



Climate and Heat Health Task Force

Housing and Heat Risk
March 8th 2022




Hosted by The Miami Foundation



Interpretation Instructions


Hatian Creole

Bonjou tout moun! Pou aktive

entèpretasyon Zoom la, tanpri klike sou glòb  "Entèpretasyon" nan bò dwat anba ekran ou an epi chwazi lang kote ou ta renmen koute a. Si w ap konekte ak Zoom nan telefòn ou, tanpri manyen twa pwen yo nan kwen anba dwat ekran ou kote li di "plis", epi chwazi "Entèpretasyon lang", chwazi lang kote ou ta renmen koute a, epi Lè sa a, manyen "fè".


Spanish

¡Bienvenidxs

todxs! Para activar la interpretación de Zoom, por favor haga clic en el globo  que dice "Interpretación" en la parte inferior a la derecha de su pantalla y elija el idioma en el que desea participar. Favor elija la opción "silenciar el audio original" que se encuentra debajo de la lista de idiomas. Si, se está conectando a Zoom con su teléfono, por favor toque los tres puntos en la esquina inferior a la derecha donde dice "más", toque "Interpretación de Idiomas", elija su idioma de preferencia, Favor elija la opción "silenciar el audio original" que se encuentra debajo de la lista de idiomas, y luego toque "hecho" arriba a la derecha.

English

Welcome,

everyone! To activate the Zoom interpretation, please click on the "Interpretation" globe  in the lower right side of your screen and choose the language in which you would like to listen and participate. Please choose *mute original audio* which is under the list of languages. If you're connecting to Zoom through your phone, please touch the three dots at the bottom right corner where it says "more", tap "Language Interpretation", choose the language in which you would like to listen, Please choose "mute original audio" which is under the list of languages, and then touch "done" on the top right corner.

Agenda

1. Remarks from Mayor Daniella Levine Cava

2. Overview Presentation (10:35 - 11:00)
 - Extreme Heat - What are the risks
 - Housing and Heat: What We Know Today
 - What the County and Partners are Doing
 - What the County and Partner Organizations Can Do

2. Breakout Groups (11:00 - 11:50)

3. Groups Summary to Full Group (11:50-12:00)



Extreme Heat

- Heat is the leading weather-related killer in the United States
- High heat and humidity can lead to heat-related illness, including heat cramps, heat exhaustion and heat stroke
- Most HRIs and deaths are preventable
- High risk groups experience a disproportionate amount of health impacts
- Marginalized communities, the elderly, children, pregnant women and outdoor workers are more vulnerable to heat related illnesses and deaths
- Extreme heat conditions are increasing due to climate change and urban development.





Housing and Heat: What We Know Today

- Most low-income residents are cost burdened and live in substandard or older buildings which have worse insulation or ability to retain A/C.
- Miami-Dade County Community Action and Human Services (CAHSD) provided utility assistance to almost 30,000 households last year.
- In the recent Thrive 305 survey:
 - 77% of respondents are concerned about protecting themselves and their property from natural disasters or hazards, including extreme heat
 - Preservation of existing homes was the preferred affordable housing strategy in Homestead, Hialeah, and Miami Gardens. The City of Miami, Opa-locka, and Miami Beach selected building new housing as their top preference
 - Greening private homes was the most popular carbon reduction strategy in Miami Gardens, Hialeah, and Florida City



What the County is Doing

- Since 2001, the County has required A/C in rebuilt public housing developments. It still not a national requirement
- The County is in the process of [revamping](#) our distressed public housing supply into more resilient, mixed-income, mixed-communities. Through HUD RAD, the County has leveraged additional capital to make necessary repairs, efficiency upgrades, and replacements for over 6,000 public housing units
- Liberty Square Rising project incorporates new social infrastructure to increase resilience, like [upgraded streetscapes, park space, art plazas, and a pool](#)
- The County is forming a new Office of Housing Advocacy that will focus on preventing displacement, doing know-your-rights trainings, and coordinating programs to expand affordable housing options



What the County is Doing

- County-funded affordable housing developments are [required by code](#) to be built to Green Building Standards (i.e., LEED, FGBC, NGBS, Energy Star)
- During the last budget cycle, the County invested a record \$260 million to expand affordable housing opportunities
- The County has created a new flexible [NOAH preservation program](#) focused on property owners of rental properties
- [FY 2021 Surtax/SHIP/HOME RFP](#) includes a \$1 million set aside for smaller developments, 40 or less units (i.e., NOAH properties)
- [FY 2021 Surtax/SHIP/HOME RFP](#) includes \$2 million set aside for "innovative" affordable developments, including ADUs, CLTs, and novel construction materials or methods
- Both the FY2021 Rental RFP and the [FY2021 Surtax Homeownership RFA](#) includes new bonus points for resilient building techniques (e.g., elevated HVAC, climate resistant paint)
- County RFAs include additional incentives for building near [public transit, recreation, and health facilities](#) (e.g., Ludlam Trail Towers, Northside Transit Village, etc.)



Collaborative Efforts between County and Partners

Cool roof requirements - Zoning ordinances within City of Miami and City of Miami Beach. County working towards a statewide building code requirement for commercial buildings

Multifamily Acquisition/ Preservation/Rehab

- [Keep Safe Miami](#) is a program led by Enterprise Community Partners with Florida Housing Coalition as an outreach partnership and supported through R305 by JPM Chase Foundation and Southeast Sustainable Directors Network
 - Created toolkit for multifamily housing retrofits
 - Experience challenges in recruiting owners to do the assessment and retrofit their properties
- Through **Connect Capital Initiative**, Miami Homes for All created an acquisition rehab pre-development revolving loan fund at the Florida Community Loan Fund. This was targeted for the smaller unit NOAH properties. JPM Chase and Knight reached \$2.5 million. However, the product was built without a pipeline of projects.
 - Gaps could be due to lack of developer capacity, nature of RE market, right zoning laws, reduced parking.

Single Family rehab, weatherization and ee retrofits

- Primarily offered through CAHSD - Community Affairs and human Services Department
- Weatherization funding is a federal program passed through the state. Biden Administration looking to build more flexibility into this and LIHEAP programs but the measures need to be approved by the state and then also by the County.



What our Partners are Doing

- Climate and Health Equity Coalition policy agenda led by **Catalyst Miami** and **Miami Climate Alliance** including AC provision in weatherization and window screen requirement.
- In August 2021 Florida Power & Light (FPL), **The CLEO Institute** and **Vote Solar** reached an agreement that included lowering the shutoff protection trigger to 95°F
- **SMASH Miami** and the **South Florida Community Land Trust** are creating community land trusts to build wealth, preserve neighborhoods and affordability
- The **Solar and Energy Loan Fund (SELF)** is financing solar energy infrastructures for LMI neighborhoods. SELF is offers a variety of unsecured loans, which are based on the borrower's creditworthiness, rather than by any collateral, such as property or other assets that guarantee access to low-income families. Furthermore, SELF also offers home repairing through the same method. Roof maintenance especially is fundamental in order to amplify the potential of solar panels.
- **Neighborhood Housing Services of South Florida** is locally based and also offering financing for EE retrofits to low/mod income homeowners.
-and more I'm sure.

UM Rosenstiel School and Catalyst Miami's Study



Have you ever felt too hot at home?



Is your energy bill too expensive?



bit.ly/heat-miami



¿Se ha sentido demasiado acalorado en su casa?



¿Su factura de energía es demasiado cara?



bit.ly/calor-miami



Èske ou deja konn santi ou twò cho lakay ou?



Èske bòdwo enèji ou twò chè?

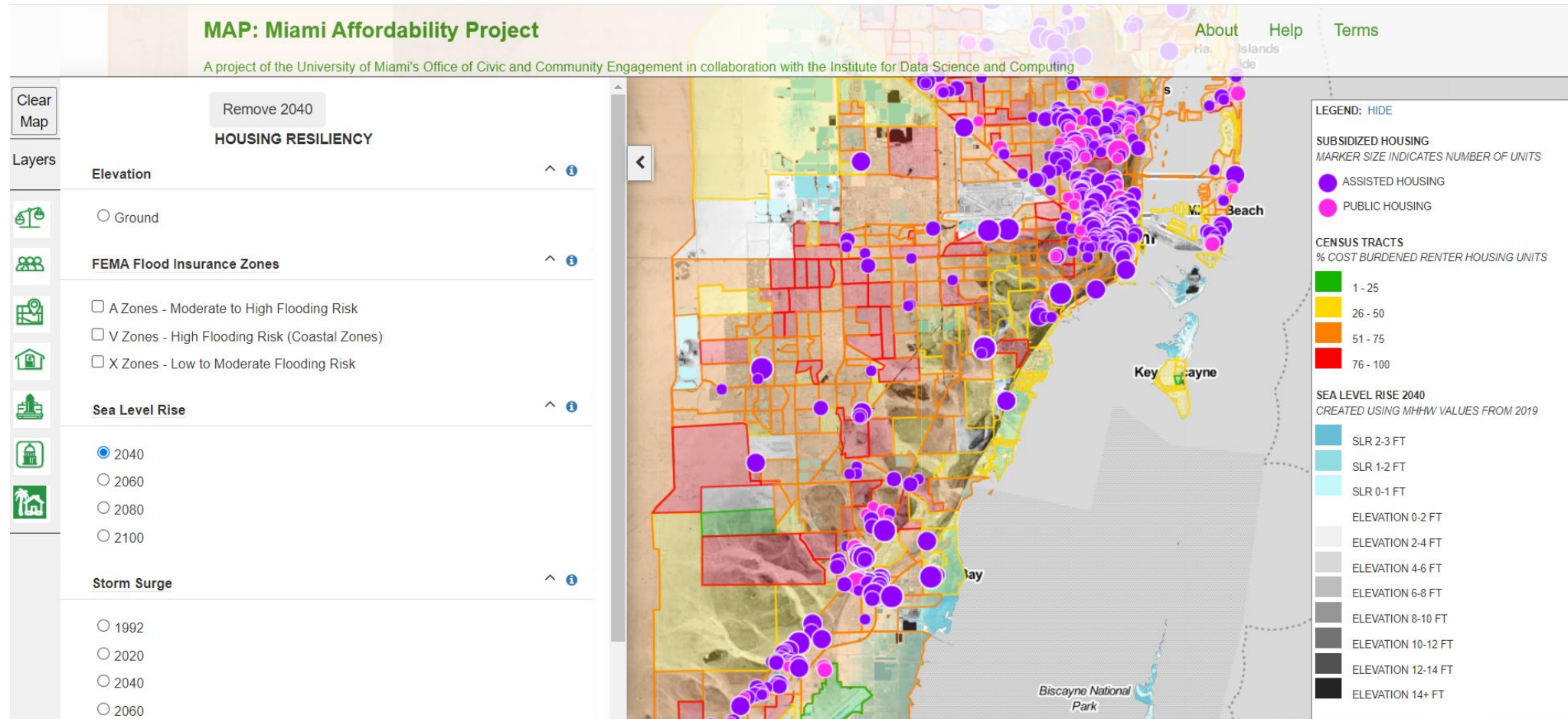


bit.ly/chale-miami



UM's Housing Solutions Lab

MAP | Miami Affordability Project



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UM's Housing Solutions Lab

Data Layers & Sources

Layer	Data Source(s)	Examples
Housing	Florida Housing Finance Corporation, Shimberg Center, Miami-Dade County Public Housing and Community Development, City of Miami	Type of ownership, public housing, population served, subsidy expirations
Neighborhoods	American Community Survey	Cost-burden, overcrowding, vehicle use, income
Section 8	Miami-Dade County Public Housing and Community Development	Number of Section 8 units, contract rent, inspection scores
Parcels	Miami-Dade County Property Appraiser, Florida Department of Revenue	Owner, lot size, bedrooms, DOR land-use codes, total units
Historic	City of Miami's Historic Preservation Office	Local designation, historic property (no designation)
Boundaries	Miami-Dade County Information Technology Department	Community Redevelopment Areas, city boundaries
Resiliency	FEMA	Sea level rise and storm surge projections



Life Experience

- Access to AC
- Household energy burden
- Outdoor workers: construction, agriculture, service
- Redlining

Built Environment

- Tree canopy
- Imperviousness
- Building age
- Building floor count

Heat

- Surface temperature
- Historic temperature
- Humidity

Health

- Asthma prevalence
- COPD prevalence
- Proximity to park
- Heat related ER visits, hospitalizations and deaths
- Health and pollutants (Abe Parrish)



Contact Us

Miami Housing Solutions Lab

<http://www.miami.edu/affordablehousing>

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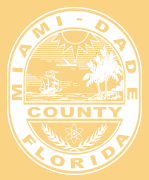
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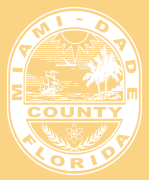
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What the County and Partner Organizations Can Do/ Opportunities

- Explore expanded approved measures and funding per household with both weatherization and LIHEAP
- Opportunities for gentle zoning increases and allowing for accessory dwelling units (ADUs) could also result in redevelopment of these properties to housing that is more efficient and resilient.
- County \$2 Million set aside in home funds for innovation
- Other states' best practices:
 - Block Captain Program in Philadelphia, water play activities in the summer
 - Phoenix- landlords must ensure that units are cooling to at least 86 degrees inside if using evaporative cooling. If there is an air conditioning unit installed in a Phoenix apartment, the landlord must ensure that the premises cool to 82 degrees.



Breakout Questions

1. How might we accelerate the retrofit or redevelopment of single family homes to reduce the energy burden?
2. How might we accelerate the retrofit or redevelopment of multi family homes, for instance, by leveraging Keep Safe Miami?
3. What are some best practices from elsewhere that we should look at for energy retrofit benefits?
4. What are other municipalities and NGO partners that we haven't mentioned doing?
5. What other stakeholders need to be involved?