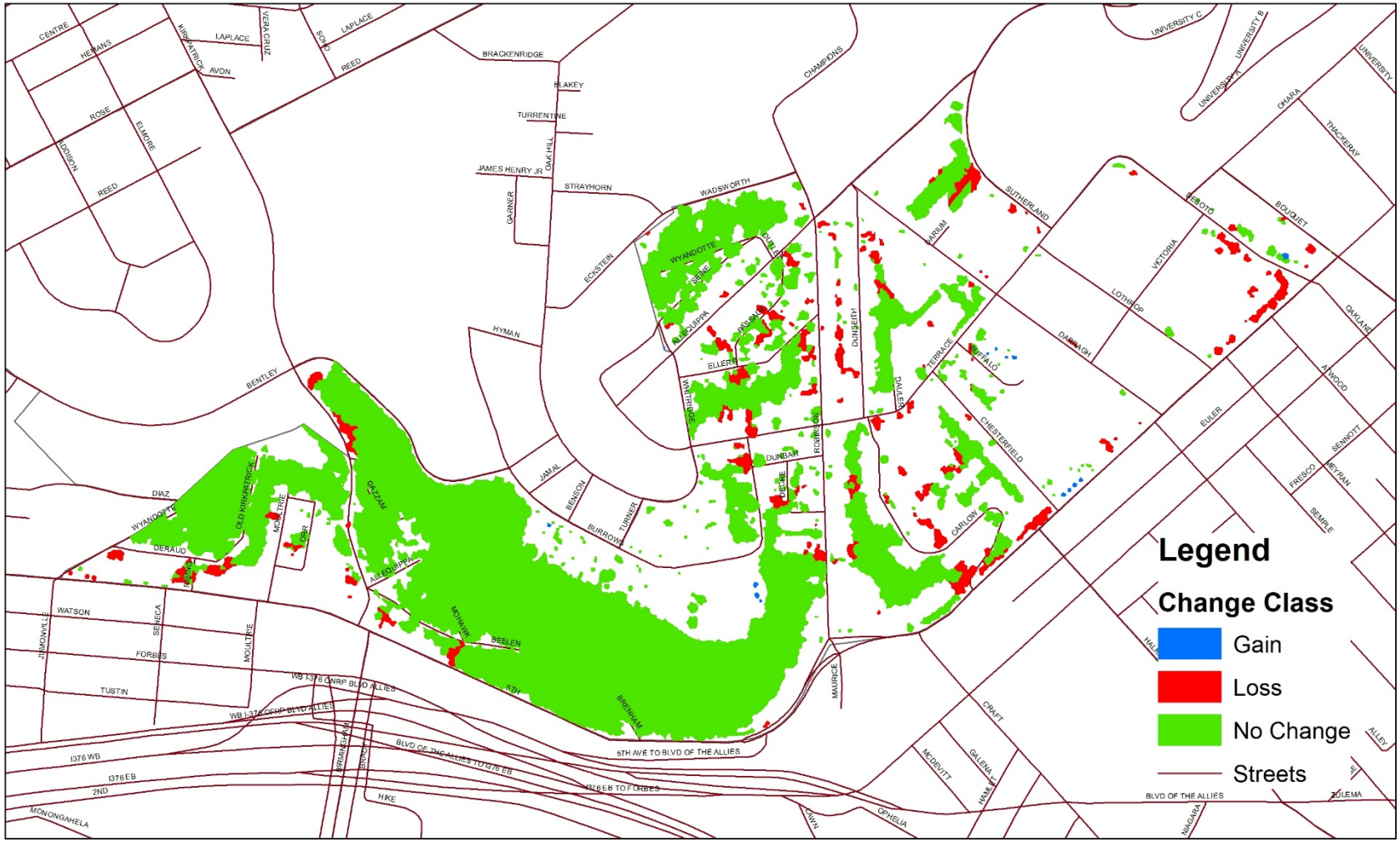



BAYARD
BELLEFIELD
TENNYSON
RUSKIN

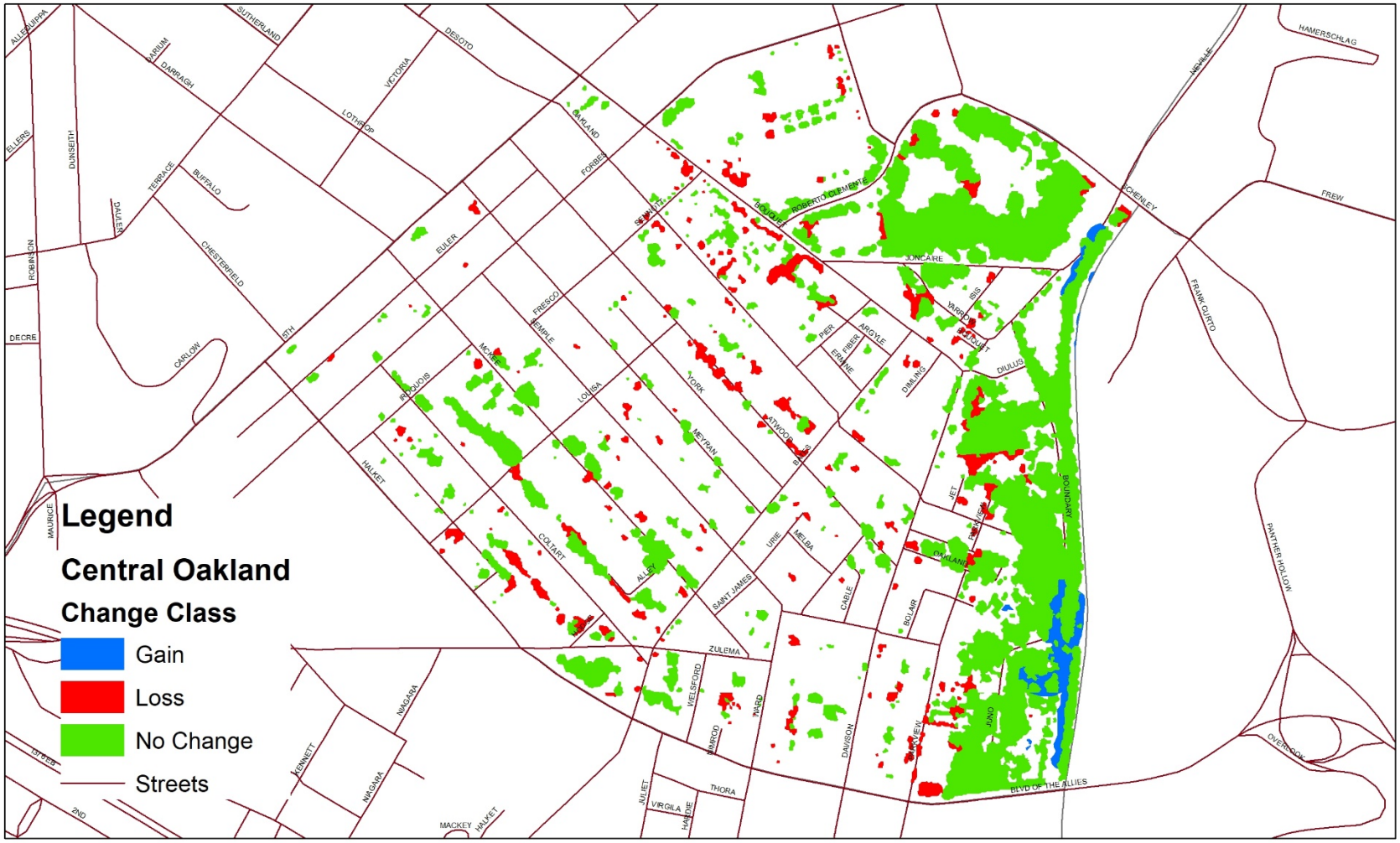

Google


Bigelow Blvd
Pittsburgh, Pennsylvania
Google
Street View

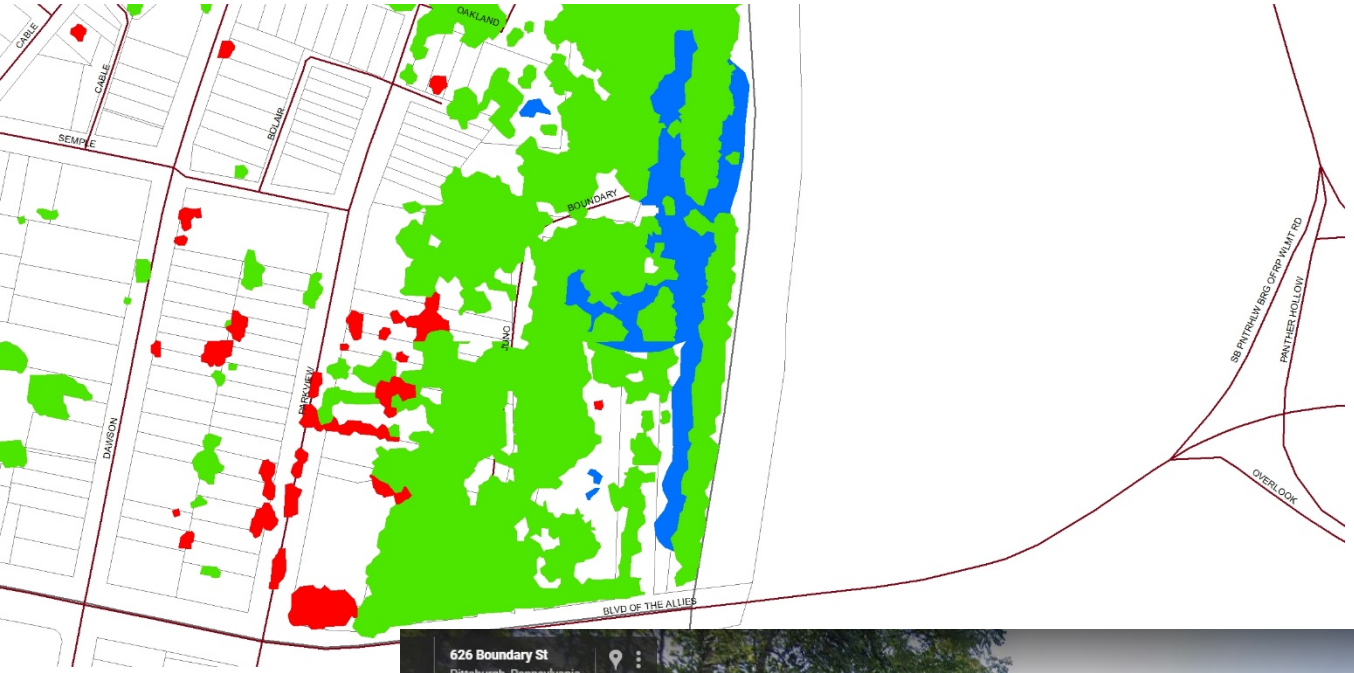
West Oakland Tree Canopy Change 2010-2015



Central Oakland Tree Canopy Change 2010-2015



1 ACRE REGENERATION AND ½ ACRE LOSS



HOW DOES THIS IMPACT US?

Trees ARE infrastructure!!!

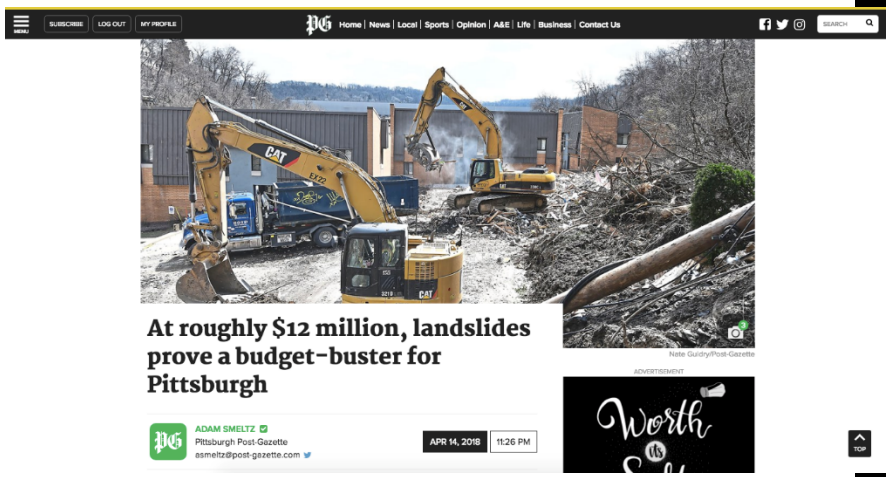
Loss of tree benefits ($$$$)

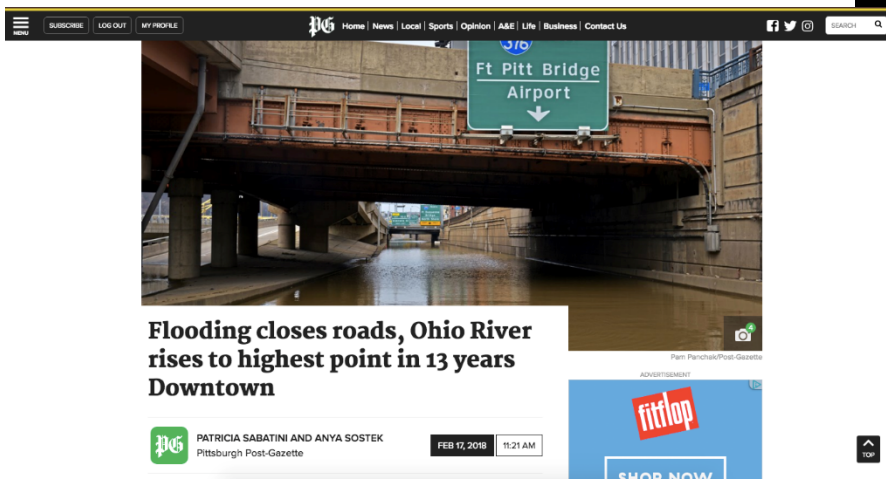
- Increase surface temperatures
- Increase stormwater runoff & erosion
- Increase in air pollution
- Loss of climate moderating forests
- Loss of human health benefits (increase mortality)
- Increase in urban noise

Increase in pervious surfaces

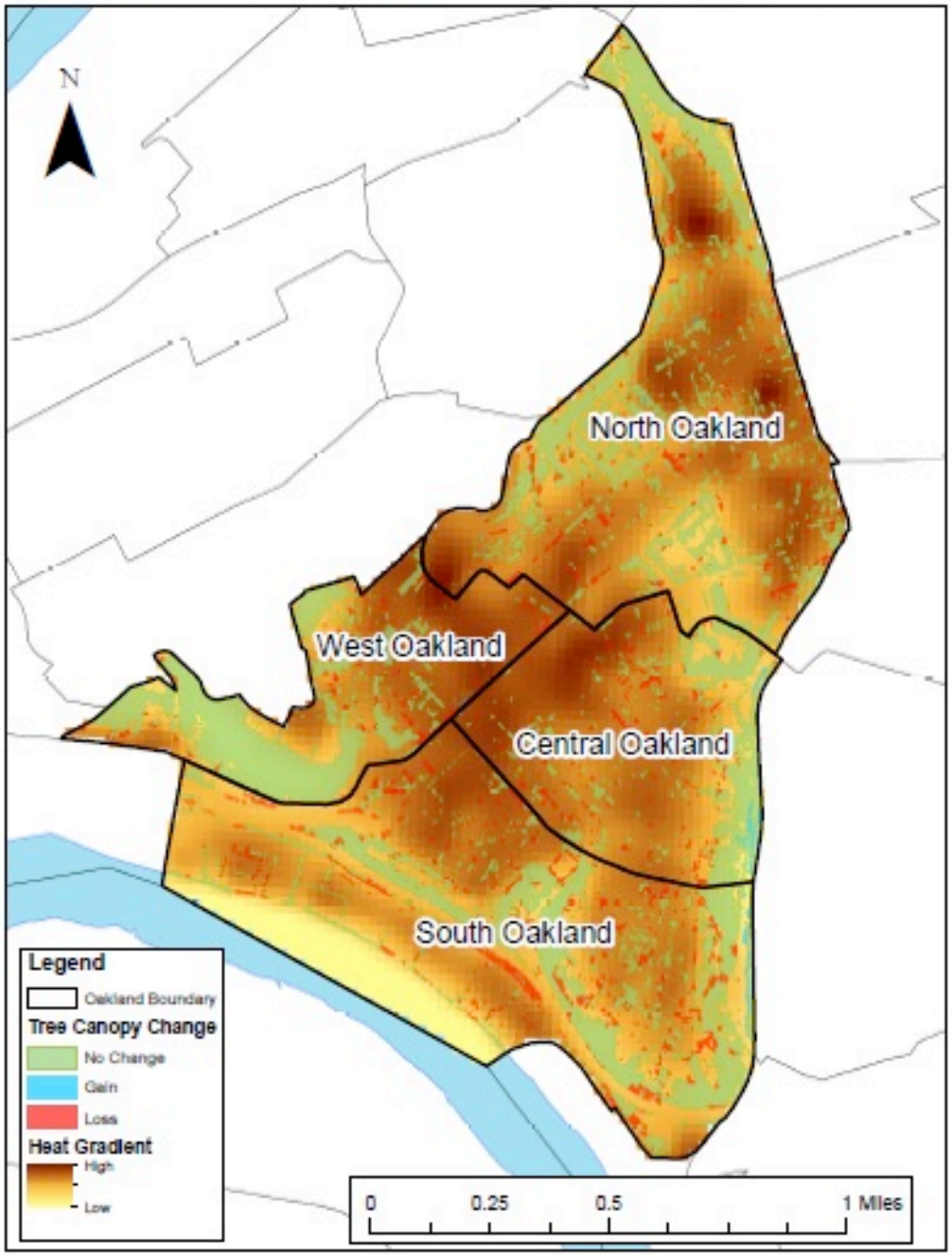
Decrease in biodiversity

Increased cost of management





Oakland Temperature and Canopy Map



WETTEST YEARS		PITTSBURGH
1	2018	57.83"
2	2004	57.41"
3	2019	52.46"
4	1890	50.61"
5	1865	50.50"
6	1950	48.38"

Eco Benefit	Value ($) 2015	2015 Value per TC Acre	Quantity of Material Removed
Air Quality			**Pounds**
CO	$143,293	$0.55	359,160
NO2	$290,503	$1.12	1,896,000
O3	$12,125,405	$46.57	10,200,180
SO2	$81,018	$0.31	1,564,940
PM10	$5,746,084	$22.07	3,899,120
Subtotal	**$18,386,303**	**$70.62**	**17,919,400**
Carbon			**Tons**
Storage	$1,504,897,512	$5,780.30	32,470,043
Sequestration	$59,923,244	$230.16	1,292,919
Subtotal	**$1,564,820,756**	**$6,010.46**	**33,762,929**
Stormwater*			**Gallons**
Avoided Runoff	$184,889,419	$710.16	4,622,235,481
Total	**$1,768,096,478**	**$6,791.24**	

LOOKING FORWARD

- Preservation of existing canopy is key to maintaining ecological services
- Quantity of trees planted each year needs to increase
- All trees contribute to the environmental, social, economic and human health benefits
- New analysis of 2020 canopy data to be released in 2021

Oakland Neighborhood Plan OPEN SPACE OVERVIEW

Steering Committee Meeting #9

Infrastructure Action Team Overview

6.24.2020

Parks and Greenways PGH Online Interactive Environmental Map

https://gis.pittsburghpa.gov/pghenvironmental/

OpenSpacePGH: Recommendations for Parks in Oakland

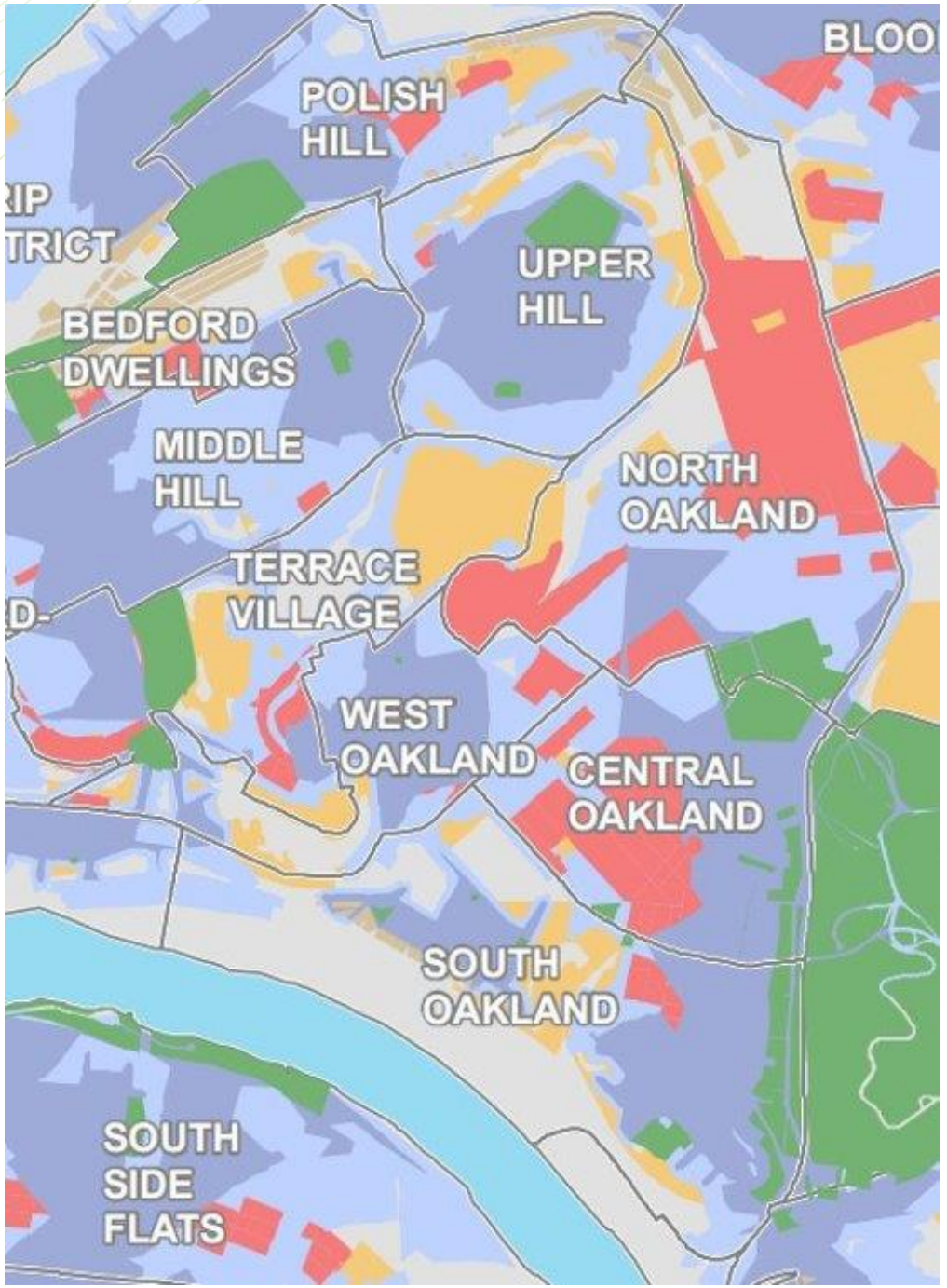
Sector 14 - Oakland

Oakland is home to five neighborhood parks (4.6 ac.). Schenley Park forms the east boundary of the sector, and the University of Pittsburgh is located within this area. Oakland is a high density area with very little available land, though parks are needed.

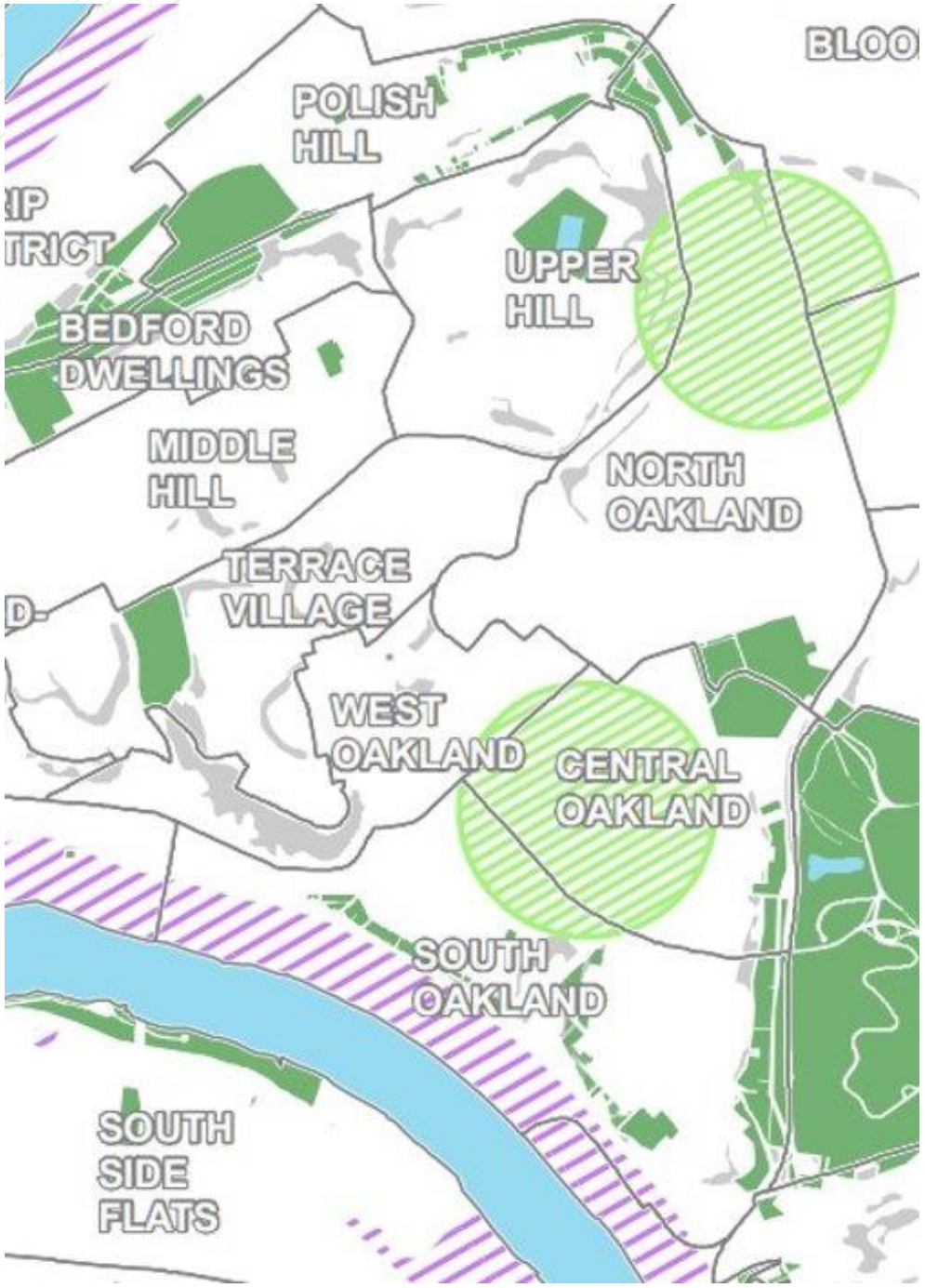
Table G16: Project List for Neighborhood Parks Sector 14- Oakland

Neighborhood Park	Acres	Divest	Invest	Redevelop	Relocate	Expand	Naturalize
Central Oakland Neighborhood							
Boundary St. Park	0.5	•			•		•
South Oakland Neighborhood							
Frazier Park	3.4			•			
Lawn and Ophelia Park	0.4	•					•
Niagara Park	0.2		•				
West Oakland Neighborhood							
Dunseith Park (Shalane's Play Yard)	0.1		•				
Total	**4.6**						

OpenSpacePGH: Underserved Areas in Oakland



OpenSpacePGH: Underserved Areas in Oakland



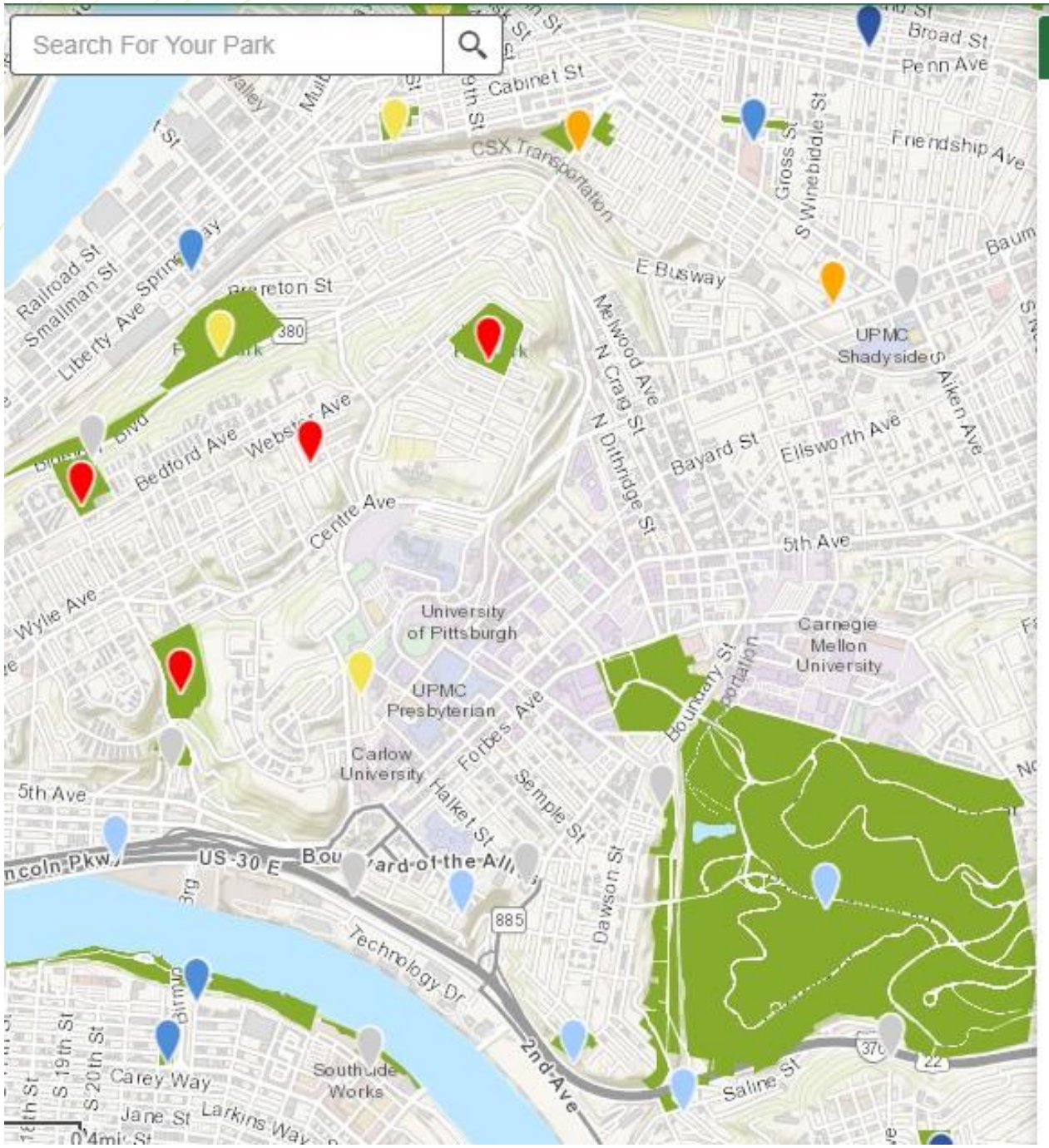
Pittsburgh Parks Conservancy's Equitable Investment Strategy

Capital Project Investment Priority Rankings

*Sites are ranked according to their Community Need Score and Site Need Score, and they will be funded for capital investment in rank order **

Niagara Park: 79/165
Schenley Park: 94/165
Frazier Park: 96/165

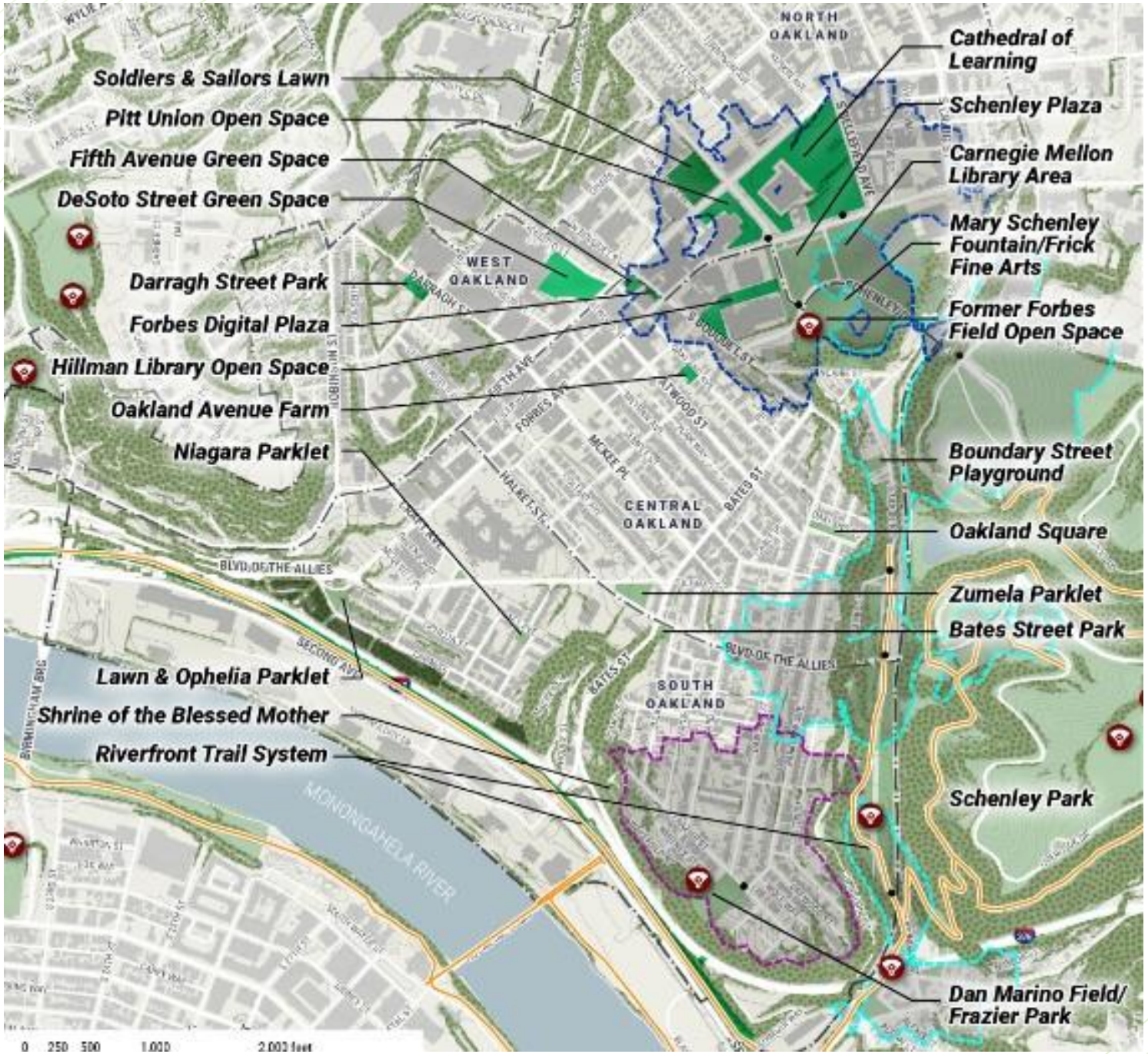
* A rank of 0 indicates that this site is not included in Capital Project rankings; however, these sites will still receive Rehabilitation funds.



The Data Behind the Rankings

- [ ] Youth
- [ ] People of Color
- [ ] Seniors
- [ ] Poverty
- [ ] Anxiety
- [ ] Obesity
- [ ] Diabetes
- [ ] Depression
- [ ] Asthma
- [ ] Black Carbon
- [ ] Violent Crime
- [ ] Vacancy
- [ ] Tree Canopy
- [ ] Water Management Priority Areas

Oakland Open Space Inventory (for this plan)



Parks and Open Space

- Steep Slopes (25%+)
- Parks
- Greenways (Preserved Steep Slopes)
- Public Spaces
- Athletic Fields
- Ballfields
- Trails

1/4-MILE WALKING DISTANCE

- Park Access Points
- Frazier Playground
- Schenley Park
- Schenley Plaza

Types of Open Space

Who can access the space? Who owns, maintains, and operates it?

Public Open Space

- Schenley Park
- Frazier Park
- Oakland Square

Privately-Owned Public Space

- Desoto Street green space (UPMC)
- Forbes Digital Plaza (UPitt / OBID)
- Cathedral of Learning area (UPitt)

Private Open Space

- Residential yards
- Institutional open space with limited public access

How "natural" is the space?

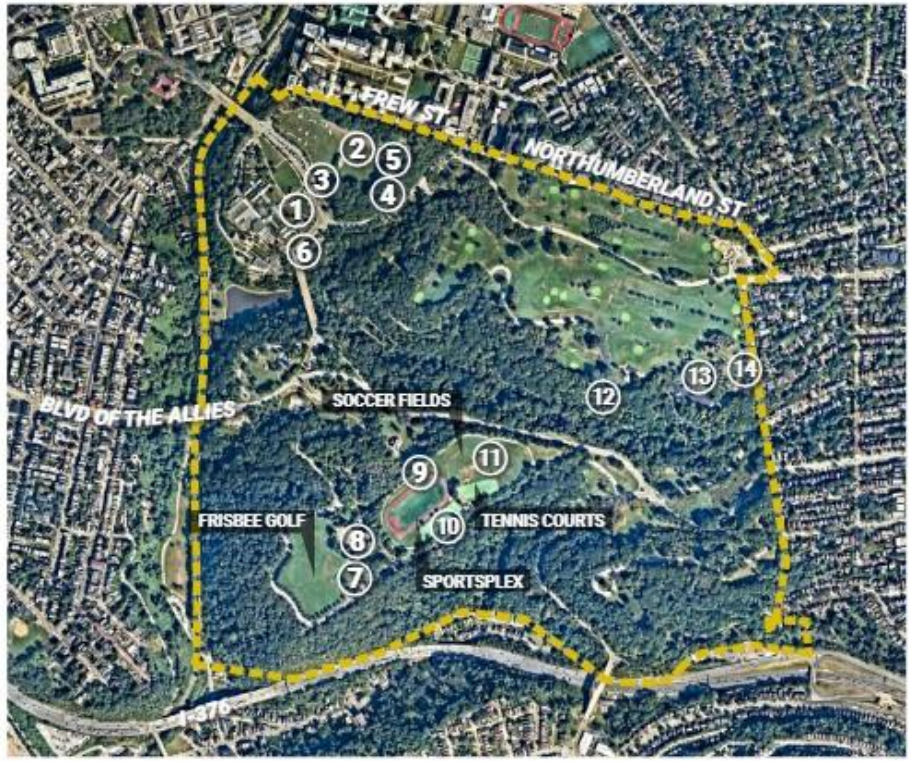
Permeable (rain can soak in)
Native / naturalized vegetation

Impervious (rain runs off)
Less vegetation, more paving

Who feels welcome and what is the space for?

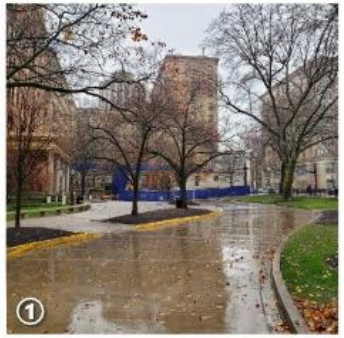
Different user groups, races, ages, genders, classes, types of events and uses, animals & plants, seasons & conditions

Schenley Park



North-Central Oakland (N of Forbes)

Cathedral of Learning



Pitt Union

Soldiers & Sailors

North-Central Oakland (South of Forbes)

Carnegie Library

Maseroski / Former Forbes Field

Schenley Plaza

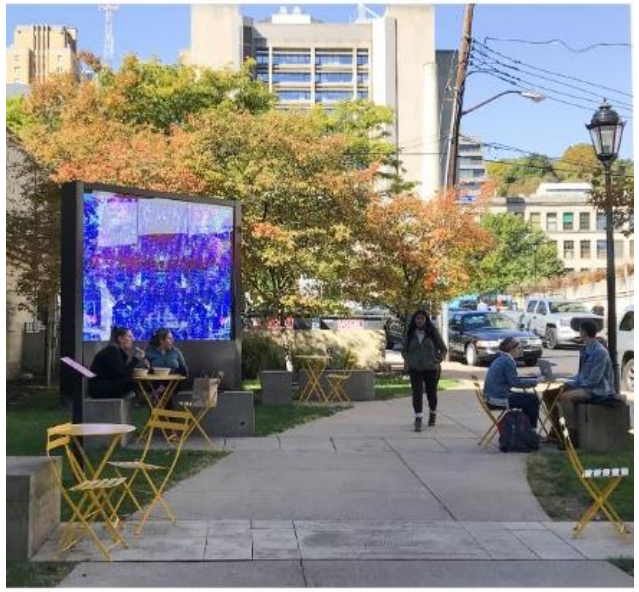
Mary Schenley Fountain / Frick Fine Arts

North-Central / West Oakland

Fifth Ave Green Space

DeSoto St Green Space

Darragh St Park



Forbes Digital Plaza

Hillman Library

Dunseith Park / Shalane's Play Yard

Oakland Ave Farm

Central Oakland

Boundary St Playground

Bates Street Park

Oakland Square

Zulema Park

South Oakland

Lawn & Ophelia

Frazier Park / Dan Marino Field

Niagara Park

Shrine of the Blessed Mother

Not pictured but still important: Riverfront Trail System, Oakcliffe Greenway, Bigelow Greenway (N Oakland), other wooded slopes

Thank you!

Kara Smith, Principal Environmental Planner

kara.smith@pittsburghpa.gov

Infrastructure Action Team
Stormwater Overview

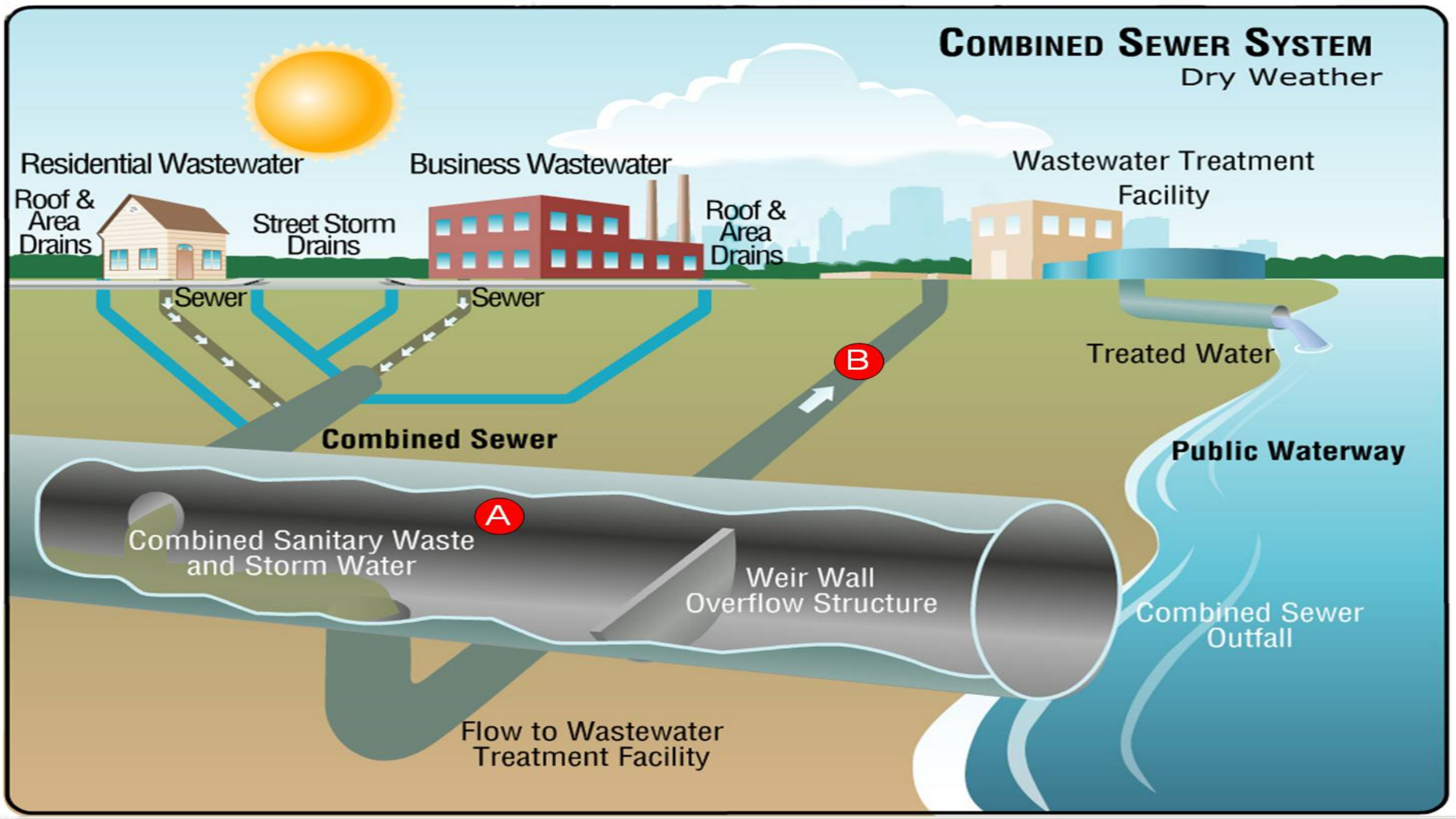
Department of City Planning
Oakland Neighborhood Plan Steering Committee

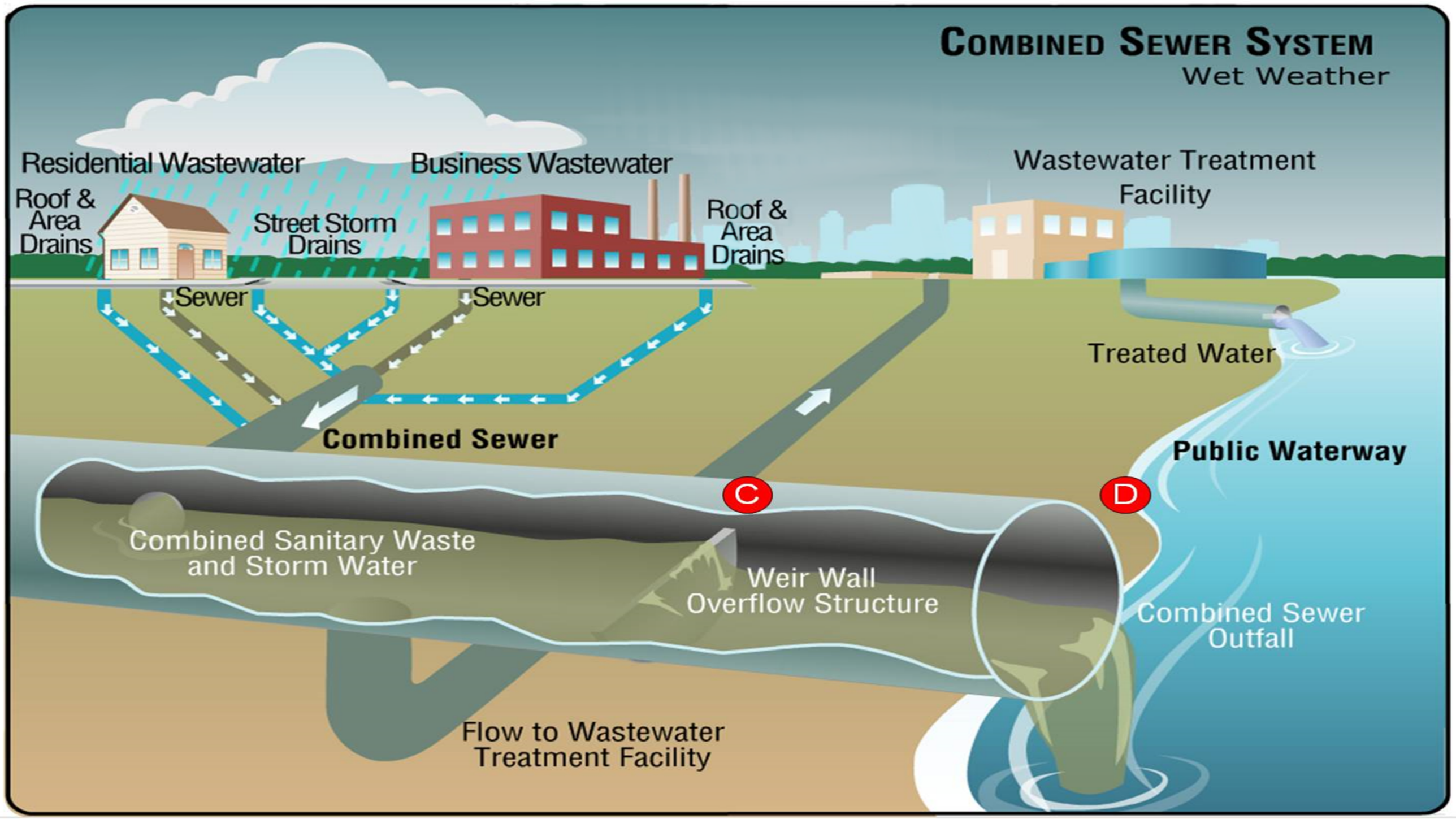
June 24, 2020 – Ben Grunauer

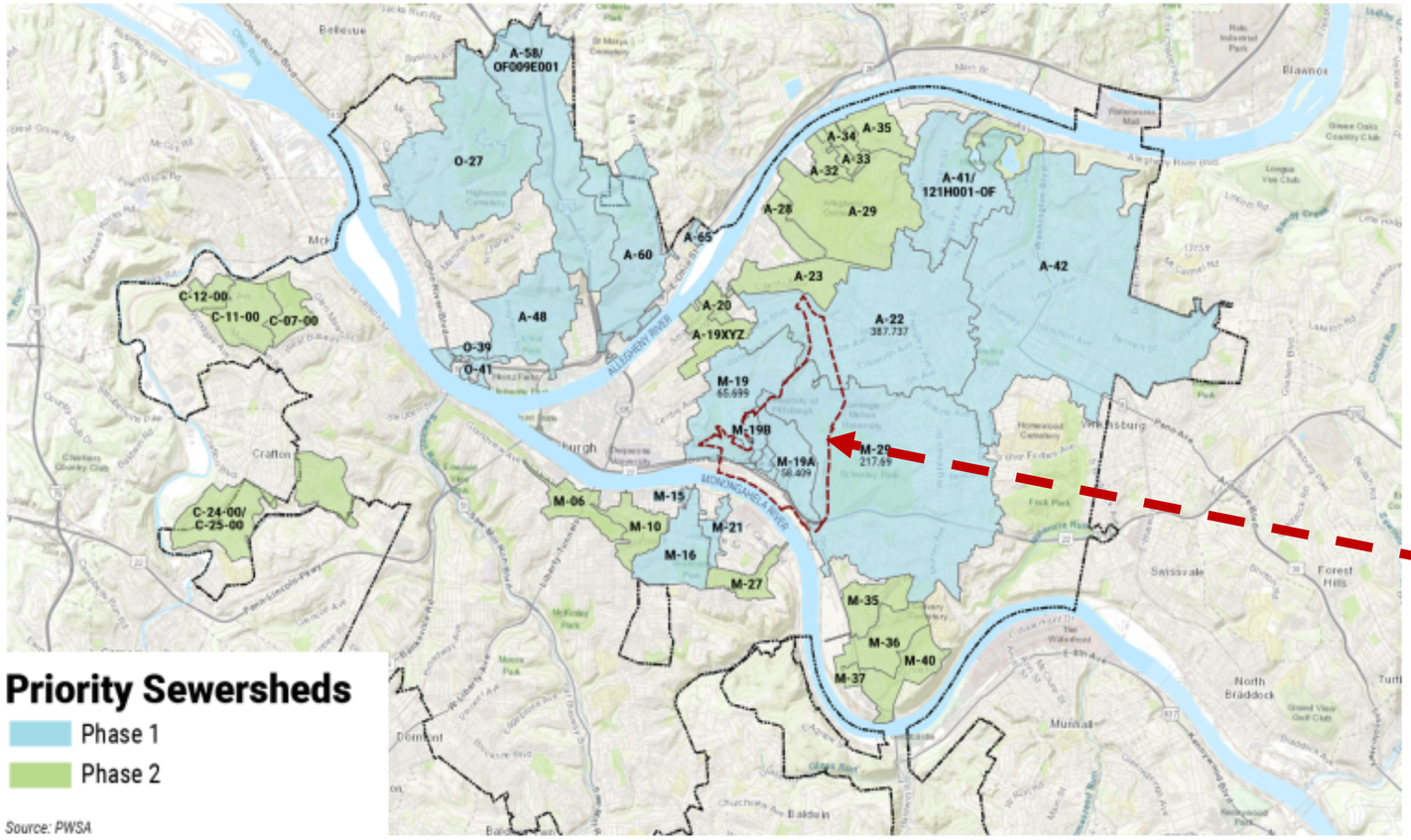
At the turn of the 20th century, Pittsburgh embarked on its biggest infrastructure improvement campaign, building sewers, water lines, roads, and power lines that created the city we know today.

WE HAVE A STORMWATER MANAGEMENT PROBLEM

- Poor water quality in rivers
  - CSOs/SSOs (See next slides)
  - Illicit discharges – sewage in storm sewers
- Surface flooding
- Basement sewage flooding
- Sewers that are 80 – 100+ years old
  - Aging stormwater infrastructure was built for a different time, less population, and communities that had more green space and less pavement
- Averages 38 inches of rain a year
  - Rainfall no longer falls evenly across the year
  - More severe storms dump more rain quicker


COMBINED SEWER SYSTEM
Dry Weather
Residential Wastewater
Roof & Area Drains
Street Storm Drains
Business Wastewater
Roof & Area Drains
Wastewater Treatment Facility
Sewer
Sewer
Treated Water
B
Combined Sewer
Public Waterway
A
Combined Sanitary Waste and Storm Water
Weir Wall Overflow Structure
Combined Sewer Outfall
Flow to Wastewater Treatment Facility


COMBINED SEWER SYSTEM
Wet Weather
Residential Wastewater
Business Wastewater
Wastewater Treatment Facility
Roof & Area Drains
Street Storm Drains
Roof & Area Drains
Sewer
Sewer
Treated Water
Combined Sewer
Public Waterway
C
D
Combined Sanitary Waste and Storm Water
Weir Wall Overflow Structure
Combined Sewer Outfall
Flow to Wastewater Treatment Facility



M-19A: 143 impervious acres
M-19B: 32 impervious acres
M-29: 362 impervious acres
A-22: 898 impervious acres

3.42 Billion Gallons of Wet Weather Flow

GREEN STORMWATER INFRASTRUCTURE

CURRENT AND FUTURE OAKLAND: STORMWATER

Projects are ***planned and in motion*** throughout the Four Mile Run watershed (a.k.a. M-29 sewershed):

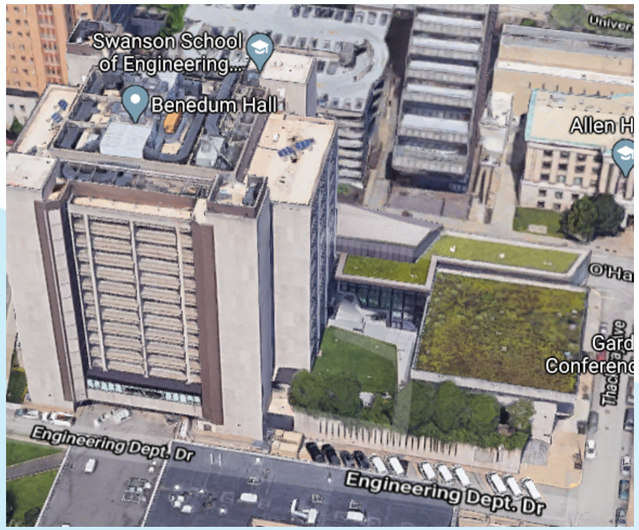
- Wightman Park stormwater detention [Under Construction]
- Overlook Drive Retention Swale [Under Construction]
- Bridle Trail Retention Swale [Under Construction]
- M-29 Outfall Pipe Rehabilitation [Construction Q1-2020]
- Small Sewers Rehabilitation [Engineering 2020]

PGH2O

Design Overview

- Panther Hollow Lake
- Piped Stormwater Connection under RR
- Junction Hollow Stream
- Early Action Projects [Under Construction]
- Piped Stormwater Connection to the River
- Saline Street and Naylor Run Stormwater Improvements

Stormwater Requirements for Private Development



By code, new development is required to retain as much stormwater on site and release it to the sewer system at the same rate or less as the site did before redevelopment. The city code is going through major updates right now.

Examples include but are not limited to underground detention tanks, increased green space, green roofs, pollution filters, and large rain gardens.

How can a resident help?

- Keep drains, gutters, and downspouts clean and free of debris
- Don’t litter. Dispose of trash properly.
- Don’t hand wash your car. Bring it to a carwash.
- Properly dispose of pet waste.
- Use fertilizer sparingly.
- Stop oil leaks immediately.
- Install a rain barrel.
- Install a rain garden.
- Consider using permeable pavers.
- Plant trees.
- Become informed of local ordinances and regulations.

SHARED STORMWATER RESPONSIBILITIES

We are all in this together. There are civic and private responsibilities for managing stormwater. Collectively we can create flood prepared communities that are safer, healthier places to live.

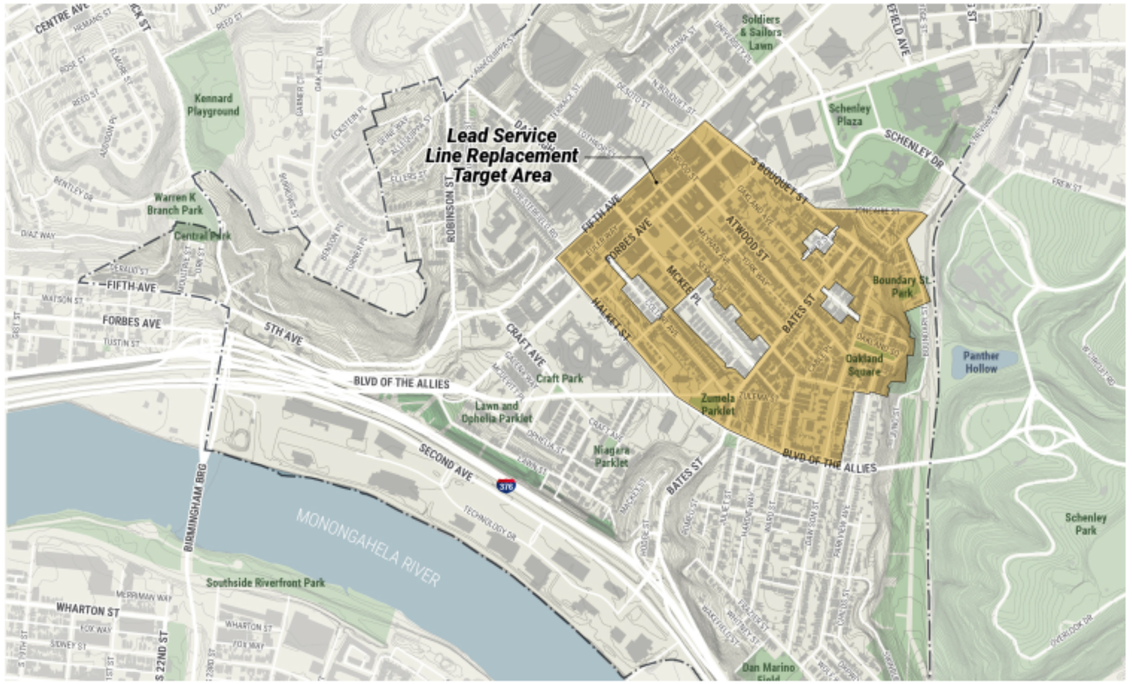
Pittsburgh Water & Sewer Authority

Should you have any questions, do not hesitate to contact:

Benjamin Grunauer, EIT
Engineer II
412.255.8800 x 5543 or bgrunauer@pgh2o.com

Rebecca Zito
Communications Project Manager
412.676.6684 or rzito@pgh2o.com

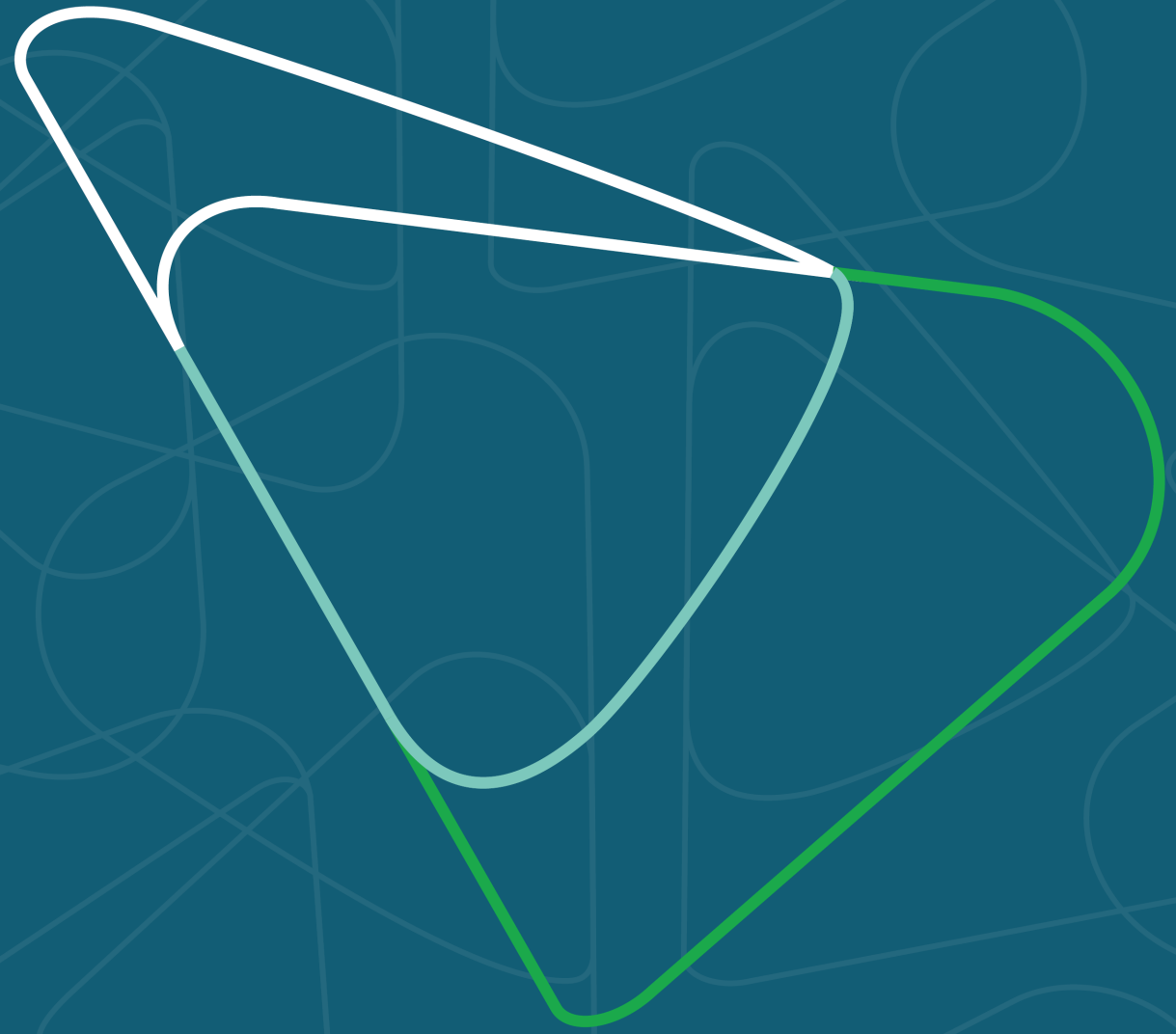
We encourage you to explore our projects and new website: https://www.pgh2o.com/projects-maintenance/search-all-projects



Green Building Alliance

Oakland Steering Committee Energy

June 24, 2020

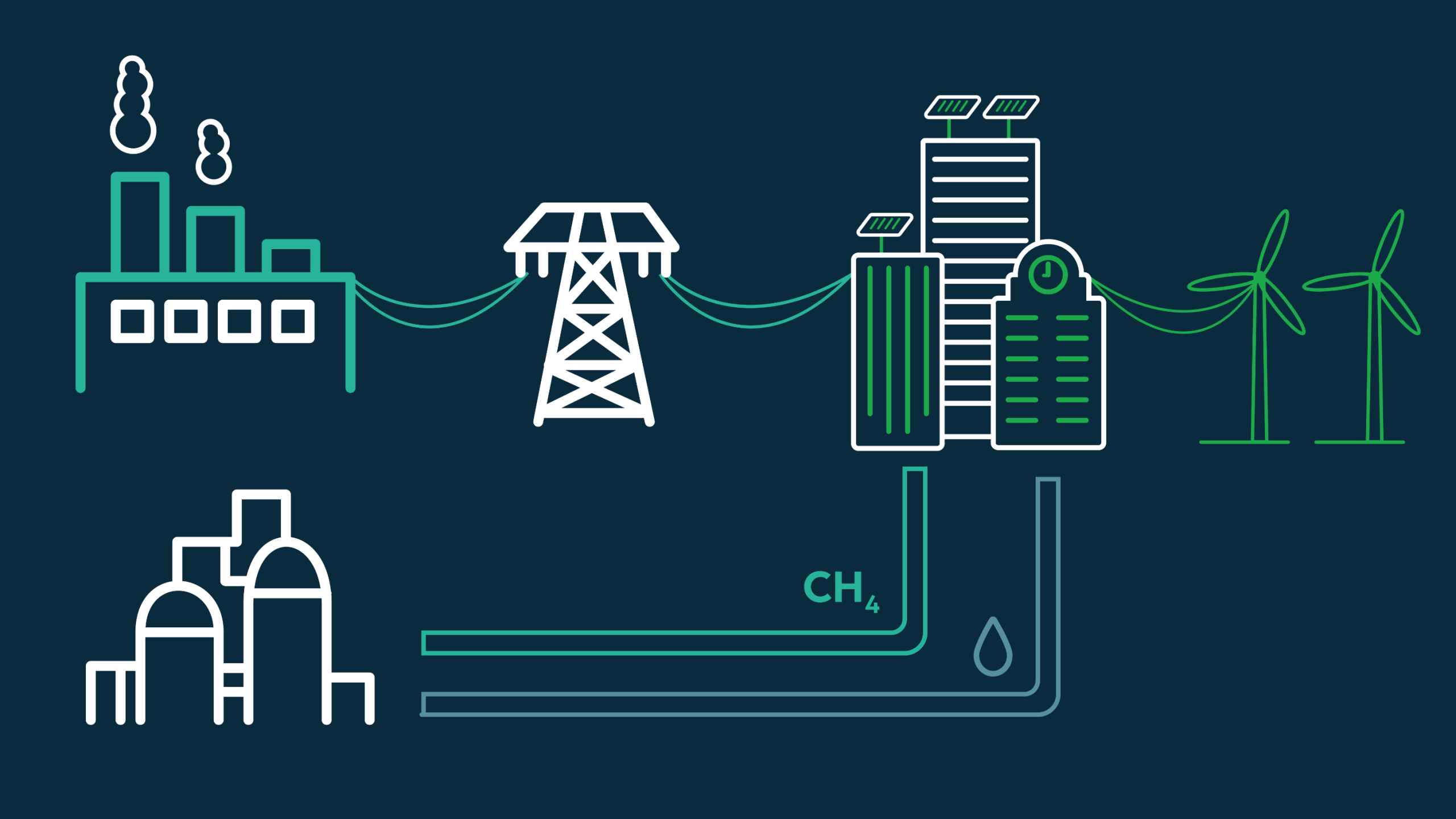


Megan Zeigler

Green Building Alliance

meganz@gbapgh.org

Every building and every community is sustainable so every person can thrive

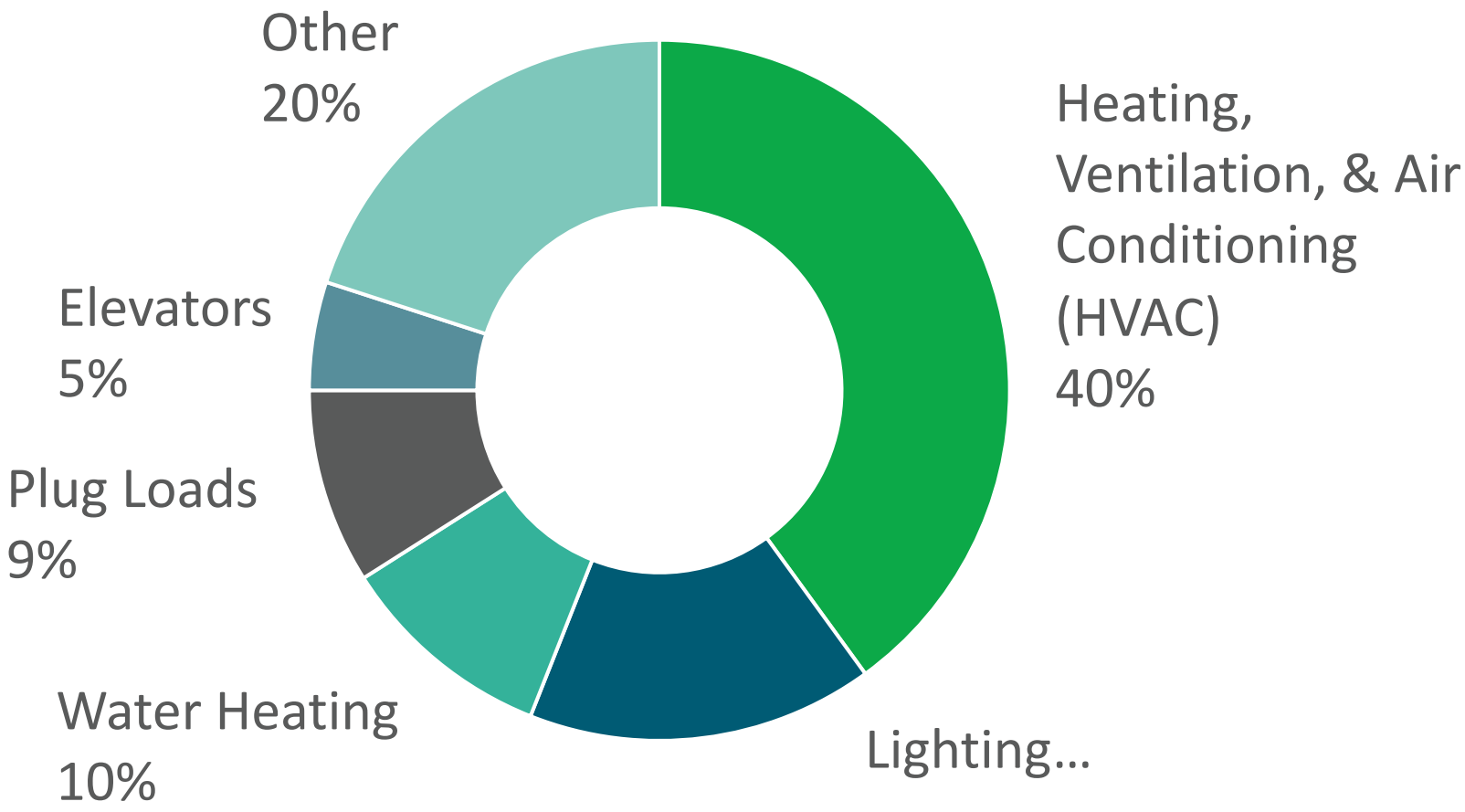

CH_4

Electricity use reductions in a building save

3 times

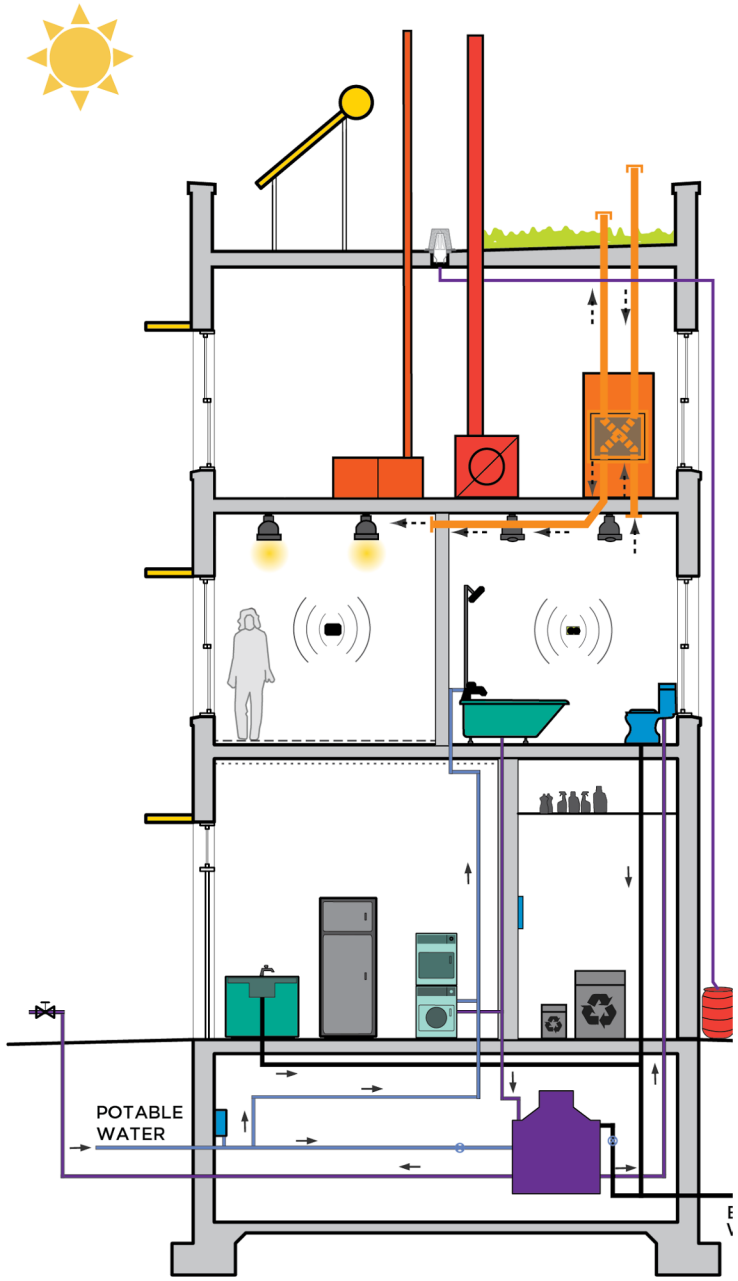
that amount at the power generation plant due to thermal and transmission losses

Average Building Energy Breakdown



Whole Building Approach

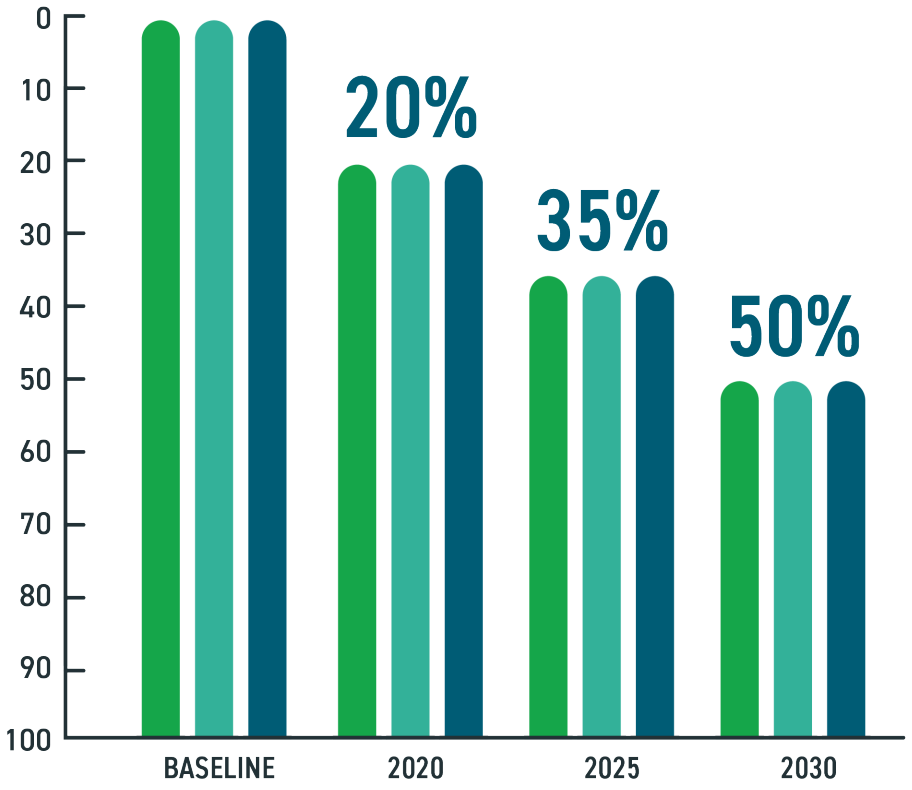
All systems must work together in sync – lighting, HVAC, pluming, and building envelope



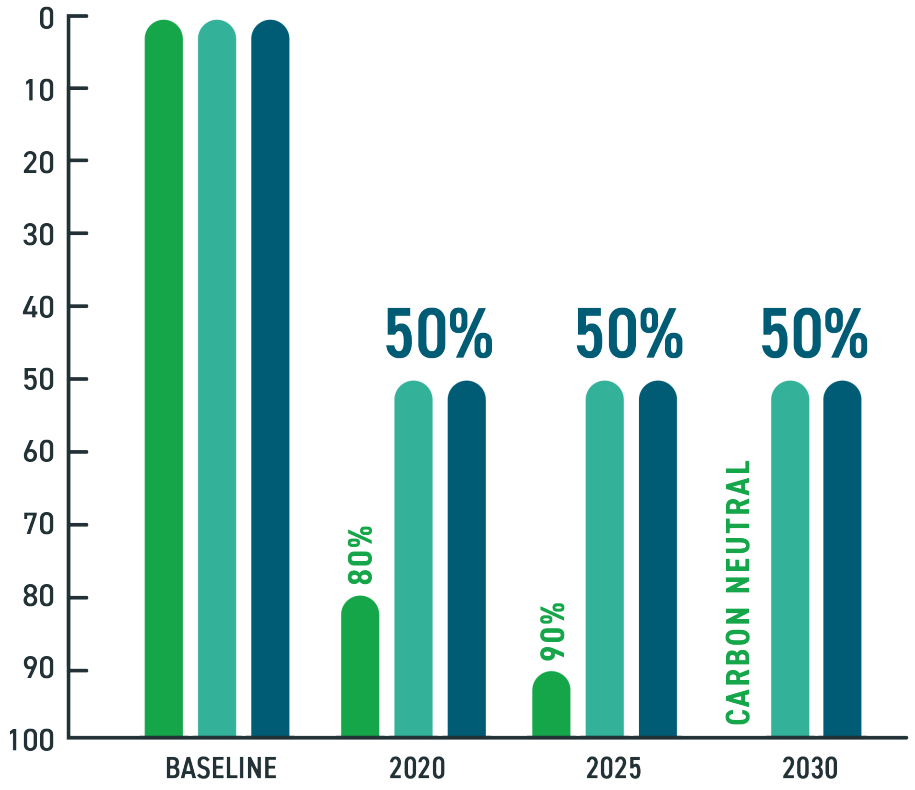
ENERGY USE
WATER USE
CO_2 FROM TRANSPORTATION

The 2030 Challenge

EXISTING BUILDINGS



NEW BUILDINGS & RENOVATIONS



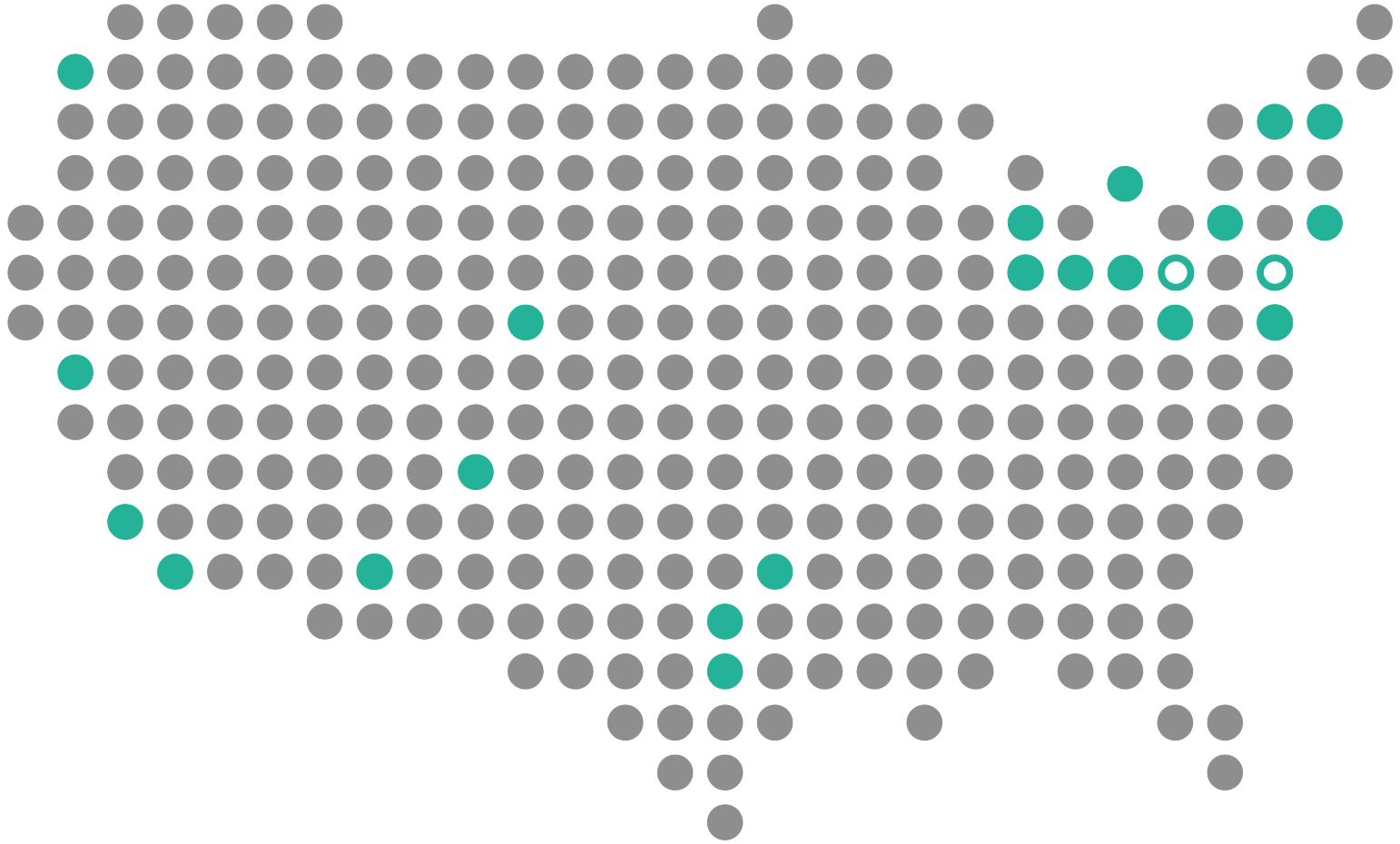
2030 District Network

ESTABLISHED DISTRICTS

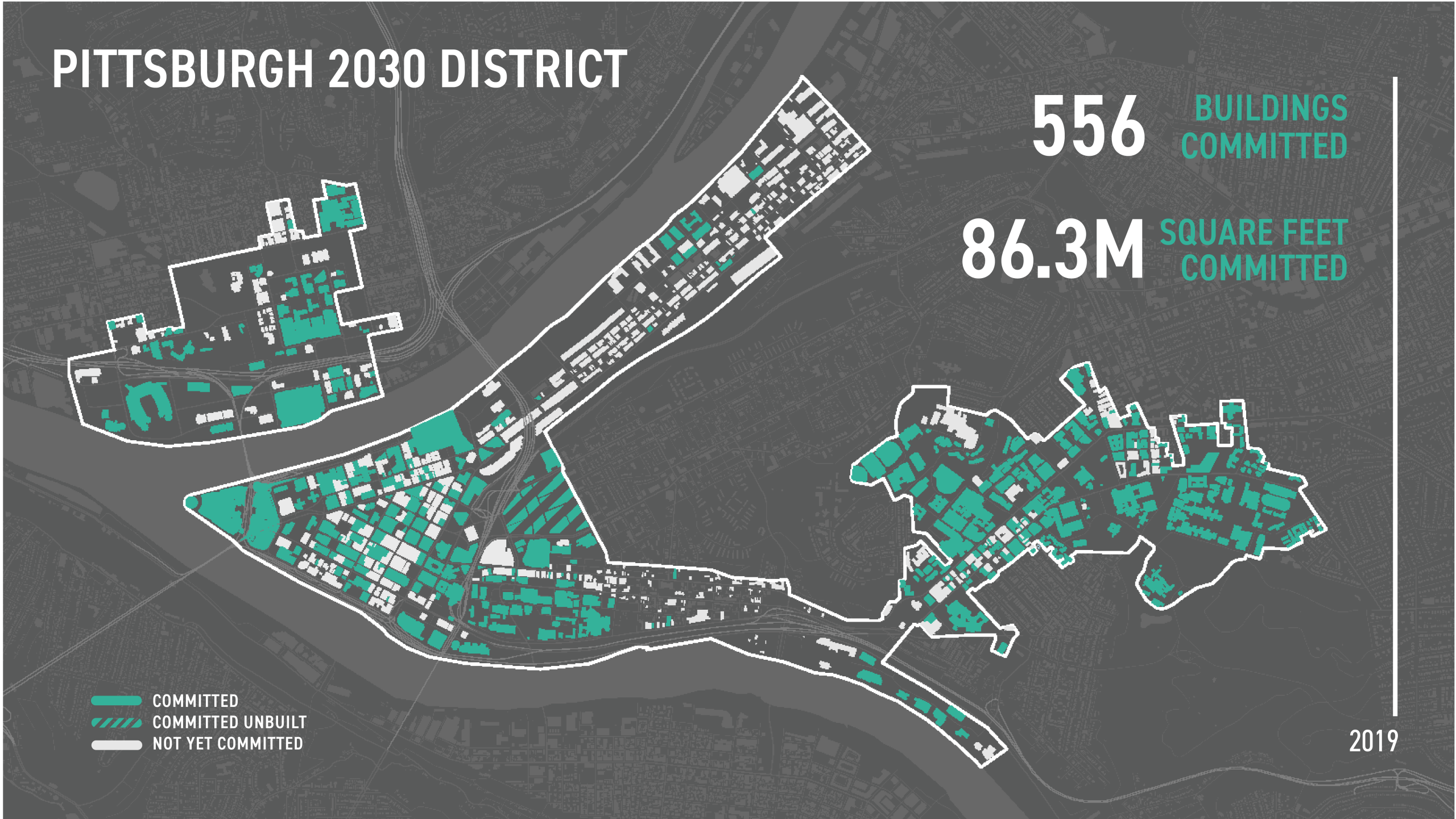
Albuquerque, Ann Arbor, Austin, Burlington, Cincinnati, Cleveland, Dallas, Denver, Detroit, Grand Rapids, Ithaca, Los Angeles, Philadelphia, Pittsburgh, Portland (ME), San Antonio, San Diego, San Francisco, Seattle, Stamford, Toronto, and Tuscon

EMERGING DISTRICTS

Erie and New York City



PITTSBURGH 2030 DISTRICT



What is Energy Use Intensity?

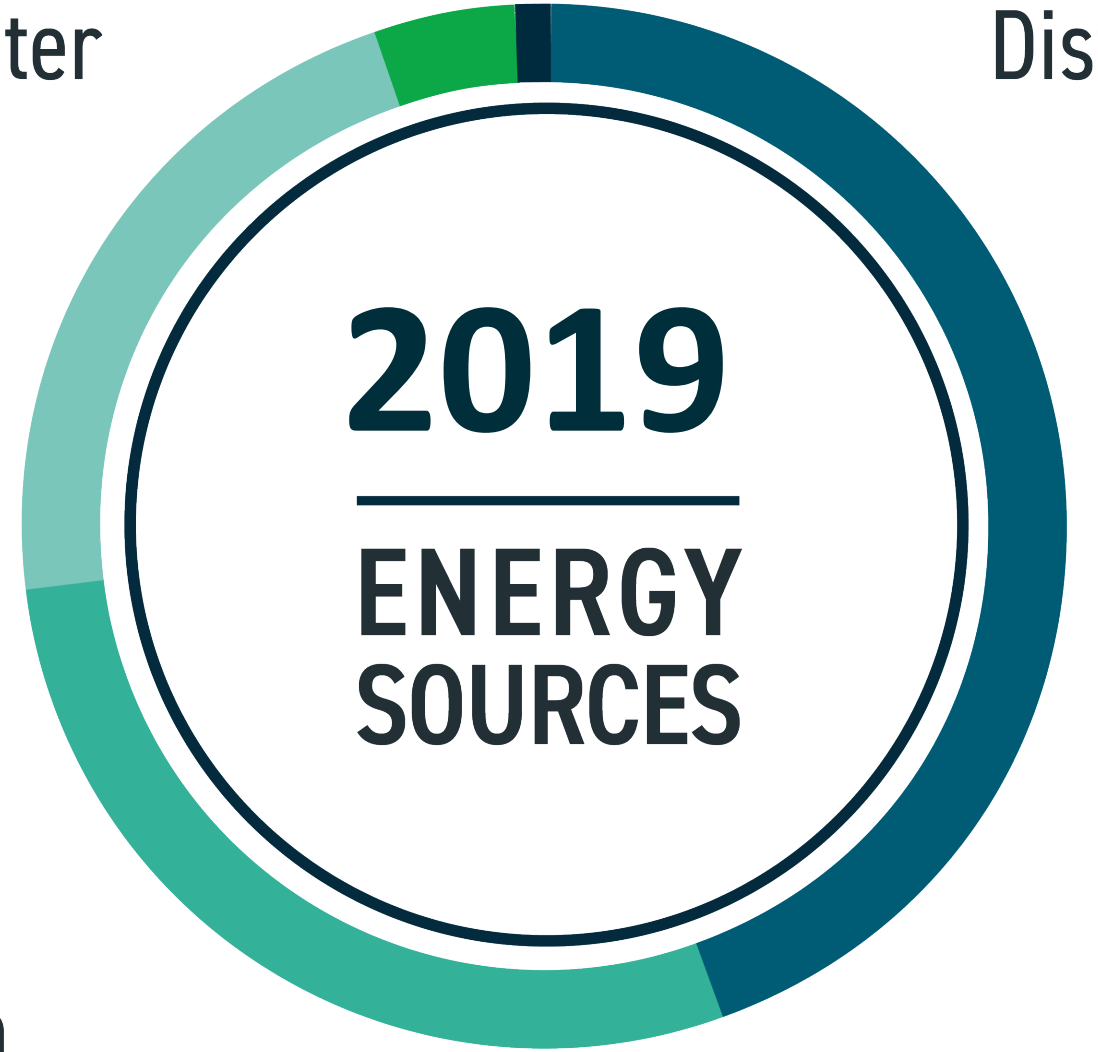
TOTAL ANNUAL
ENERGY USE

÷

BUILDING
AREA
SQUARE FEET

= **EUI**

kBtu / sqft
PER YEAR



5%
District Chilled Water

0.1%
District Hot Water

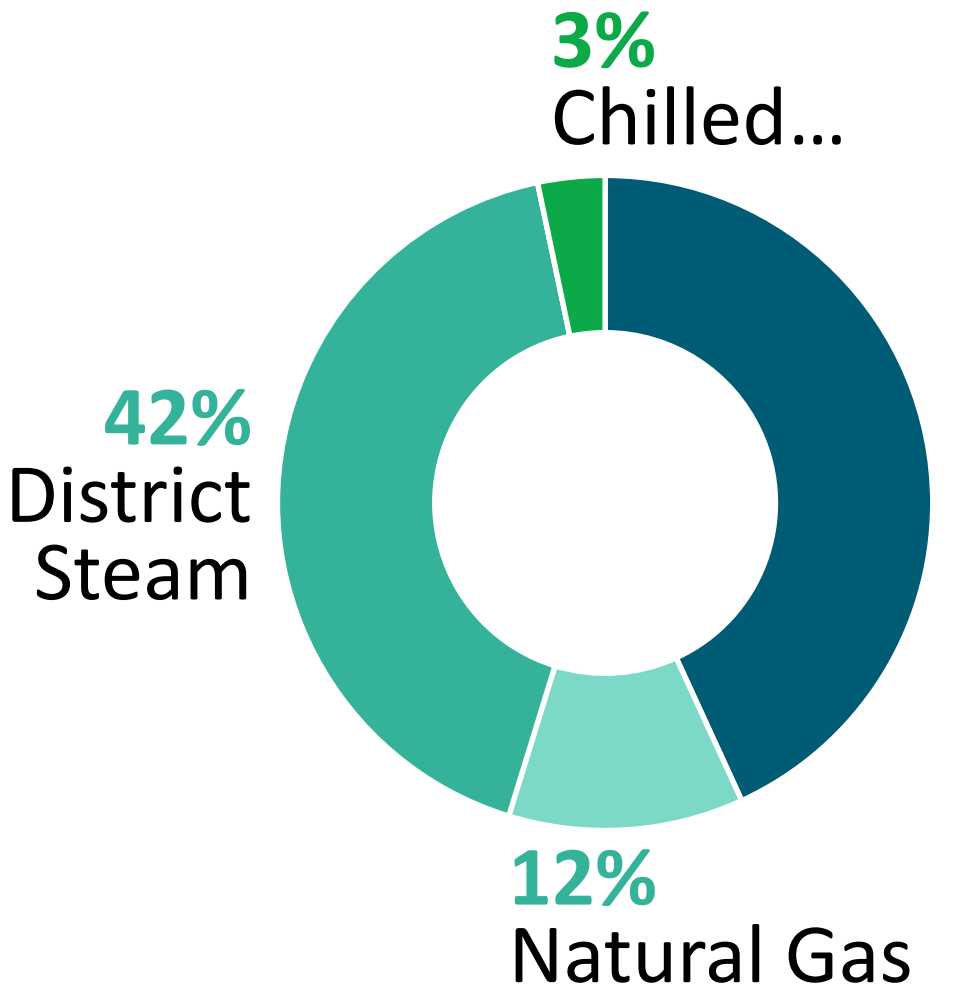
23%
Natural Gas

43%
Electric

29%
District Steam

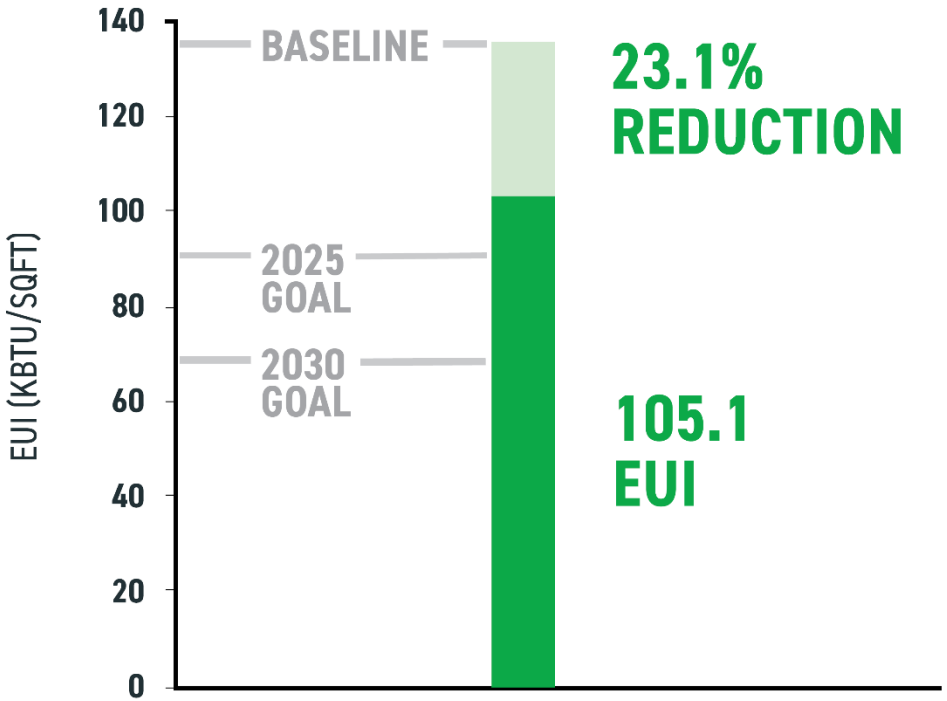
2018 Energy Sources

Oakland

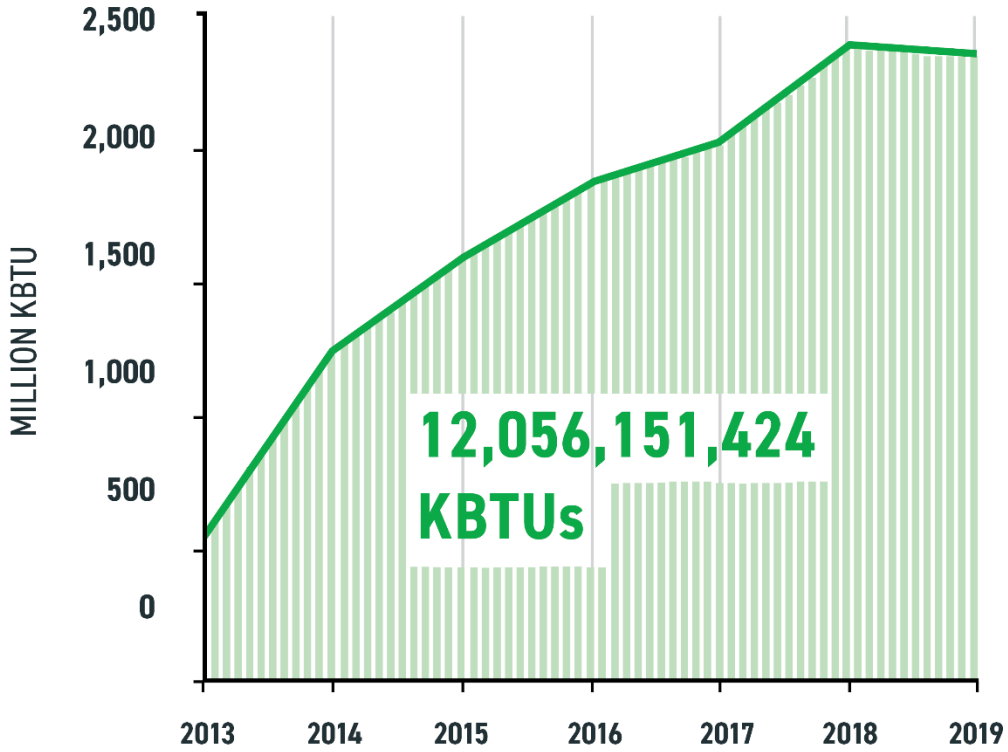


ENERGY

2019 ENERGY PERFORMANCE

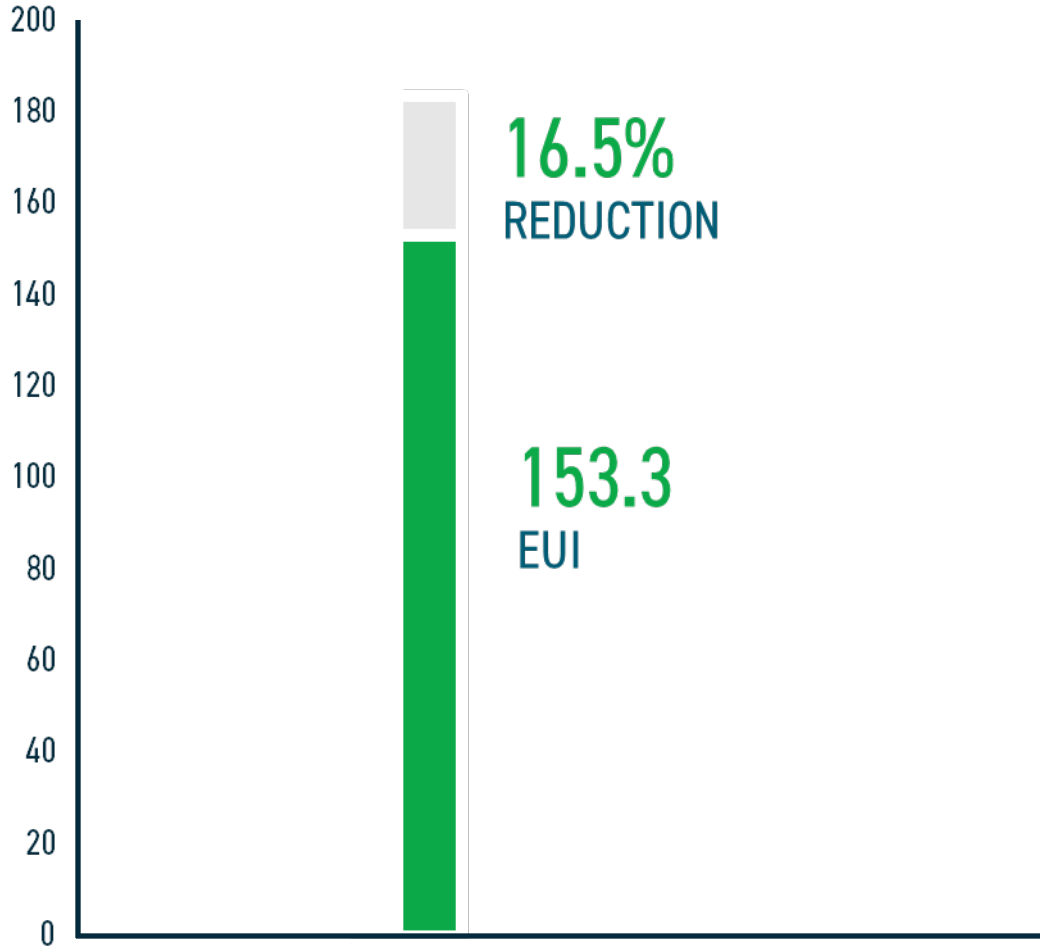


TOTAL ENERGY USE AVOIDED



2018 Energy Reduction

Oakland



154.5 MILLIONS SAVED BY PITTSBURGH 2030 DISTRICT

1,488,345

METRIC TONS OF CO2 AVOIDED

Oakland Energy Master Plan

Collaboration of Oakland Institutions to develop a cohesive energy plan to develop cleaner energy systems while reducing energy usage.

Timeline: 2020-2022 Plan creation
2022-2050 Implementation

Thank You!

meganz@gbapgh.org

Other Business

- Please fill out the meeting feedback survey.
- **Your homework assignment: Use the materials staff provide to share the online engagement page with those you represent, create your own account and participate in the online activities and discussions during July.**