UNIVERSITY OF MIAMI SCHOOL of ARCHITECTURE





RESILIENT REDESIGN III

SHORECREST, MIAMI CASE STUDY

2016 Resilient Redesign Workshop

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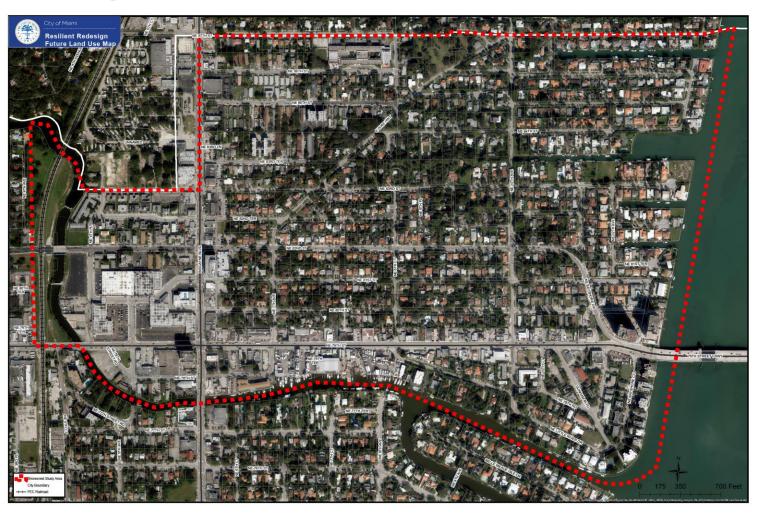
SHORECREST OVERVIEW

Neighborhood Profile

- Located in northeastern section of City of Miami
- Very low elevations
- Extremely vulnerable to flooding (tidal, storm surge, rain events)
- Mainly low-to-moderate income
- Single family homes; low income apartment buildings; some higher end homes on the Bay
- Generally older building stock
- Demographically diverse
- No major planned redevelopment

SHORECREST OVERVIEW

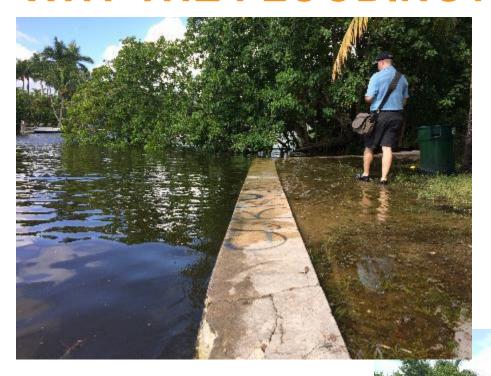
Aerial Map



- Any roadway below elevation 3.75' NGVD currently at risk for tidal flooding
- Several areas in neighborhood especially on south side at much lower elevations
- Old drainage system no backflow valves, no pumps
- No/little living shorelines
- Sea level rise!

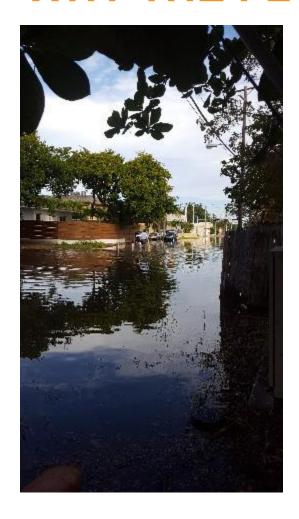
Elevation









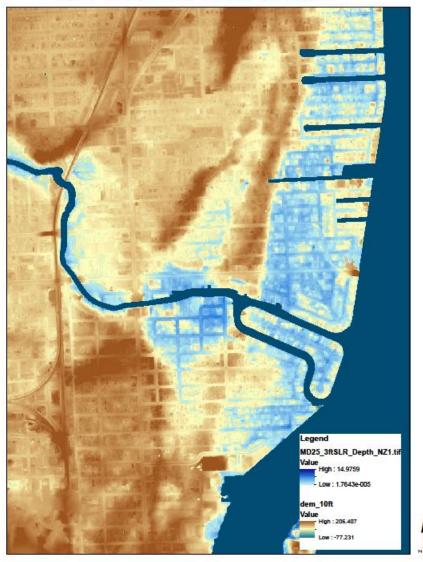






SEA LEVEL RISE

Areas impacted by 3' of sea level rise



- SLR exacerbates tidal and rain flooding events.
- Frequency of flooding events is increasing.
- Potential
 catastrophic
 situation with
 storm surge
 occurring at high
 tides!

- Damage to property and vehicles
- Immobility of many residents (esp. lower income)
- Further compromising of aging infrastructure
- Hidden hazards in flood waters
- Potential disruption of critical services and systems
- Discharge into Biscayne Bay

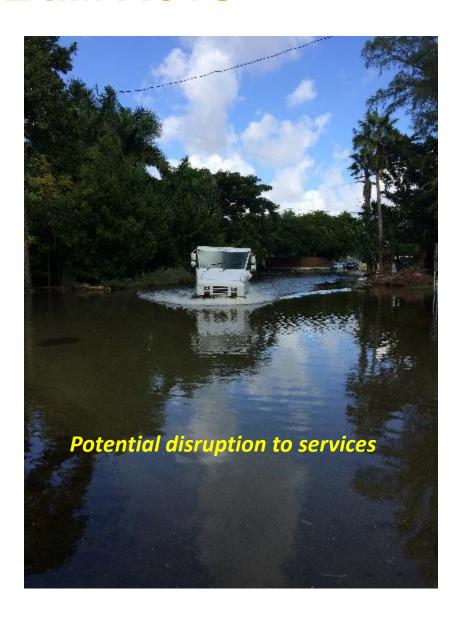


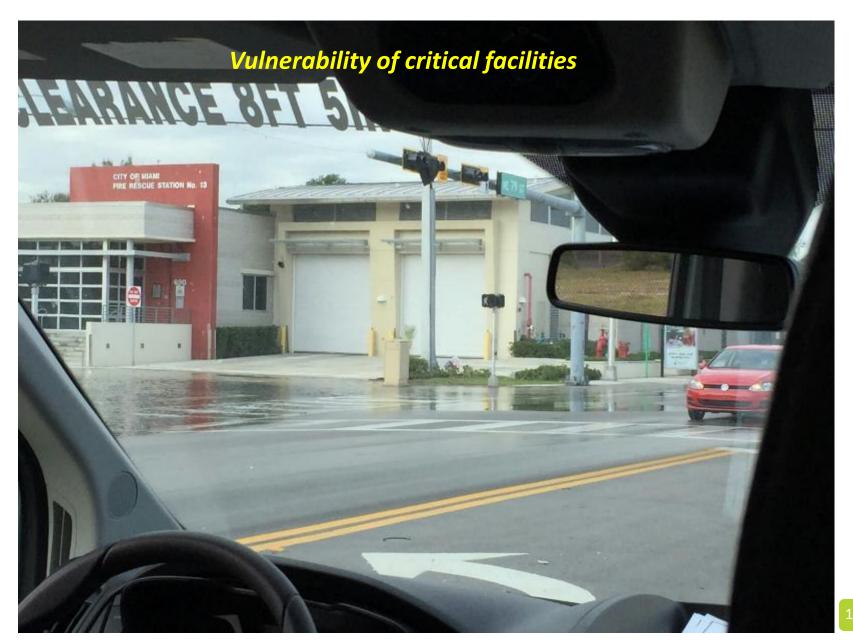












POTENTIAL SOLUTIONS

- Near, mid and long term solutions needed
- Upgrades to drainage system
- Raising Roads?
- Upgrade hard infrastructure, pumps, sea walls?
- Retrofit homes?
- Natural systems and green infrastructure with co-benefits?

URGENCY

 For many the impacts of Climate Change are incremental and are seen more as future concerns.

 For Shorecrest the situation is clear, present and urgent.







THANK YOU

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