Presenting our new resident engagement series...

oices of Home

Bridging Communities for Affordable Housing



March 16, 2024

9:30am-12:30pm

3250 sw 3rd ave, Miami, Fl 33129



FOR ALL



*FILL OUT OUR
SURVEY FOR THIS
SESSION'S TOPIC,
HOUSING &
CLIMATE, AS IT
RELATES TO YOUR
EXPERIENCE.



At our core, Miami Homes For All is a champion for low-income and no-income residents across Miami-Dade County who struggle to find a safe AND affordable place to live. MHFA brings the right information and people to the table in order to affect sustainable housing policies.

We aim to improve the housing ecosystem so that it produces more affordable housing, preserves that which we have, and increases marginalized residents' access to that housing.

Follow us for updates <u>@miamihomes4all</u> on IG, X, FB, YouTube, & TikTok! If you'd like to sign up for our newsletter, email daniela@miamihomesforall.org

<u>Menti Ice Breaker</u>





Presentations by

DESITNI SMITHDIRECTOR OF POPULAR EDUCATION AND GRASSROOTS
LEADERSHIP OF CATALYST MIAMI



JEN POSNER

DEPUTY EXECUTIVE DIRECTOR OF THE UNIVERSITY OF MIAMI'S CLIMATE RESILIENCE ACADEMY

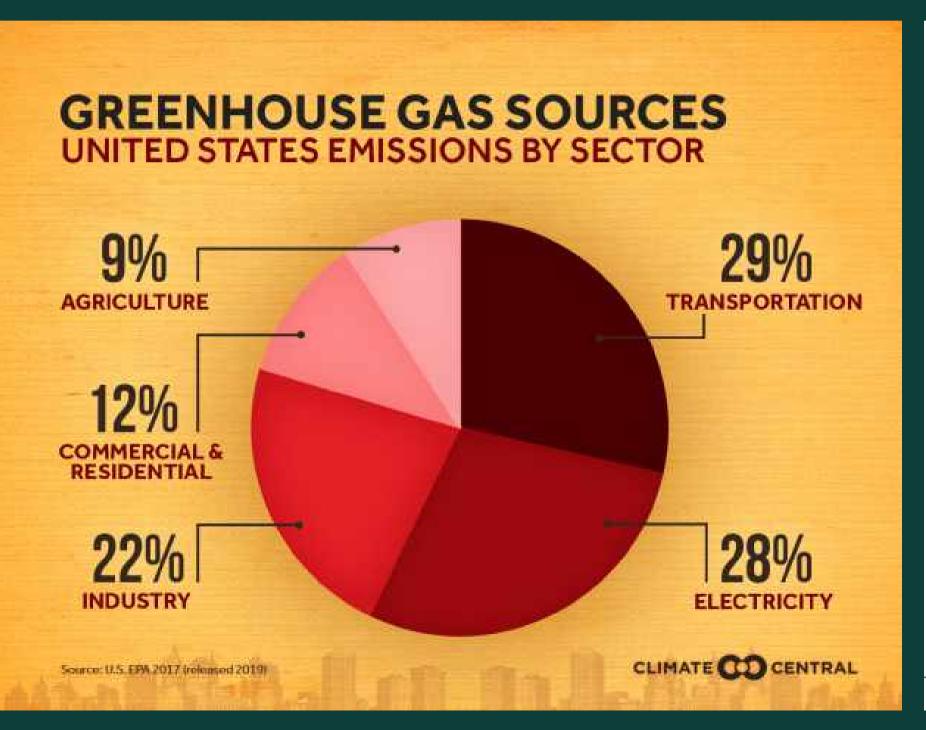


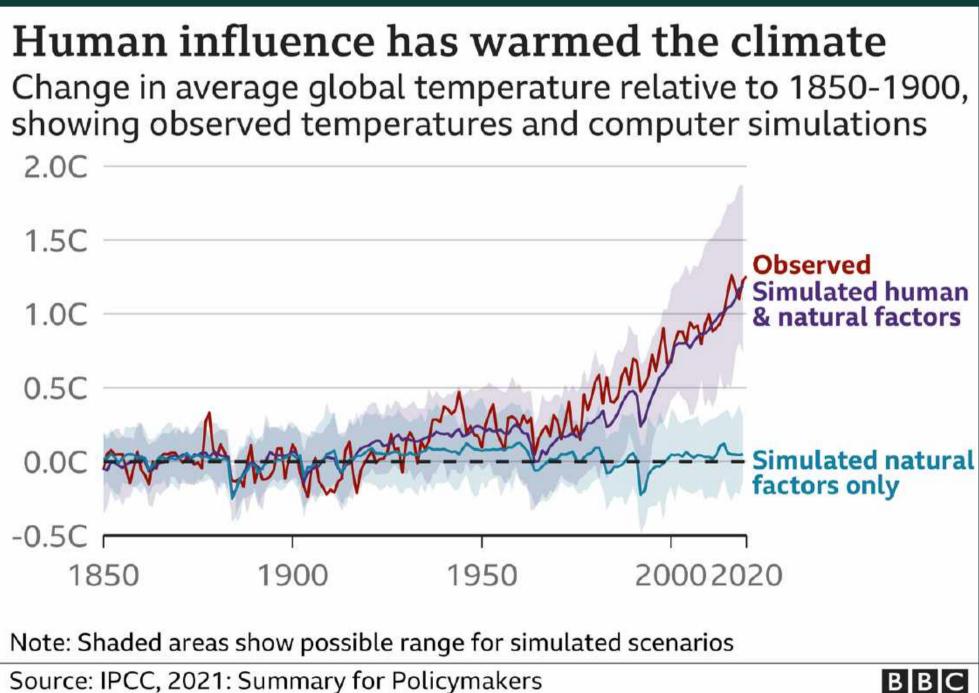
JASON GRANT, PH.D., CEM, DGCP, LEED AP, ENV SP SENIOR ENERGY RESILIENCE PROGRAM MANAGER OF THE MIAMI-DADE COUNTY OFFICE OF RESILIENCE



Climate Change 101

Climate Change: long-term shift in global & local weather patterns primarily caused by carbon emissions & the greenhouse gas effect.





Climate Justice 101

Climate justice begins with recognizing key groups are differently affected by climate change.

Climate impacts can exacerbate inequitable social conditions.







In Florida, which was hit by Hurricane Irma in September, many residents have accused their local representatives of environmental racism for predominantly using poor and minority neighborhoods as trash sites for the more than 3 million cubic yards of hurricane debris, WLRN is reporting.



FORT MYERS, Fla. — Unlike the affluent seaside communities of Sanibel Island and Fort Myers Beach, where the media has descended to chronicle every detail of the aftermath of Hurricane Ian, the people who live in the squat homes in Dunbar have faced the crisis mostly on their own.

And for many in the historically African American neighborhood, there's a sense of anger and frustration. "They're saying the islands got destroyed," observes 24-year-old Lexxus Cherry. "Well, we're destroyed, too. We're really messed up here."

There's no electricity. Water comes out of the faucet, but it's little more than a thin brownish stream, unsafe to drink. A faint smell of sewage wafts up from the street.

When people here call the power and water authorities, they get only vague assurances. No promises, and no timeframes.

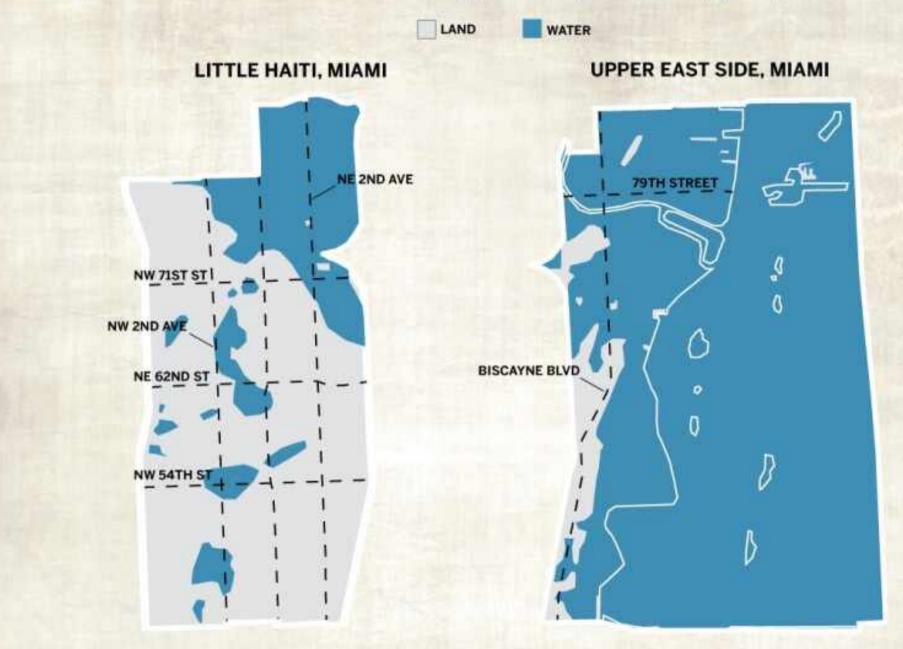
Climate Gentrification

Due to the threats and impacts of climate change, residents, developers, corporations, gov't, and the like *must* consider developing and residing in more climate-resilient places.

Communities that were once considered poor investments become prime real estate for development due to cliamte change.

These neighborhoods see changes such as rising housing costs, "green revitalization", and shifts in the economy that result in the displacement of local residents with more affluent residents and businesses.

Projected Areas of Flooding During a Category 4 Hurricane

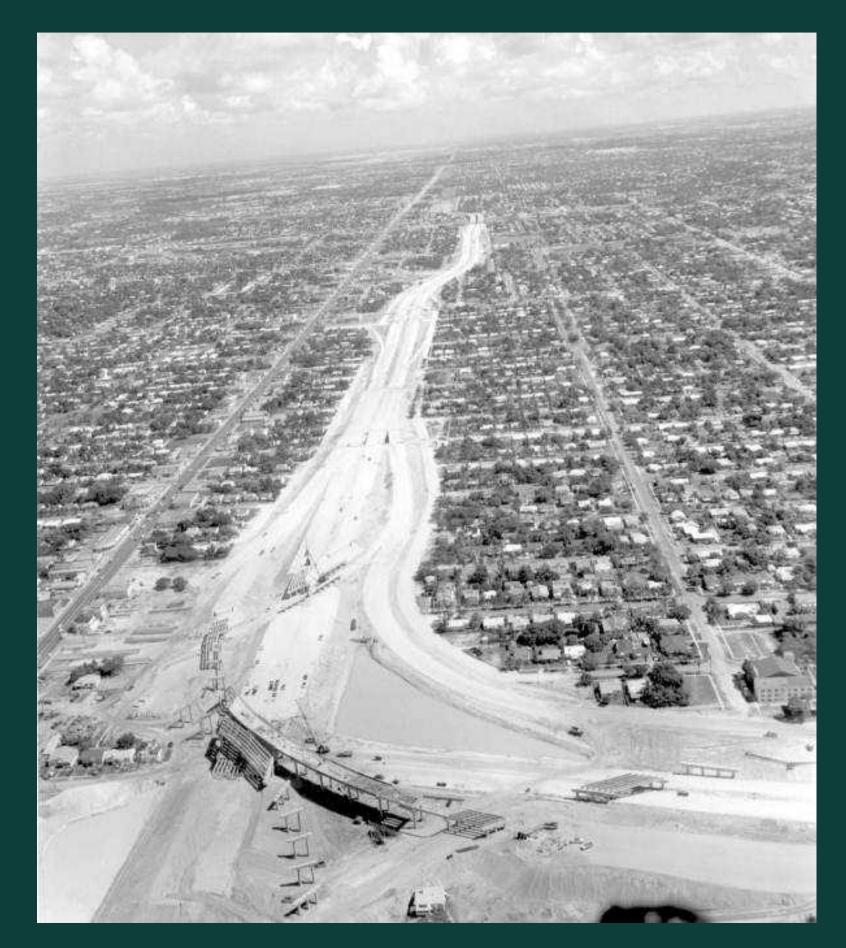


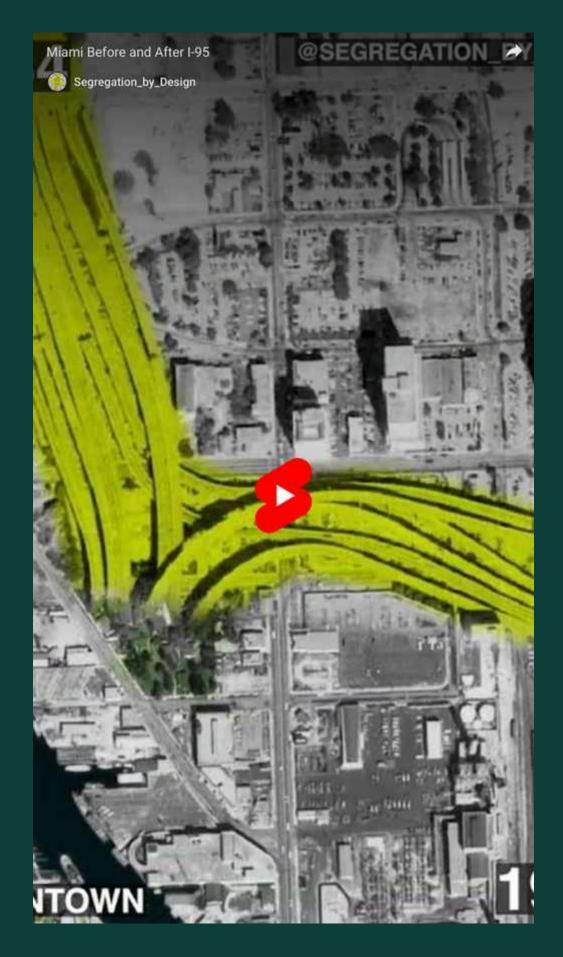
Rising costs are pushing more longtime residents out of Little Haiti. Some have seen their rent double or triple in a single year; many who own property have cashed in on their equity. Haitians are being displaced to neighboring communities like Homestead, North Miami, and Miami Lakes, unable to return because they're priced out of the market in Little Haiti. "They want to come back and purchase, but guess what, they can't afford it," Konsyan says.





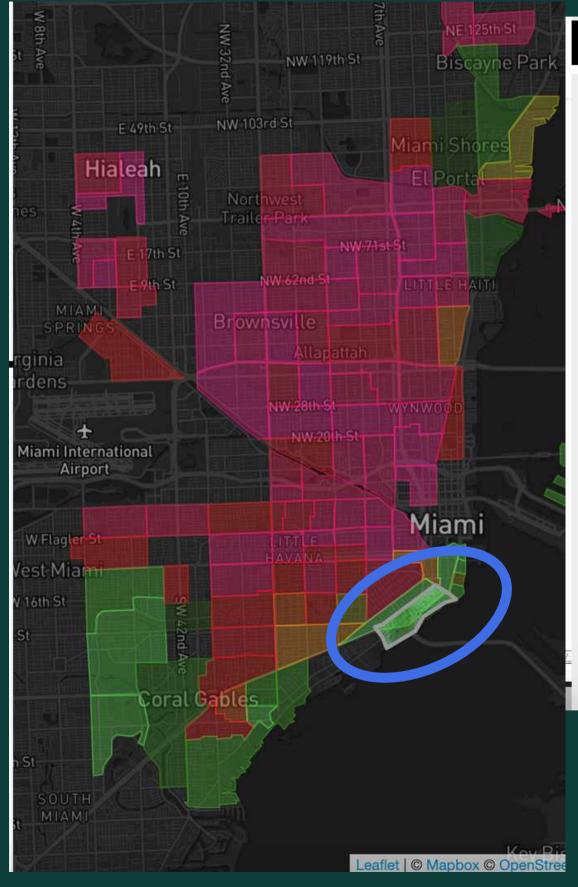
<u>History of Miami Neighborhoods</u>

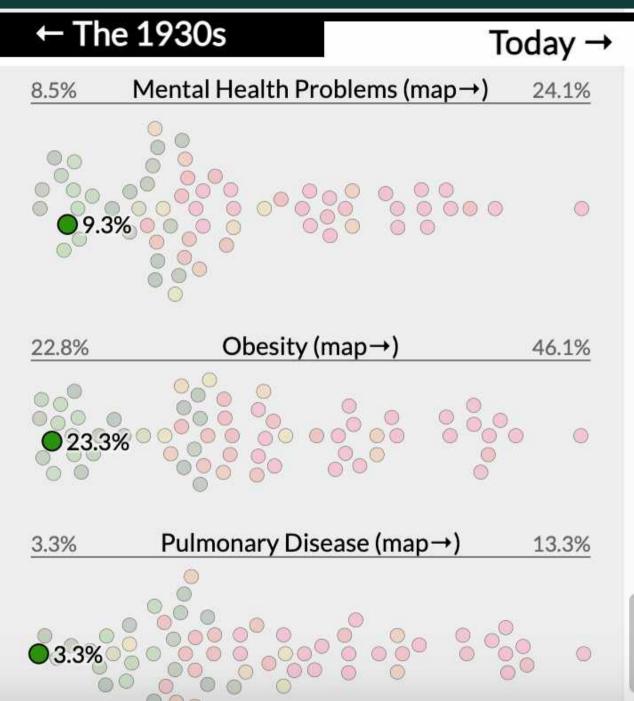




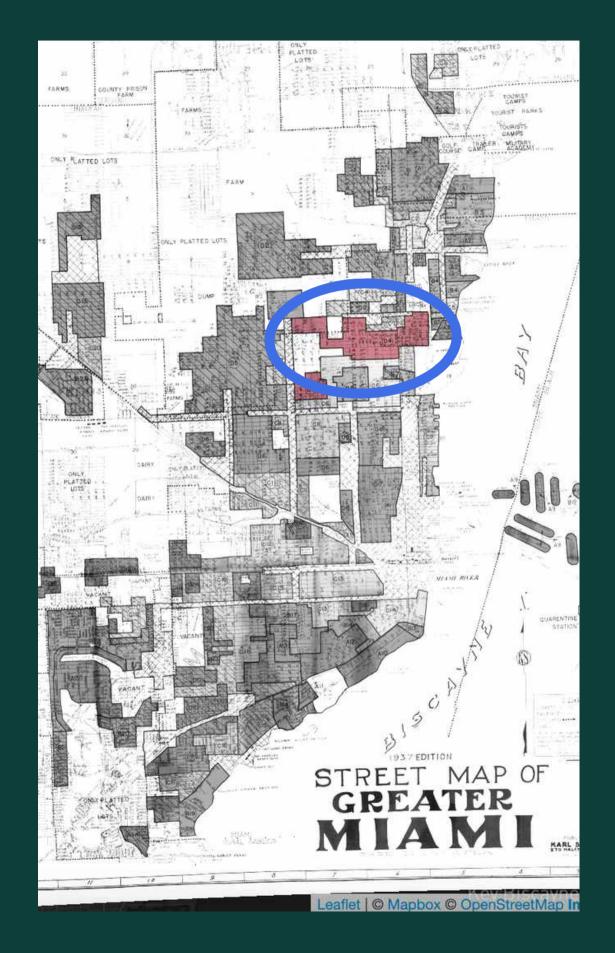
Redlining: Coconut Grove

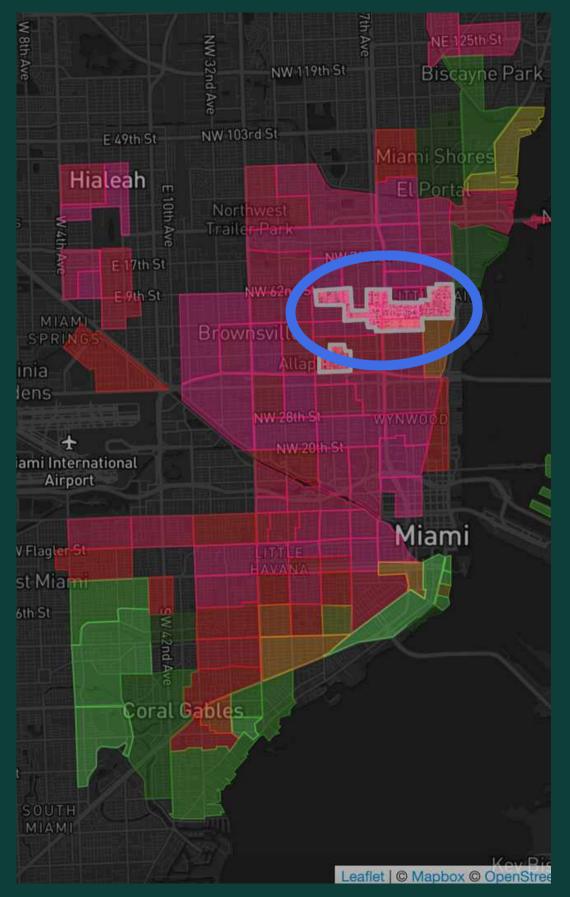


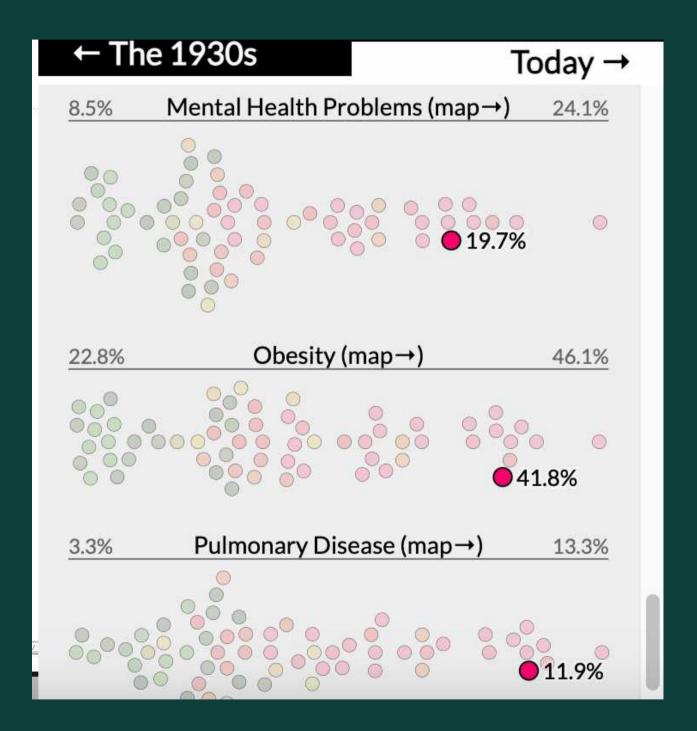




Redlining: Little Haiti









Our Goals



Promote economic revitalization while allowing current residents to remain in their homes and benefit from increased investment in their community.



Create an easy-to-use tool that saves users time and money by automatically compiling data from a wide range of sources

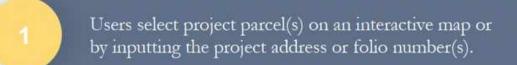


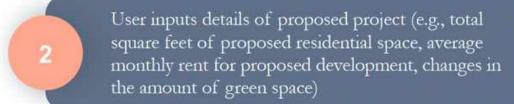
Equip decisionmakers with researchbacked information on the community so they can make informed choices about new developments.

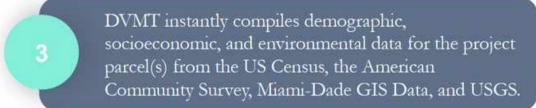
The "Epicenter"

Miami is in a state of hyper-development spurred by its reputation as a global tourist destination and pandemic-era relocation. But current development practices are causing massive displacement of longtime residents and creating one of the worst affordable housing crises in the country.

How it works:







DVMT calculates susceptibility to displacement through a statistical analysis of the data from Steps 2 and 3.

DVMT provides guidance on mitigation strategies to decrease risk of displacement based on vulnerability to displacement calculated in Step 4.

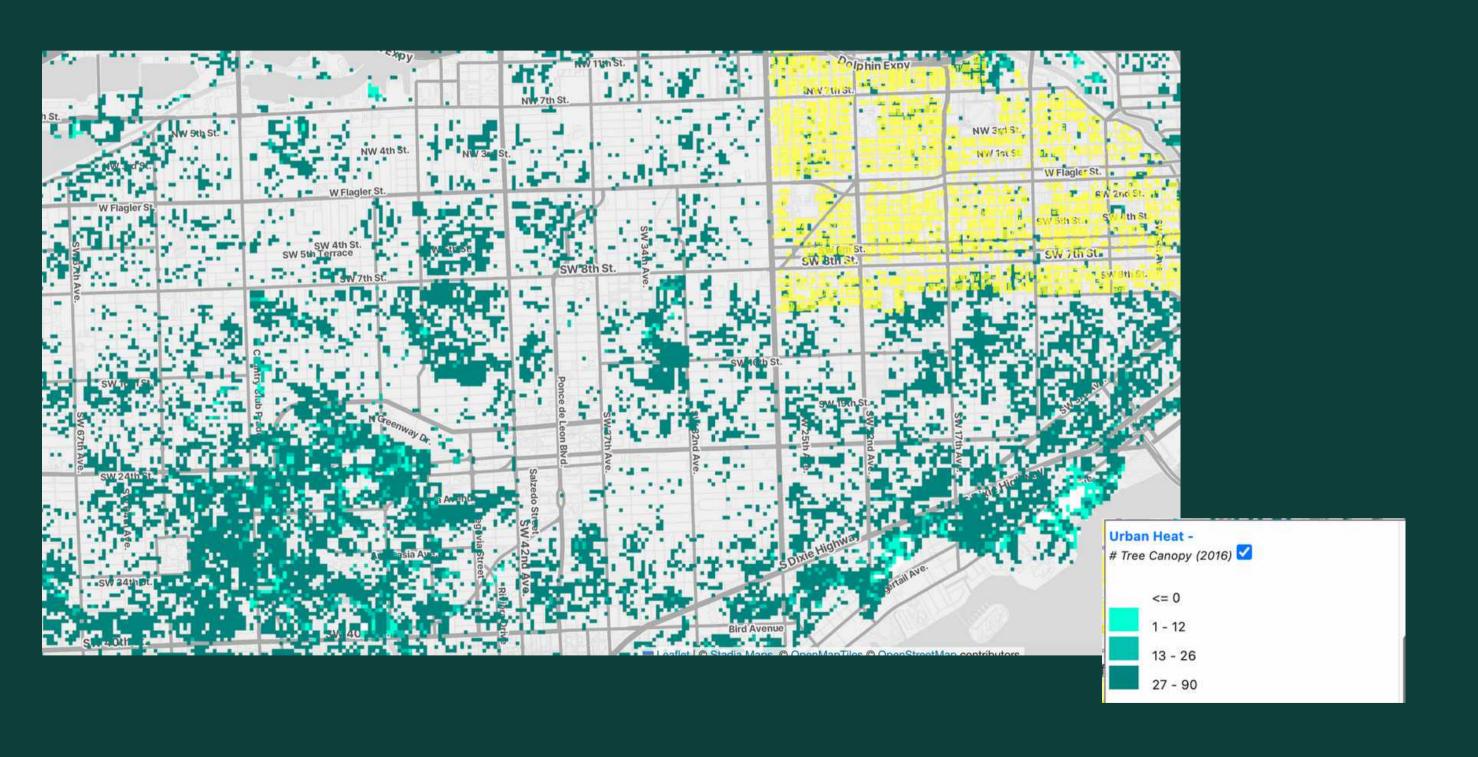
Ready to try the DVMT?

Scan the QR code to get started



Or visit us at https://dvmtdev.idsc.miami.edu/

<u>Miami Affordability Project - MAP</u>



OFFICE OF RESILIENCE REGULATORY AND ECONOMIC RESOURCES



miamidade.gov/resilience

Jason Grant, Ph.D

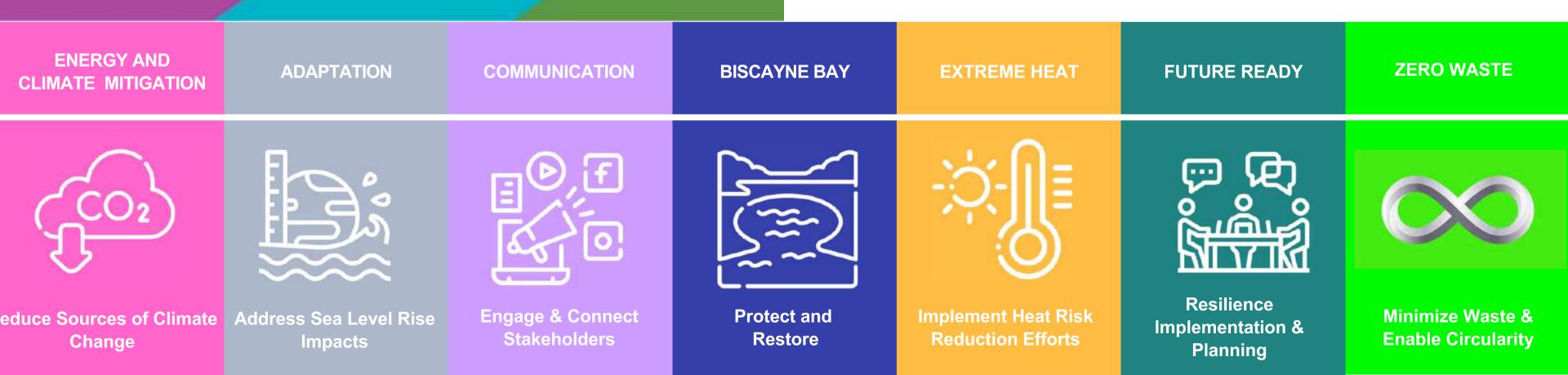
Senior Energy Resilience Program

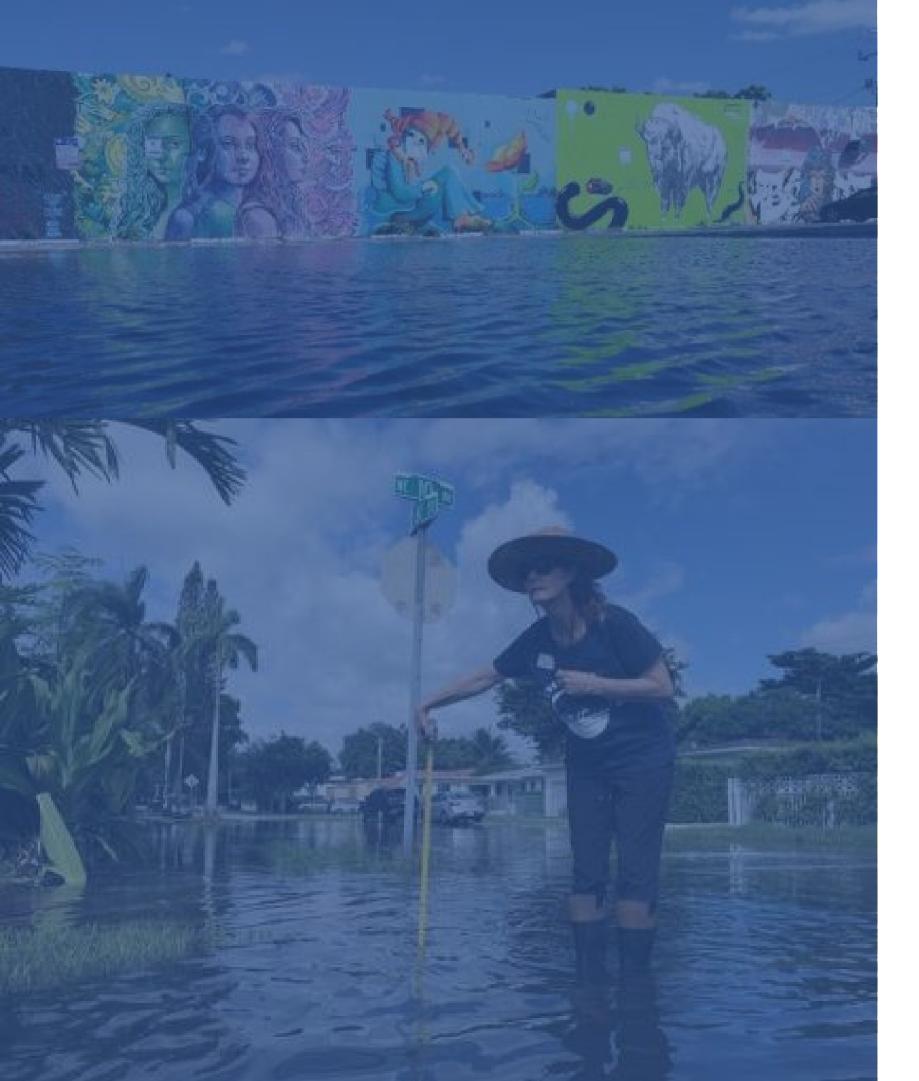
Manager

Miami-Dade County Office of Resilience

The Office of Resilience's mission is to lead Miami-Dade County to a resilient and sustainable future by identifying vulnerabilities, coordinating stake-holders, and facilitating innovative solutions.

Our office has continued to grow! Resilience touches many aspects of County operations





ADAPTATION

Sea Level Rise: Science, Requirements, & County's Strategy



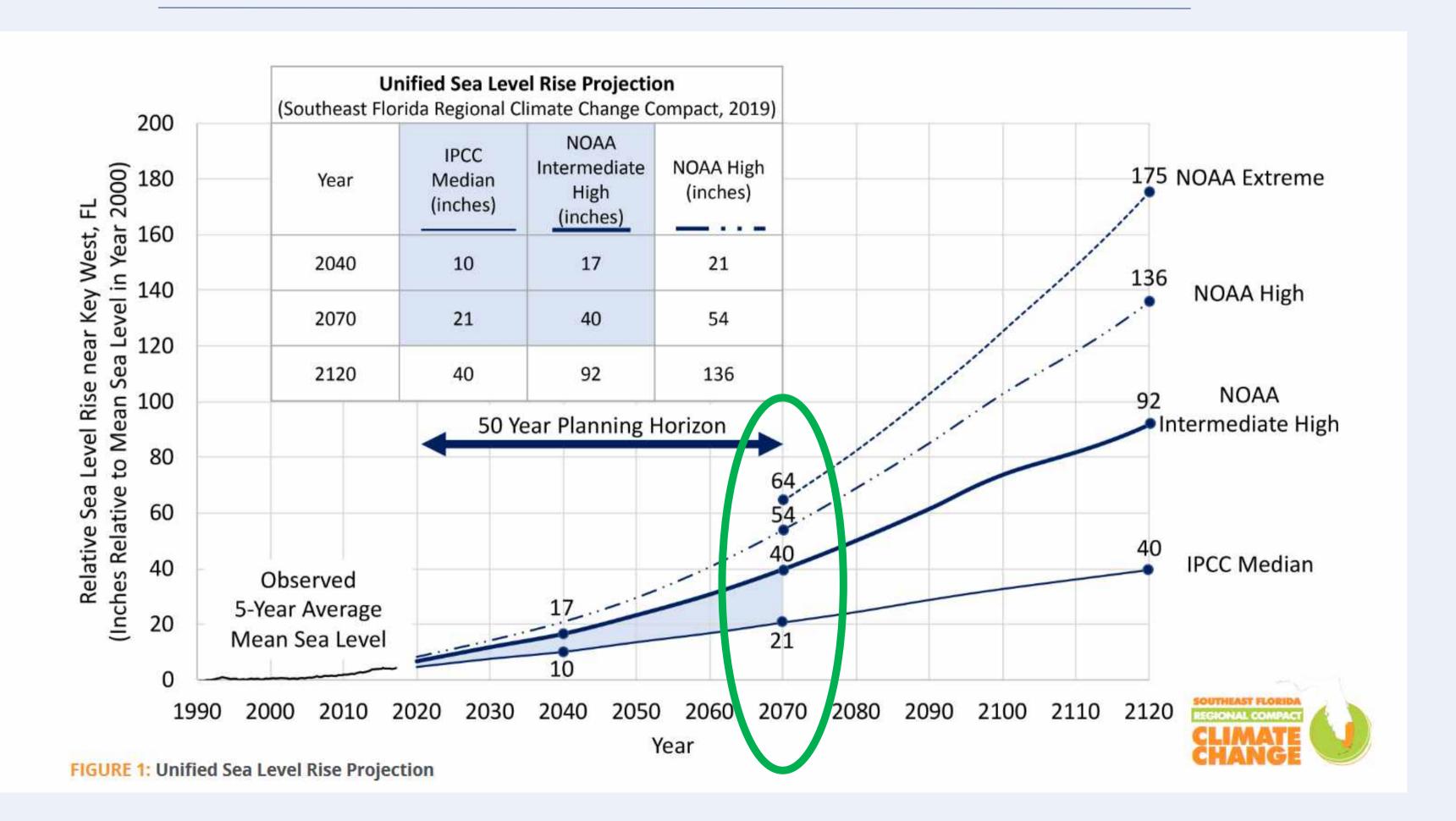
Sea level rise requirements

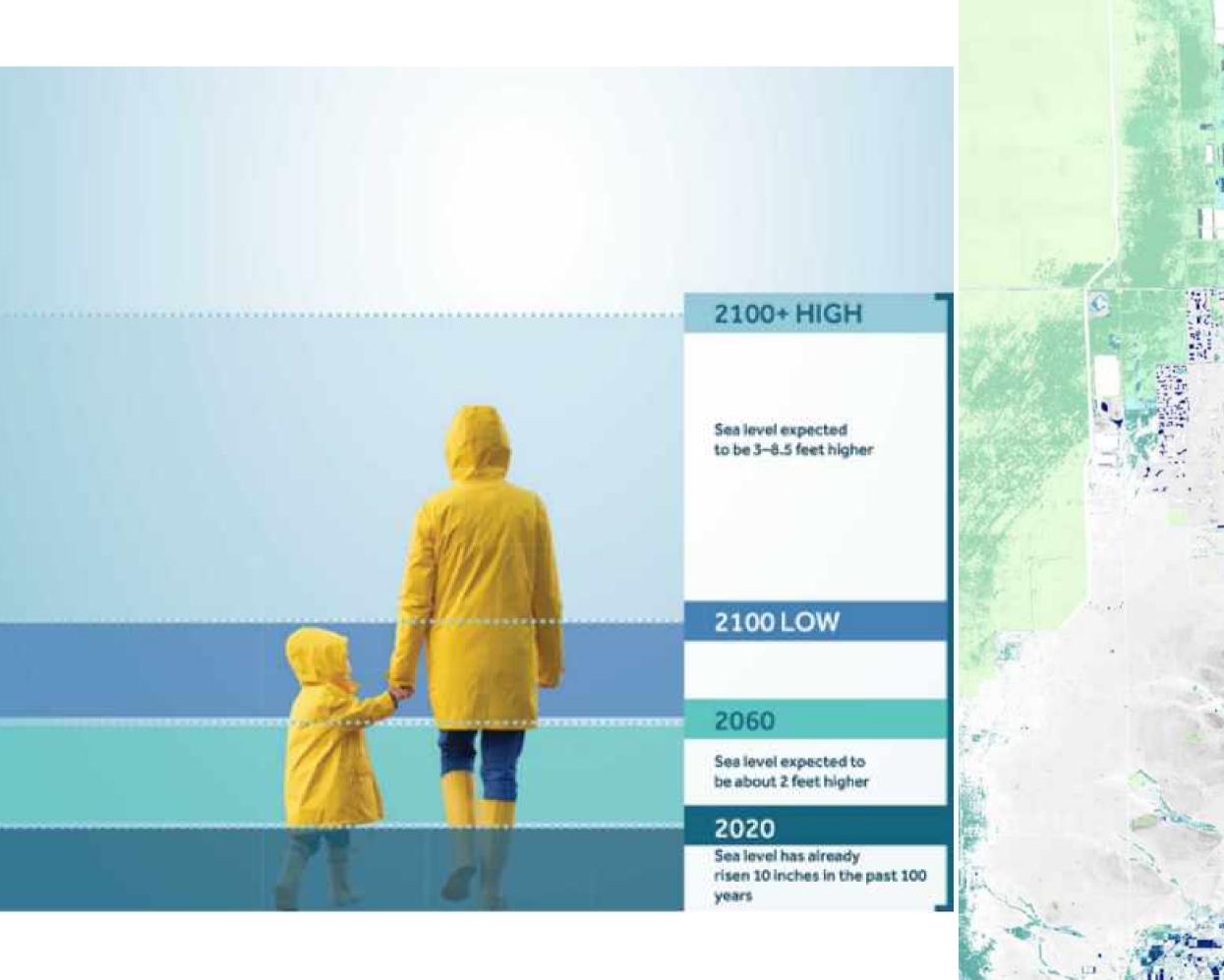
"all County infrastructure projects, ... shall consider sea level rise projections and potential impacts as best estimated at the time of the project, using the regionally consistent unified sea level rise projections, during all project phases including but not limited to planning, design, and construction, in order to ensure that infrastructure projects will function properly for fifty (50) years or the design life of the project, whichever is greater."

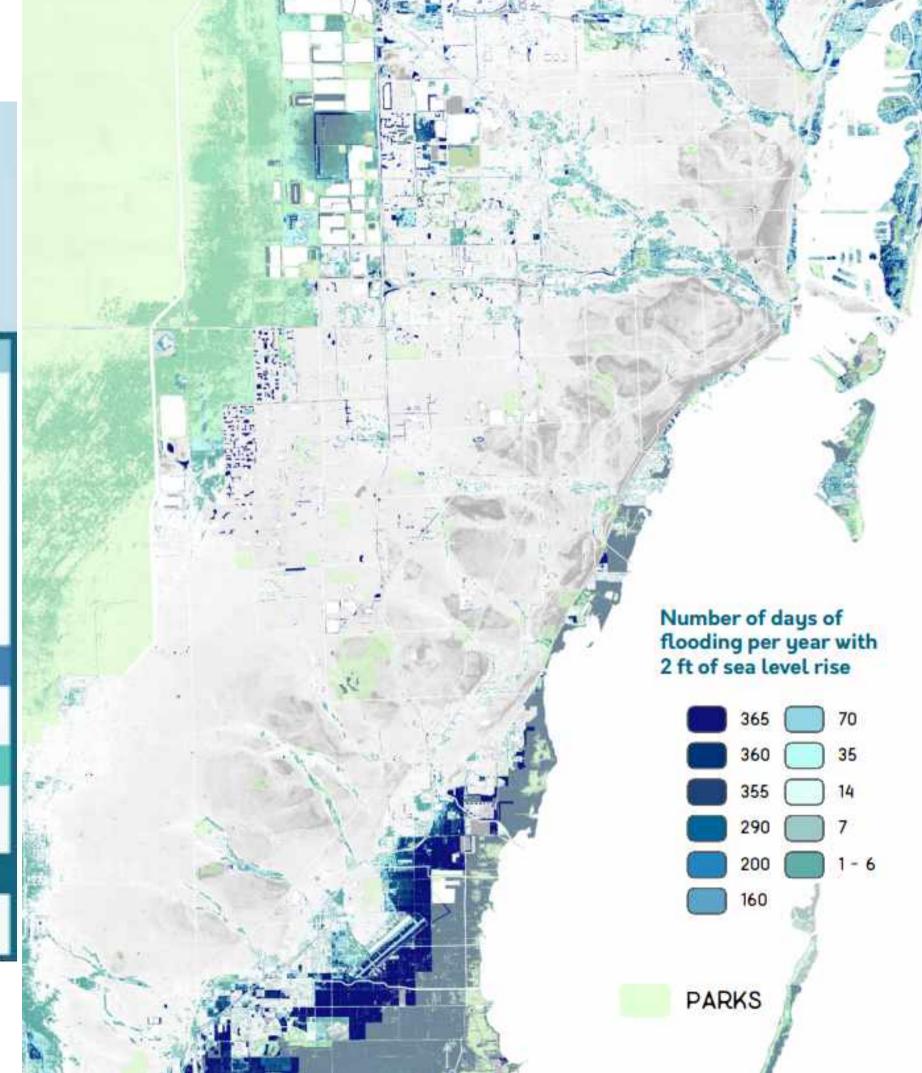
• In order to comply with <u>Resolution No. R-451-14</u>, <u>Ordinance No. 14-79</u>, and CDMP policy LU-13E

regional unified sea level rise projections

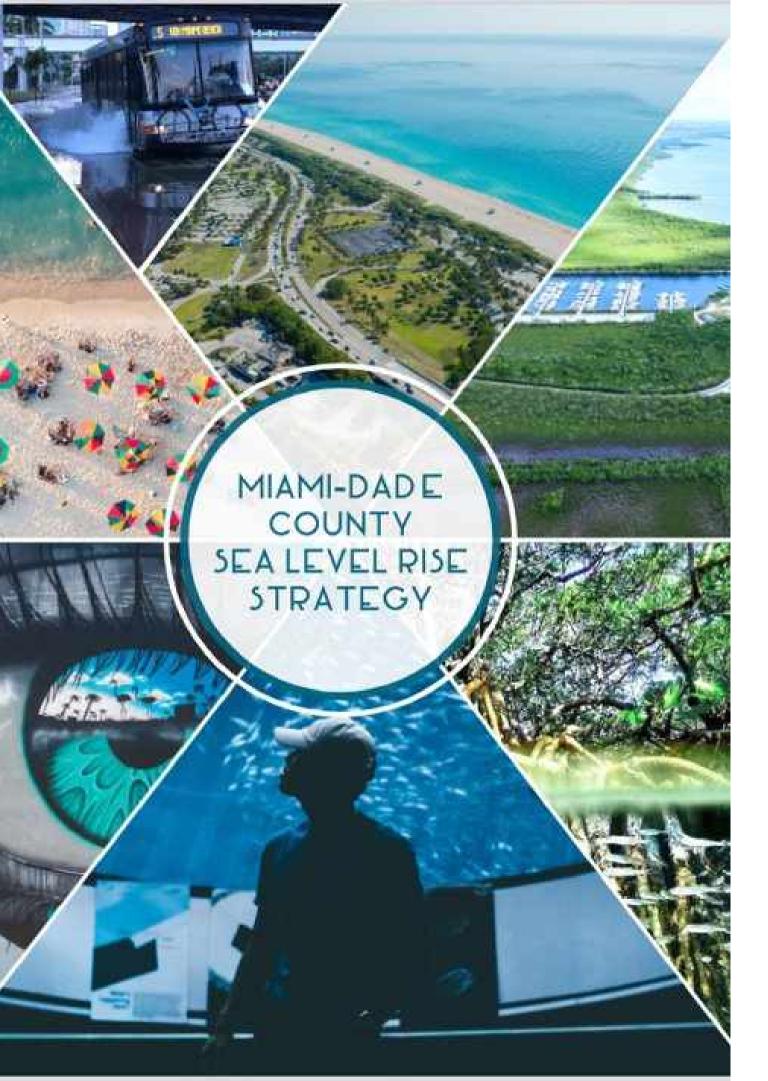






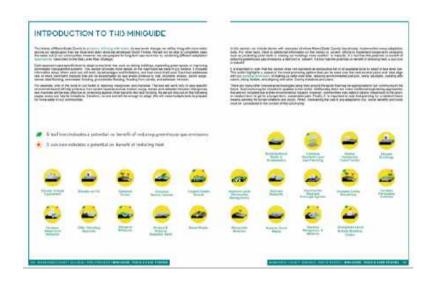






MDC's Sea Level Rise Strategy

- Adaptation tools & cost estimates
- Top 10 priorities for action
- Funded and unfunded County projects

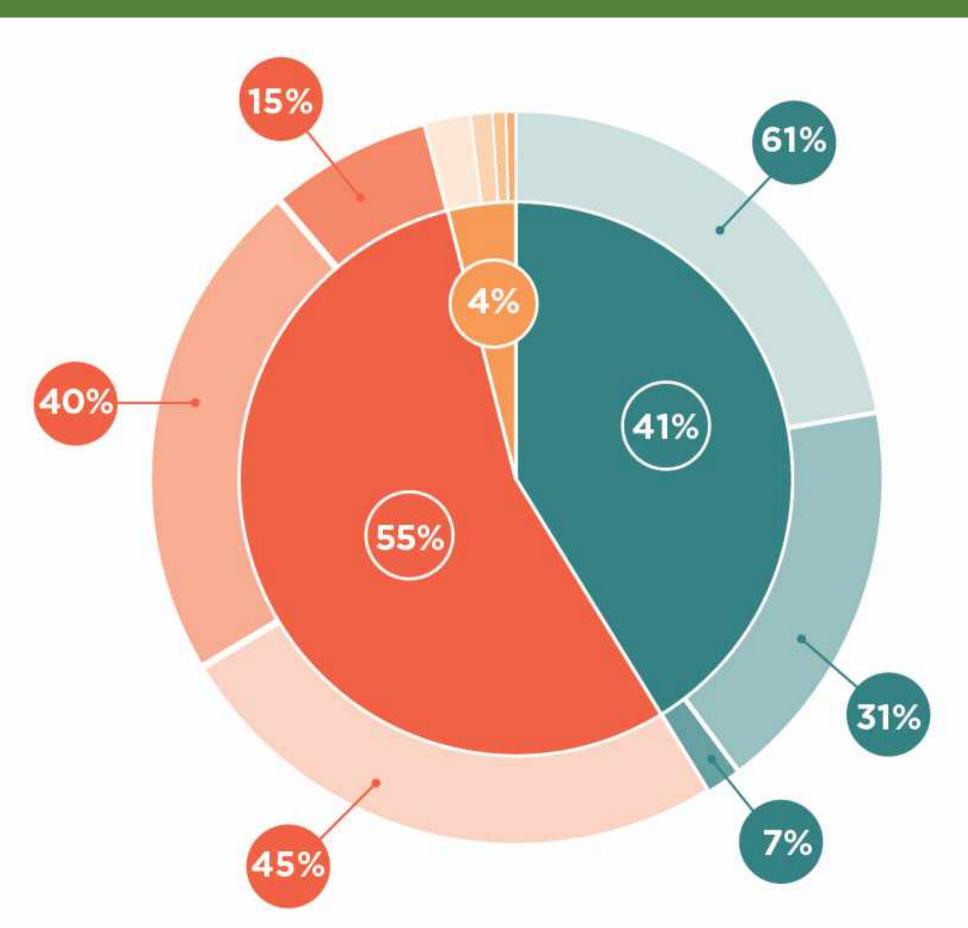


https://miami-dade-county-sea-level-rise-strategy-draft-mdc.hub.arcgis.com/



Mitigation Sustainable Buildings Program & BE305

ources of GHG Emissions

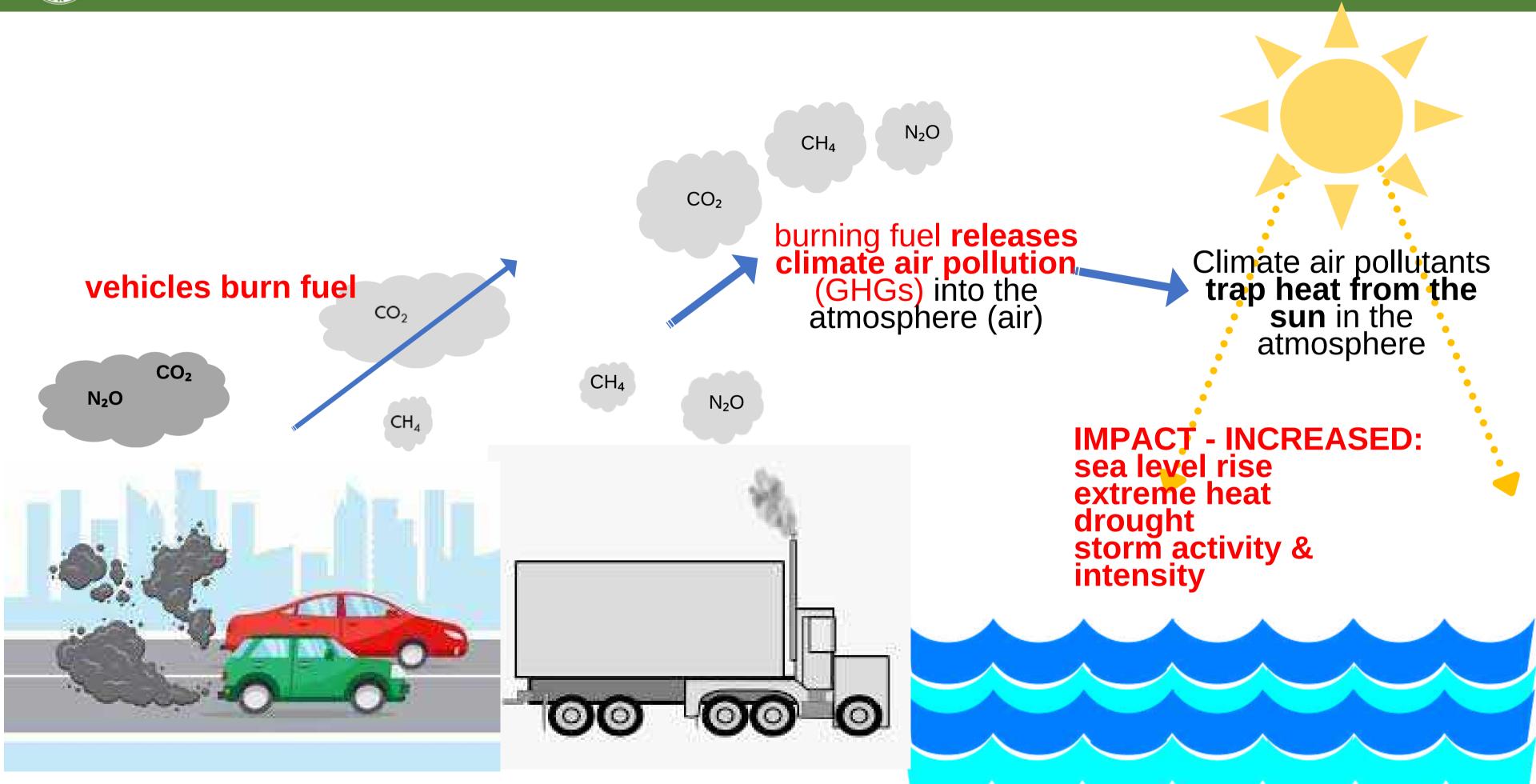


Communitywide Sources of Emissions

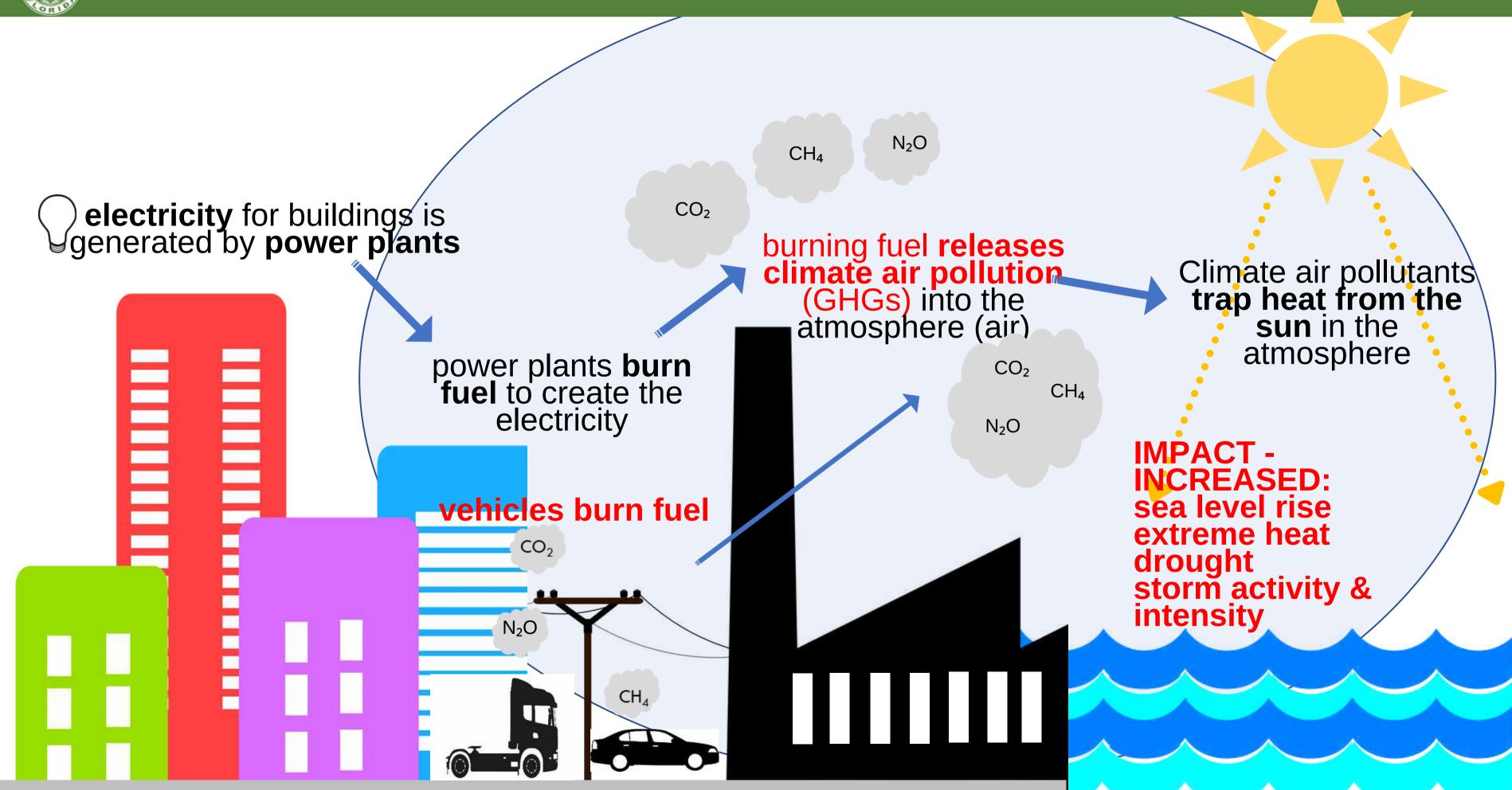
- Buildings and Energy 41%
 - Electricity 61%
 - Other Fuels 31%
 - Natural Gas 7%
- Transportation and Land Use 55%
 - Air Travel 45%
 - Ground Gasoline 40%
 - Ground Diesel 15%
- Water and Waste 4%
 - Landfilled Waste 53%
 - Wastewater Energy 25%
 - Incinerated Waste 12%
 - Other 10%

h

hy? Reduce SEVERITY of future climate change IMPACTS



yow is fuel use related to climate change?

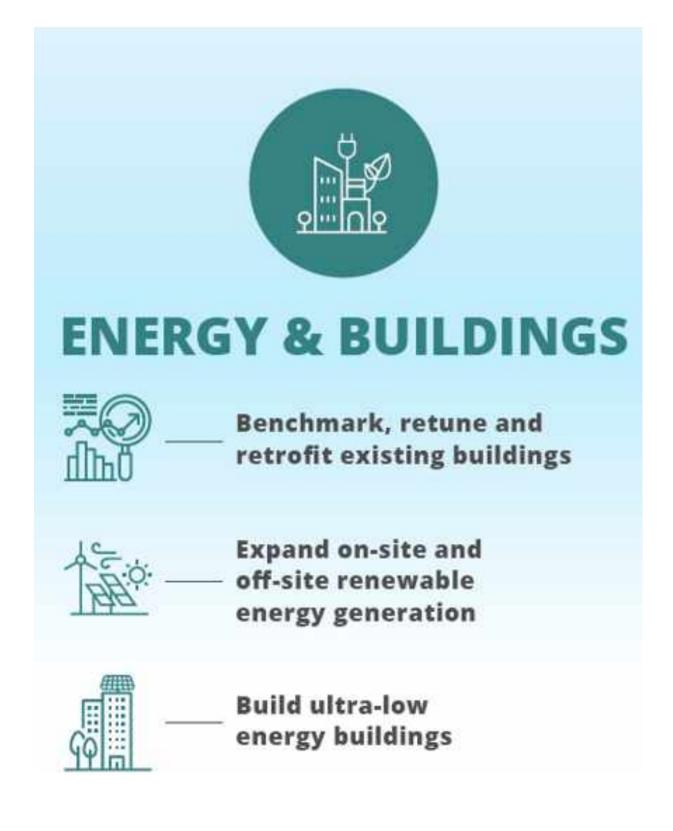


Emission reductions from 2019 levels

50%

by 2030

Net Zero by 2050



IRACE TO ZERO

ffice of Resilience - Mitigation



Sustainable Buildings Program

- Implements green building practices into to the planning, design, construction, management, renovation, maintenance, or decommissioning of any infrastructure project or building:
- Envision and/or LEED Silver Certification

Building Efficiency 305 (BE305)

 Benchmarking for Energy/Water/Waste for large buildings in Miami-Dade County



Purpose-Driven Procurement (PDP)?

- PDP aims to increase transparency, enhance equity, and foster small and local business contracting opportunities in all procurements within the County.
- PDP focuses on engaging businesses and residents in new ways, improving working conditions, prioritizing environmental considerations, and ensuring ethical behavior throughout the County's supply chain.

PURPOSE-DRIVEN PROCUREMENT (PDP) ALIGNS WITH THE COUNTY'S 4Es

- Equity
- Economy
- Engagement
- Environment



Image courtesy of Miami-Herald



SBP in 2023 – Results Driven Program

SUSTAINABLE BUILDINGS PROGRAM

OFFICE OF RESILIENCE

REGULATORY AND ECONOMIC RESOURCES

More than \$3.7 million



100,844,488 kWh of electricity

Avoided **71.700** Metric Tons of emissions



gas-powered cars from the

Improved 7.27 million sq. ft.

projects with 63 completed projects



90 projects



in-progress - an additional

\$27 million in savings by 2030

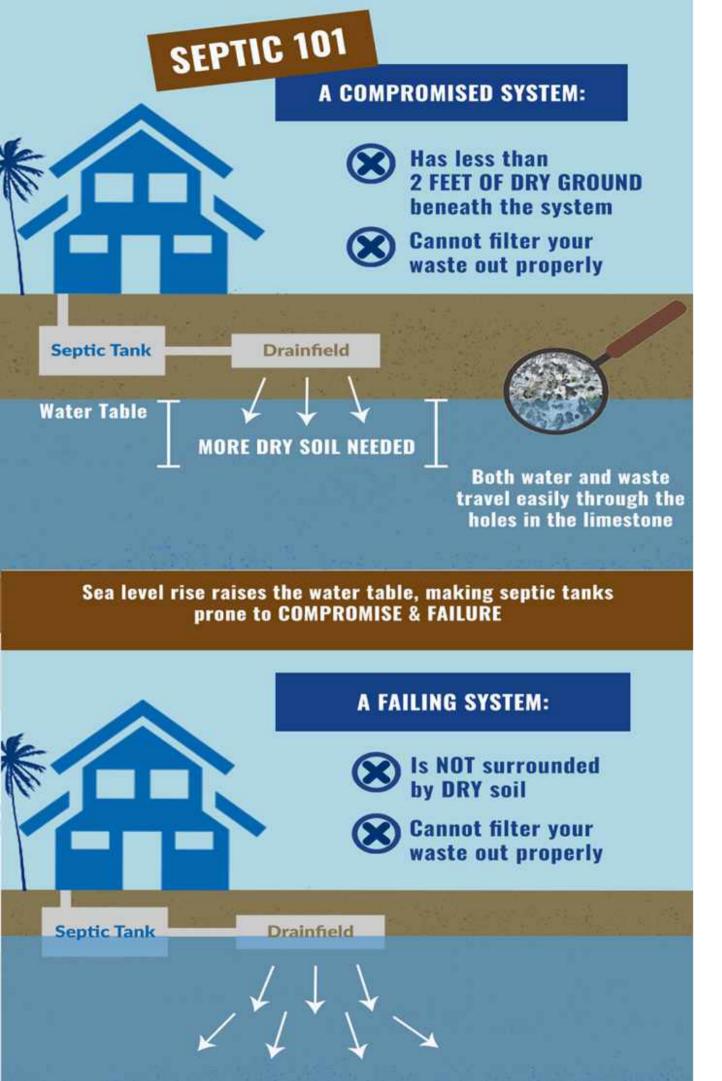
15 Years of the Sustainable **Buildings Program**



Second Envision Certified Project in November 2021







Miami - Dade County

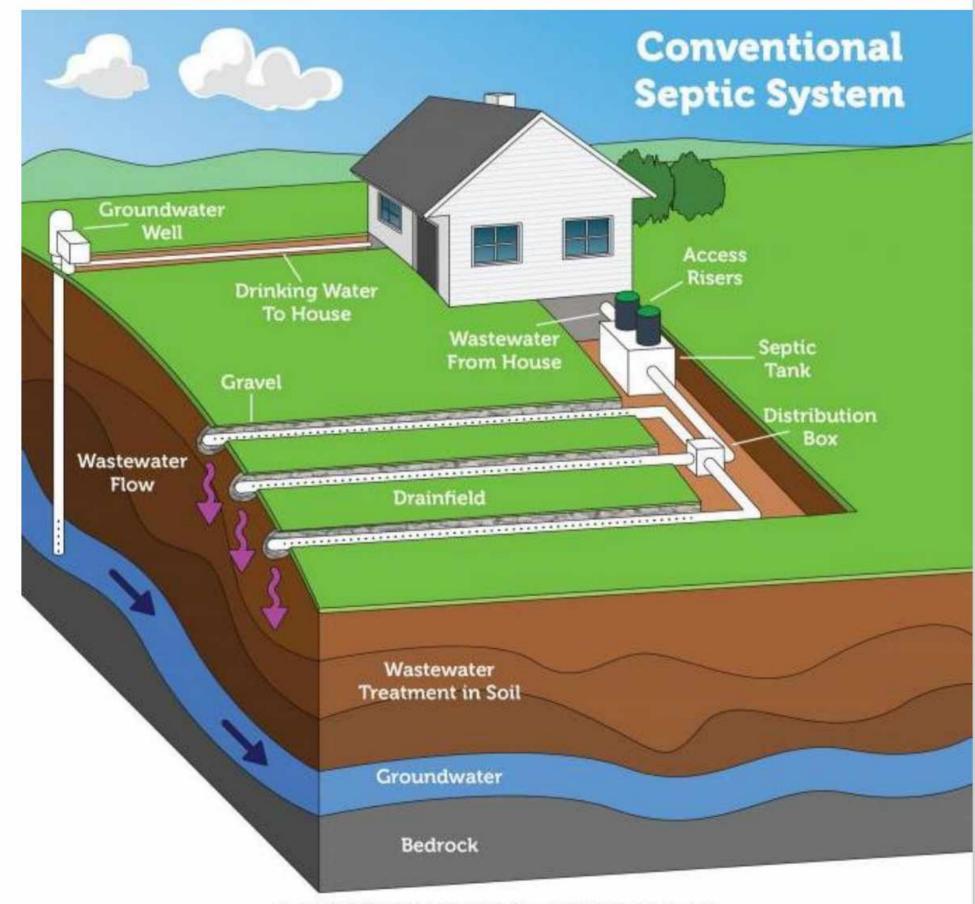
Water & Sewer Department

Department of Environmental Resources Management

Septic to Sewer:

Septic systems are a source of nitrogen to soil and groundwater

- Septic systems are designed from a public health perspective, to remove pathogens.
- When properly sited and maintained, they do a good job of this.
- They were not designed to remove nutrients, like N and P
- Nitrate readily leaches to groundwater



Please note: Septic systems vary. Diagram is not to scale.

Image: EPA

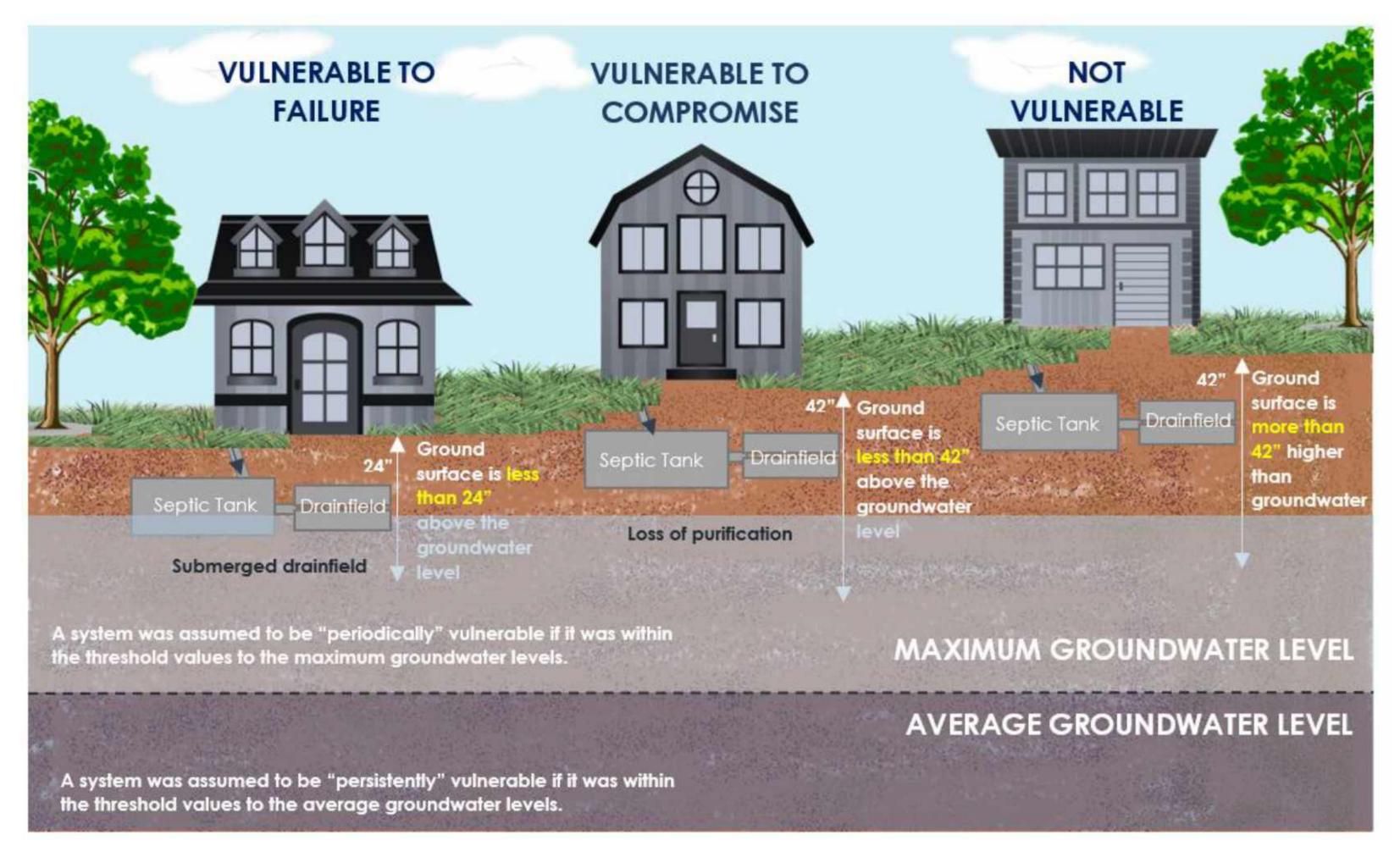
Conventional **Septic System** Groundwater Access Risers **Drinking Water** To House Wastewater Septic From House Tank Gravel Distribution Wastewater Flow Drainfield Wastewater Treatment in Soil Groundwater Bedrock Image: EPA

The Drainfield

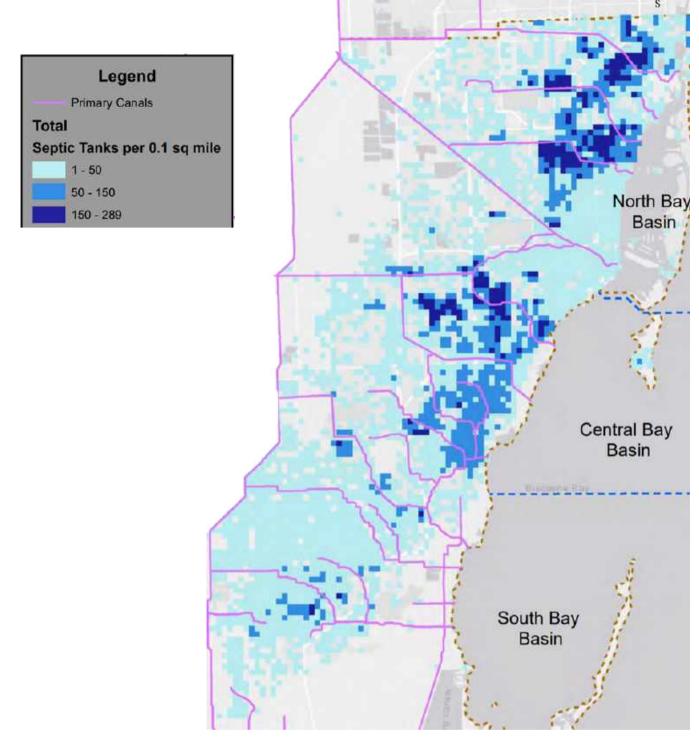
Most treatment takes place here

- Series of trenches or a single bed with perforated pipes
- Filtering, removal, and transformation of contaminants as effluent moves through the soil
- Need <u>unsaturated</u> soil
 - 24 inches from bottom of drainfield to wet season high water table

Please note: Septic systems vary. Diagram is not to scale.



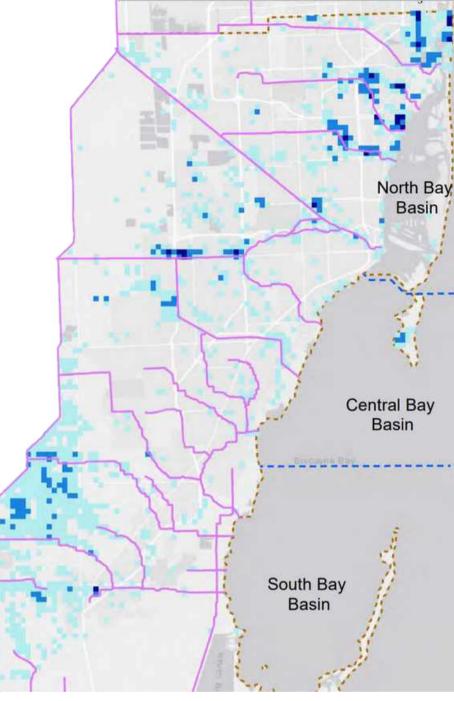
Source: Septic Systems Vulnerability to Sea Level Rise, WASD, 2018



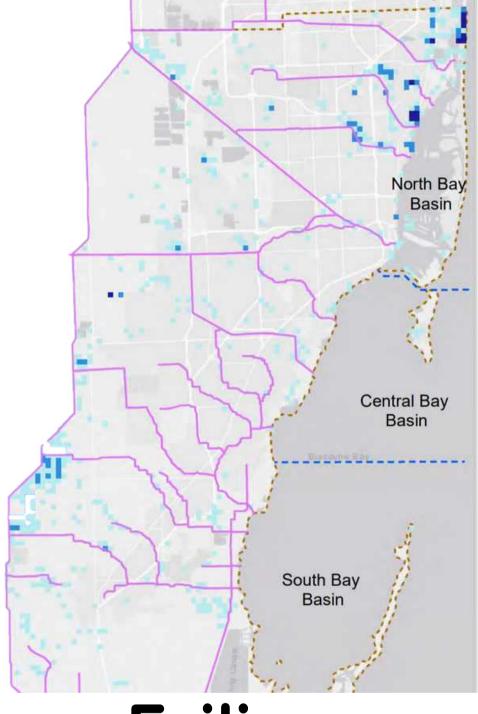
Septic Systems

~120,000 Countywide

Approximately 13% of County population served by septic systems



Compromised Septic Systems



Failing Septic Systems

2020: ~ 9,000 2040: ~13,500

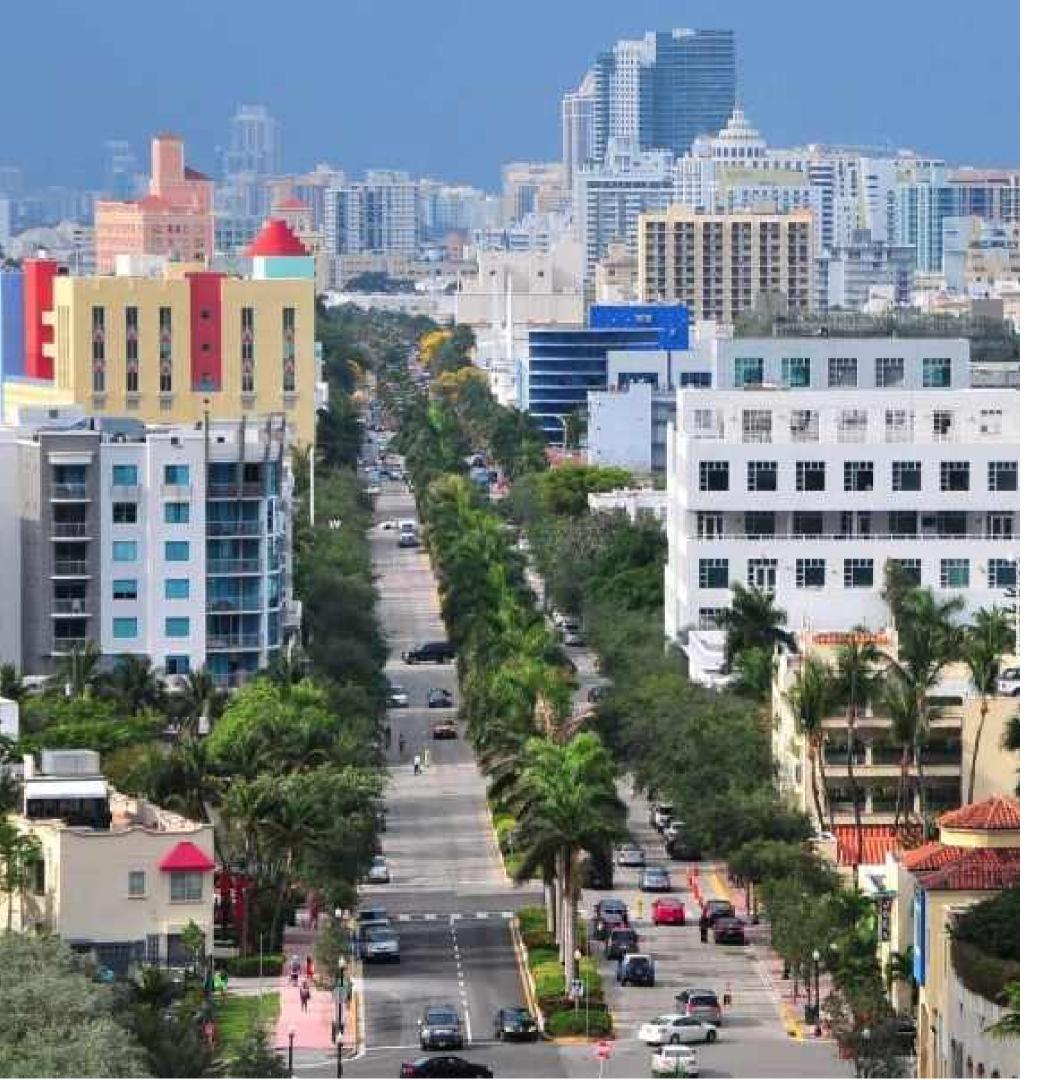
Loss of purification

Partially submerged system

RECOGNIZING THAT 9,000 SEPTIC SYSTEMS ARE VULNERABLE TO COMPROMISE OR FAILURE UNDER CURRENT GROUNDWATER CONDITIONS AND INCREASES TO APPROXIMATELY 13,500 BY 2040, THE FOLLOWING ARE THE NEXT STEPS:



- Implement a program to install public laterals to support connection of properties abutting sewer infrastructure, prioritizing those that are vulnerable to compromise/failure by 2040
- Prioritize areas for expansion of the sanitary sewer system based on environmental, social, and economic impacts
- Investigate financing opportunities for homeowners for the conversion of septic to sewer
- Initiate residential and commercial septic system registration program
- Perform water quality analysis to guide investment choices



Insurance Florida Flood & Property Insurance



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HOMEPAGE

100,000 Miami-Dade residents will get a big discount on flood insurance. Are you one?

BY ALEX HARRIS

UPDATED JANUARY 12, 2024 5:20 PM



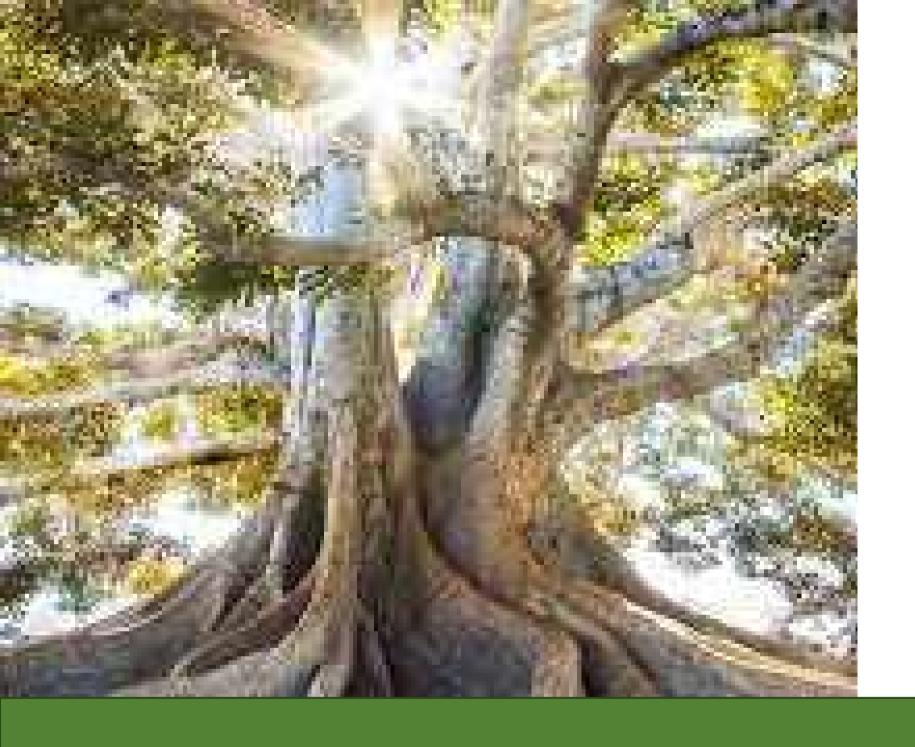
Aerial view of floods affecting West 29 Street and 14th Avenue in Hialeah as South Florida is getting drenched Wednesday night as torrential downpours inundate the region due to a disturbance off Florida's coast affecting, on Wednesday November 16, 2023. PEDRO PORTAL pportal@miamiherald.com

Flood Insurance:

- Due to a change in how the Federal Emergency Management Agency looks at Miami-Dade's flood risk, about 100,000 residents will see a 35% discount in their flood insurance premiums starting April 1, 2024.
- Designated residents and business owners in Miami-Dade will save \$12 million a year.
- The new discount applies to anyone in unincorporated Miami-Dade who has a flood insurance policy, both inside the flood zones where it's mandatory — and everywhere else.

Property Insurance:

- The cost of repairing or replacing damage to a home increased 55% between 2019 and 2022.
- The cost of reinsurance has increased dramatically in recent years, including 27% this year on avg.
- Despite years of reforms by Gov. Ron DeSantis and the FL Legislature, insurance experts and analysts don't expect to see premiums falling any time soon.
- Legislators state changes could take five or six years to be realized.



Current Resources:



U.S. EPA Inflation Reduction Act Tax Credits for Homes:

- Solar Energy
- Solar Water Heating
- Efficient Appliances
- Efficient Water Fixtures
- Energy Efficient Windows and Doors
- Energy Storage
- Electric Vehicles
- Water Heaters
- Heat Pumps

FPL Rebates for Homes:

- Ceiling Insulation
- On Call
- Air Conditioning
- LED Lighting
- New Home Build Smart Certification

MIAMI-DADE COUNTY

OFFICE OF RESILIENCE

REGULATORY AND ECONOMIC RESOURCES

miamidade.gov/resilience





Miami-Dade County Resilience Links:

https://www.miamidade.gov/global/economy/resilience/home.page

https://be305about-mdc.hub.arcgis.com/

https://sustainable-buildings-program.miamidade.gov/

https://www.miamidade.gov/global/economy/resilience/climate-strategy/home.page

https://www.miamidade.gov/global/economy/resilience/resilient305.page

https://www.miamidade.gov/global/economy/resilience/sea-level-rise-strategy.page

https://www.miamidade.gov/global/economy/environment/extreme-heat-action-plan.page

Housing & Climate Resource Guide









HUGE THANKS FOR JOINING US TODAY!

We look forward to building community with inspiration and intention.