South Florida Resilient Redesign Workshop Summary
Site Overview

- City of Dania Beach
  - Population ~ 30,000
  - $44,500 median income

- East Dania Beach Boulevard is main corridor

- Economy depends on
  - Tourism - beach
  - Marine industry
  - Small business
Characteristics

Multi-family/ Small Business/ Jai Alai

Historic

Small Business

Evacuation Route

Commercial Corridor
Natural Infrastructure

Dania Beach

West Lake Mangrove Wetland
Site Topography

Elevation in Feet NAVD

~11’  ~6’  ~7’  ~1’  ~6-7’

Storm Surge Limit
Team Focus

- Underutilized assets & economic opportunities
  - Natural infrastructure (beach and wetlands)
  - Airport (new runway)
  - Rail passenger transport
  - Port expansion
  - Population growth (40%)

- Flood hazards
  - SLR, surge, rainfall

- Limited infrastructure resilience
Vulnerability to Climate Change

2 Feet Sea Level Rise (30-70 year projection)

3 Feet Sea Level Rise (50-150 year projection)

Flooding
Design Concepts

Urban: East Dania Beach Boulevard
Urban Densification at City Center

- City Center
  - Vertical expansion
  - Invest along ridge
  - Evacuation shelter
  - Layered design

- Marina Expansion
  - Build adaptively
  - Hotel area
Enhancement and Multi-purposing of Natural Infrastructure

- Resiliency Center and Wetland Bike Path
- Mangrove restoration
- Dune (barrier island) enhancement with underground parking
- Reef enhancement
Flood Control

- Polder
  - Raise perimeter roads to act as levees
  - Add pump system
  - Incorporate canals
Interconnectivity
Team Recommendations

- Consider regional context
- Develop long term plan with strategic approach
  - Decision making process
  - Community engagement
- Consider temporal scale of planning
- Develop a roadmap

- Use concepts as inspiration!
Implementation of Prototype

• Urban communities in South Florida
  ▫ Strategic investment and densification in dry areas
  ▫ Maximize potential economic opportunities to facilitate resilient redesign of infrastructure
  ▫ Integration of natural infrastructure
  ▫ Active flood control of low lying areas where and when feasible
Next steps

- Idea refinement process
  - Resilient redesign is an evolutionary process
  - Cultivate agreement upon a shared vision
  - Seize moments of opportunity

- Follow-up workshop with local officials
  - Get officials to champion concepts
  - Local implementation strategies

- Design concept outreach
  - Booklet/ Brochure
  - Mini- design workshops for decision-makers

- Identify funding opportunities