

SOUTHEAST FLORIDA DATA COMMON

Keren Bolter, PhD

Climate, Policy & Geospatial Analyst
South Florida Regional Planning Council

12/13/16

Community Development



**Southeast Florida
Regional Partnership**

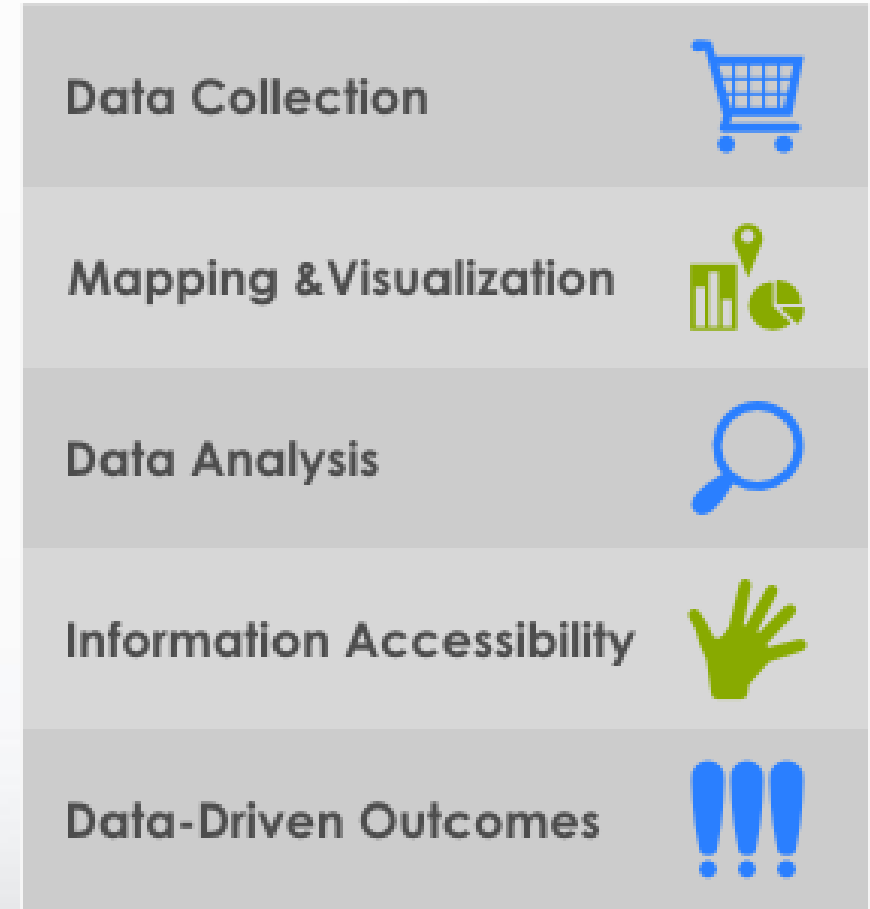
Indian River - St. Lucie - Martin
Palm Beach - Broward - Miami-Dade - Monroe



How can we more effectively utilize data to make informed decisions, build new partnerships, and continue to shape bright futures for the Southeast Florida Region?

DataCommon

- A unique tool that can be used to promote
 - better communication
 - more informed policymaking
 - broad-based collaboration around issues of shared importance
- Instrumental in advancing a shared understanding of the Region
- a common platform to view pertinent issues in Southeast Florida



DataCommon Opportunities

- **Democratize** access to data for a range of different users
- **Collaborate** to create a shared space for cross-linking data from different disciplines (reduce silos)
- **Avoid** unnecessary duplication of effort in collecting and documenting data
- **Provide** technical assistance in the development and use of tools for analyzing and visualizing data
- **Create** a regional forum (a learning community) for discussing best practices

How can we go from this...

			Total:	
			Owner occupied	Renter occupied
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Census Tract 101.02, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,333	1,020	313
Census Tract 101.03, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,617	1,163	454
Census Tract 101.04, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,237	738	499
Census Tract 102, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	2,378	1,559	819
Census Tract 103.04, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,070	534	536
Census Tract 103.05, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	2,091	215	1,876
Census Tract 103.06, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	972	464	508
Census Tract 103.07, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,652	467	1,185
Census Tract 103.08, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,959	1,138	821
Census Tract 104.01, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,760	1,272	488
Census Tract 104.02, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,763	1,477	286
Census Tract 104.03, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	3,361	3,213	148
Census Tract 104.05, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	2,775	1,703	1,072
Census Tract 104.06, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	1,787	1,134	653
Census Tract 104.07, Broward County, Florida	<input checked="" type="checkbox"/>			
Estimate	<input checked="" type="checkbox"/> <input type="checkbox"/>	2,349	1,650	699



Business & Economy



People and Place



Education



Health & Quality of Life

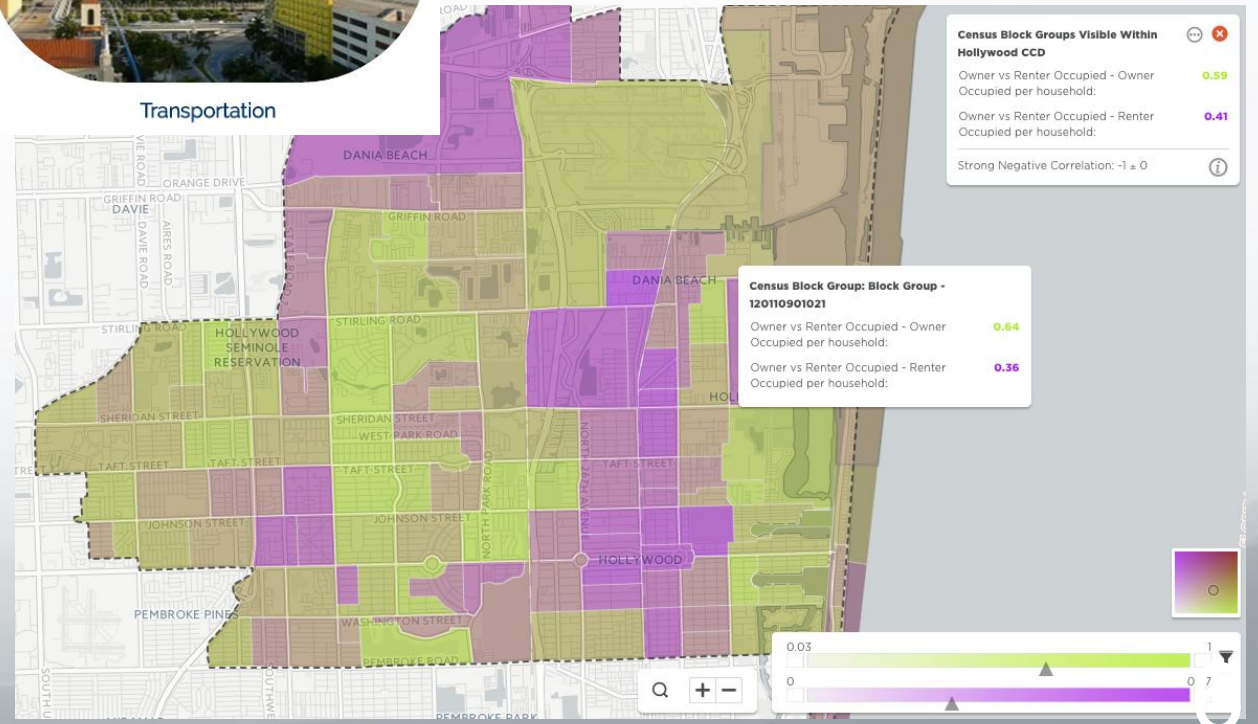


Attainable Housing and Development Patterns



Transportation

To this...



From Data to DataCommon

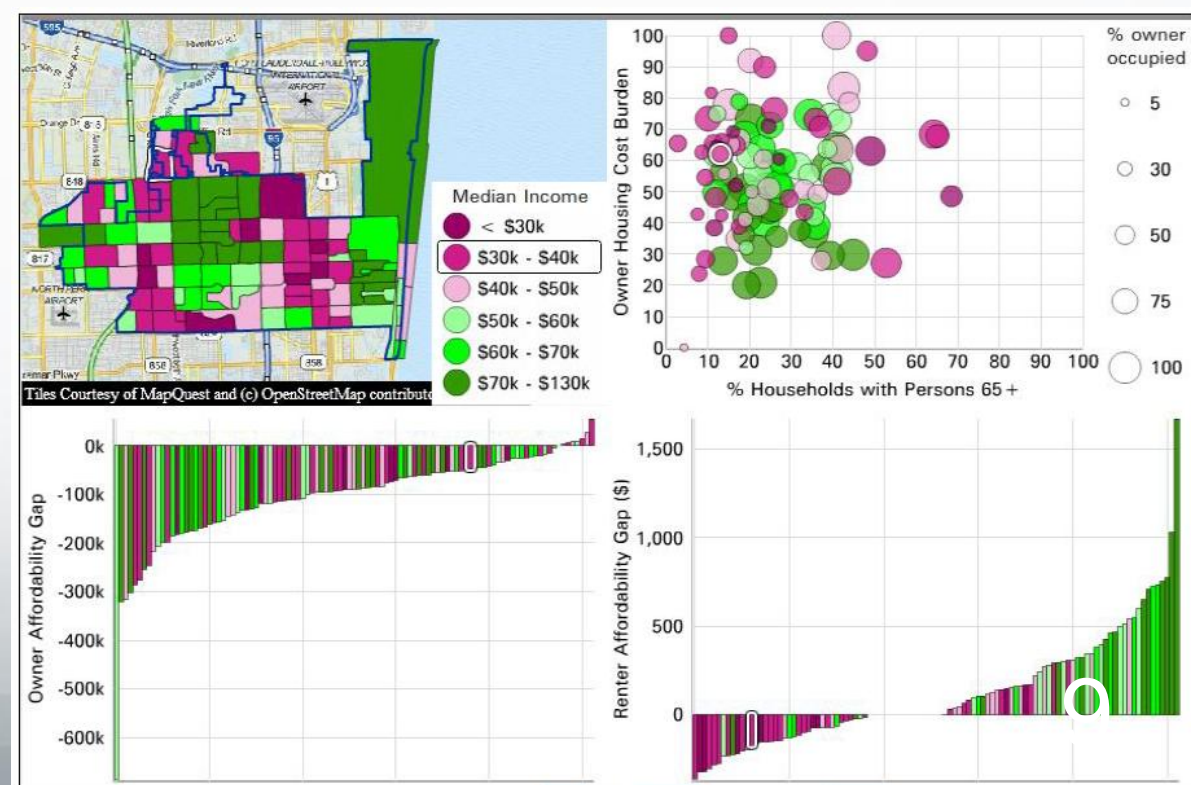
- Moving Big Data from organizational silos to user-friendly formats
- Visualizations alone are not enough, we require a regional database
- Consolidating our efforts will save time and money, and helps to avoid repeat data gathering, analyses, and the recreation of visual aids
- Open access allows greater utility; promotes engagement and collaboration between residents, planners, policymakers, and academics

The Components

- Accessible Data
- Meaningful Visualizations
- Thorough Analyses → Meaningful Narratives
- Open Access

Timeline of Past Efforts

- National Neighborhood Indicators Partnership (NNIP)
- Guidance from MAPC Boston DataCommon
- Comparative Matrix of Florida Data Sites
- Web-based Analysis and Visualization Environment (WEAVE) Pilot Study
- Focus Group Meetings
- DataCommon National Survey



Improving Regional Transportation Planning in Miami-Dade County Via Enhanced Local Access to Healthy Living

Prepared for the
Miami-Dade Metropolitan Planning Organization
by the South Florida Regional Planning Council



Assessing Community Needs to Identify Strategies which Increase Transportation Access to:

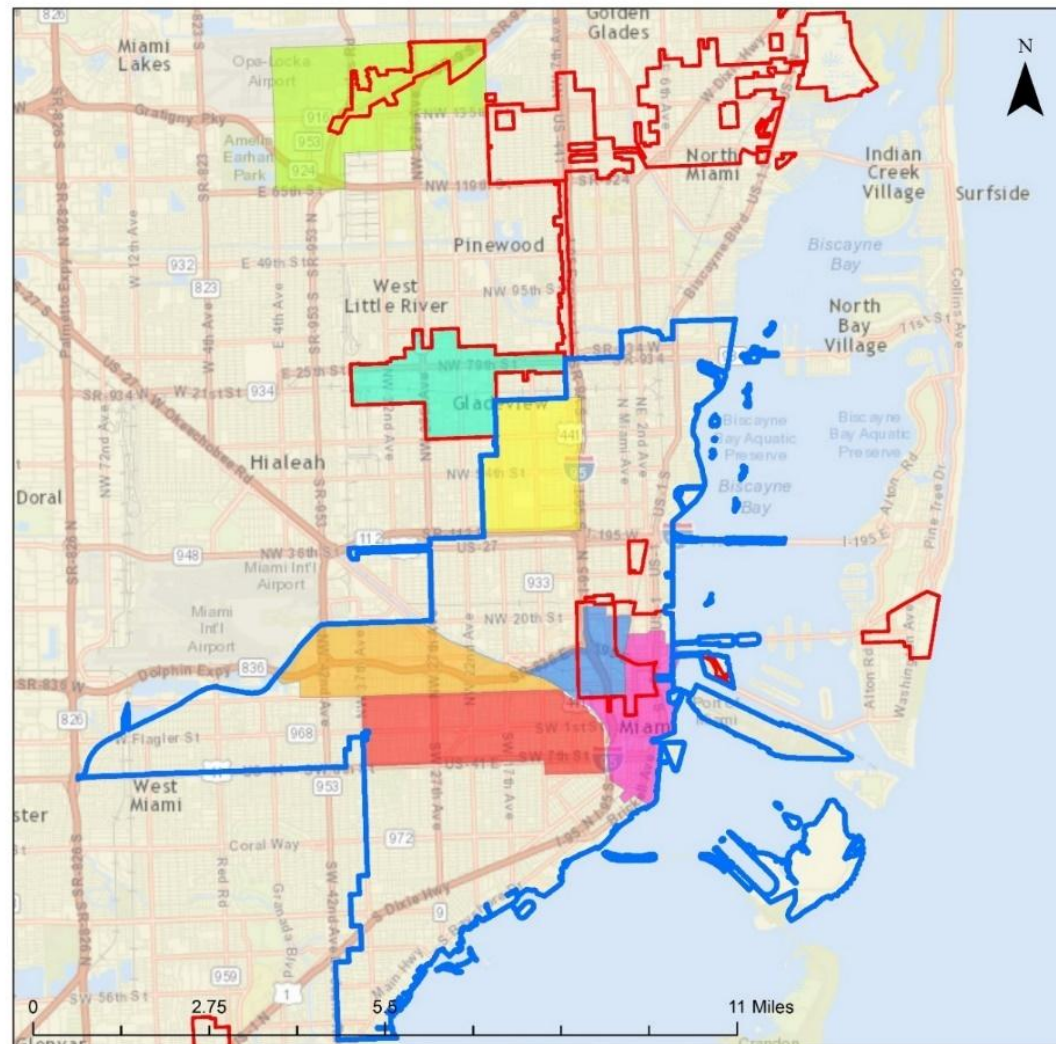
Health Services



Healthy Food

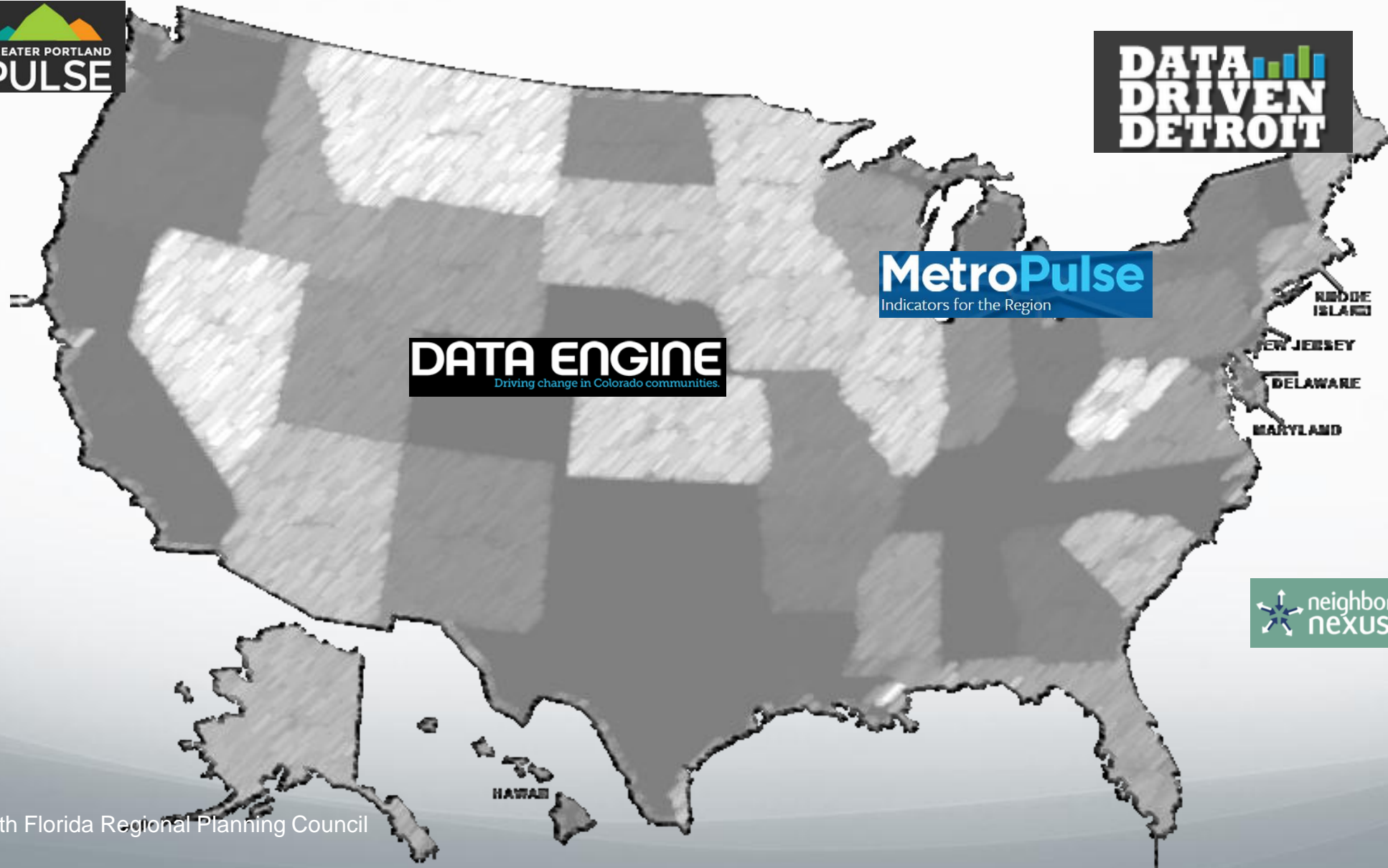









Exercise



- City of Miami
- Community Redevelopment Areas
- 79th Street
- Grapeland Heights
- Little Havana
- Opa Locka
- Overtown
- Downtown
- Liberty City





	City/Region	Type	Mission & Values	Partners Advisory Board/ Funding	Roles	Software & Data	Geography	Business Plan / Marketing Material	Lessons Learned
	<u>Chicago</u>	Indicator	Trans & planning	Chicago Community Trust	2-3 fulltime	Excel Macro	Municipal	none	Be careful managing and pacing growth
	<u>Detroit</u>	Data Common	Policy & Health	50/50% projects & Foundation	3-15 fulltime	SQL & ArcGIS, loveland	Parcel	social media & conference	Land use and blight survey was most useful
	<u>Connecticut</u>	Data Common	planning	Connecticut State Data Center & projects	3-4 fulltime	C-CAN leaflet Highcharts Django	Municipal	conference workshops	WEAVE issues; things take time
	<u>Colorado</u>	Indicator	Policy & Equity	Denver & Piton Foundations	2 Data Analysts	Drupal	Parcel	limited	Had to reduce to Data Warehouse
	<u>Portland</u>	Data Common	Policy & Health	Institutes & University	2 Data Analysts	Highcharts & leaflet	Parcel	Newsletter & blog	Design for User needs
	<u>Atlanta</u>	Data Common	Policy & Equity	Numerous with MOU	Several full-time	WEAVE	Tract	Trainings & newsletter	Networking is key!
	<u>Boston</u>	Data Common	Policy & Equity	Numerous with MOU	Several full-time	WEAVE	Block group	Workshops / Data Day	Underestimation of required resources/tech

Recommendations

- **Atlanta** - Users don't want data, they want meaningful stories that they can relate to; both negative and positive information can be appealing and meaningful; and also usability – most people can't a lot of users can't use raw data unless is presented accessibly.
- **Connecticut** - “There is a real desire for more data, but we have found that the big selling point is that all of the data is in one place and our value-addition is making it accessible. Stay true to that and don't deviate from it”
- **Detroit** – “Everyone wants to do open source, but pick a software or platform that works effectively and efficiently and stick with it.”
- **Portland** – “Design the site for the end users.”

Data stories to drive decisions and inform communities



Business & Economy



People and Place



Education



Health & Quality of Life



Attainable Housing and Development Patterns

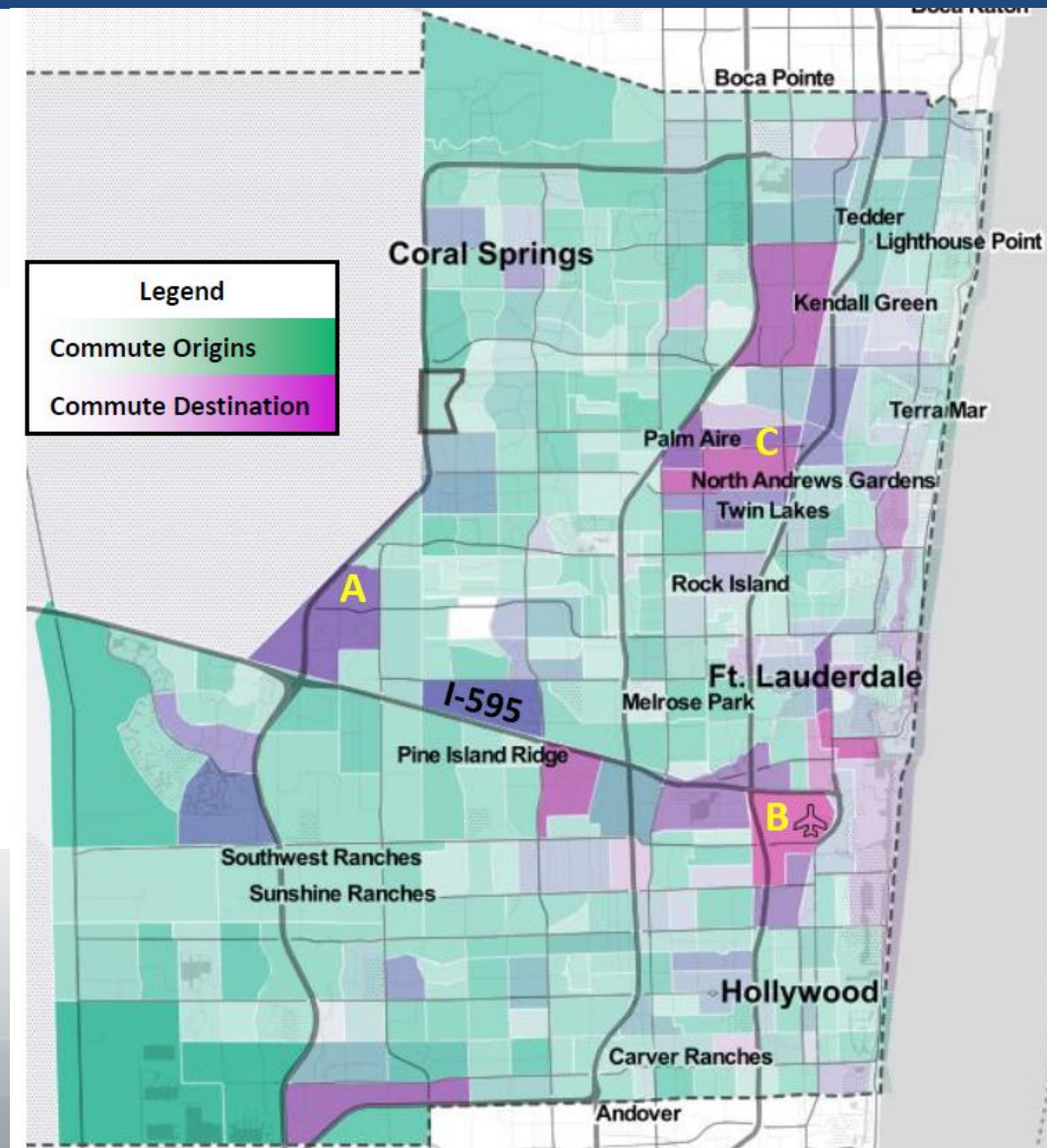
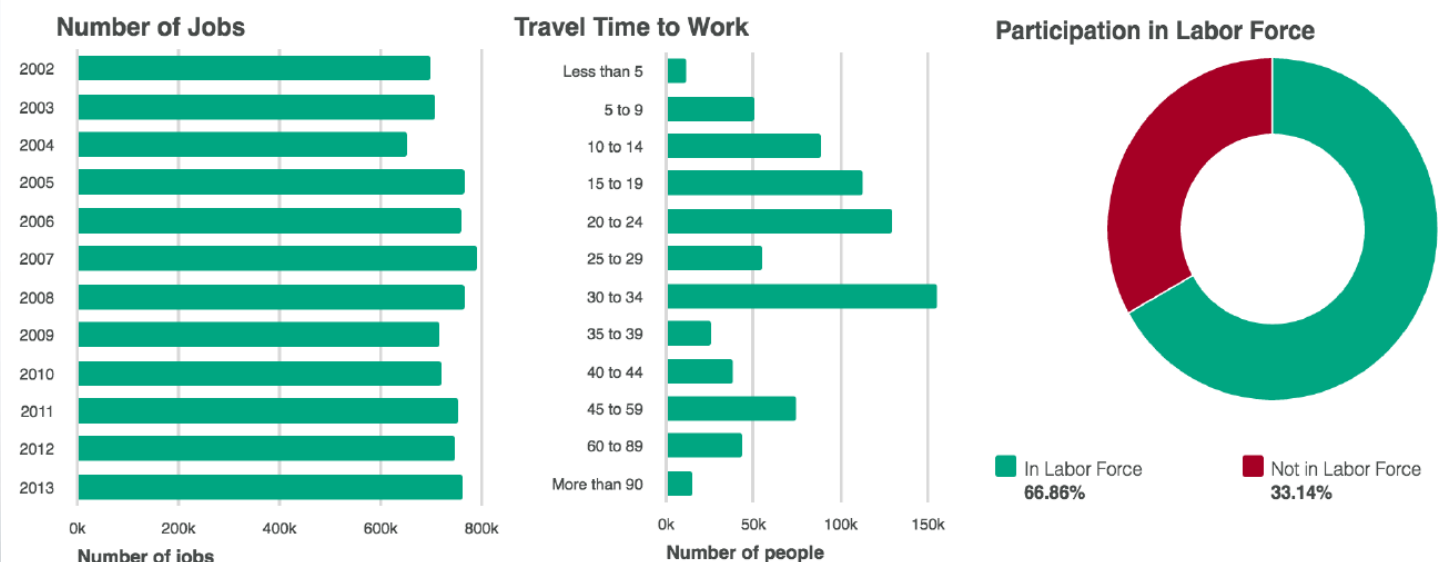


Transportation

EMPLOYEE ORIGINS AND DESTINATIONS

BROWARD COUNTY, FLORIDA

Southeast Florida DataCommon



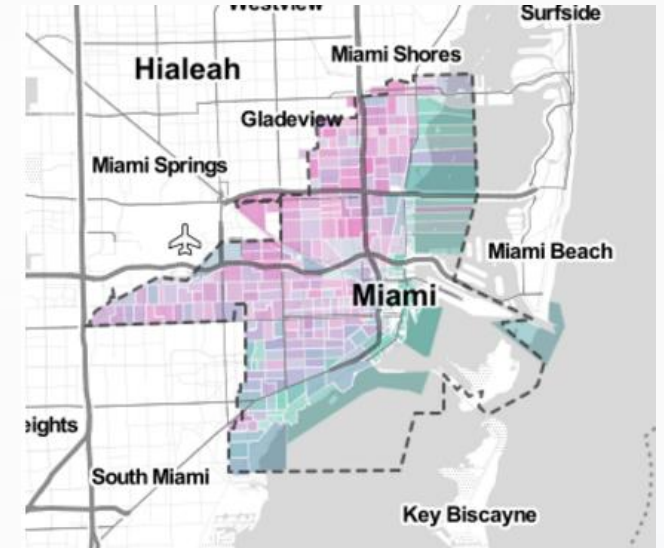
• maps.mysidewalk.com/45e3f15304




Questions We Ask Our Partners:

- What types of data would your organizations be interested in accessing?
- What types of stories are you interested in telling?
- What specific indicators would be most useful?
- How can we use this interface to facilitate community engagement?
- How can we use this interface to address community needs, visualize trends, and create opportunity within the region?

Moving Forward

- Technical assistance/trainings
- Providing guidelines
- Scheduled convenings
- Organizing and normalizing data
- Knowledge and resources
- Distribution of content
- Weave DataCommon into Resilience initiatives

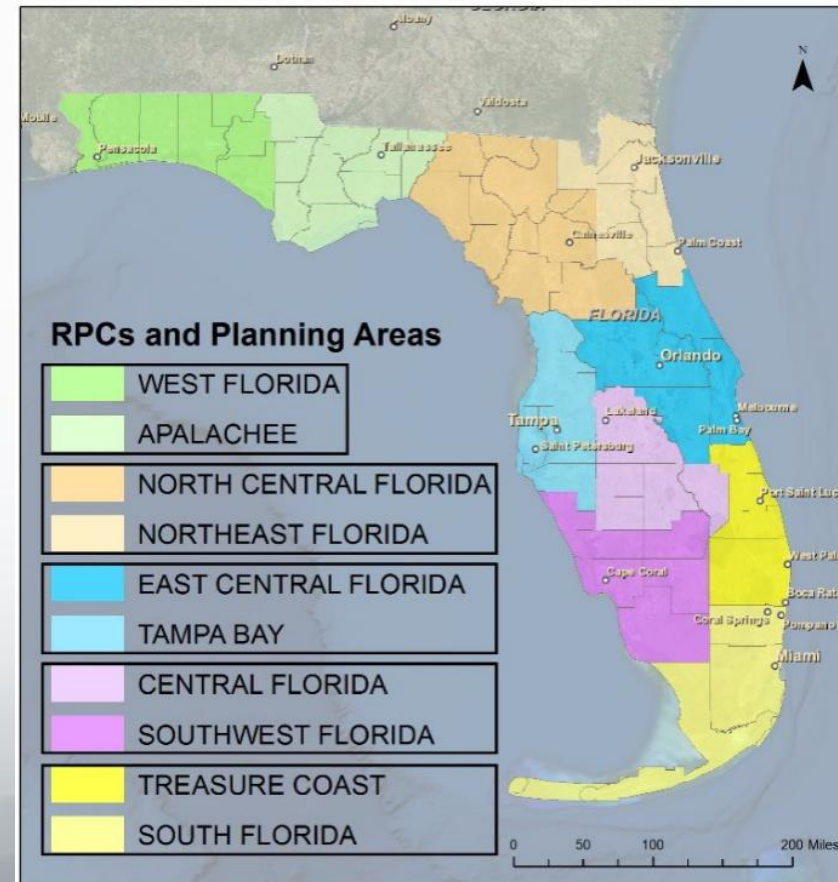


DATA CATALOG  Browse, search, and download over 1000 spatial and tabular datasets from the Data Catalog.	COMMUNITY PROFILES  View dashboards on housing, education, the arts, and more, tailored to your town in Community Profiles.
VISUALIZATION GALLERY  Explore 619 user-made maps, charts, and more in the Gallery, and learn how to make your own.	MAP GALLERY  View maps and data projects from around Metro Boston in the Map Gallery. This is a great way to learn more about work going on around the region.

Focus on Data to Increase Resilience

SOUTH FLORIDA COASTAL RESILIENCY

- Southeast Florida Regional Climate Compact Initiatives
- County/municipal Work
- Community organizations
- Academic
- SFRPC Work
 - Adaptation Action Areas
 - Train the Trainers
 - Impacts of SLR on Public Health
 - DEO TA for Infrastructure Resilience



FIU SLR Solution Center
FAU CES
UM climate.miami.edu



Florida
Climate Institute

Member Universities



Community organizations



CATALYST
M I A M I

WE CULTIVATE
LEADERS *to*
STRENGTHEN
FAMILIES *and*
COMMUNITIES.

**DELRAY BEACH
RISING WATERS
TASK FORCE**

**HIGHWATER
HIGHWATERLINE**



Applications: Projects for Resilience

- Comprehensive Economic Development Strategy Update
- Florida International University, Miami - Economic Development Project
- Rockefeller 100 Resilient Cities for Greater Miami and the Beaches
- Tri-county Project: Protecting Infrastructure from Emerging Coastal Flood Hazards



South Florida COMPREHENSIVE ECONOMIC DEVELOPMENT STRATEGY 2012-2017

The South Florida Regional Planning Council was designated an Economic Development District (EDD) by the Economic Development Administration (EDA) in May, 1994.

Update for next 5 years will be part of the Data Common!

- <http://www.sfrpc.com/CEDS/SouthFloridaCEDS2012-17.pdf>

Liberty City Economic Development and Urban Revitalization Project

- The Council is pleased to partner with Florida International University's Department of Public Administration to help guide class research projects for a graduate course on economic development. The students' class projects are focused on
 - **Education; Business & Economy; Transportation & Amenities; Health & Quality of Life; Civic Engagement; and Housing & Land Use in Liberty City**



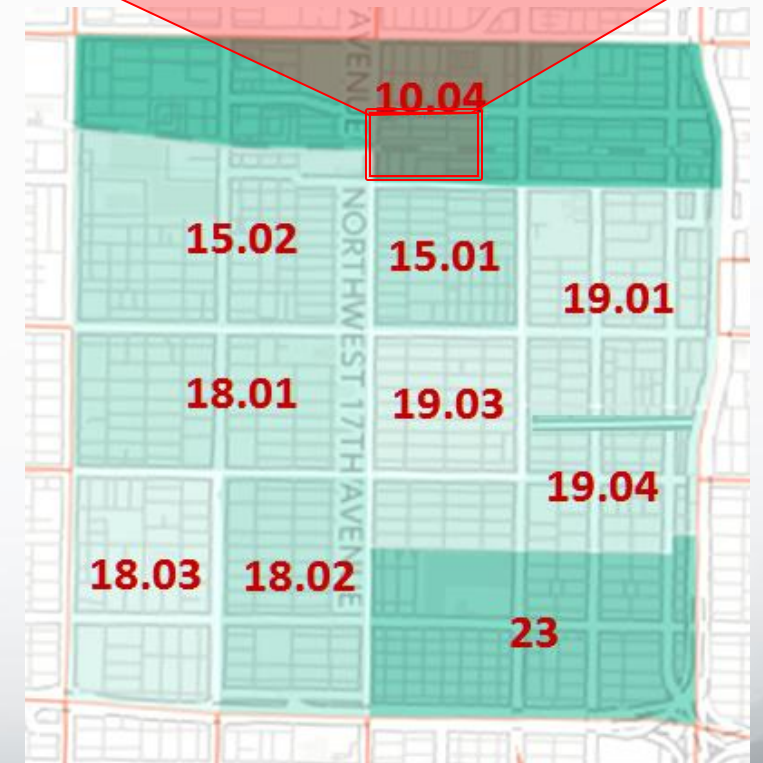
HOUSING & CRIME IN LIBERTY CITY, MIAMI

Summary of Findings

- Liberty City is a residential neighborhood of low income & minority residents
- It has significantly old housing stock and most residents rent
- 97% of households are severely cost burdened.
- While data shows a shortage of vehicles, the area is served by public transportation

Summary of Recommendations

- Housing is tied to job prospects & needs significant improvement
- Incentives required for maintaining and upgrading old housing
- Public housing rehabilitation is in process
- Crime control requires proactive screening during redevelopment



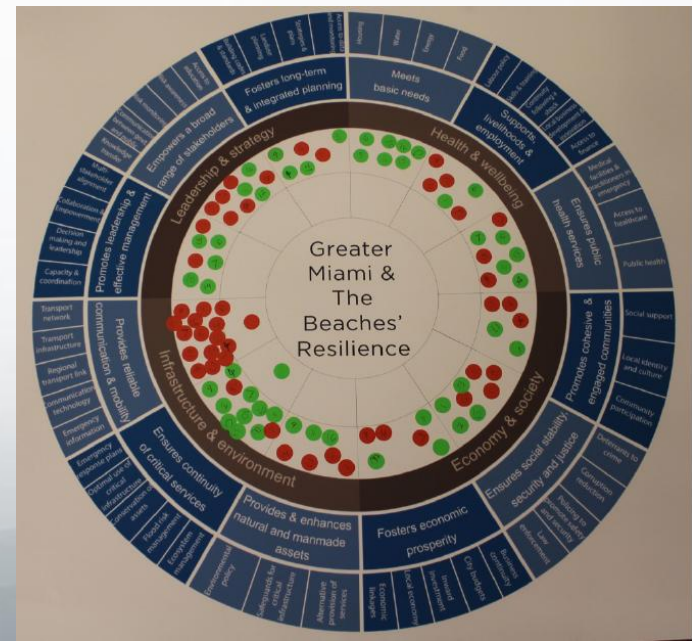
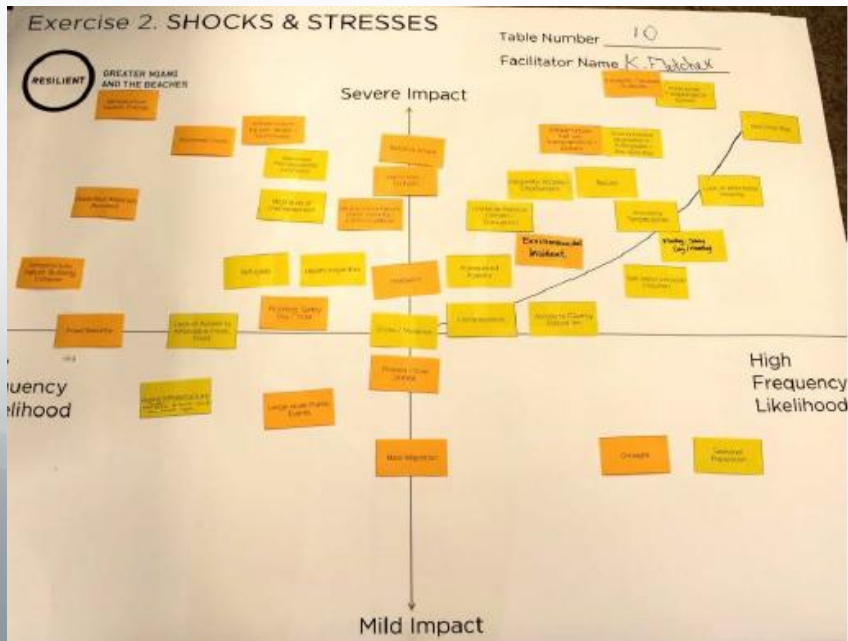
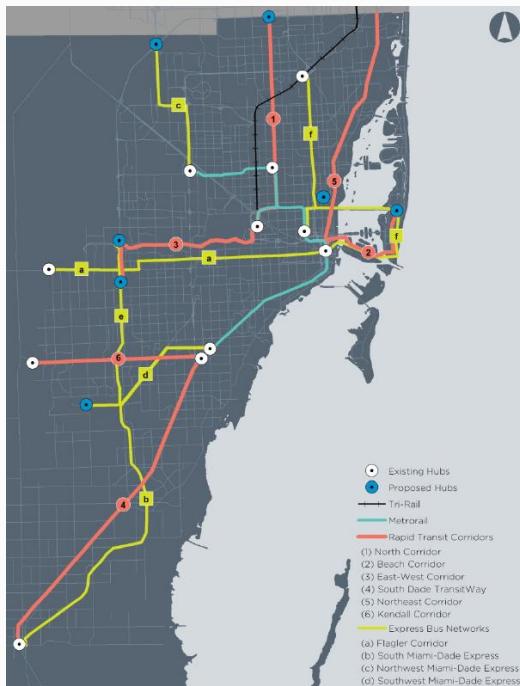


GREATER MIAMI
& THE BEACHES



WHO IS GREATER
MIAMI AND THE
BEACHES?

GREATER MIAMI AND THE BEACHES
RESILIENCE STRATEGY



PRIORITIZED SHOCKS AND STRESSES

Shocks

Hurricanes/Tornado (22%)

Economic Crash (11%)

Infrastructure Failure - Cyber Security/ Communications (9%)

Infrastructure Failure - Transport/ Access (9%)

Stresses

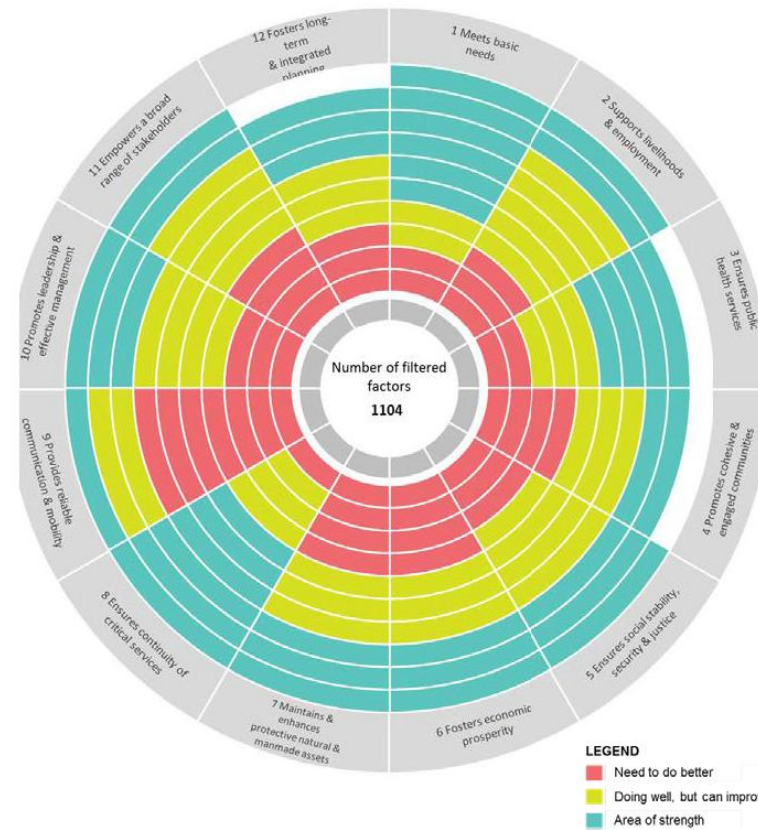
Inadequate Transportation System (15.5%)

Sea Level Rise (15.5%)

Aging Infrastructure (15.5%)

Lack of Affordable Housing (14%)

Access to Quality Education (7%)



RESILIENCE PRIORITIES

GM&B was selected as a member of 100 Resilient Cities in part based on priorities noted in their application:

Shocks

- Hurricane + Typhoon + Cyclone
- Infrastructure Failure
- Coastal Flooding
- Rainfall Flooding

Stresses

- Rising Sea Level + Coastal Erosion
- Overtaxed + Unreliable Transportation System
- Pronounced Poverty
- Lack of Affordable Housing

STRENGTHS AND WEAKNESSES

Strengths

Ensures continuity of critical services (21%)

Meets basic needs (14.5%)

Fosters long-term and integrated planning (10%)

Weaknesses

Provides reliable communications and mobility (31%)

Empowers a broad range of stakeholders (12.5%)

Supports livelihoods and employment (8%)

Ensures social stability, security and justice (8%)

Provides and enhances natural and manmade assets (8%)

Types of Inundation – All inundation is not the same!

Short Term (Episodic):

- Storm Surge
- Tsunami
- Inland Flooding
- Shallow Coastal Flooding

Long Term (Chronic):

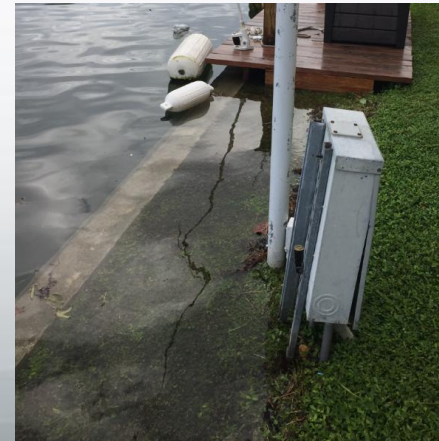
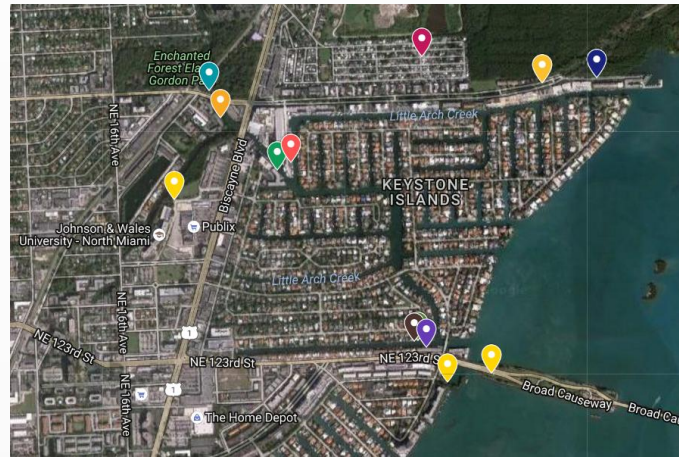
- Relative Sea Level Change



Ground-truthing modeled flood hotspots



Varied impacts of predicted flooding



Questions?

- Additional Resources can be found at:

<https://coast.noaa.gov/data/digitalcoast/pdf/adaptationguide.pdf>

https://www.epa.gov/sites/production/files/2014-04/documents/cre_synthesis_1-09.pdf

<http://www.climatestrategies.us/library/library/view/908>

Contact Information:

Keren Bolter kbolter@sfrpc.com

