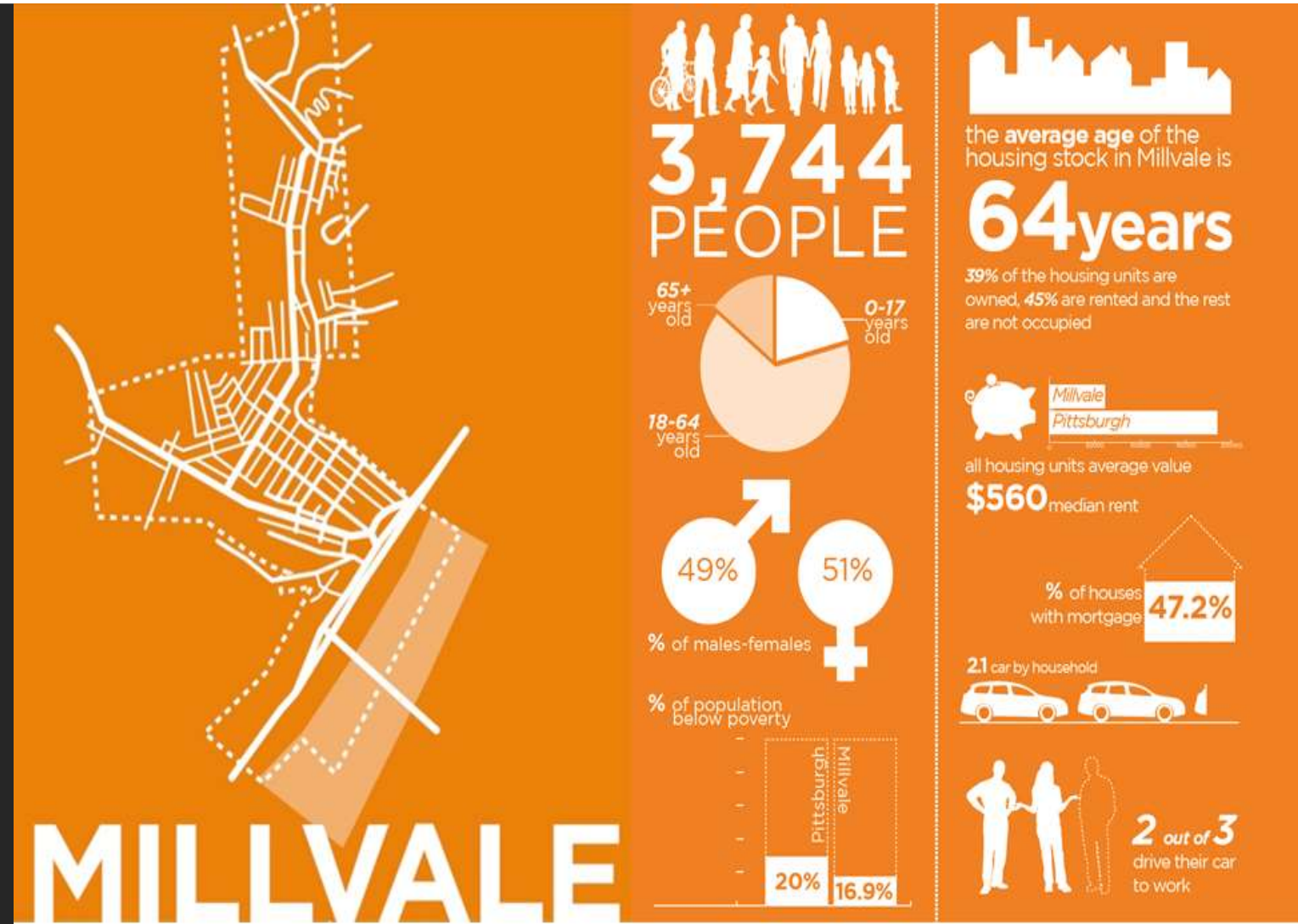
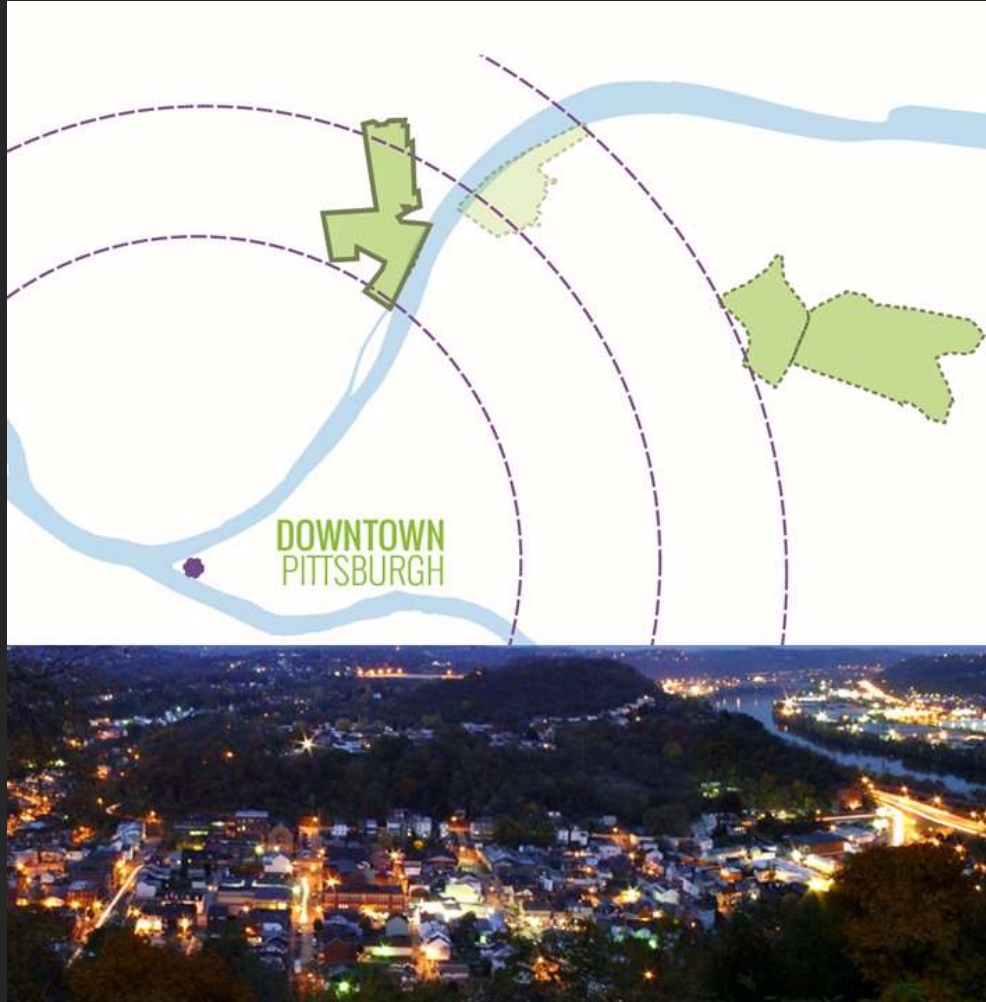


An aerial photograph of a residential neighborhood covered in a thick layer of snow. The houses are densely packed, with various colors like red, blue, and white visible. In the background, a large, snow-covered hill rises. The sky is a pale, overcast blue. The text 'The Millvale EcoDistrict' is overlaid in a large, white, sans-serif font across the center of the image.

The Millvale EcoDistrict

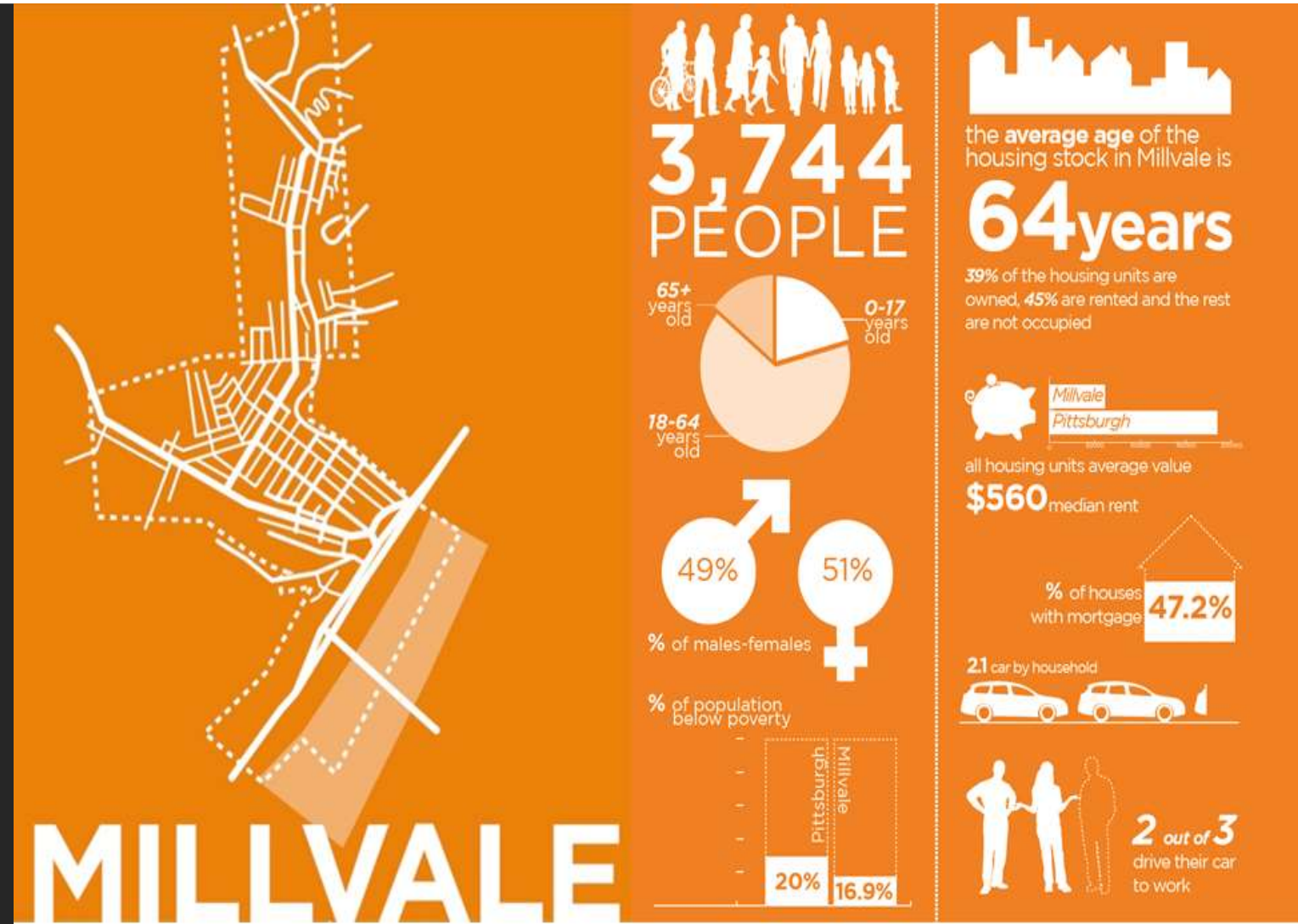
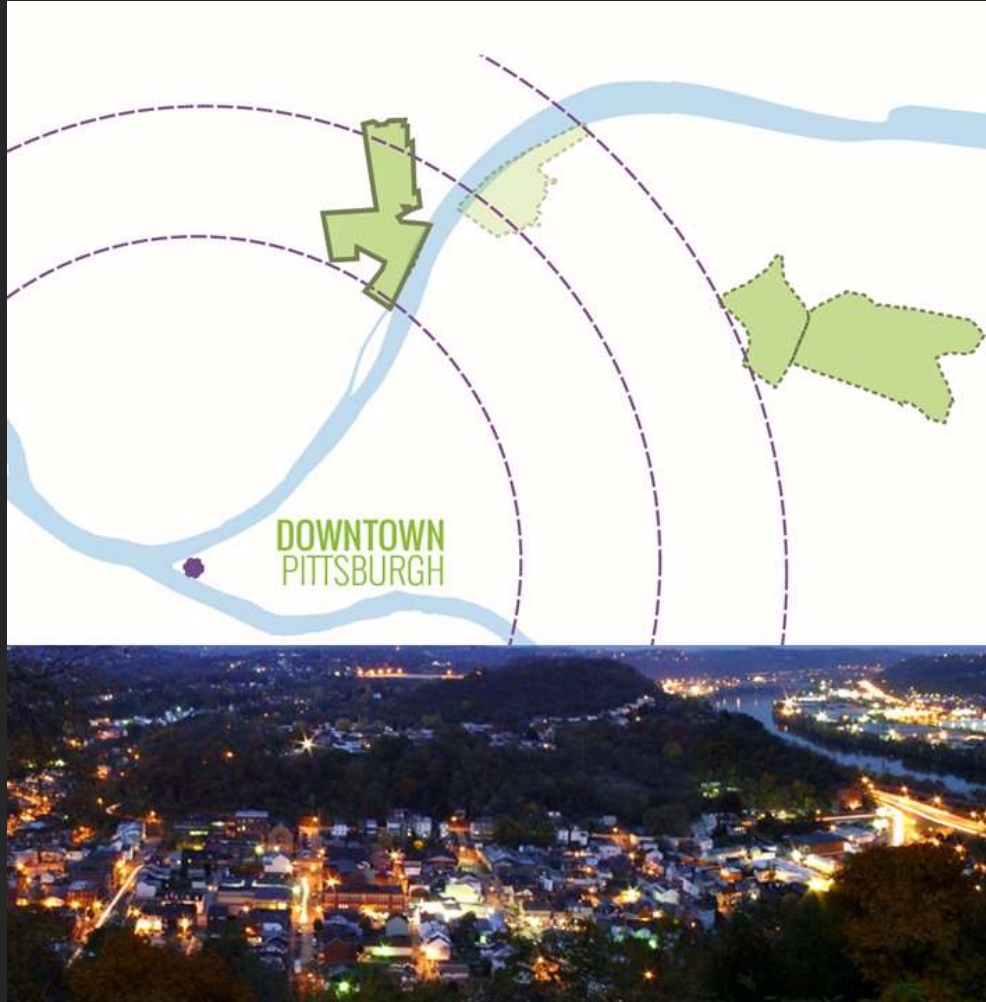
9.28.2018

Some Context





Some Context



COUSINS BEACH PARTY
VOLLEYBALL TOURNAMENT
SEPTEMBER 17TH

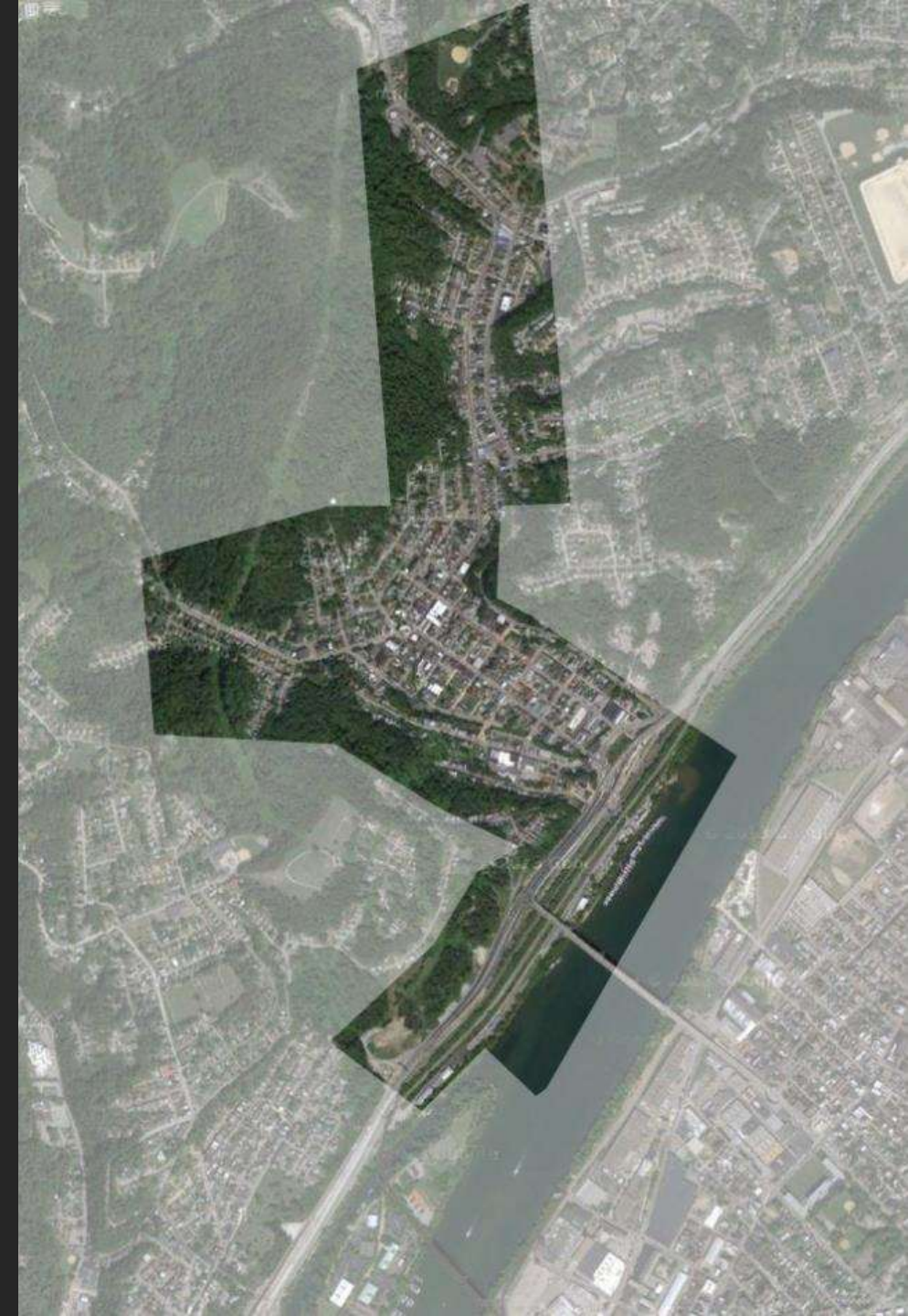
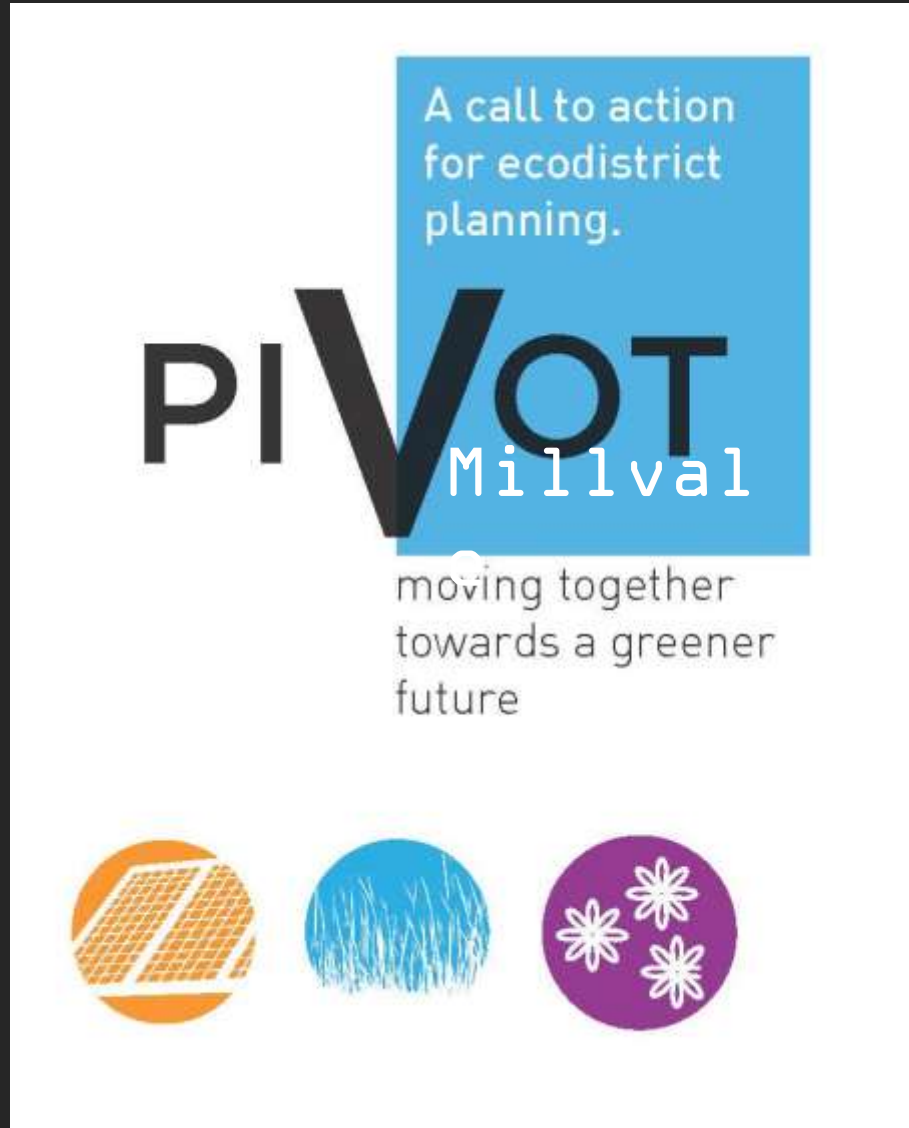
BEACH
DINER
CATERING
RESTAURANT



HIGH WATER
MARK
FLOOD
SEPTEMBER
17TH
2004



The Inflection Point



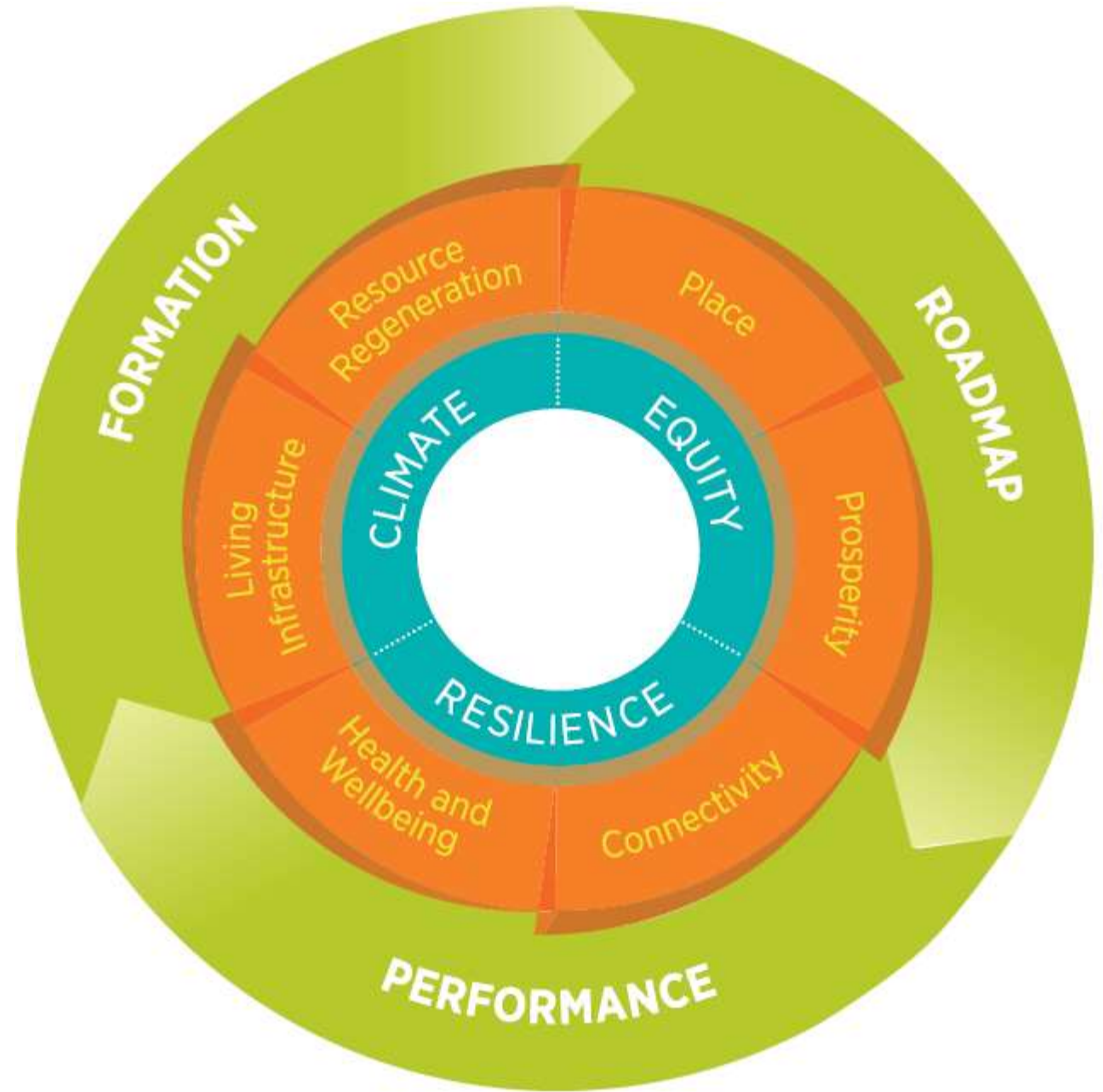
What are EcoDistricts?

A rigorous sustainable urban development framework for achieving people-centered, economically vibrant, planet-loving, neighborhood-scale sustainability.

- Diverse and more integrated range of solutions to **empower social vibrancy and restore ecological health.**
- Building **public-private-civic** partnerships
- Collaboration across sectors
- **Inclusive Governance**



Imperatives
Priorities
Implementation Phases



- **Rather than a prescriptive standard, recognizing that every community has the ability and need to advance a place-based sustainability agenda. District teams tailor the Protocol to local circumstances, set performance targets based on local conditions and aspirations**



A flexible framework



Collaborative Formation

- **Confirm Readiness**
 - Education
 - Convene Key Stakeholders
 - Identify Boundaries
 - Create Asset Maps

What goes into planning an EcoDistrict?

- **The Cycle of Implementation**
 - Formation, Roadmap, Performance
- **The Three Imperatives**
 - Equity, Resilience, Climate Protection
- **The Six Priorities**
 - Place, Prosperity, Connectivity, Health & Wellbeing, Living Infrastructure, Resource Generation



A range of districts



Millvale's Early Process

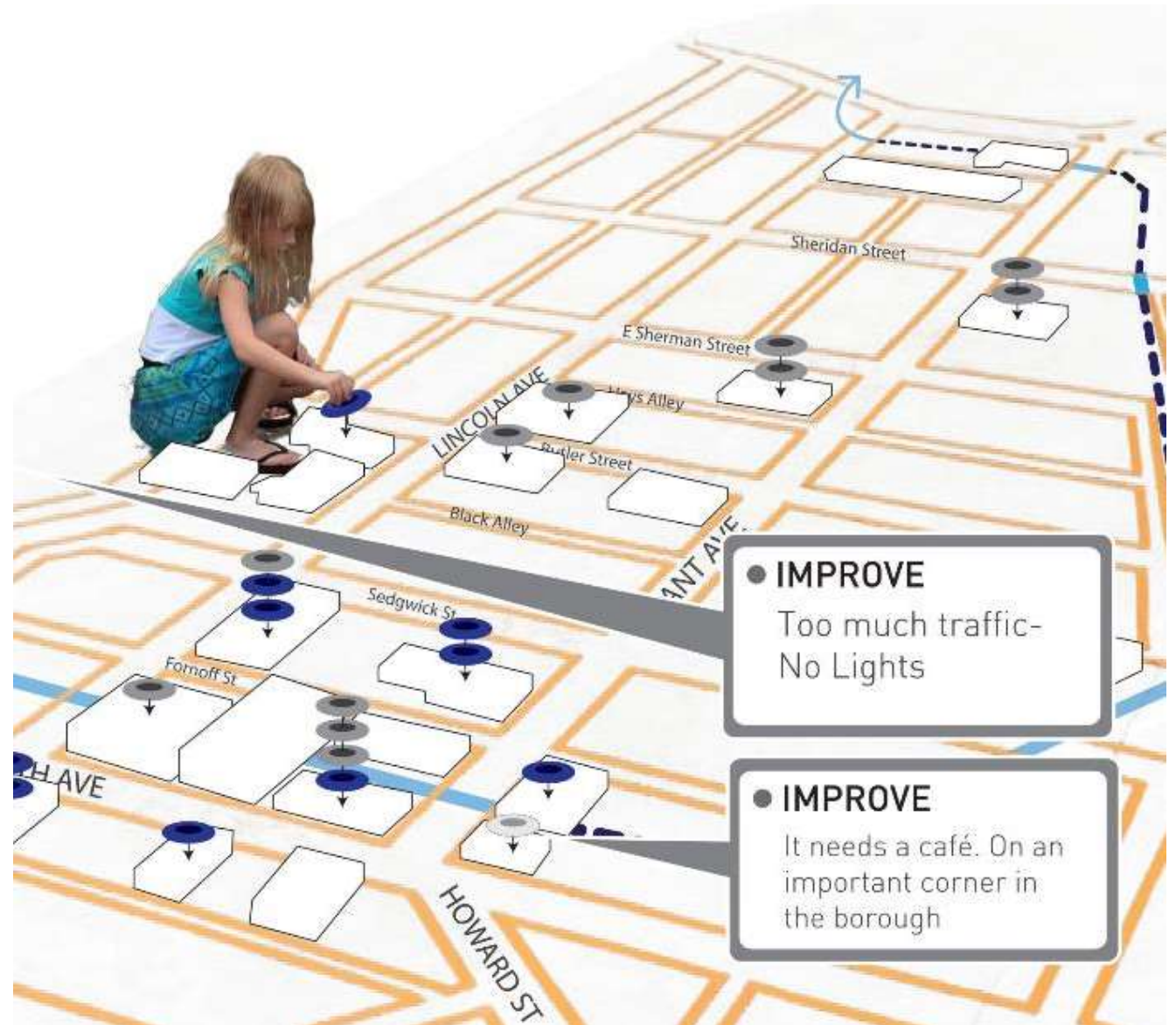
- **Education**
- **Engagement**
- **Planning**



Education



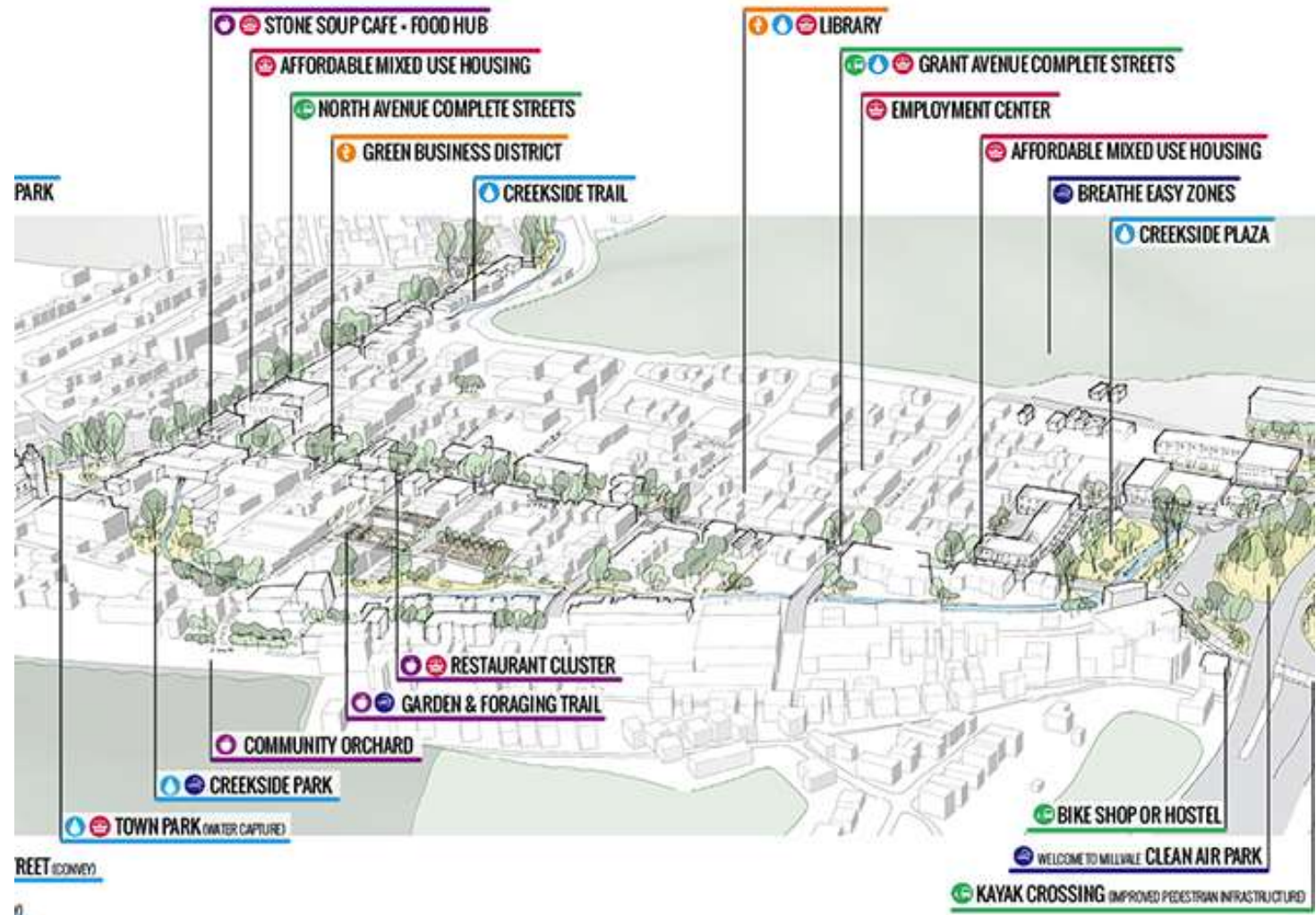
Engagement



Planning

CENTER

RIVER I

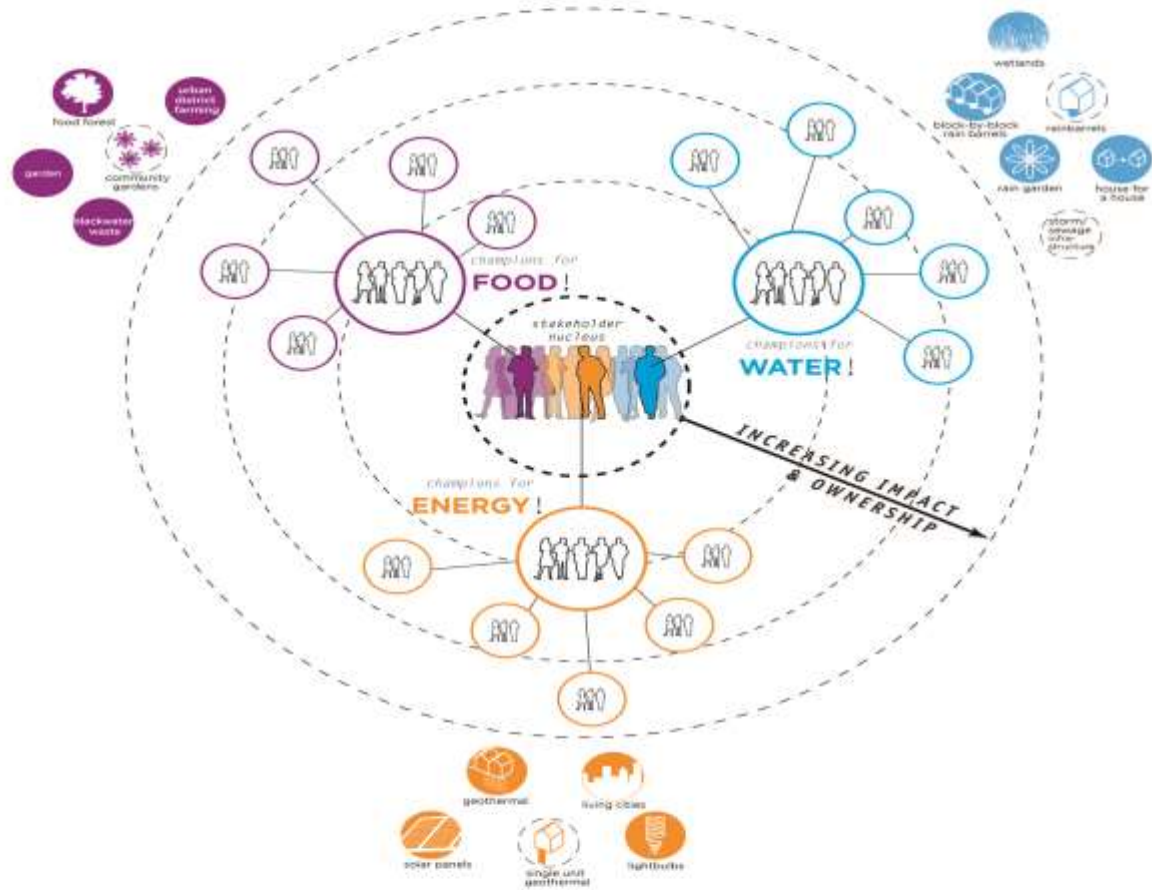


Incremental implementation

- *Letting small, tangible projects lead to big picture transformation*
- *5-10-15 year scales*
- *Tribe Building*



establishing a
SOCIAL
[ECOSYSTEM]



Tribe Building





FOOD

Millvale is a foodie paradise for everyone and is known for hyper local production



WATER

Millvale is part of a just watershed system known for productive and pleasurable landscapes



ENERGY

Millvale is a self reliant urban solar village





AIR

Millvale is a clean air community where people can breathe easy indoors and out



MOBILITY

Millvale is a place where people of all ages have the freedom to move safely

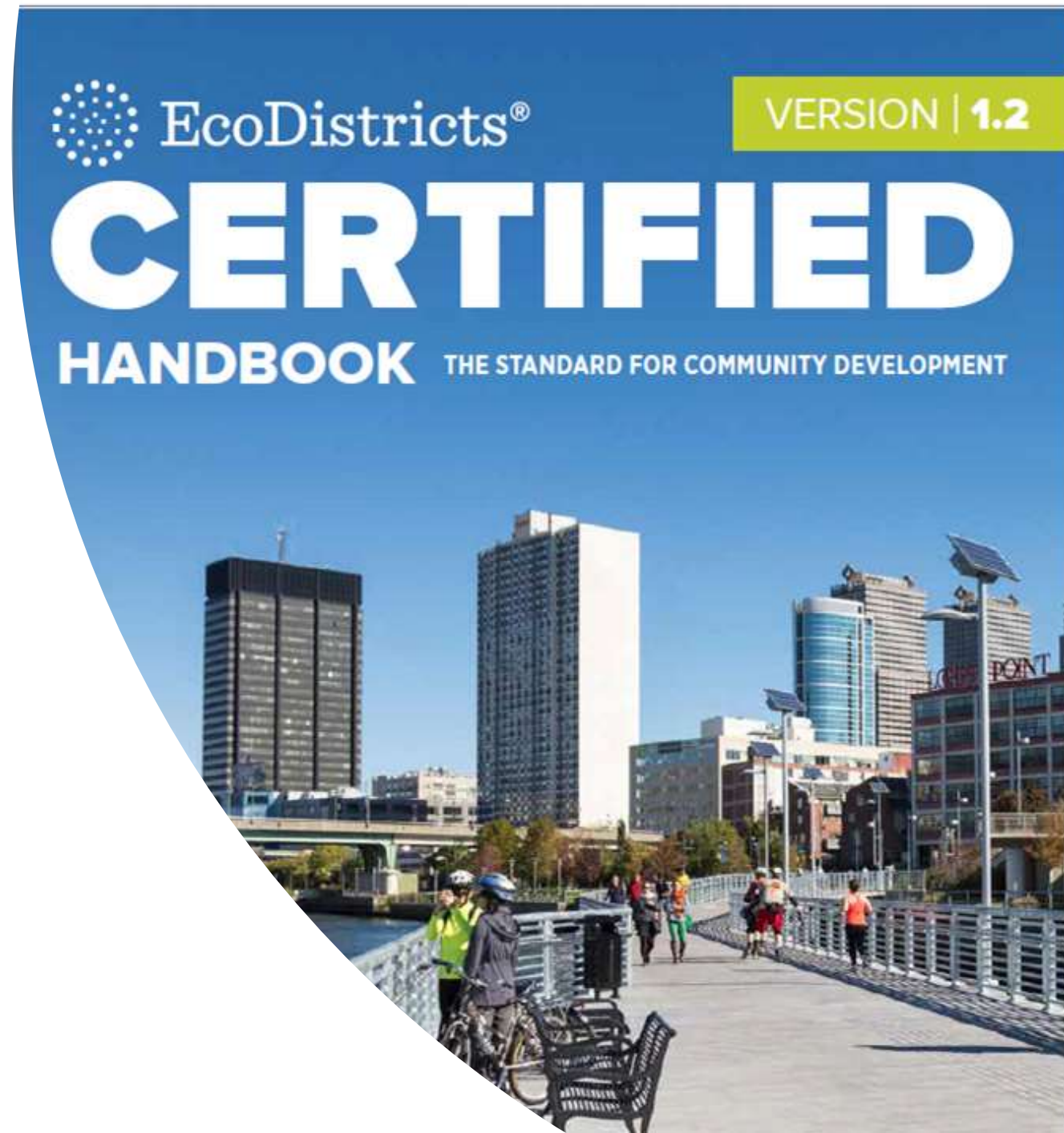


EQUITY

Millvale is a place of self determination where Millvalians are able to participate and shape their future

EcoDistrict Incubator Participation

- Three day intensive experience in Portland, OR
- Learning community development best practices
- Collaborating with EcoDistricts, worldwide





Millvale EcoDistrict Collaborative Formation

Borough of Millvale

**Millvale Community
Development
Corporation**

**Millvale Community
Library**

New Sun Rising

An aerial photograph of a suburban neighborhood. The image shows a mix of residential houses with various roof colors (red, grey, brown), green lawns, and mature trees. A multi-lane road runs horizontally across the lower half of the image. In the foreground, there are railroad tracks. A large, semi-transparent white circle is overlaid on the left side of the image, containing the title and a list of bullet points.

Formalization

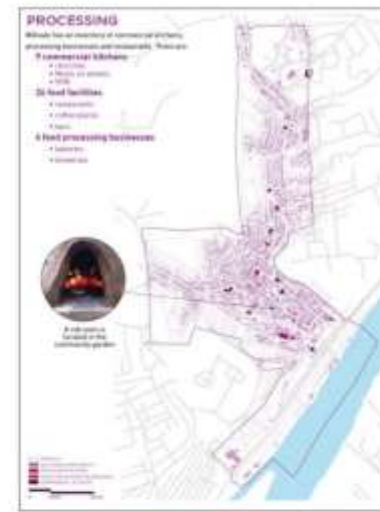
- Tool Development
- Commitment to partnership
- Commitment to action
- Developing more efficient communication
- Tracking & Measuring Success
- Community Feedback Loop – EcoDistrict Leadership Team
- Commitment to Certification

FOOD



FOOD PRODUCTION

The production potential of the community was assessed to identify viable areas for urban agriculture. Millvale has 66 vacant lots, which add up to 4.5 acres viable for food production.



FOOD PROCESSING

As for processing & supply, a rich existing network of commercial kitchens, processing businesses and restaurants has been identified within the community. There are 24 food services and 30 commercial kitchens within Millvale.



FOOD DISTRIBUTION

Food distribution to residents and houses outside of Millvale plays a key role in the food system. As the current access to fresh food within the community is limited, the implementation of a central distribution point becomes critical.

Millvale is a foodie paradise for everyone and is known for hyper local production

PRODUCE
PROCESS
DISTRIBUTE

ENGAGE

MANAGE

A photograph of a community garden with several raised wooden beds filled with various plants. In the background, there are residential houses, including a prominent white house on the left and a red brick house in the center. A person in a green shirt is standing near a white pillar, holding a camera. Other people are visible working in the garden beds. The scene is set in a grassy area with trees and a hill in the distance.

Food Projects

- Gardens of Millvale
- Launch Millvale Food Business Incubator
- Christ Lutheran Monthly Dinners
- Community Workshops
- Summer Food Program
- Summer Camp Planting
- Let's Cook

GREEN GROCER



GREEN GROCER

SM. APPLES 2/31	BEEF 33
LG. APPLES 2/31	PACED 33
ORANGES 6/31	CHICKEN 55
CARROTAGE 30	(4500)
SANDWICHES 31	
APPLES 30/31	CORNO 325
LEMONS 3/31	TURKEY
DATE 20/31	



WATER



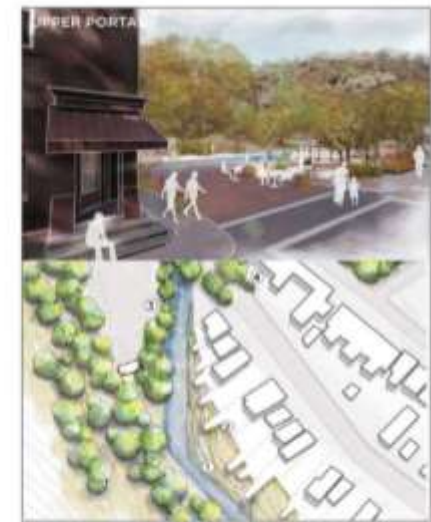
GIRTY'S RUN

Despite being engineered into culverts, Girty's Run overflowed its banks significantly in 2004 and 2007, wiping out the investments of business owners and residents. The extremes of this water dominated ecology have accelerated to the economic instability of the downtown.



COMBINED SEWER OVERFLOW

A 3 Rivers Wet Weather feasibility study for green infrastructure along Girty's Run identified 4 Combined Sewer Overflow (CSO) output points in the center of Millvale, where green infrastructure would be equally if not more effective than grey infrastructure.



STREAM PORTALS

The stream's portals in the community of Millvale play a key role. The portals aim to address the flooding issues, but also become educational and informational places for stormwater both for residents and visitors.



Millvale is part of a just watershed system known for productive and pleasurable landscapes

Water Projects

- MCL Rain Garden
- Borough Rain Garden
- Mt. Alvernia Bioswales
- The Gardens of Millvale
- Stream Cleaning
- Free filters & workshops
- Tree maintenance





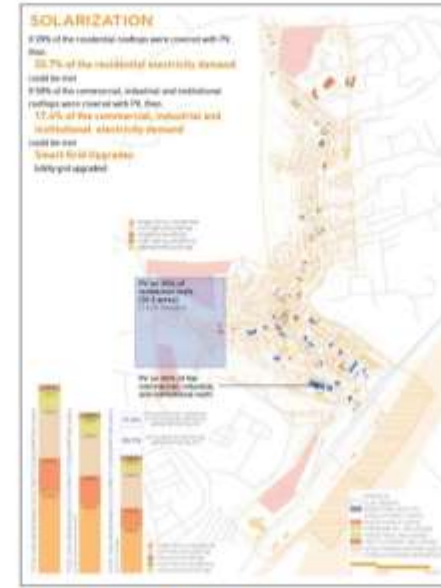


ENERGY



ENERGY CONSERVATION

Reducing the amount of energy consumed is the first and most important step to energy resiliency and it can be applied at a smaller scale of homes and businesses throughout the community.



SOLARIZATION

Installing solar panels on commercial, industrial, institutional and residential buildings can serve the buildings' own energy demands and can lead to significant energy savings.



ENERGY HUBS


The creation of energy hubs are a long term strategy solution for Millvale. Energy Hubs enable adjacent buildings to pool their solar resources.

CONSERVE

PRODUCE

RESILIENCY

Millvale is a self reliant urban solar village

A photograph of a rooftop solar array. The foreground is filled with rows of dark solar panels. In the background, a person in a yellow safety vest is working on the roof. A brick building with large windows is visible behind the roof.

Energy Projects

- ReEnergize Pittsburgh Ambassador Program
- Solar Ambassador Program
- Millvale Community Library Solar Array
- Love My Neighbor Energy Efficiency Education
- Millvale Community Center Solar Array
- Moose Solarization & Tech (to be completed in 2018)
- Teen Solar Fellowship



AIR

GOAL
1

MEASURE IMPACT

Understand the sources of pollution that affect Millvale's air quality and gather in-depth data on the various pollutants that they emit.

GOAL
2

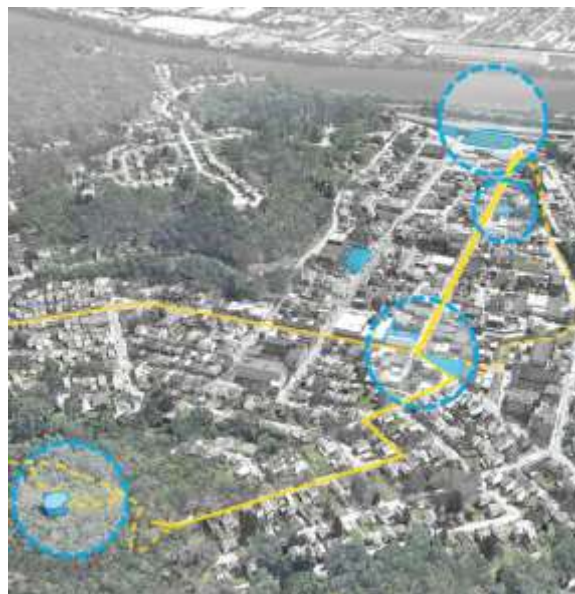
MINIMIZE SOURCES & EXPOSURE

Minimize the production of and contact with air pollutants inside and outside of the Borough.

GOAL
3

INFORMED & ACTIVATED CULTURE

Create an informed culture that advocates for and acts upon air quality issues.



HEALTHY

FEWER
SOURCES

LESS
IMPACT

**Millvale is a clean air
community where people can
breathe easy indoors and out**



Air Projects

- Millvale Library ROCIS Participation
- Millvale Air Quality Baseline Study
- Heinz Endowments Partnership
- Teen Air Quality Fellowship (2018)
- Millvale Library Air Quality Kits

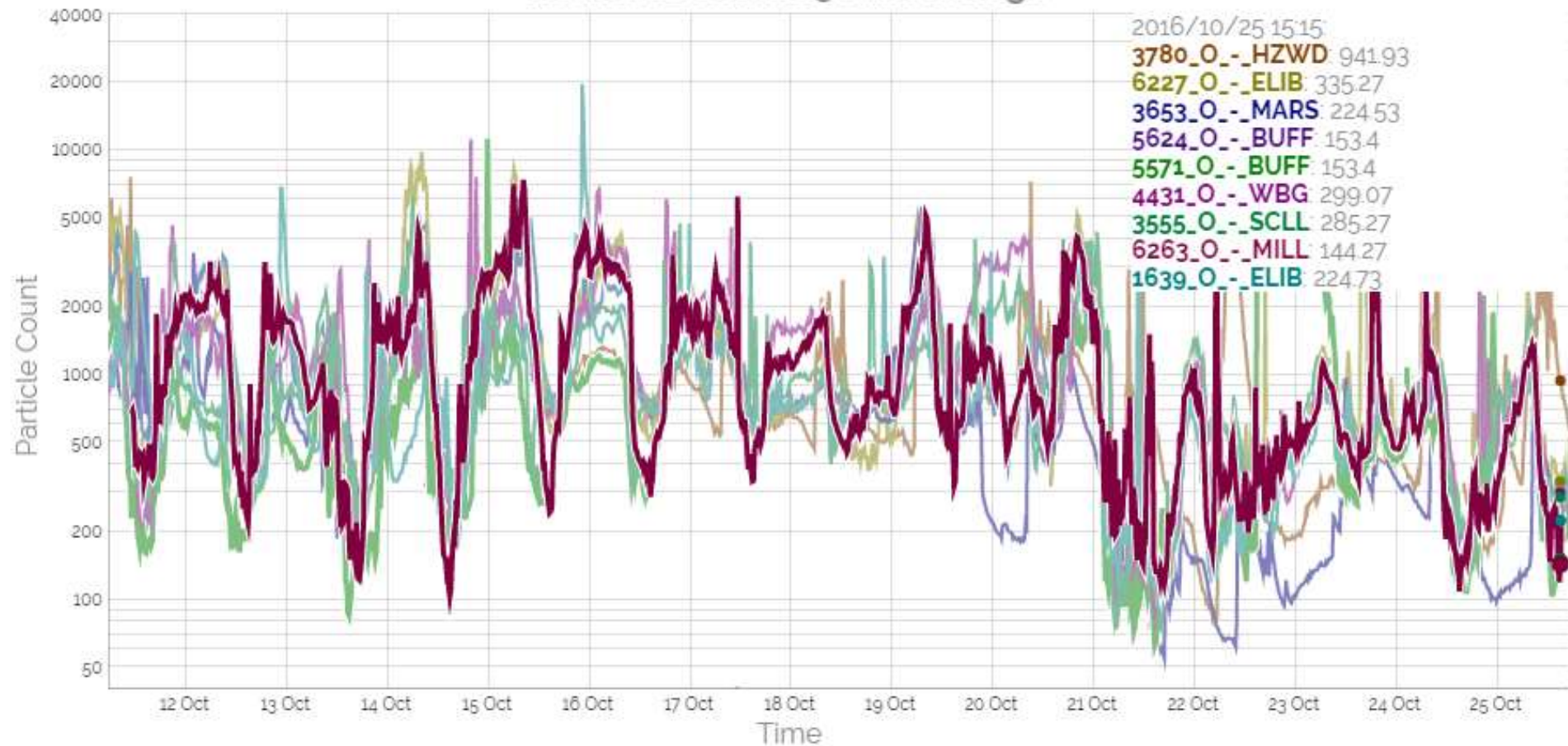


Air Quality Baseline

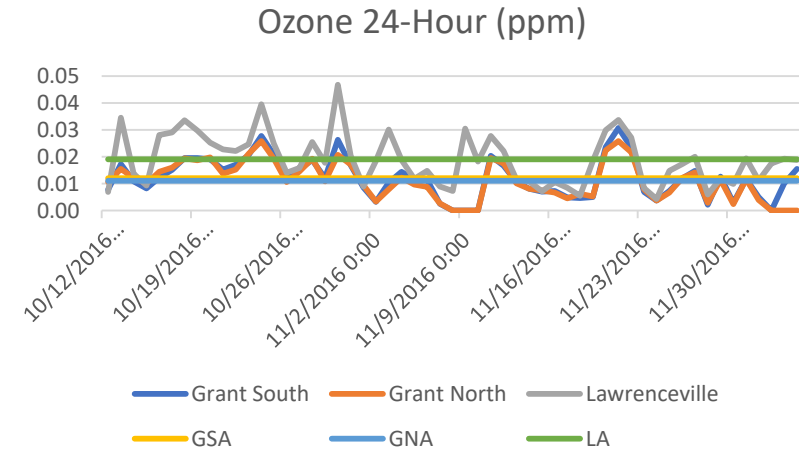
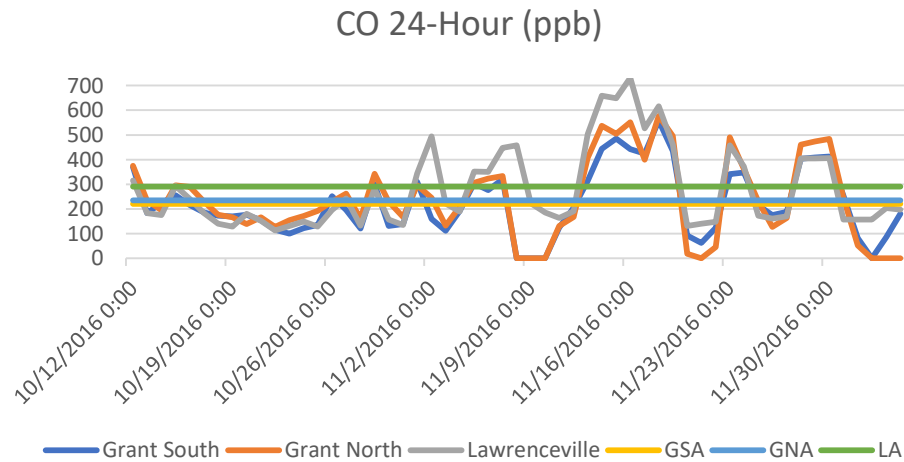
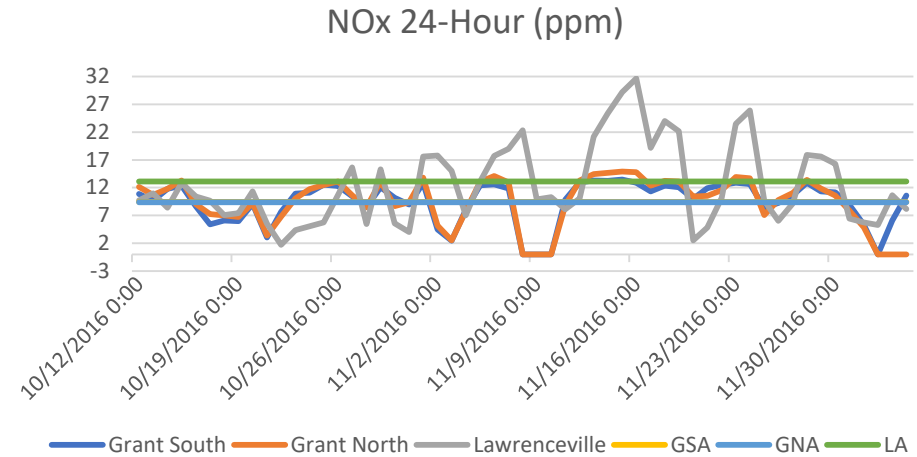
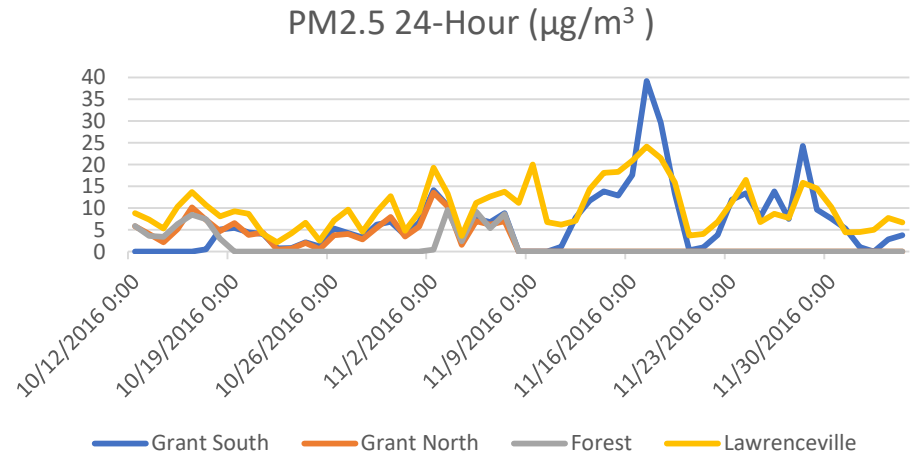
TESTING RESULTS ROCIS

ROCIS Low Cost Monitoring Project

Round 12 Small 15 Min Average



TESTING RESULTS RAMPs







MOBILITY



- 1 Develop a transportation baseline by gathering data on current modes of transportation and destinations/routes.
- 2 Encourage expanded use of alternative transportation.
- 3 Increase visibility and safety by installing, biking, busing and walking infrastructure.
- 4 Encourage walking and biking downtown by discouraging the use of cars.

MULTI-MODAL

SAFE

ACCESS

Millvale is a place where people of all ages have the freedom to move safely

Mobility Projects

- Millvale Borough Bicycle & Pedestrian Committee
- Bike Route Completion & Signage
- Millvale Alley Bicycle Rally
- Bus Advocacy
- Complete Streets Initiative
- Traffic 21 Smart Mobility Partnership





Millvale Bicycle Rally (June 2nd)

EQUITY



- ① Gather and establish baseline data
- ② Create pathways for participation
- ③ Measure, grow, and communicate

Millvale is a place of self determination where Millvalians are able to participate and shape their future

DIVERSE

EDUCATED

HEALTHY



Equity Projects

- Millvale Library*
- Sustainable Business Planning (19)
- Millvale Teen Solar Fellowship
- Saturday Sequence
- Millvale Teen Air Quality Fellowship (2018)
- **Affordable Housing Initiative**
- Moose: Center for Community Vibrancy
- Community Needs Assessment
- Really – almost everything!



Recognition

- Sustainable Pennsylvania Platinum Certification
- Western Pennsylvania Environmental Award
- Green Building Alliance Inspiration Award
- Sustainable Pittsburgh Challenge Top Scoring Non-Profit – Millvale Library
- Sustainable Pittsburgh Challenge Top Energy Saver – Millvale Library
- Neighborhood Allies Market Confidence Award – New Sun Rising
- Clean Water Action – Dewey Award
- APA – National Planning Achievement Award
- APA – Sustainability or Resiliency Plan Award





Action!

Awards are nice, but actions speak.

Moving Forward

Things to think about: Think globally, act locally

- Lead with the issues that impact our communities
- **Do something!**
- Consider the true cost of business – not just revenue generated – we all end up paying somehow
- The impacts of a changing climate
 - Planning for landslides



Things to think about: Think globally, act locally

- Jobs

- What would we think of the Calvin Coolidge administration wanting to save jobs in “Big Horse & Buggy”?
 - Train already skilled workers for a transitioning economy
- And don’t forget – we are the country that put humans on the Moon, because we believed it was possible. America has led the world, and should continue to lead the world, and this is our generation’s opportunity to do that.



Questions?
Takeaways?

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