South Florida Resilient Redesign II

Hollywood

7th Annual SE Florida Regional Climate Leadership Summit
December 3, 2015
Introduction: City of Hollywood

- Established in 1925
- 31 square miles
- 148,000 residents
- Economic Drivers:
  - Corporate headquarters,
  - Tourism,
  - Healthcare
Hollywood Vision

“Classic American downtown with an international accent”

“World class coastal destination”
Urban Design

Historic Downtown

Hollywood Lakes

Hollywood Beach Broadwalk

Modern
Organized Planning and Investments: Hollywood Master Plan
A Complex Landscape

- Diverse Socio-economics
  - Property values: $50K-$10M+
- Mixed Land Use
- Designated Historic Properties
- Low Land Elevations
  - Subject to flooding and surge

Inundation
2 feet SLR Rise
Planning Challenges

- Low elevations
- Older infrastructure
- Flooding
- Rising groundwater
- Rising sea levels
- Traffic congestion
- Beach Erosion

Images:
- Beach Erosion
- High Tide Flooding
- Storm-induced Flooding
In 45 years things can radically change...
...and now they are changing at an even more accelerated rate.
Focused on Community
A Destination Today and Tomorrow
Hollywood: Resilient Design Concepts

- Invest in Transit
- Capitalize on Redevelopment
- Enhance Natural Infrastructure
- Integrate Water Management
- Provide Resilient Broadwalk
- Invest in Transit
Holistic Water Management Approach

- Infrastructure connectivity
- Wetland rehydration and enhancements
- Roadways as drainage conduits (green streets)
- Construction of a Hydric Park
- Repurposing of ocean outfall for floodwater discharges
Water Management Detail

- Raise sea walls
- Install pumps
- Raise and reduce road width for storage
- Redirect tidal and stormwater to lined hydric park
- Actively discharge tidal/storm water via outfall
Neighborhood Resilience Strategy

- Elevate converted one-way roads
- Create brackish bioswales
- Install grated driveways for residential access
- Incentive/require additional on-site storage
Hydric Park and Center: Mid-term flood mitigation

Concept:
- Repurpose golf course
- Berm and line for water storage
- Create natural area /wetland
- Provide public use
Hydric Park Features

- Expanded downtown district
- Edge amenities
- Combined art, entertainment and natural areas
Hydric Park Possibilities

Urban Wetlands Park – Nugegoda, Sri Lanka

Turenscape – Qunli China
The Tan-Line: Connecting Hollywood to the Beach

- North Beach Park Loop
- Hollywood Community Center Loop
- Sheltered Station w/Parking
Hollywood Beach Resilience Strategy

- Enhance beach and dunes
- Transition broadwalk, structures, and transportation
- Create 10 foot dune to protect the existing broadwalk

Investing in the Broadwalk
Resilient Beachscape

Intracoastal Promenade

Barrier Island

Elevated Broadwalk

Intracoastal

Dunes
Resiliency Features and Strategy

- Establish protective dunes
- Enhance beach
- Guide resilient redevelopment
- Transition to elevated Broadwalk and infrastructure
- Connect to elevated “Tan Line”
Resilient Redesign Strategy

• **Short-term**
  ▫ Sea walls and pumps
  ▫ Roads, storage, and bioswales

• **Mid-term**
  ▫ Transition ground floors
  ▫ Connectivity
  ▫ Address intracoastal

• **Longer-term**
  ▫ Complete hydric park
  ▫ Expand transit hubs
A Workable Vision for Hollywood

- Green Landscape
- Increase Storm Protection
- Integrated water storage and redistribution

- Repurposing of infrastructure
- Compatible with existing land uses
- Multi-modal emphasis
- Diverse co-benefits
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