

South Florida Resilient Redesign II

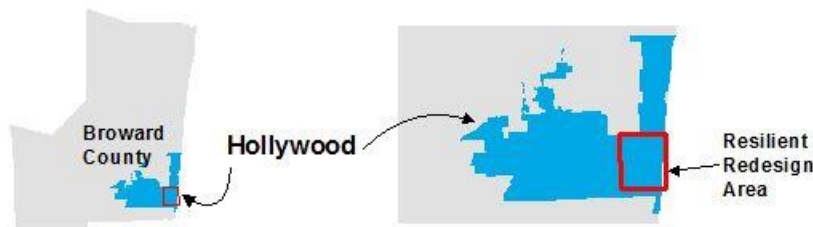
Hollywood

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



Urban Design



Historic Downtown



Hollywood Beach Broadwalk

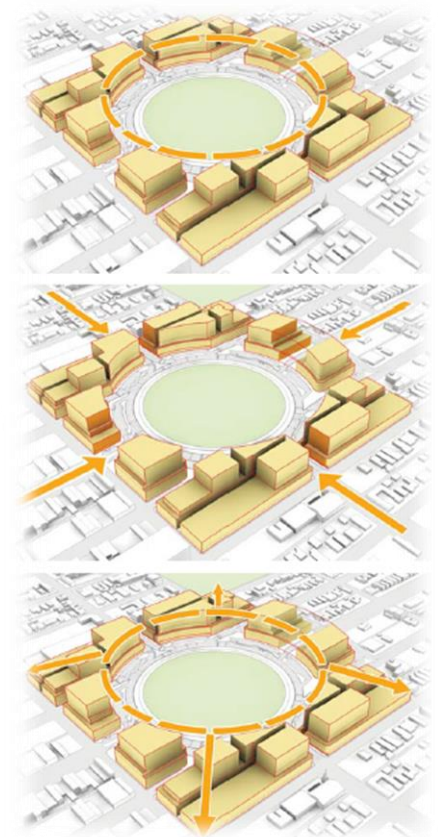
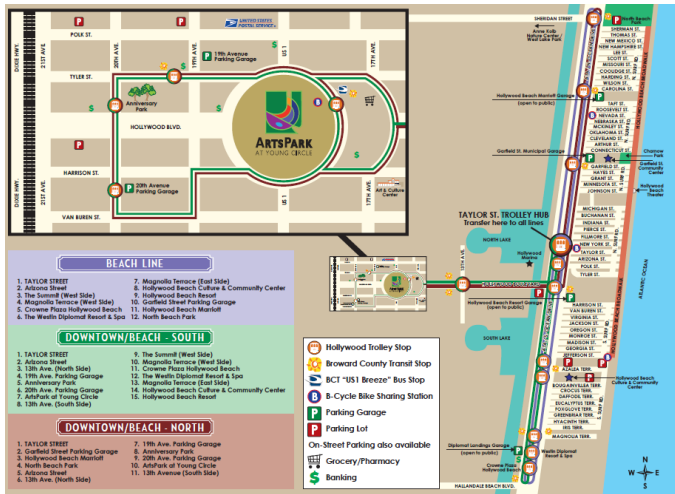


Hollywood Lakes



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

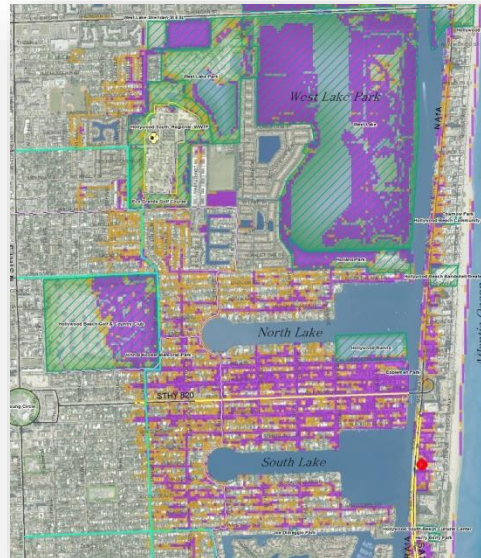
Property Age



Actual Year Building was Built



Inundation
2 feet SLR Rise



Planning Challenges

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



Beach Erosion

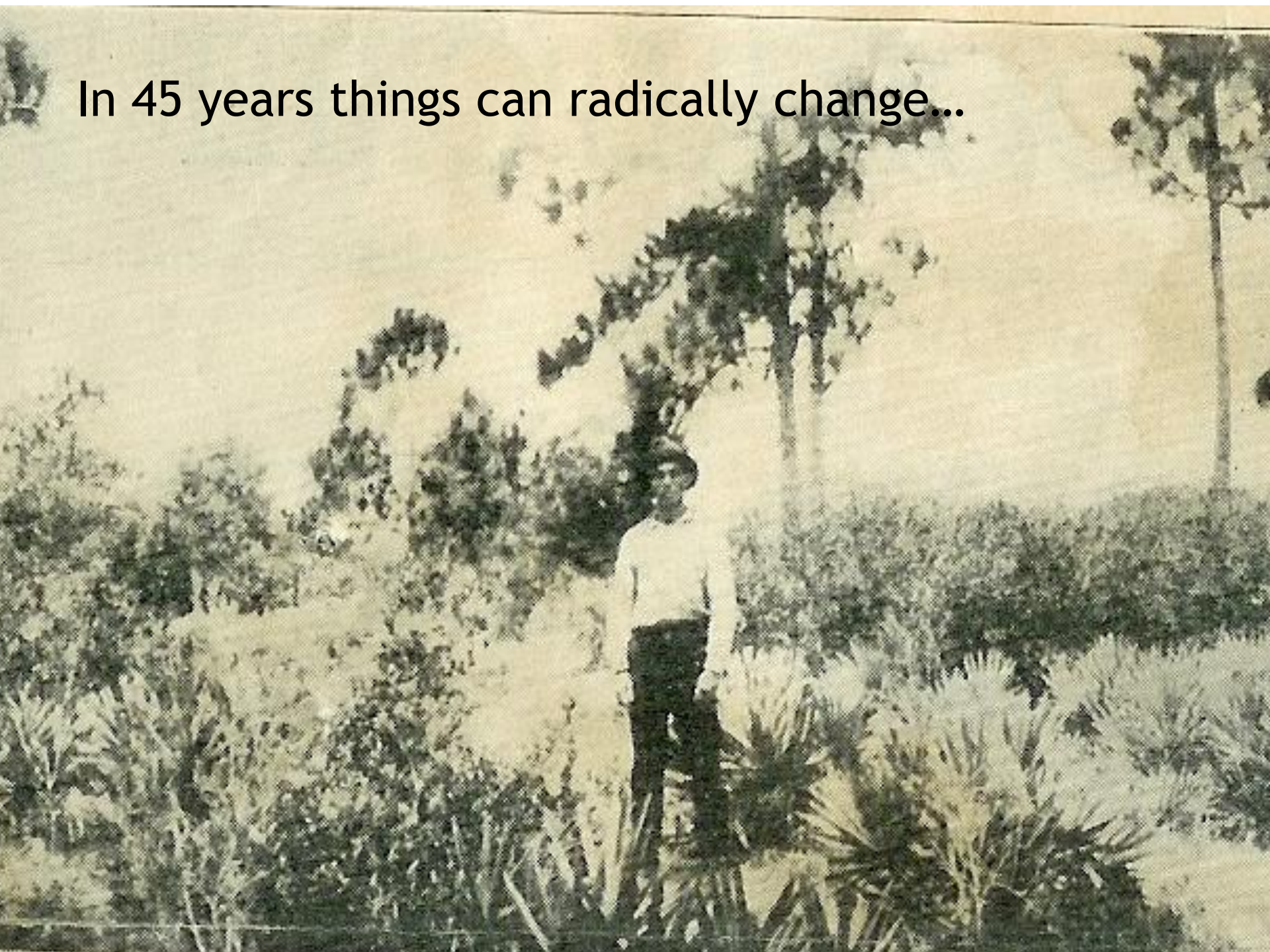


High Tide
Flooding



Storm-induced
Flooding

In 45 years things can radically change...



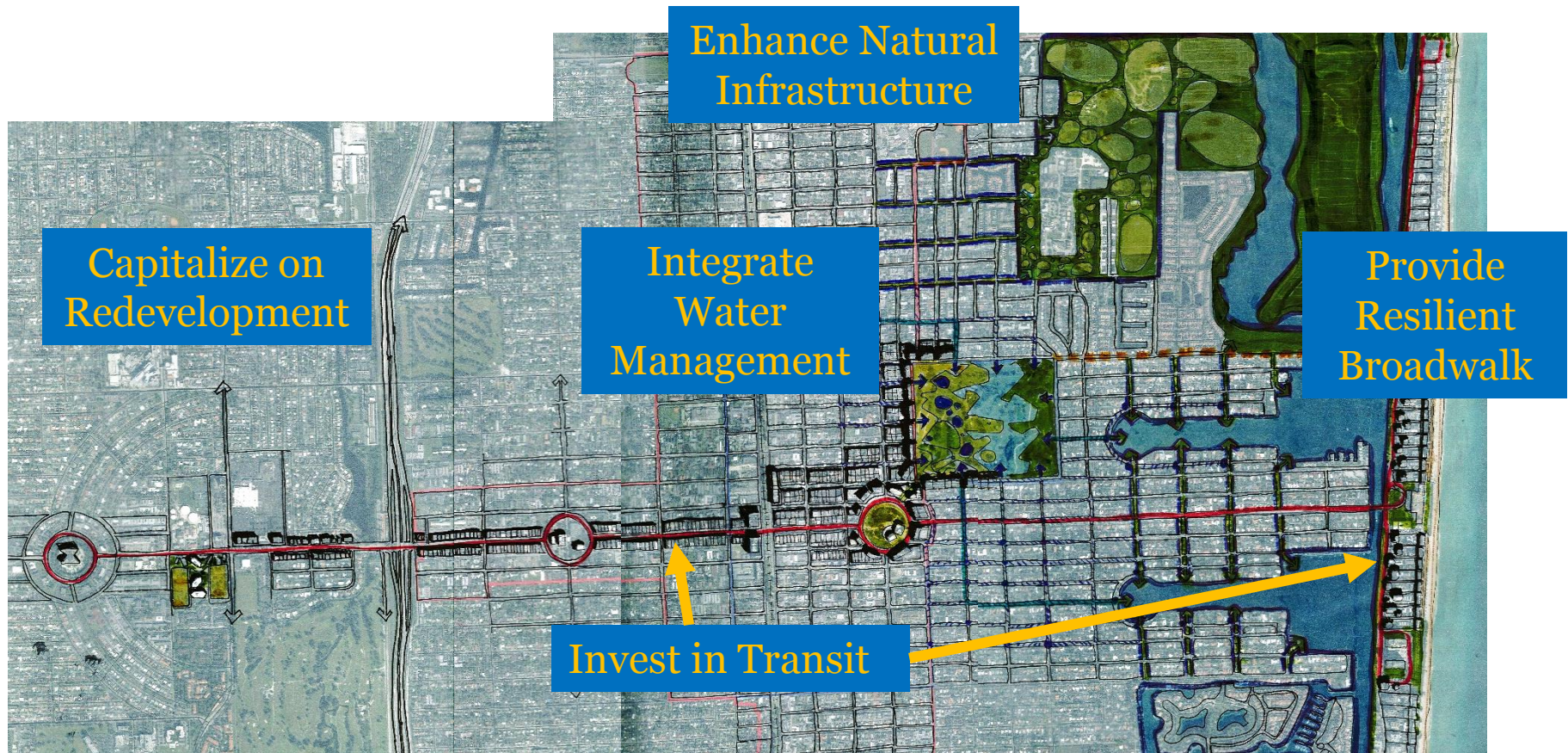
...and now they are changing at an even more accelerated rate.





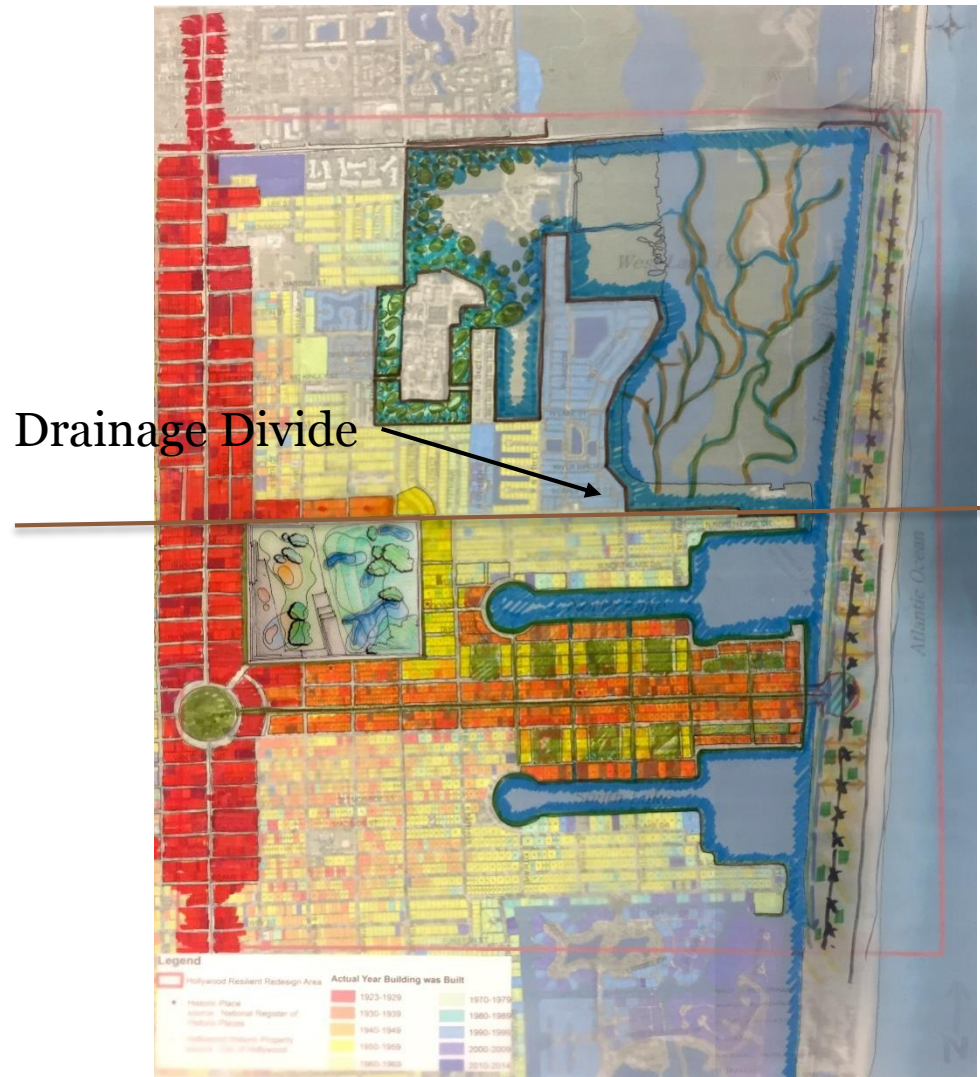
Focused on Community
A Destination Today and Tomorrow

Hollywood: Resilient Design Concepts



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



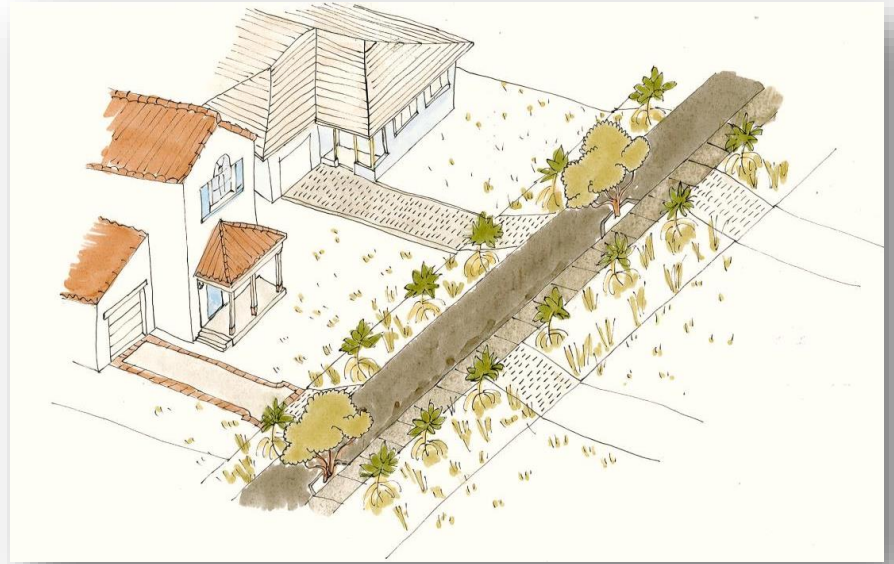
Water Management Detail

- 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

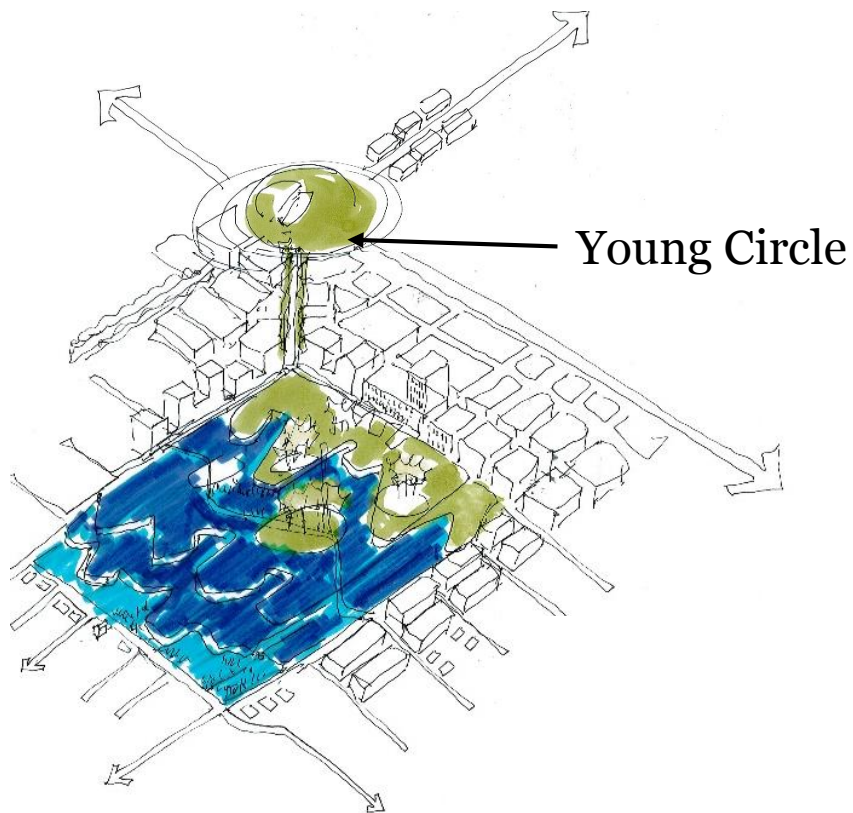
- Elevate converted one-way roads
- Create brackish bioswales
- Install grated driveways for residential access
- Incentive/require additional on-site storage



Hydric Park and Center: Mid-term flood mitigation

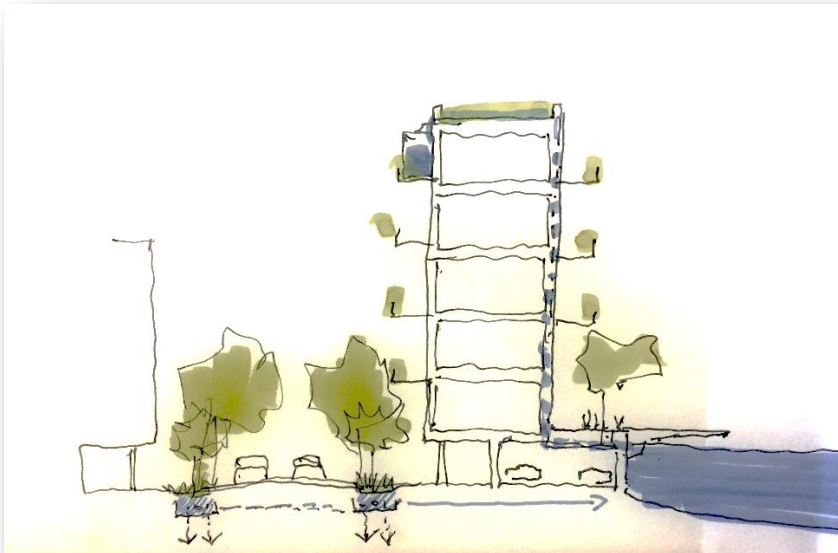
Concept:

- 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



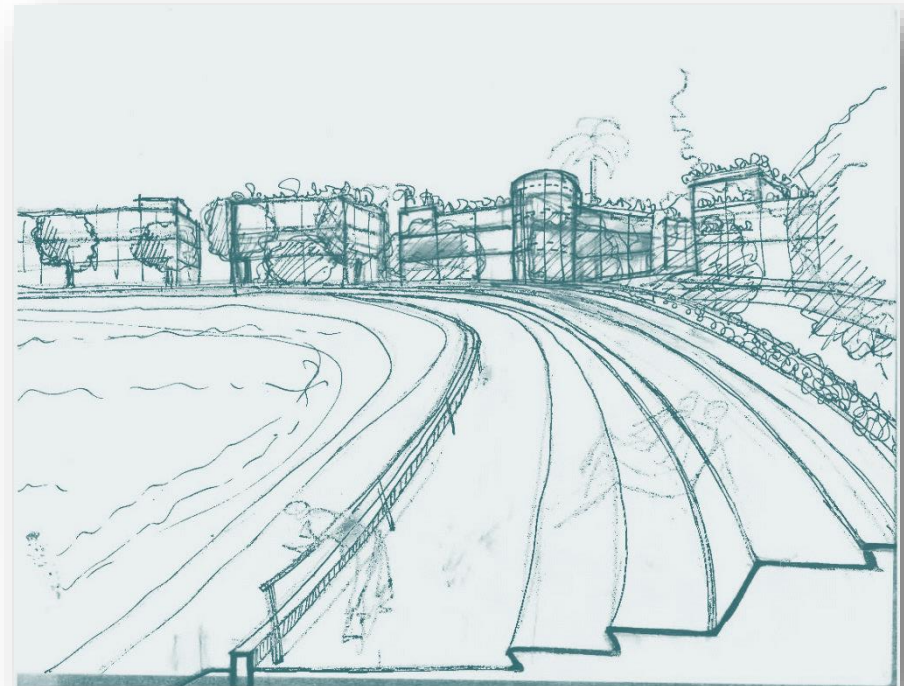
Hydric Park Possibilities



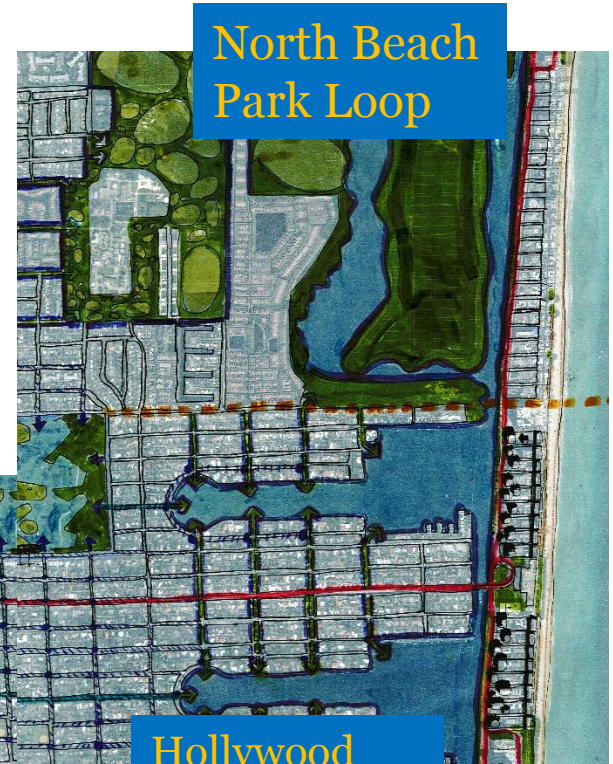
Urban Wetlands Park – Nugegoda, Sri Lanka



Turenscape – Qunli China



The Tan-Line: Connecting Hollywood to the Beach



Sheltered
Station w/
Parking

Hollywood
Community
Center Loop

Investing in the Boardwalk



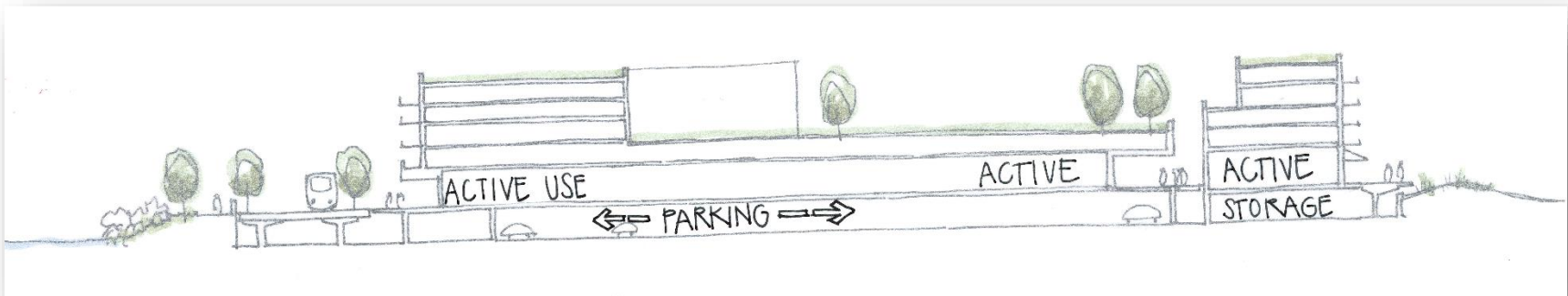
Resilient Beachscape



Intracoastal Promenade



Elevated
Broadwalk



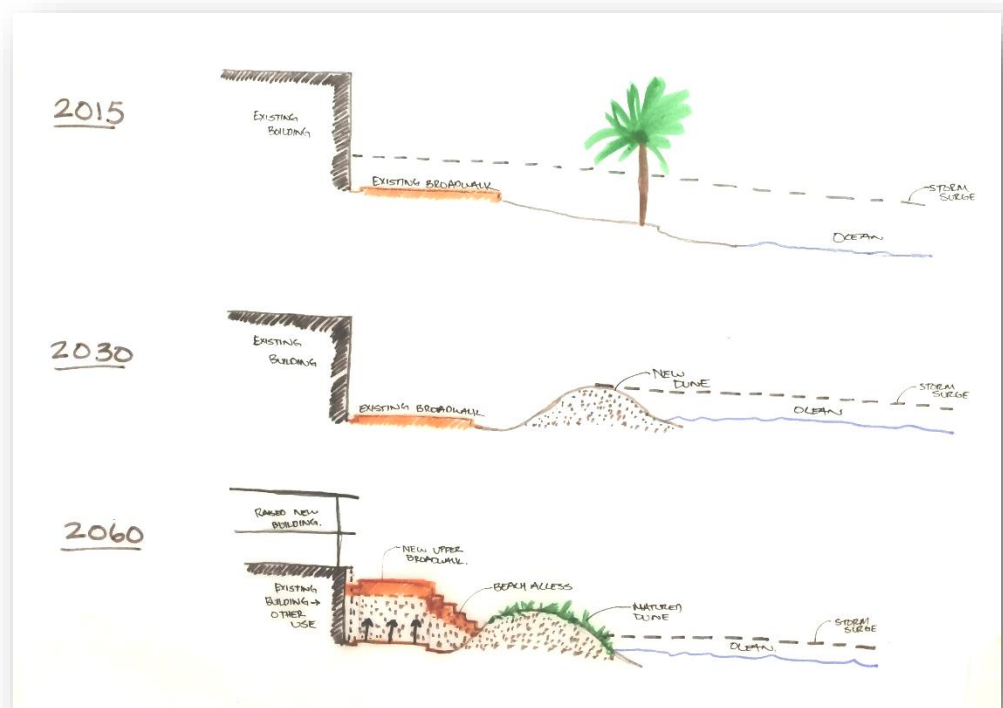
Intracoastal

Barrier Island

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

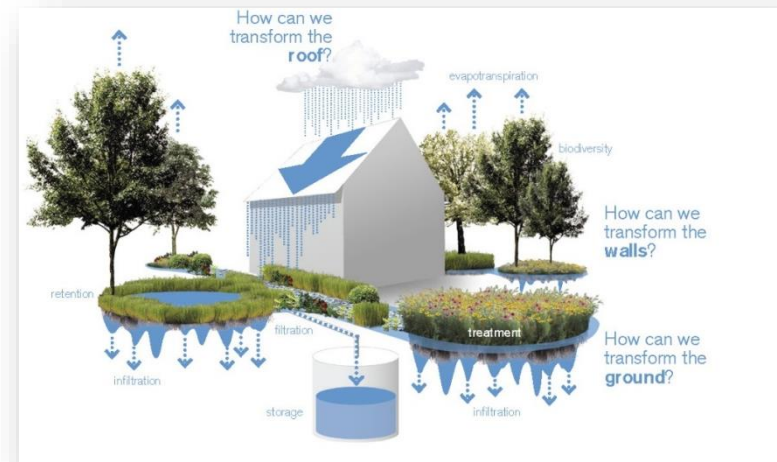
- Sea walls and pumps
- Roads, storage, and bioswales

- Mid-term

- Transition ground floors
- Connectivity
- Address intracoastal

- Longer-term

- Complete hydric park
- Expand transit hubs



Intracoastal seawall

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



Thanks to Team Members

- Samantha Danchuk, Broward County –Site Coordinator
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