



Achieving Equitable Development in Communities

June 24, 2021



Welcome



Brian Holtzclaw, Chief
Environmental Justice and Children's
Health Section



Carlton Eley is Regional Equity Initiative Manager for the Miami Valley Regional Planning Commission. He is responsible for leading development and implementation of equity initiatives throughout the region in collaboration with regional planning commission members and strategic partners. Prior to joining MVRPC, Carlton led multiple projects that re-energized the American Planning Association's focus on social equity. Also, he was the first urban planner hired by the Office of Environmental Justice at U.S. EPA, and he managed a portfolio on equitable development. Recently, Carlton was named the 2021 Sojourner Truth Fellow for Taubman College of Architecture and Urban Planning at the University of Michigan.



Equitable Development: Social Equity by Design

Carlton Eley, Regional Equity Initiative Manager
Miami Valley Regional
Planning Commission



Short Talk on Equitable Development

Carlton C. Eley
Miami Valley Regional Planning Commission
June 24, 2021





- **Equitable development** is an approach for meeting the needs of underserved communities through projects, programs, and/or policies that reduce disparities while fostering places that are healthy, vibrant, and diverse.

<https://www.epa.gov/environmentaljustice>

Cited by the Joint Center for Housing Studies of Harvard University
“The Ingredients of Equitable Development Planning” (2019)



“The best preparation comes from...observing, recording, communicating, and self-educating.”

Randall Arendt, Landscape Planner

Facebook AOL Mail (2636) Inbox (1,037) - eleync@gmail.co YouTube Black Students at Harvard's Grad +

https://www.bloomberg.com/news/articles/2015-05-14/black-students-at-harvard-s-graduate-school-of-design-say-there-are-no-courses-on-race-and-justice-so-we-made-one

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“Practitioners need to improve their proficiency with regard to working on social equity issues.”
Carlton Eley, May 2015

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Type here to search 10:53 AM 9/5/2020

Timeline: Parallel Initiatives

- Advocacy Planning (1965)
- Equity Planning Practice (1969 – 1979)
- Tenet of Social Planning Incorporated into AICP Code of Ethics (1981)
- Equity Development (1983 – 1987)
- Fair Growth (2000)
- Equitable Development (2000)



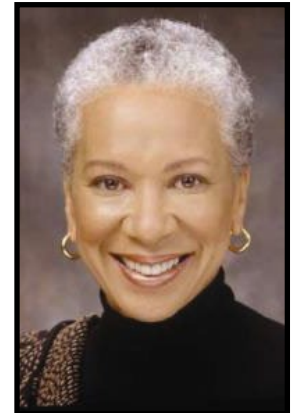
Paul Davidoff



Norman Krumholz



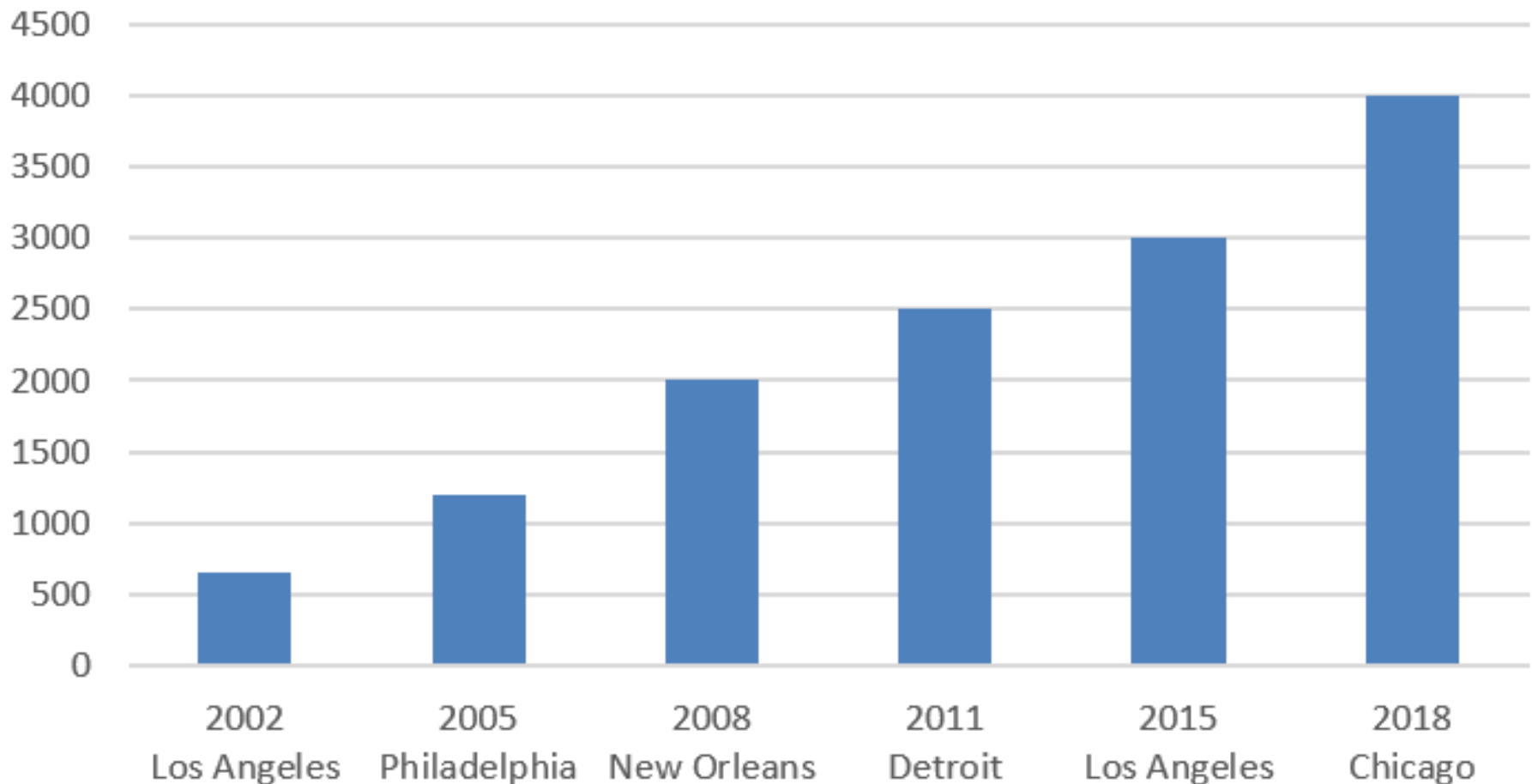
Robert Mier



Angela Glover
Blackwell

Trending Upwardly

Attendance for the Equity Summit (2002 - 2018)



An Abbreviated Chronology: Who is Talking about 'Equity and Communities'?

2005



American Planning Association
**Planning and the
Black Community Division**

Making Great Communities Happen



working for
environmental
justice
www.apa.gov/environmentaljustice

PolicyLink



**2015
LOCUS
LEADERSHIP
SUMMIT**



LIVING CITIES
INNOVATE • INVEST • LEAD



 **FORD FOUNDATION**

Brownfields 2015
SUSTAINABLE COMMUNITIES START HERE



GREENBUILD 2015
Communities & Affordable Homes Summit
WASHINGTON, D.C. **NOVEMBER 17**

ONE DC
ORGANIZING NEIGHBORHOOD EQUITY

People & Places
2015 COMMUNITY CONFERENCE
MAR 4-6, 2015 • WASHINGTON, DC

2015



American Planning Association
**Planning and the
Black Community Division**

Making Great Communities Happen

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Equity Summit 2015
All in for inclusion, justice, and prosperity

EQUITY 15

October 27-29, 2015, Los Angeles, CA

BLACK In DESIGN

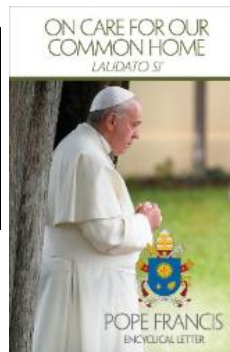
**Local
Government
Commission**

2015
RISE
SOCIAL JUSTICE by DESIGN
NOMA CONFERENCE



working for
environmental
justice
www.epa.gov/environmentaljustice

**STRUCTURES
FOR INCLUSION 15**
DETROIT



POPE FRANCIS
ENCYCLICAL LETTER

An Abbreviated Chronology: Who is Talking about 'Equity and Communities'?

2021



American Planning Association
**Planning and the
Black Community Division**

Making Great Communities Happen



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ICMA



NARC



AIA



AMERICAN PUBLIC HEALTH ASSOCIATION
For science. For action. For health.



NATIONAL ACADEMY OF
PUBLIC ADMINISTRATION



“Inconvenient truths must be acknowledged if we are to have wise governance.”

Al Gore, Nobel Laureate

Inequality is higher in most metropolitan areas than in 2007.

Brookings 2016

Whites see wealth almost double from 1983 to 2013.
CNN 2016

For many poor families, housing costs are ‘out of reach’.

**The Washington Post
2016**

The nation’s affordable housing stock dropped by 60% from 2010 to 2016.

**The Washington Post
2017**

In NYC, ‘blue-lining’ is a new shameful form of housing discrimination.

Michael Greenberg 2020

Half-century of civil rights gains have stalled or reversed.

The Guardian 2018

In nearly every U.S. metro area, new data show opportunity lags for minority children.

NPR 2019

Approximately half the luxury condo units that have come on the market in the past five years in Manhattan are still unsold (while the homeless shelters are full).

The Atlantic 2020

Racism cost the U.S. economy \$16 trillion over the last two decades.

Business Insider 2020

Making a Visible Difference with Communities

Equitable development is an approach to meet the needs of underserved communities through projects, programs, and/or policies that reduce disparities while fostering places that are healthy, vibrant, and diverse.

Equitable Development Principles

- Housing choice
- Transportation choice

- Personal responsibility
- Capacity building

- Healthy communities
- Heritage preservation

- Stewardship (environmental)
- Entrepreneurship

- Sustainable wealth creation
- Civic engagement

- From Good to Great Through Planning/Design, Standard of Excellence

Source: Carlton Eley, MSURP (2007)

REAL TALK ABOUT EQUITABLE DEVELOPMENT



100

"Fostering Social Equity and Inclusive Growth"
2018 National Planning Conference
New Orleans, LA

Neglect is a Self-Inflicted Wound

“It turns out that advancing equal opportunity and economic empowerment is both morally right and good economics. Why? Because poverty, discrimination and ignorance restrict growth.

When you stifle human potential, when you don't invest in new ideas, it doesn't just cut off the people who are affected; it hurts us all.”

-- Former President William Jefferson Clinton
September 2012

Equity is a Choice and it Requires Being Assertive



“Find a way to get in the way and get in **good trouble, necessary trouble** when you see something is not fair, not right, or not just.”

Congressman John Lewis
(1940 - 2020)

Equity is the Outcome of Ethical Practice

**You will never change
anything that you are
willing to tolerate.**

Myles Munroe



The Equity Challenge

- Rise above false choices.
- Be curious.
- Get comfortable being uncomfortable.





Dr. Joan M. Wesley, Associate Professor
Jackson State University
Community Development and Housing
Concentration



Tools for Equitable Development Panel Discussion



**Darryl Haddock, Clinton Johnson,
Alexis Rourk and Todd Reynolds**



Darryl Haddock is currently the Environmental Education Director for West Atlanta Watershed Alliance. He completed Jacksonville University with a BA in Geography and is currently enrolled in Georgia State University with plans to receive a master's degree in Geoscience and Applied GIS. Darryl has nearly 20 years of professional experience as an environmental scientist working for the consulting firm, Dames and Moore, as a principal investigator with USGS on a subsurface mapping project and as Environmental Specialist for the State of Georgia, Environmental Protection Division. Both Environmental Leadership Program and Toyota Together Green/ National Audubon Society recognized him as a fellow and emerging leader in the environment and conservation movements. He is certified as a Project WET Trainer, an Interpretive Guide by the National

Association for Interpretation and is also completing his Environmental Education certification program with Advanced Training for Environmental Education in Georgia (ATEEG); which is a nationally accredited, professional certification program for formal and non-formal educators. Darryl coordinates educational programs, community outreach and citizen science research activities and participates in WAWA's day to day operations.

Darryl Haddock

- Environmental Education Director at West Atlanta Watershed Alliance.
- Urban Waters Federal Partnership's Proctor Creek Ambassador and
- Proctor Creek Stewardship Council.



An aerial, isometric-style illustration of a sustainable urban development. The scene shows a dense cluster of multi-story buildings with green roofs, interspersed with trees and pedestrian-friendly streets. The buildings are rendered in various colors like blue, red, and grey. The overall atmosphere is one of a modern, eco-friendly community.

Sustainable Community Engagement that Achieves Equitable Development for Communities



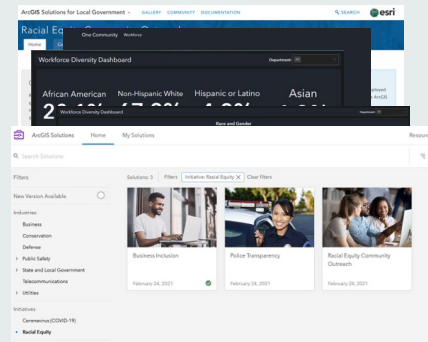
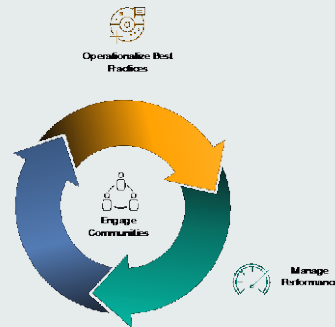
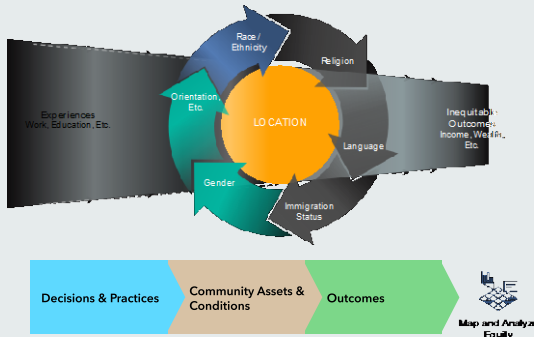
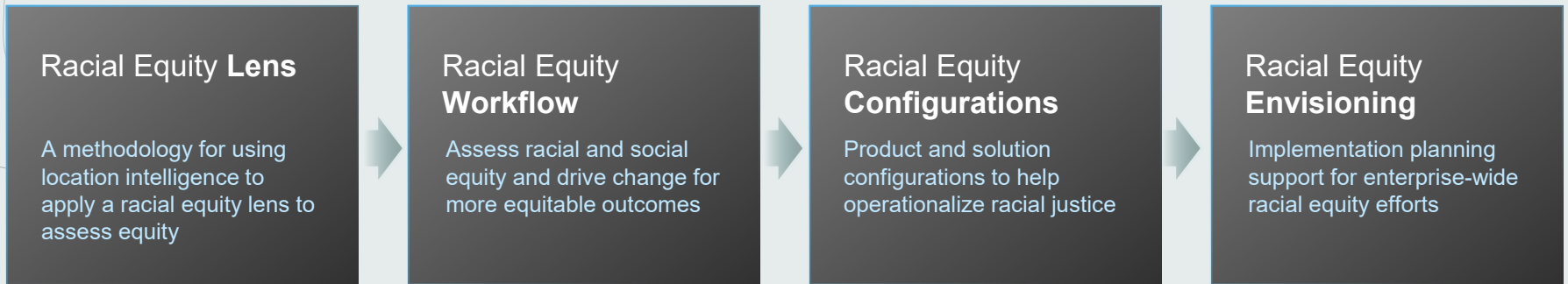
Clinton Johnson helps organizations create geospatial strategies for equitable outcomes. He takes an empathic approach to technology that begins with understanding real-world challenges faced by diverse communities and finding creative ways to implement practical solutions. Clinton leads Esri's Racial Equity Unified Team. He also founded and leads NorthStar, an employee community focused on increasing representation, inclusion and belonging for people of African descent in GIS. He is also an advocate for belonging and equity for people from underrepresented groups in GIS and STEM more broadly.

Applying GIS as a Framework for Racial Equity & Social Justice

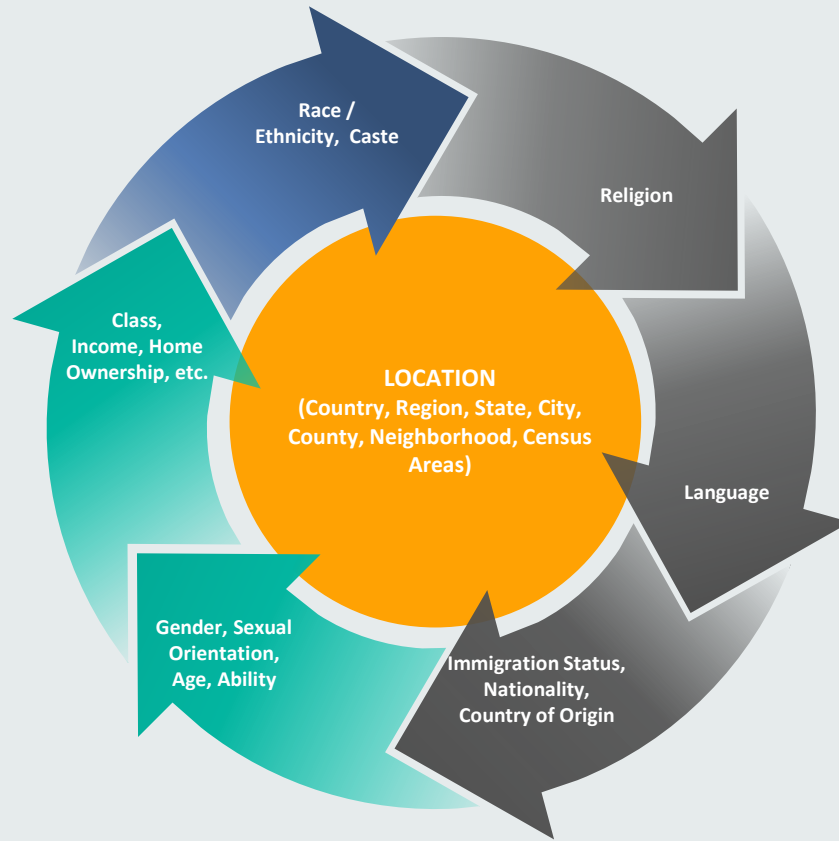


GIS as a Racial Equity Framework

Comprehensive resources to support racial equity initiatives ...



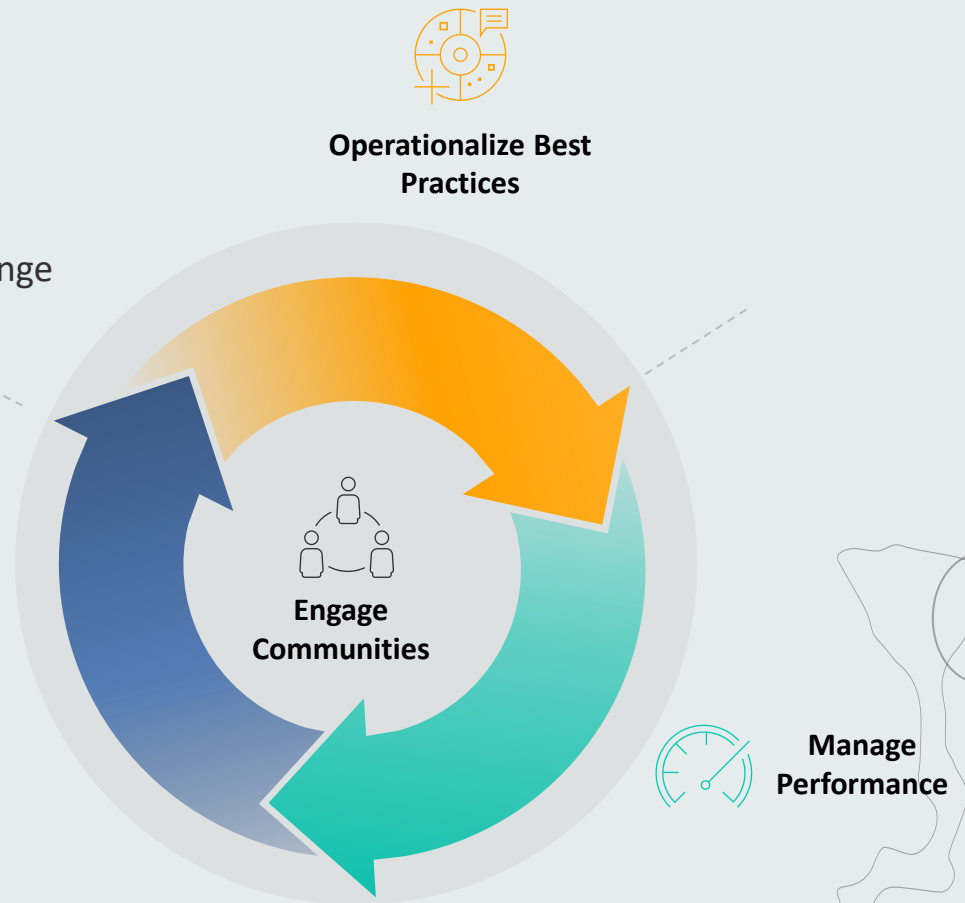
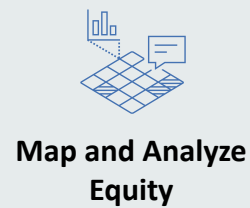
Racial Equity Lens



GIS as a Racial Equity Framework

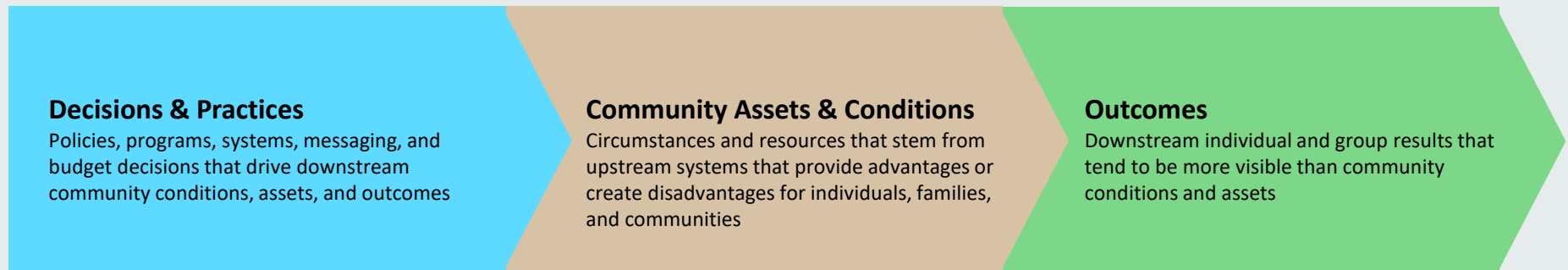
Racial Equity Workflow

- Assess racial and social equity and drive change for more equitable outcomes





Community Outcome Streams





Community Outcome Streams

Outcomes

Downstream individual and group results that tend to be more visible than Community Assets & Conditions



- Entrepreneurship
- Academic Performance
- Diabetes Management
- Birth Weight
- Asthma Management
- Mental Illness Management
- Employment Rates
- Home Ownership
- Many other individual, family, and community results



Community Outcome Streams

Community Assets & Conditions

Circumstances and resources that stem from upstream systems that provide advantages or create disadvantages for individuals, families, and communities



Live



Work



Travel



Play

Housing quality, quality of schools, employment rates, wages & earnings

Availability of insurance, quality of healthcare, pay gaps

Food security, parks & recreation safety & access, air quality

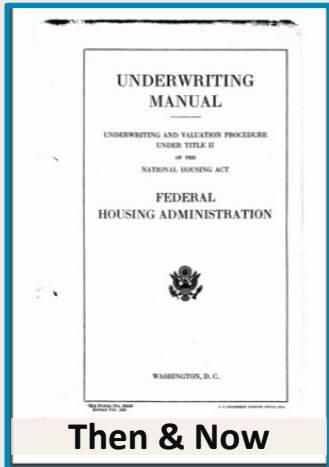
Community economic development, proportionality of justice systems

Many other conditions across a wide range community concerns

Community Outcome Streams

Decisions & Practices

Policies, programs, systems, messaging, and budget decisions that drive downstream community conditions, assets, and outcomes



Then & Now



Government



Business



Communities

Create or Sustain:

Structural Racism or Discrimination

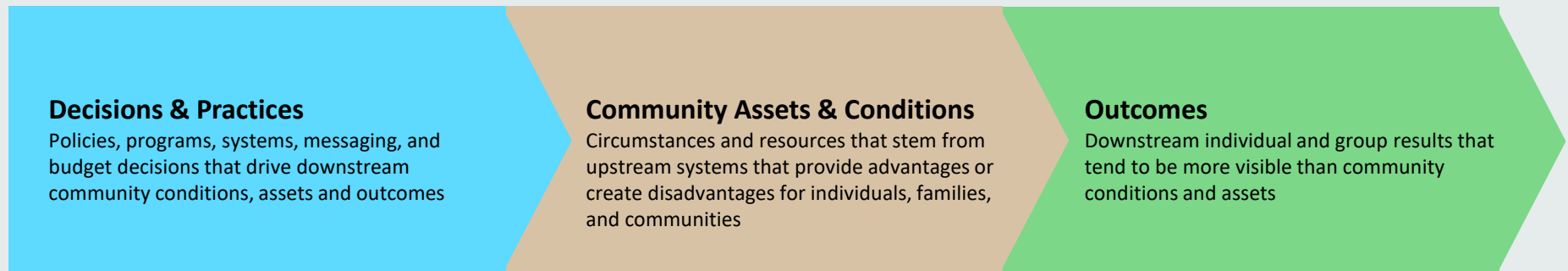
Class or Gender Bias

Lack of Access to Resources & Power

Intergenerational Inequities



Community Outcome Streams



Equity Root Cause Analysis

Decisions & Practices

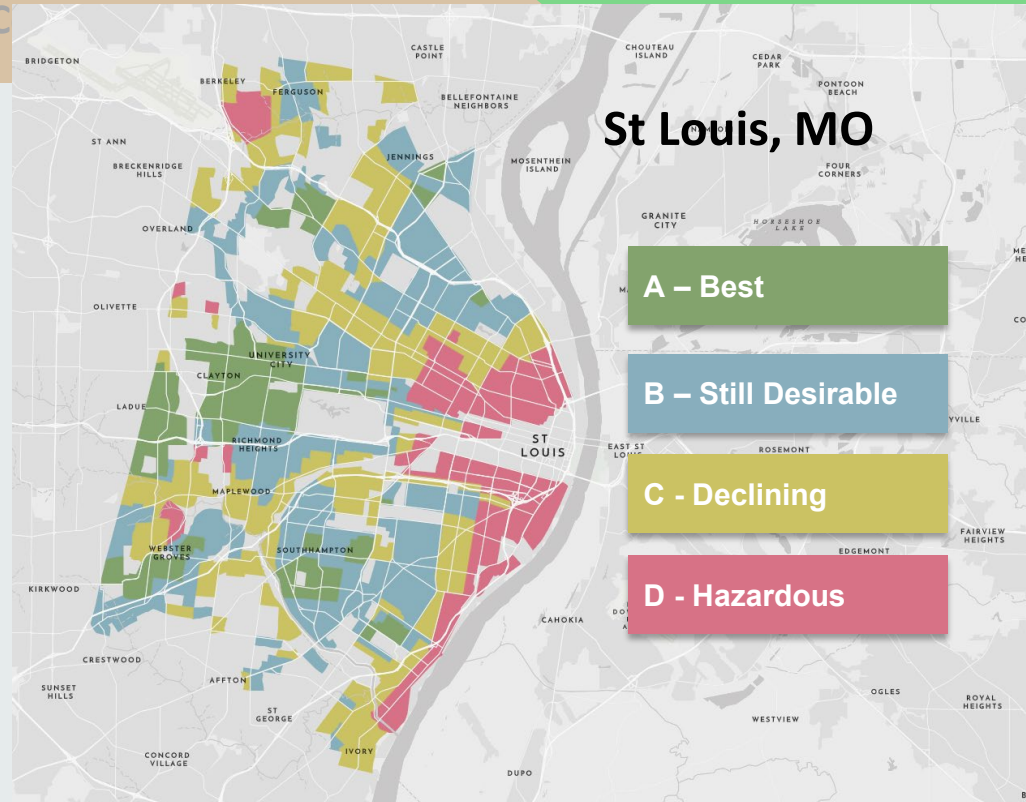
Policies, programs, systems, messaging, and budget decisions that drive downstream community conditions, assets and outcomes

Structural Racism or Discrimination

Class or Gender Bias

Lack of Access to Resources & Power

Intergenerational Inequities



Equity Root Cause Analysis

Community Assets & Conditions

Circumstances and resources that stem from upstream systems that provide advantages or create disadvantages for individuals, families, and communities

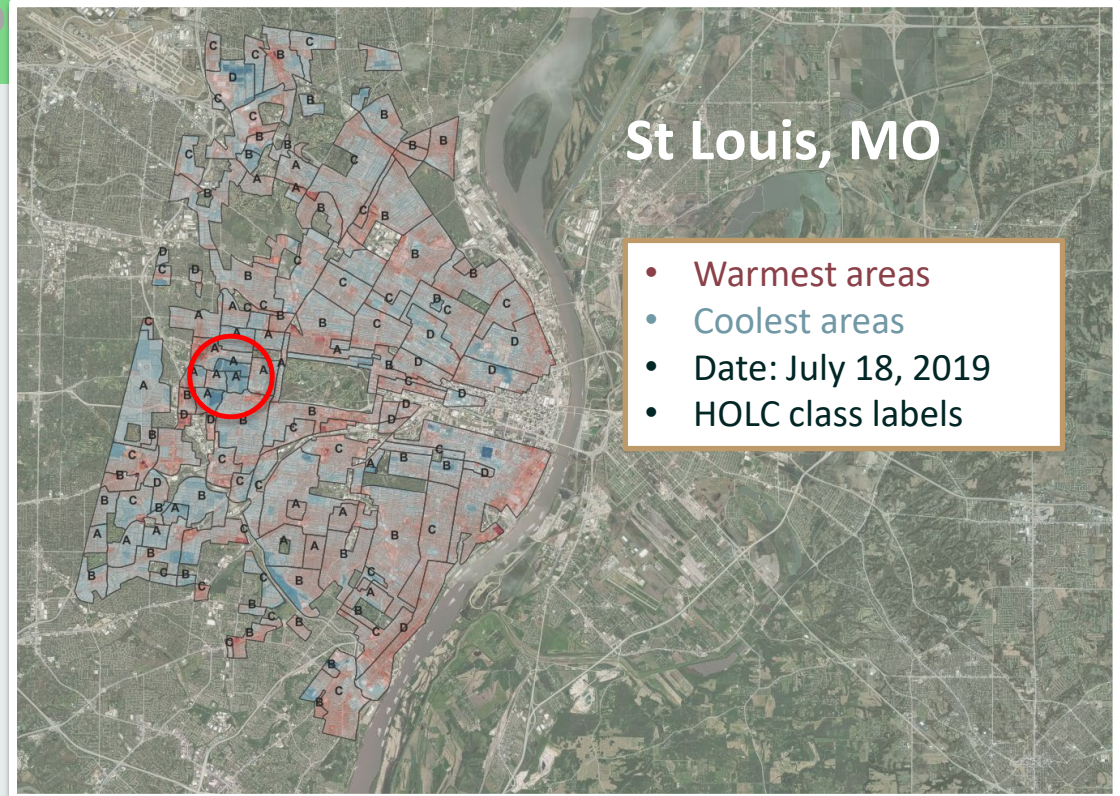
dilapidated housing, poor quality schools, unemployment, low wage work

limited insurance, low quality healthcare, pay gaps

Food insecurity, limited and unsafe parks & recreation resources, tree coverage and vegetation, paved surfaces

Absence of community economic development, disproportionality in justice systems

Many other conditions across a wide range community concerns



Equity Root Cause Analysis

Community Assets & Conditions

Circumstances and resources that stem from upstream systems that provide advantages or create disadvantages for individuals, families, and communities

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Equity Root Cause Analysis

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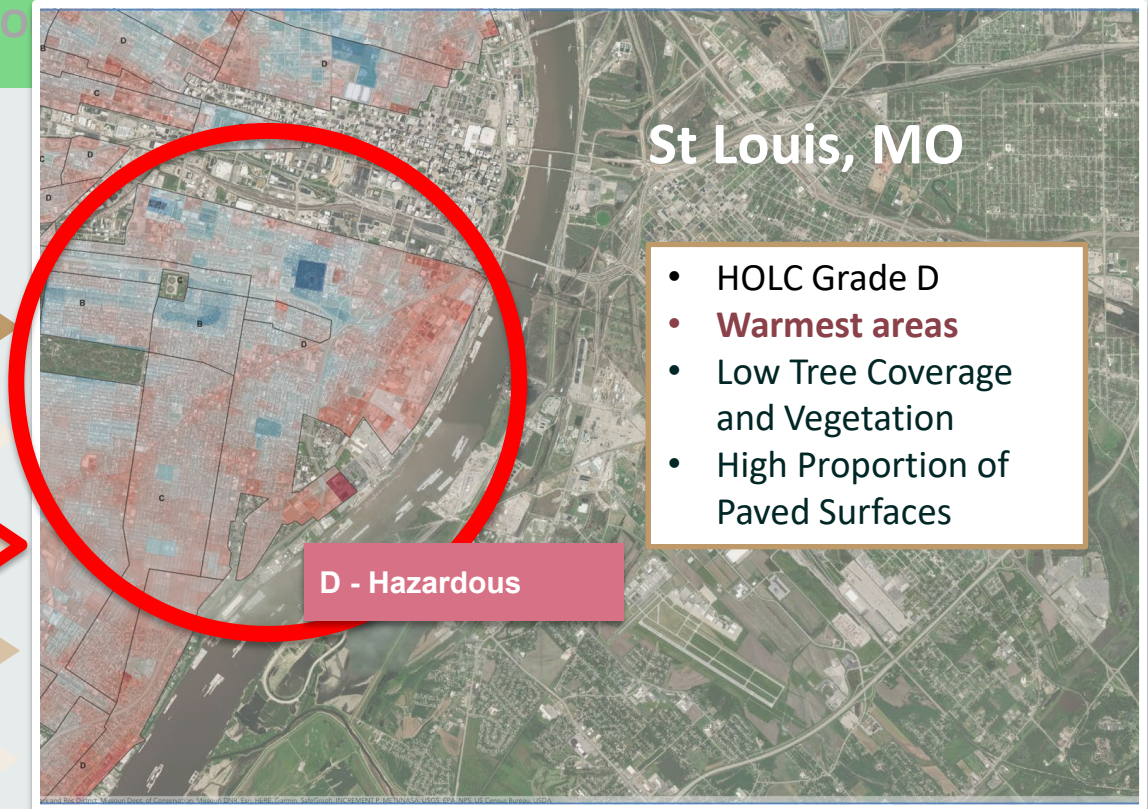
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Equity Root Cause Analysis

Outcomes

Downstream individual and group results that tend to be more visible than community conditions and assets

Higher Energy Bills

Smoking

Overweight/Obesity

No Physical Activity

Chronic Respiratory Symptoms

High Blood Pressure

High Cholesterol

Pre-Term Birth

Cardiovascular & Respiratory Disease, Death

Deaths from

- heat stroke and related conditions
- cardiovascular disease,
- respiratory disease, and
- cerebrovascular disease.

Hospital admissions for

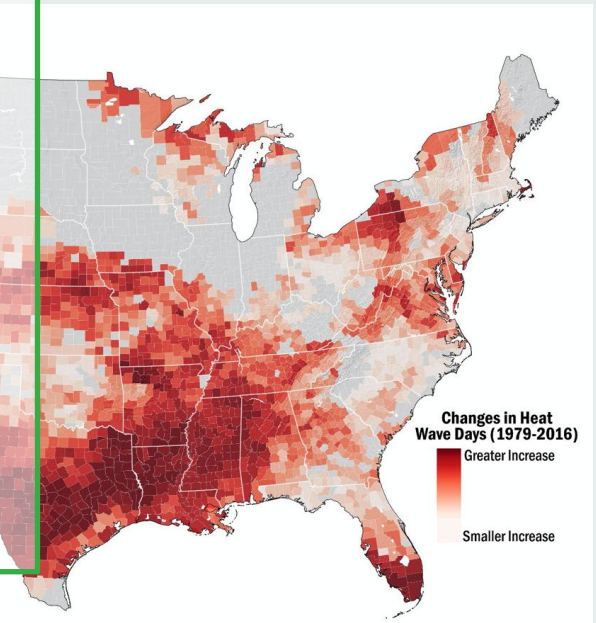
- cardiovascular,
- kidney, and
- respiratory disorders.

Extreme summer heat (US)

- **extreme heat events more frequent and intense**

Increasing Heat Wave Days Over Time

This map of U.S. counties represents the change in the number of heat wave days per year, over a 38-year period (1979 - 2016). Counties in dark red exhibited the greatest increase in the number of heat wave days, as compared to counties in light red. Counties in gray did not exhibit a statistically significant change (p-value < 0.05) in the number of heat wave days.





Unhealthy Community Outcome Streams





Healthy Community Outcome Streams



Spatial Analysis and Data Science

Analysis with The Science of Where



Data engineering



Visualization and exploration



Spatial analysis



Machine learning and artificial intelligence



Big data analytics



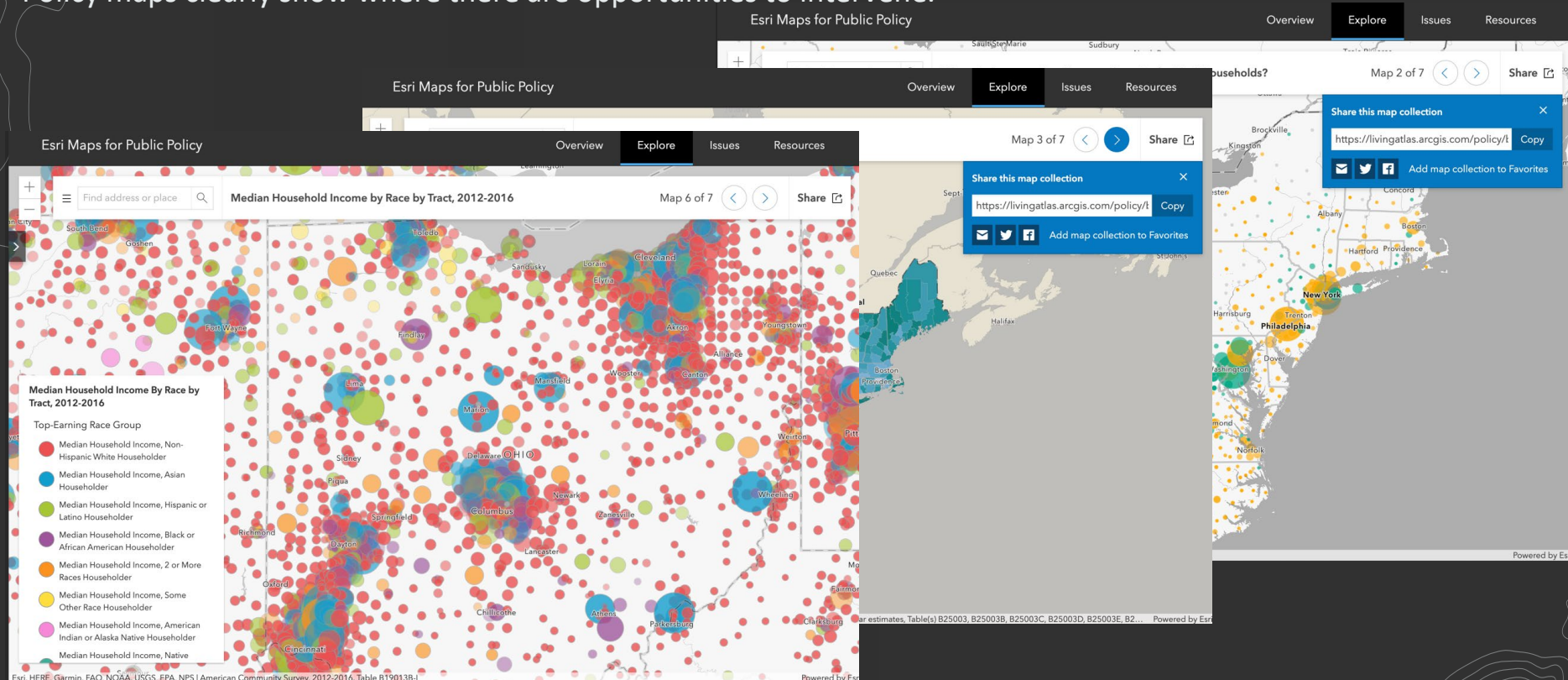
Modeling and scripting



Sharing and collaboration

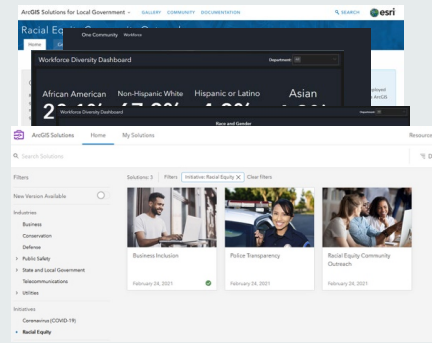
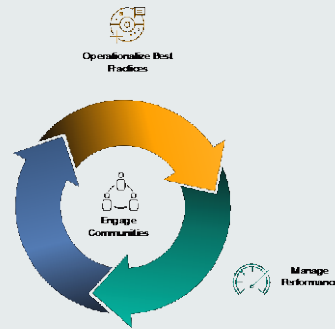
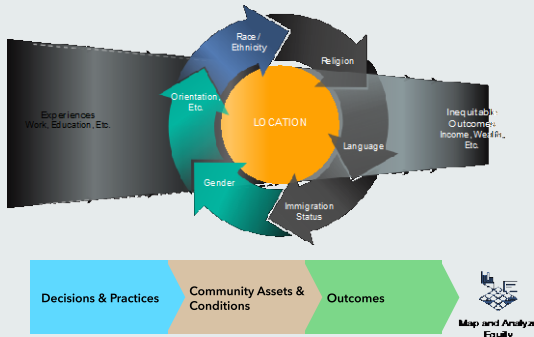
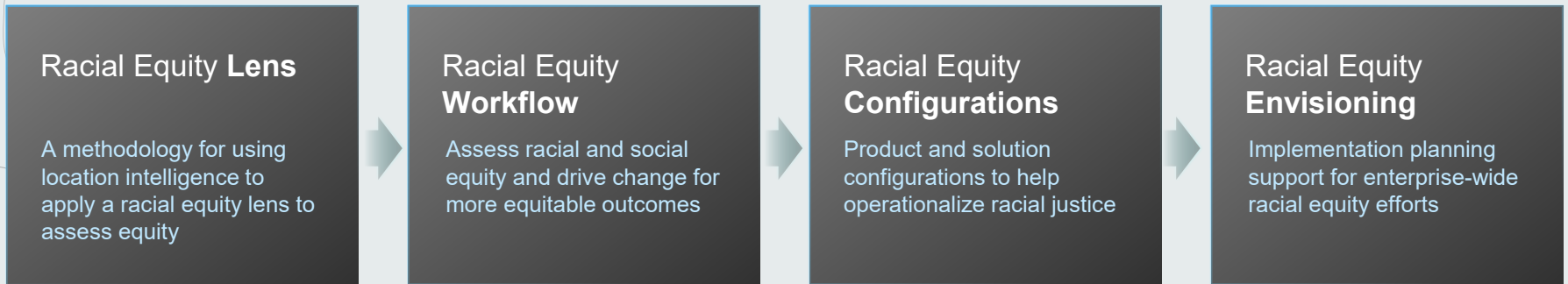
Living Atlas: Esri Maps for Public Policy

Policy maps clearly show where there are opportunities to intervene.



GIS as a Racial Equity Framework

Comprehensive resources to support racial equity initiatives ...





Resources

- Esri's [Racial Equity Site](https://www.esri.com/racial-equity)
(<https://www.esri.com/racial-equity>)
 - Relevant and authoritative resources for mapping and analysis of racial inequities
- Esri's [Nonprofit Program](https://www.esri.com/industries/sustainability/nonprofit-program)
(<https://www.esri.com/industries/sustainability/nonprofit-program>)
 - Relevant and authoritative resources for mapping and analysis of racial inequities
- The [Racial Equity Community Outreach solution](#)
 - Information and links to the ready-to-deploy no-cost solution.
- Explore your locality with [Esri Maps for Public Policy](#)
 - Interact with data on social equity, health, economic opportunity, environment, public safety and more

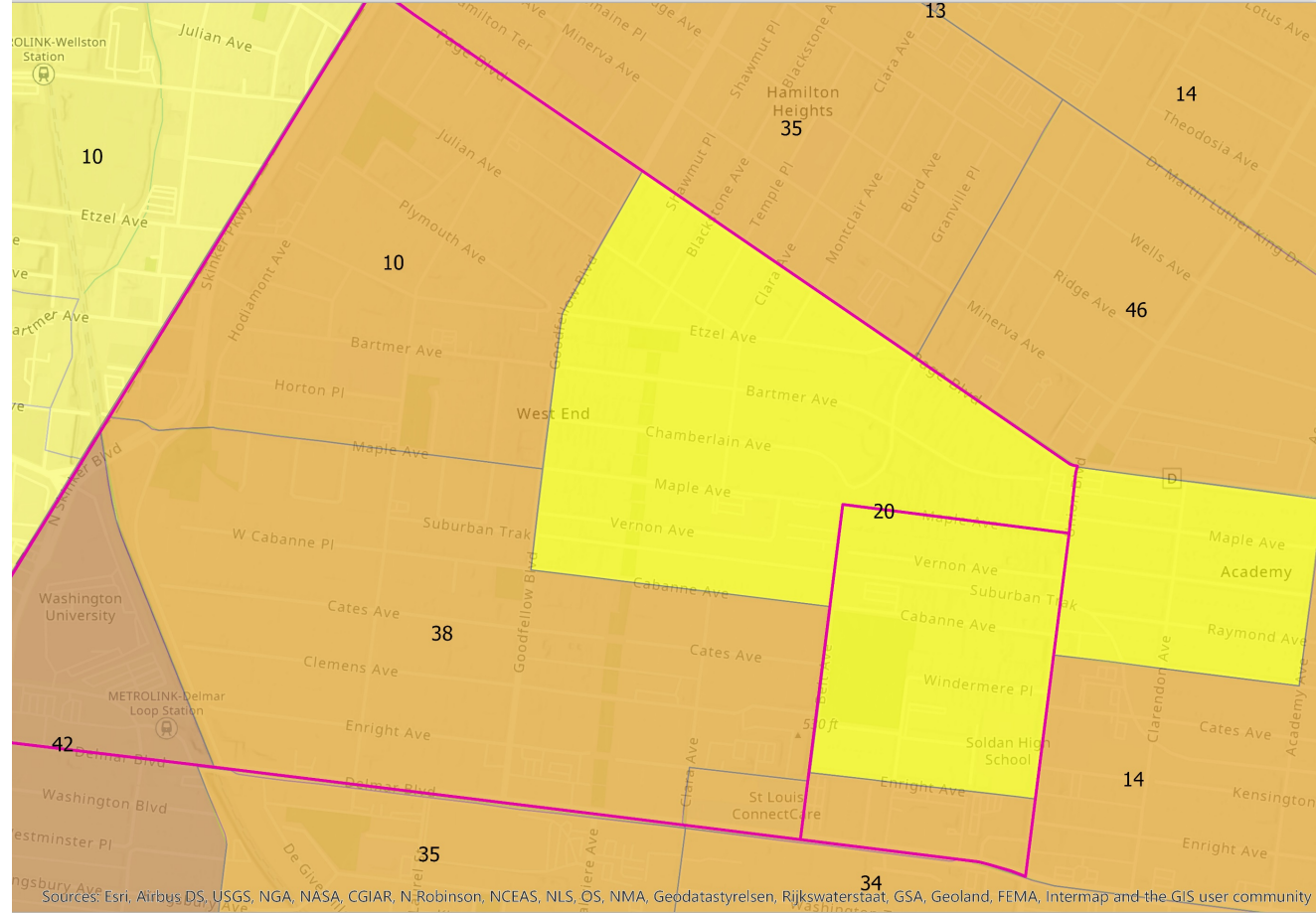


Alexis Rourk Reyes works at the U.S. Environmental Protection Agency in the Office of Community Revitalization (EPA OCR), part of the Office of Policy at EPA headquarters. At EPA OCR, Alexis leads technical assistance on equitable development as part of the Building Blocks program and manages the development, maintenance, and dissemination of geospatial tools. Alexis also supports other technical assistance programs in supporting communities with enhanced data analysis or outreach and partnership with marginalized groups, helping local partners engage members of BIPOC and other underrepresented communities to ensure that community-driven action planning is done with their meaningful participation. Prior to EPA OCR, Alexis worked in EPA's Office of Global Affairs and Policy on international efforts around food waste and air quality. Alexis has also worked in community-based planning, environmental justice, and public health in New York City as well as on national community engagement and capacity-building for federal agencies like the NIH and CDC. Alexis served in Costa Rica as a Peace Corps Volunteer and is fluent in Spanish. Alexis holds a Masters degree in City and Regional Planning from the Pratt Institute and undergraduate degree in Urban Poverty Studies from the University of Maryland and College Park.

Mapping in Support of Equitable Development

Alexis Rourk Reyes
(she, her, hers)

US Environmental Protection Agency
Office of Community Revitalization
Rourk.alexis@epa.gov
(202) 564-3179



Number of Senior Homeowners (Labeled)
Already Burdened by Housing Costs in Areas with Rising Costs
Source: Census ACS 2014-2018, 2011-2016
EPA Building Blocks Equitable Development
Decoding Displacement Working Session
West End & Visitation Park
November 2020

Legend
Owner households whose householder is 65 years and over whose monthly owner costs are 35.0 percent or more of household income
Change 2011-2016 (percent)

- Decreased up to 13%
- 1-9% (6% average)
- 10-31%
- 32-52%
- 53-74%

0.28 Miles



Since 1996, EPA's Office of Community Revitalization (formerly Office of Sustainable Communities) has been helping communities grow in ways that expand economic opportunity, protect human health and the environment, and create and enhance the places that people love.

- ✓ Provide technical and planning assistance to communities
- ✓ Develop tools and publications to help communities achieve their goals for growth
- ✓ Working with federal, state, and local governments, non-profits, and the private sector to help implement smart growth strategies that meet community goals



Thoughts on Approach

We want to support marginalized and underserved community members as they:

PARTICIPATE

PRIORITIZE

DECIDE

ACT

TAKE POWER

LEAD CHANGE

We keep this in mind as we do this work:

- *For whom?*
- *Build skills, relationships, and structures*
- *Don't assume this is new*
- *Look on the bright side*
- *Ground-truth and collaborate*
- *Eyes on decision-making and outcomes*
- *Keep good notes, photos, and data*
- *Honor each person's time and experience*
- *Mind complementing and competing issues*
- *Contribute to a positive narrative*

Opportunity Zone Mapper (Beta Version)

OZ Mapper
Beta Version released January 2021

Legend Layers Basemap gallery Measure Details Share Print

Layers

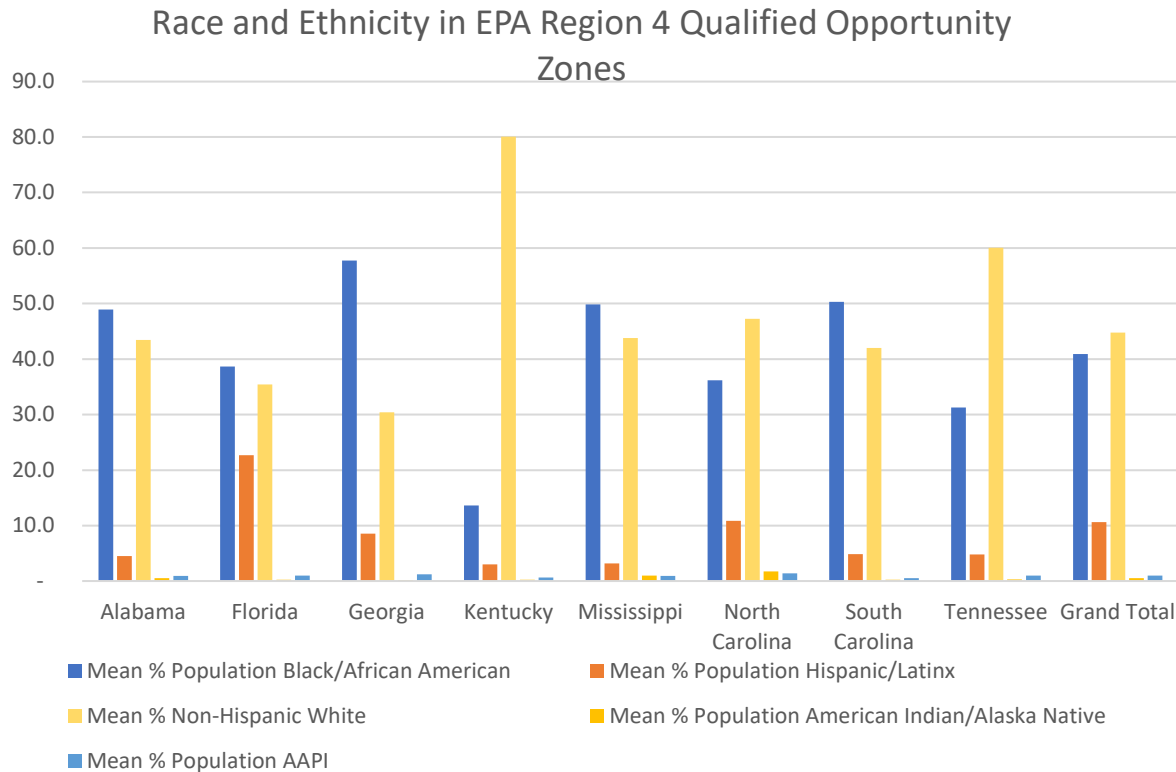
- EPA-Enhanced Qualified Opportunity Zones
- EPA | ACRES Brownfield Sites
- EPA | SEMS Superfund Sites
- EPA | Underground Storage Tank Facilities
- EPA | Air Quality Non-attainment: Lead (2008 Std)
- EPA | Air Quality Non-attainment: CO (1971 Std)
- EPA | Air Quality Non-attainment: NO2 (1971 Std)
- EPA | Air Quality Non-attainment: Ozone 8-hr (2015 Std)

North Pacific Ocean

0 300 600mi

POWERED BY **esri** Esri, Garmin, FAO, NOAA, EPA | Esri, Garmin, FAO, NOAA, EPA

Who lives in Opportunity Zones in EPA Region 4?



State	# of Qualified Opportunity Zone tracts	Population (ACS 2018)	Mean EJSSCREEN Demographic Index
Alabama	158	605,786	75.7
Florida	427	1,956,421	79.6
Georgia	260	1,022,732	85.3
Kentucky	144	556,583	56.4
Mississippi	100	442,086	75.5
North Carolina	252	1,124,946	73.1
South Carolina	135	536,868	76.7
Tennessee	176	701,293	67.1
Total	1652	6,946,715	75.3

OZ Mapper
Beta Version released January 2021

Legend Layers Basemap gallery Measure Details Share Print

Legend

- EPA-Enhanced Qualified Opportunity Zones
- EPA | ACRES Brownfield Sites
- USDA | Food Access
Low Income & Low Access at 1 and 10 miles
- Detailed Polygons
LI and LA at 1 and 10 miles 2015




(1 of 2)

EJSCREEN	98.6
Demographic Index	
EnviroAtlas Flood Overlap?	Y
EPA Nat Walkability Index	12.67
EPA Impaired Waters?	Y

Zoom to

Where does opportunity meet need and desire?

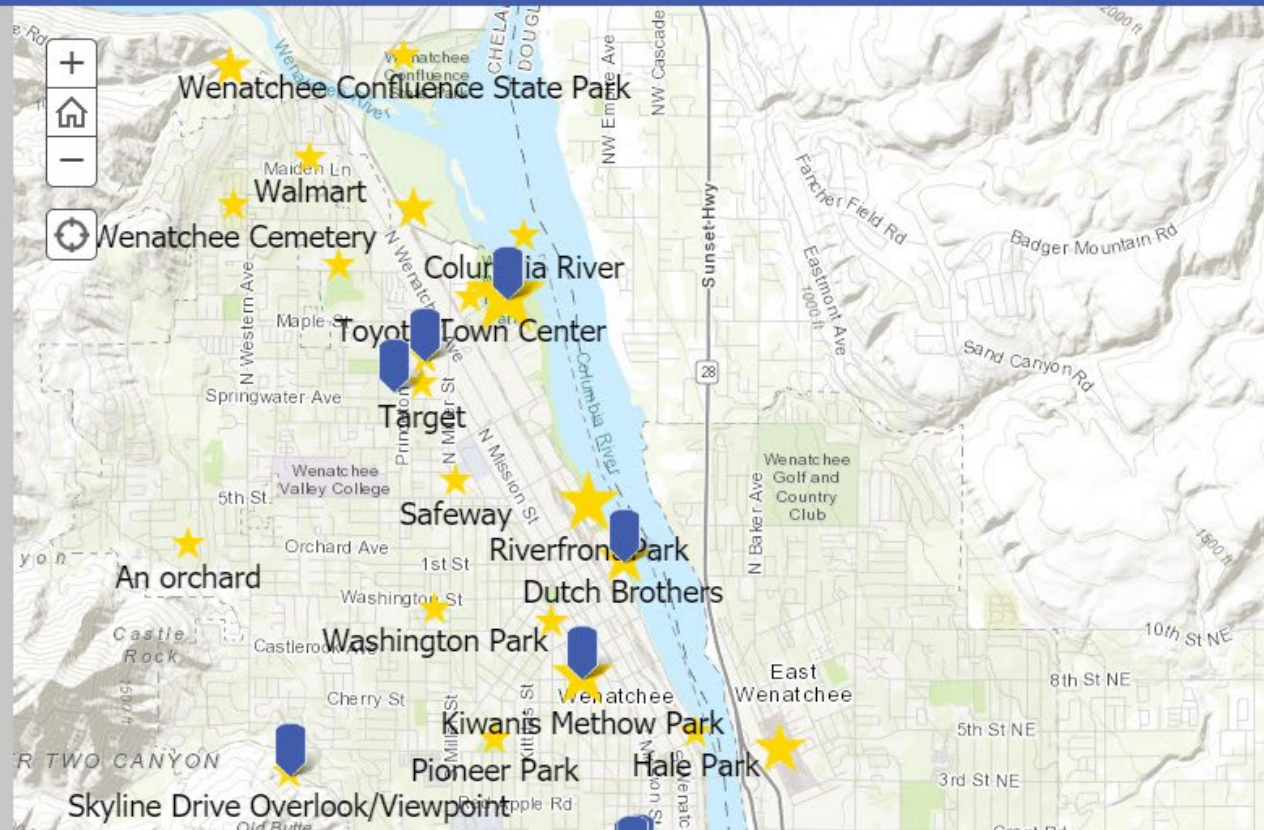
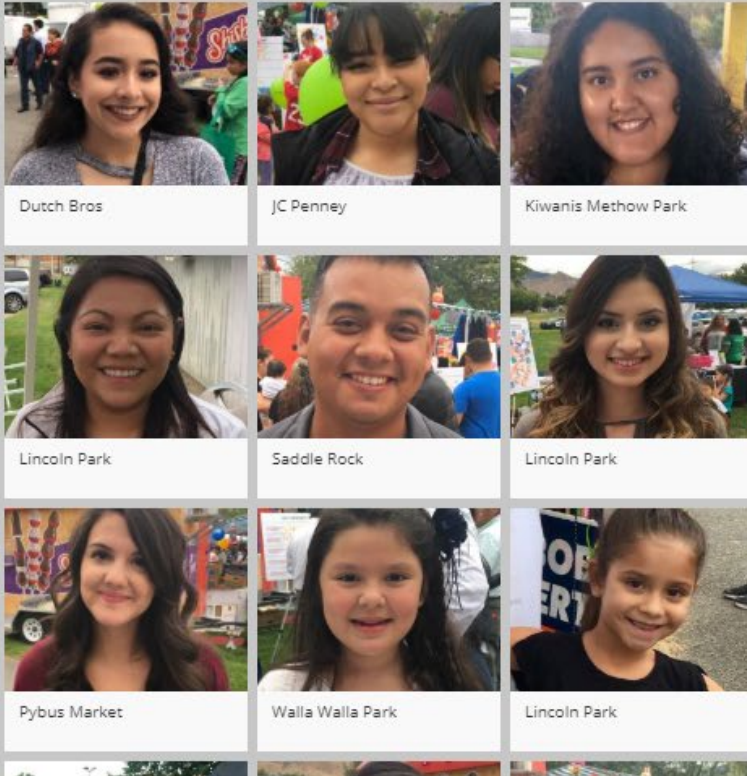
HP2 Wenatchee: Favorite Places from September 2018

Edit × A Story Map   

We asked "Where is your favorite place?" and "Cual es su lugar favorito?". Here is what you said:

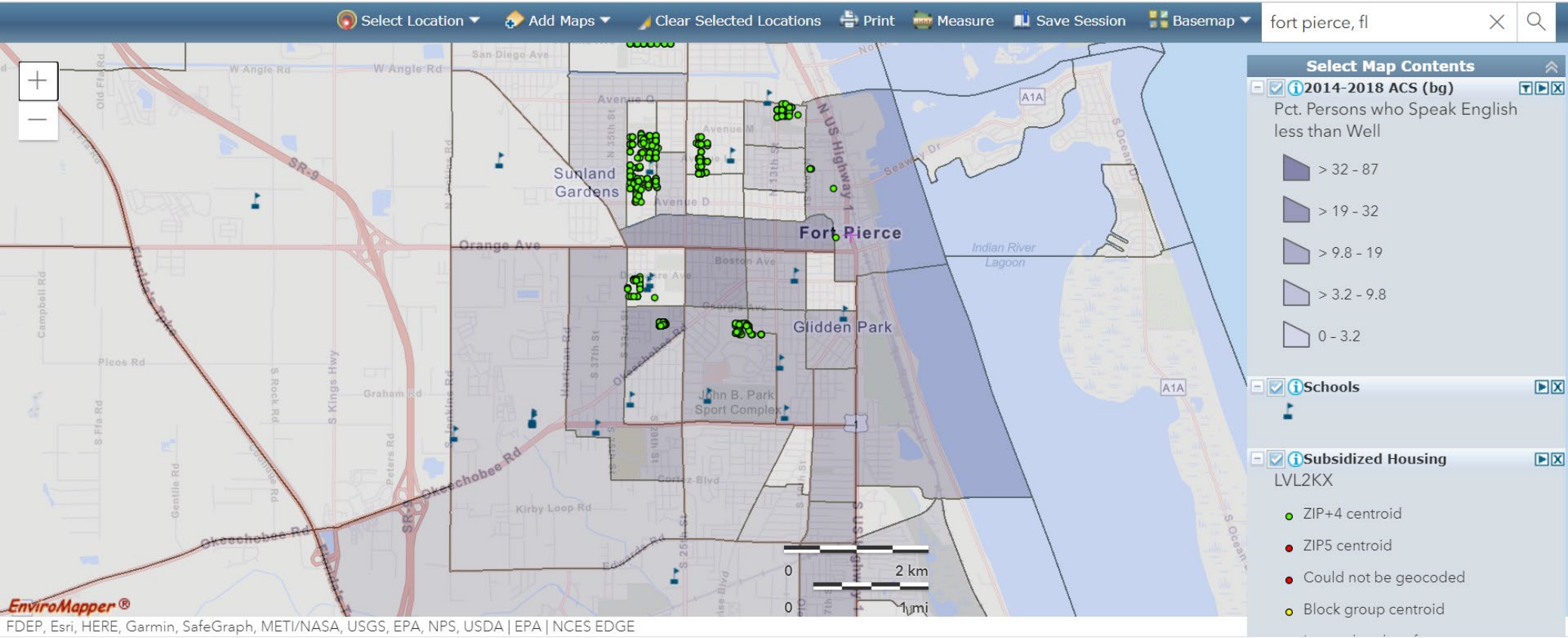
YOUNG PEOPLE

Cyclists



What parts of the community are treasured? By whom?

Who is at the table and who is not (yet)?

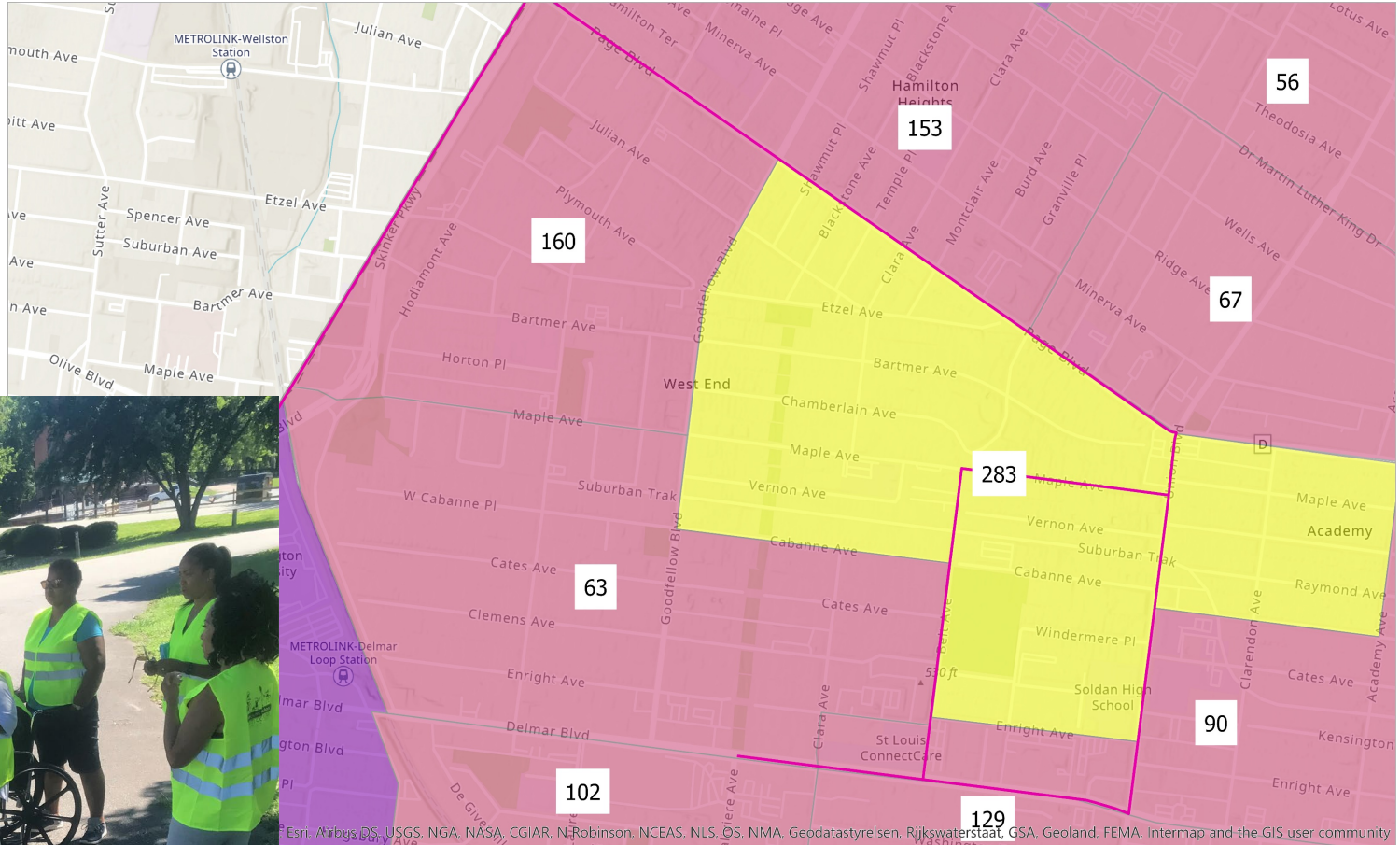




Where do community members want to do this work?



What's happening out there?



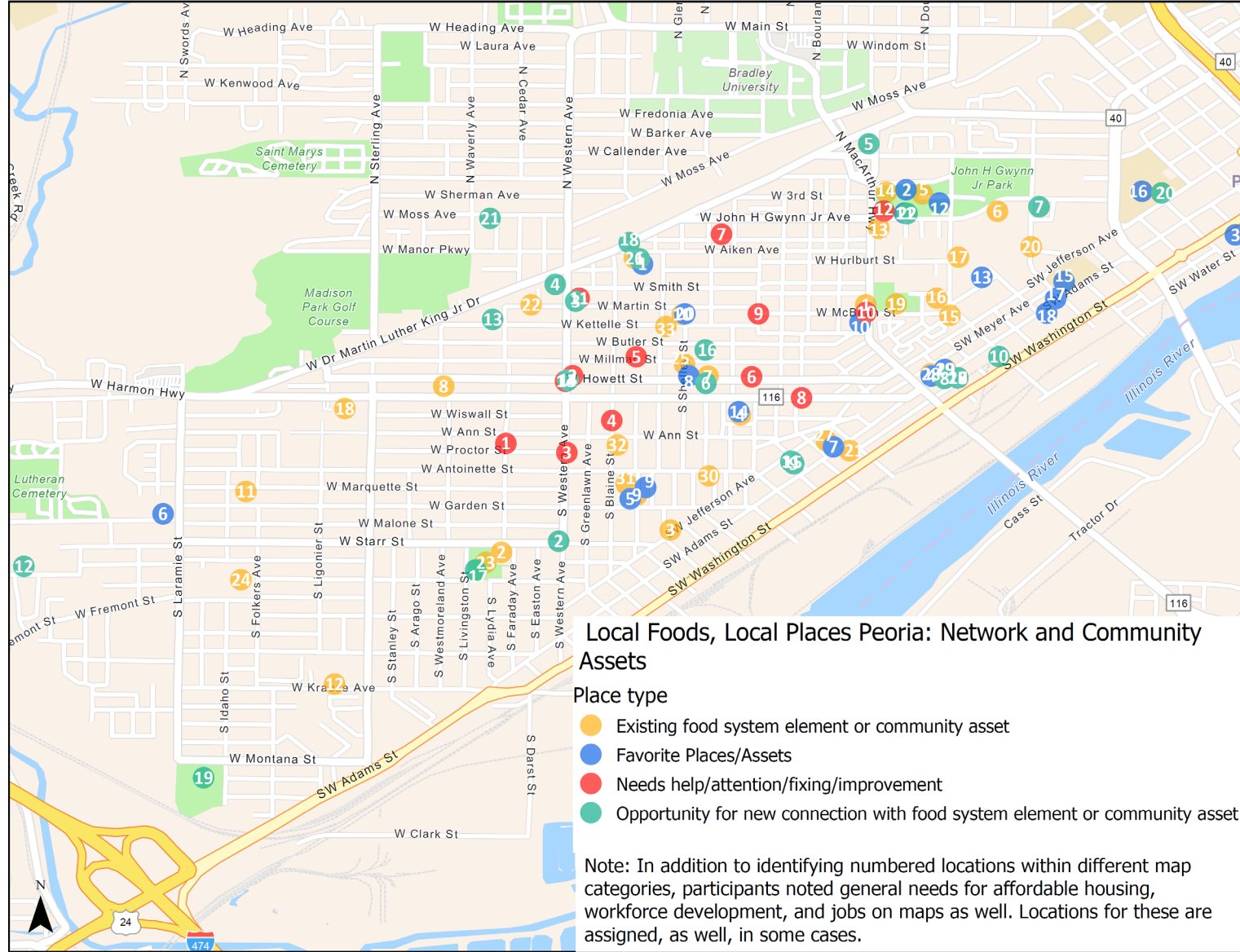
Changes in Monthly Housing Costs (ACS 2011-2016)
 Dollars (Labeled) and Percent
 EPA Building Blocks Equitable Development
 Decoding Displacement Working Session
 West End & Visitation Park

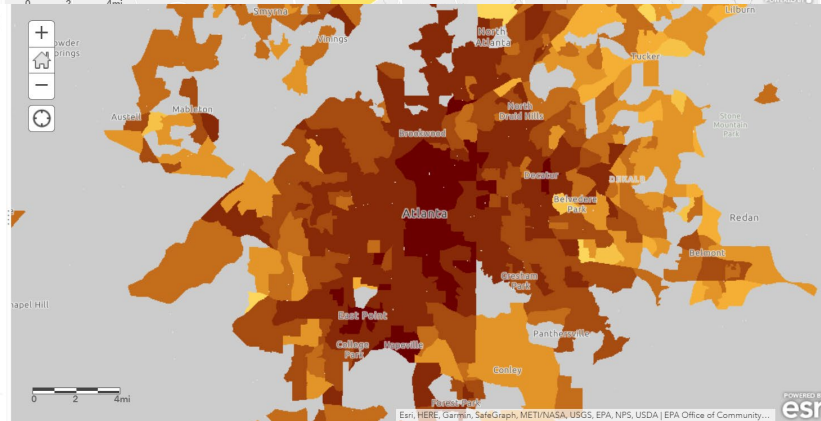
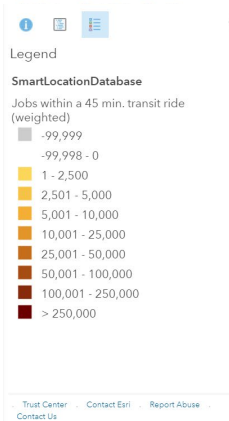
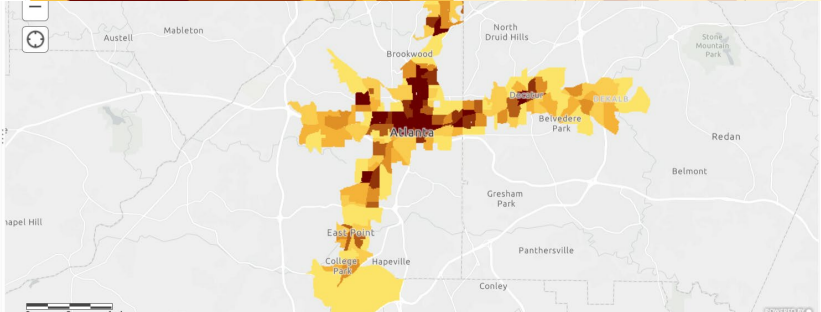
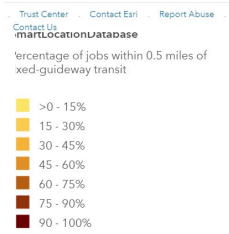
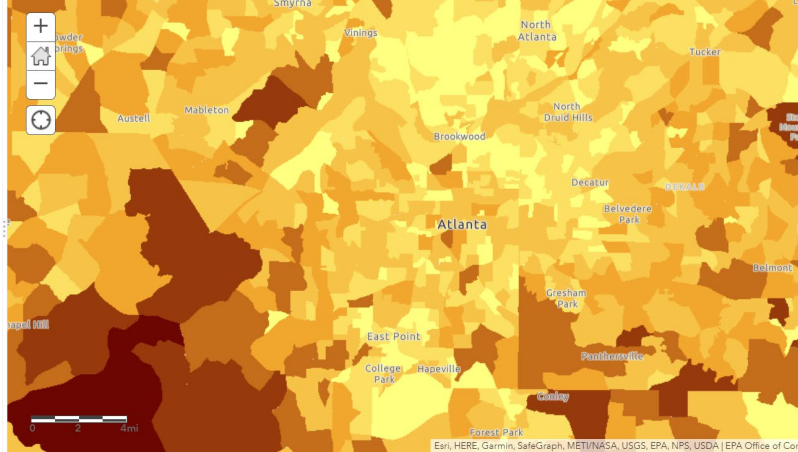
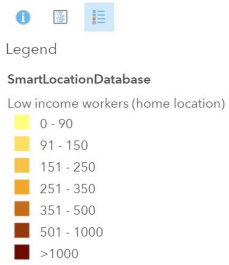
November 2020

Legend

- West End & Visitation Park
- Decreased up to 13%
- 1-9% (6% average)
- 10-31%
- 32-52%
- 53-74%

Who is making the community stronger?
Where are they?





Where can people find good salaries and employment?



What kind of action is needed and where?

Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, U.S. Environmental Protection Agency, Headquarters

Parcels by Year Last Built & Low Income Block Groups
 Number of Parcels = 2,037
 Source: City of St. Louis PUDA & EPA EJ SCREEN
 EPA Building Blocks Equitable Development
 Decoding Displacement Working Session
 West End & Visitation Park
 November 2020

Legend

- LastYearBuilt
- No building
 - Pre-1900
 - 1900-1940
 - 1941-1978
 - Post 1979

- Low Income
- Data Not Available
 - Less than 50%ile
 - 50-60%ile
 - 60-70%ile

- 70-80%ile
- 80-90%ile
- 90-95%ile
- 95-100%ile



Weldon Walk Audit | June 2019



Background

In 2018, Weldon was 1 of 6 communities across the United States selected to participate in the Healthy Places for Healthy People program. As a result, the Town of Weldon worked with several partners to create an action plan that includes creating walkable, safe, and a vibrant downtown to improve health, protect the environment, and support economic growth.

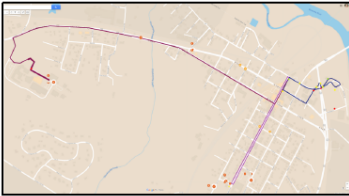
To work towards their goal, NC State's SNAP Education program, *Steps to Health*, organized a walk audit to assess the walkability of downtown Weldon in June 2019.

Over 30 individuals including community residents, business owners, and representatives from the Department of Public Health, Halifax Community College, the Town of Weldon, Partners in Faith, Department of Transportation, U.S. Department of Agriculture, and the U.S. Environmental Protection Agency participated in the walk audit.

Participants took 1 of 3 routes in the downtown area from Weldon Town Hall:

1. River Falls Park
2. Halifax Community College
3. Weldon Elementary Global Academy

Routes for Downtown Weldon Walk Audit



Results

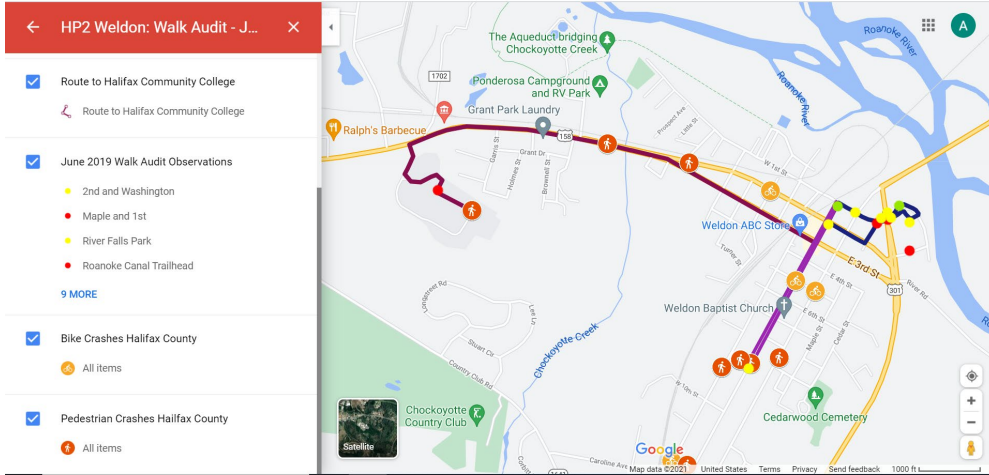


The average walk audit scores given by 33 individuals indicate that the routes around downtown Weldon **"need a lot of work"** to create safe walking conditions for Weldon residents and visitors.

Audit Area	Issues Identified
<p>Sidewalks: 88% of auditors found problems with the sidewalks</p>	<ul style="list-style-type: none"> Cracked/broken sidewalks Blocked by signs, poles, and overgrown vegetation No sidewalks, paths, or shoulders
<p>Road Crossings: 91% of auditors noted problems with road crossings</p>	<ul style="list-style-type: none"> No marked crosswalks and faded crosswalks No curb ramps and ramps in need of repair
<p>Walking Conditions: 91% of auditors noted unpleasant walking conditions</p>	<ul style="list-style-type: none"> Not well lit or no lighting Visually unappealing – dirty, lots of trash



Mapping Website: <https://www.google.com/maps/d/edit?mid=1y0gG9ONGuYogrzSSK3FNsKQkYJupNg&ll=35.993657674591674%2C-77.86250000000001&z=10>



Which maps can be used to act...now and in the future?

Thank you and Keep in Touch!

Alexis Rourk Reyes

(she, her, hers)

US Environmental Protection Agency

Office of Community Revitalization

Rourk.alexis@epa.gov

(202) 564-3179



Todd Reynolds is the Executive Director of Groundwork New Orleans. He has over 30 years of extensive experience in education, youth development & advocacy, project management, and design build construction. Todd has spent the majority of his career advocating for young people. He has a rock-solid commitment to educating and empowering youth from under-served communities throughout the country.

Todd has worked within the New Orleans community for the past 14 years. As Principal of the NET Charter High School, he played a major role in the expansion of the School's Network by helping guide the organization's development and implementation of three (3) satellite schools specifically designed to work with At-Risk and Out of School Youth in multiple locations of New Orleans.

As the Executive Director of Groundwork New Orleans, through a mixture of Community Based, Foundation, and Public-Private relationships he has greatly expanded the trusts operating budget, programs, capacity and public presence.

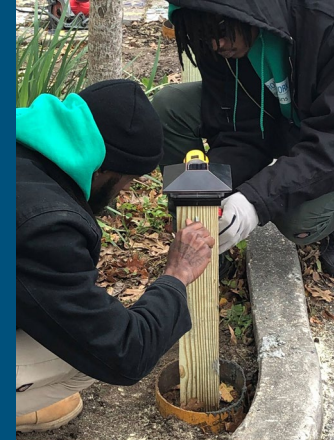
Todd holds a Masters of Science in Community Economic Development from the University of Southern New Hampshire and is certified in National Green Infrastructure (NGCIP), Center For Watershed Protection (CWP), Clean Water Certificate Trainer as well as Quality Control for Government Contractors through the United States Army Corps of Engineers. He is currently studying for the Louisiana State Horticulture license to further enhance Groundwork New Orleans Capacity.

Developing Equitable and Sustainable
Pathways for Communities to Access
Workforce Development



The Opportunity

A New Workforce Development Paradigm Invest, Train, Certify, Employ



Traditional Workforce Development

Traditional Workforce Development : 7-10 Week Program

Check Box Orientated Training

Increased amount of Graduates

Limited amount of Actual Job-Career Placements

“18-24 years of Disenfranchisement can not be solved in 10 weeks”

Non Traditional

Make Clear Long-Term Investments in People

2-3 Years Minimum

Diversify Opportunities

Create a clear pathway to employment

Build a Solid Employable Workforce

New Workforce Development Components

Soft Skills: Not Taught in the Classroom

Hands on Real Project Work: Actual Projects in the Field

Industry Recognized Credentials: NCCER, NGCIP, CWP

Recommended Certifications



National Green Infrastructure Certification Program-
NGCIP <https://ngicp.org/>



Center for Watershed Protection: Clean Water
Certificate Program - CWP CWC <https://www.cwp.org/>



National Center for Construction Education & Research:
NCCER

Community Access To Workforce Development

Who: Nonprofit Community Organizations, Municipalities City and State, Local Workforce Development Programs

What: Green Infrastructure

Why:

4. Create an economic network for the green infrastructure sector. A network of trainers, employers, city officials, and support service providers focused around green infrastructure would provide opportunities for synergies and collaboration, increase matching across training providers and employers, and increase efficiency and problem solving. A network would allow for better collaboration between training providers and greater transparency and accessibility to potential entrants to green infrastructure. Organizations like philanthropic foundations and economic intermediaries could be partners in collaborating and convening the network.

Thank you!





Questions? Comments?



Time for
a Break!!

5 Minutes!





Community Case Story Panel Discussion

- **Melissa McGee-Collier, Director**
- Office of Community Engagement
- Mississippi Department of Environmental Quality



Dannie Bolden and Patrick Barnes



Dannie E. Bolden is the managing partner of Bolden and Associates Consulting Services LLC, a minority and veteran-owned business, with offices in Port St. Joe, Florida and Columbus, Georgia. His company specializes in nonprofit startups, affordable housing construction and community redevelopment. He is a community organizer and committed advocate for poor and disenfranchised individuals and families.

In 2001, he and his family moved from Anchorage, Alaska, back home to North Port St. Joe, Florida, where both he and his wife were born and raised. He saw immediately the blighted, unsafe living conditions of a once-proud community. His depth of experience, surmounting the barriers of environmental and social justice, told him he had to act.

For the last 20 years, Dannie has engaged his skills and expertise to address head-on the struggle facing African Americans in North Port St. Joe. He understands the complex issues that negatively impact the lives of poor African Americans in neighborhoods that were once thriving. He believes strongly that no single solution, nor person, can solve the community's problems. His familiarity with the neighborhood of North Port St. Joe has been a considerable asset. As has his patience, tenacity, and his ability to reach outside his community to bring to it much needed resources. It is these attributes that have attracted exceptional business associates; collaborative partners that are subject-matter experts, and most of all; residents that are engaged, committed and intent to bring about positive change in their community.



Revitalizing our
community

North Port St. Joe, Florida



North Port St. Joe



Finding of Necessity Study Report (Findings Report) November 2008

Subsidence, toxic waste and the
ATSDR Study.
Finding of Necessity study report
- Declares NPSJ a *blighted
neighborhood*.
The 2009 North Port St. Joe
Master Plan written & shelved by
the Community Redevelopment
Agency

After the paper
mill

Port St. Joe Redevelopment Area





Enough is enough

Redeveloping North Port St. Joe implementing the community's plan



North Port St. Joe
P.A.C
project area committee



Updating the 2009
North Port St. Joe
Master Plan.

Creating a new
illustrated plan.

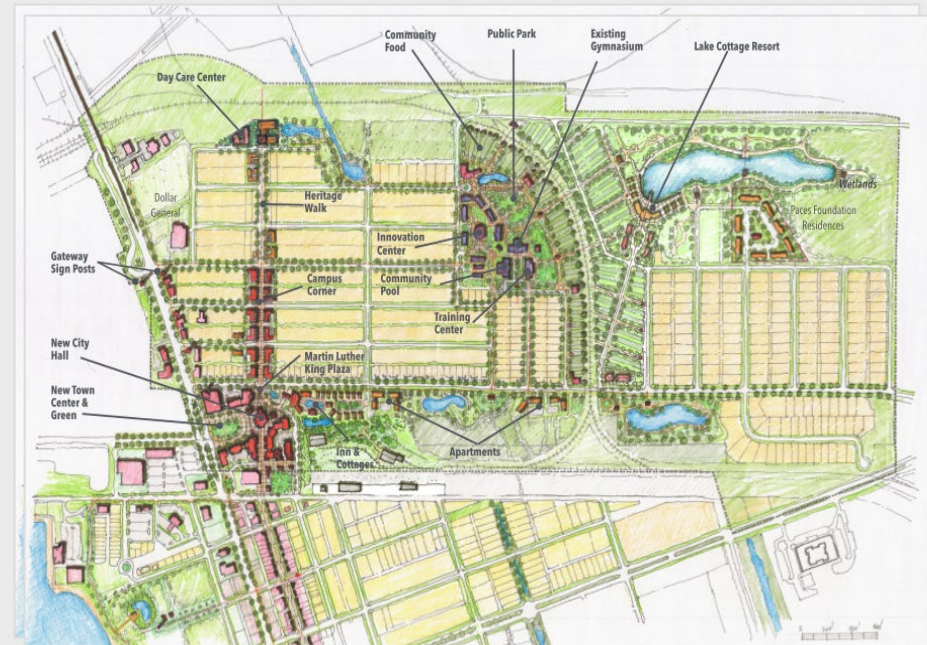
Paving the way for
redeveloping the
community.

December, 2016

REDEVELOPING NORTH PORT ST JOE: Implementing the community's plan 2016

North Port St. Joe
P.A.C
project area committee

The North Port St. Joe 2016 Conceptual Master Plan



An updated
community master
plan

Restoring Martin Luther King Boulevard



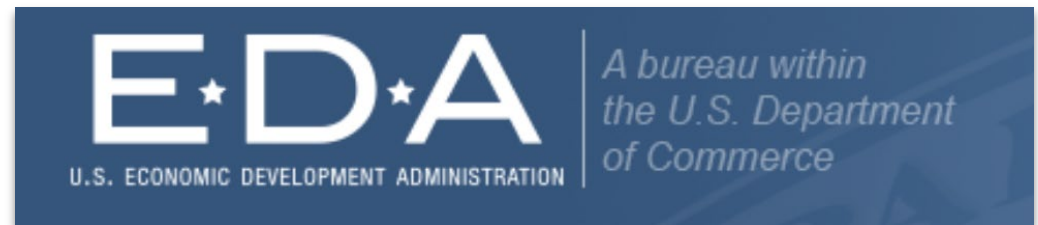


Creating a Community
Development
Corporation



FLORIDA **A&M** UNIVERSITY

FEMA and the U.S. Economic
Development agency
Florida A & M University
University of Florida
EPA's College of Underserved
Communities



Reaching out and
collaborating





Cheryl Steindorf



43m • 🌐

Thanks to the Crosby s the Farmacy got a facelift. So blessed to have our space ❤️



The CDC and food security during Covid-19





TAKE-AWAYS

- The community proved with its 2016 Master Plan that it can create successful bottom-up, grass-root initiatives.
- ‘Redevelopment without displacement’ has been integral to our work throughout the last five years.
- Growing confidence drove us to be among the ‘first responders’ to Hurricane Michael and COVID-19.
- Having an active 501(c)3 implementation arm is crucial to the community’s redevelopment.
- Reaching outside of the community became an increasingly important goal that over the last two years has been achieved.
- Each collaboration, starting with our County Health Department, has broadened our resources and potential sources of funding.



AVENUE D
PORT ST. JOE, FL

Jae Quail
2006

Thank you!



Patrick Barnes is the Environmental and Founder/Chairman of Limitless Vistas, Inc. He began his career in 1985 working for the Lamont-Doherty Earth Observatory of Columbia University as a Research Assistant in seismology, rock mechanics and borehole geophysics. His research focused on the hydro fracturing and characterizing tectonic stresses in abandoned oil wells in western New York State. In 1988 he joined Tibbett, Abbot McCarthy and Stratton (TAMS) a New York based Civil Engineering firm. He served as sample handler and a field technician for contamination assessment and remediation activities on several ground breaking Superfund sites in the New York/New Jersey area, including The Love Canal, BROS Lagoon, and International Flavors and Fragrances Plant. From 1988 until 1994 he was Project Manager/Department Head at Dyer, Riddle, Mills and Precourt (DRMP), a central Florida based Civil Engineering firm. While at DRMP he successfully manage the site assessment, environmental permitting and water supply development needs for numerous central Florida municipalities and in 1994 he parlayed his experiences into the establishment of Barnes, Ferland and Associates, Inc. (aka BFA Environmental) a multidiscipline environmental, utility engineering, surveying and hydrogeologic consulting firm. At it's peak BFA had over 150 employees in the southeast US, executing 25 million dollars in contracts. As President/CEO he was responsible for the overall management of business finances, operations, strategic planning, and client liaison, market development and community engagement. He has conducted numerous large-scale natural resource evaluations and managed contamination site assessment and cleanup projects in Tampa, Miami, Jacksonville, Orlando, New Orleans and Birmingham. Mr. Barnes has served as an EPA advisor for Superfund cleanups such as the Warren County (North Carolina) PCB Landfill (the birthplace of the EJ movement), the Wingate Road Landfill in Fort Lauderdale, and the Coronet Site in Plant City. He also functioned as the small and minority business utilization coordinator for several multi-million, construction projects.

- In 2006 after completing a major US Army Corps of Engineers/FEMA debris removal management contract for the Hurricane Katrina/Rita impact zone, he provided \$300,000 seed capital to establish Limitless Vistas, a non-profit organization dedicated to training at-risk young adults as environmental field technicians. Limitless Vistas, Inc. (LVI), which is based in New Orleans, is now also a 21st Century Conservation and Service Corps and very active with the national environmental conservation movement. Through the years working with grants from the Environment Protection Agency, Department of Energy, Department of Labor, National Park Service, Corps Network, Oxfam America, The Nature Conservancy, NOAA, The Kellogg Foundation, City of New Orleans, LVI has trained and certified over 600 young adults in the southeast as environmental field technicians. Mr. Barnes is a 2013 recipient of the "White House Champion of Change" award for his effort to build environmental resiliency in communities of need.
- BFA currently has 30 Scientists, Engineers, Surveyors and administrators and annual average revenues of approximately 4.0 MM. The majority of BFA's work is in Florida through continuing environmental engineering, land surveying, solid waste and scientific consulting services contracts. He has severed as board Chairman and advisor to, LVI since its founding in 2006 and has also served on many other boards/councils including the Corps Network, Central Florida NSBE Alumni Extension, Florida Association of Professional Geologists he served 4 years (2014-2018) on the National Academy of Sciences Gulf Research Program (GRP) advisory board and currently serves on the GRPs Offshore Situation Room (OSR) Committee focused on learning from the BP disaster and identifying what can be done differently to help minimize a similar future event.

A glass globe of the Earth is the central focus, resting on a bed of moss and ferns. The globe is transparent, showing the continents and oceans, and is surrounded by lush greenery. The background is a soft-focus forest with sunlight filtering through the trees, creating a warm, natural atmosphere.

BFA Environmental Consultants
Barnes, Ferland and Associates, Inc.



BFA - Largest African-American owned Environmental Engineering, Scientific Consulting and Land Surveying firm based in Florida with offices in Louisiana and Alabama

“We pride ourselves on providing exceptional service for clients in a manner that truly uplifts the communities we serve”

BFA Environmental Consultants
Barnes, Ferland and Associates, Inc.

BFA Environmental Consultants

Barnes, Ferland and Associates, Inc.

AWARD-WINNING ENVIRONMENTAL ENGINEERING EXPERTS

BFA is an environmental engineering and hydrogeological consulting firm, established in 1994 located in Orlando, Florida with satellite offices in Miami, Florida, New Orleans, Louisiana and Birmingham, Alabama. BFA Environmental Consultants believes in developing close relationships with the entire community. Right from the start, we create an open network of communication among our team, clients, and the community.



**WATER AND WASTEWATER
INFRASTRUCTURE**

**NATURE RESOURCE EVALUATION
AND MANAGEMENT**

**SOLID & HAZARDOUS
WASTE MANAGEMENT**

**BROWNFIELD REDEVELOPMENT
SUPPORT**

**HYDROGEOLOGICAL
SERVICES**

**SURVEY AND
MAPPING**

**CONTAMINATION ASSESSMENT
AND REMEDIATION**

**WORKFORCE DEVELOPMENT
AND JOB TRAINING**

COMPREHENSIVE ENVIRONMENTAL SERVICES EXPERTS



ENGINEERING SERVICES BUSINESS
GEOLOGICAL SERVICES BUSINESS
LAND SURVEYING SERVICES BUSINESS
SMALL BUSINESS ADMINISTRATION 8(A) GRADUATE
MINORITY BUSINESS ENTERPRISE (MBE)
DISADVANTAGE BUSINESS ENTERPRISE (DBE)
SMALL DISADVANTAGED BUSINESS ENTERPRISE (SDBE)

Champions of Change

WINNING *the* FUTURE ACROSS AMERICA



In April 2013, Patrick Barnes was recognized by the White House as a “Champion of Change” for his work to bring environmental resiliency to at-risk communities through job training.

BFA Environmental Consultants
Barnes, Ferland and Associates, Inc.

A glass globe reflecting a forest scene, resting on a bed of moss and ferns in a sunlit forest. The globe is the central focus, showing a reflection of the surrounding greenery. The background is a soft-focus forest with sunlight filtering through the trees, creating a warm, natural atmosphere.

BFA Environmental Consultants
Barnes, Ferland and Associates, Inc.

FOR THE COMMUNITY



ENVIRONMENTAL &
LIMITLESS VISTAS, INC.
CONSERVATION CORPS

LVI is a 501(c)(3) non-profit organization devoted to **creating opportunities for disconnected** young adults.

We provide *free* environmental conservation, **workforce development** and **job training**. LVI has trained over 600 young adults as Environmental Field Technicians since 2006.



LVI was founded in 2006 by Patrick Barnes, President of BFA Environmental Consultants, with the premise

“The **greatest opportunity** coincides with the **greatest need**.”

