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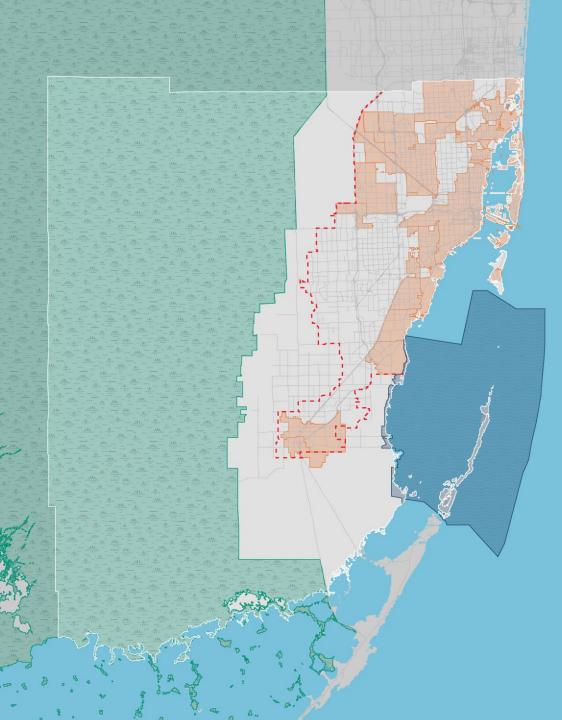




Sea Level Rise Flood Mitigation for Miami-Dade County's Waterfront Parks

Joe Cornely, Assistant Director Planning, Design & Construction Excellence at Miami-Dade County Parks, Recreation, and Open Spaces Jannek Cederberg, PE, President, Cummins Cederberg, Inc.

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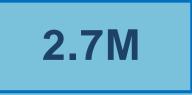




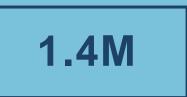
Square Miles Total County Area



Incorporated Municipalities

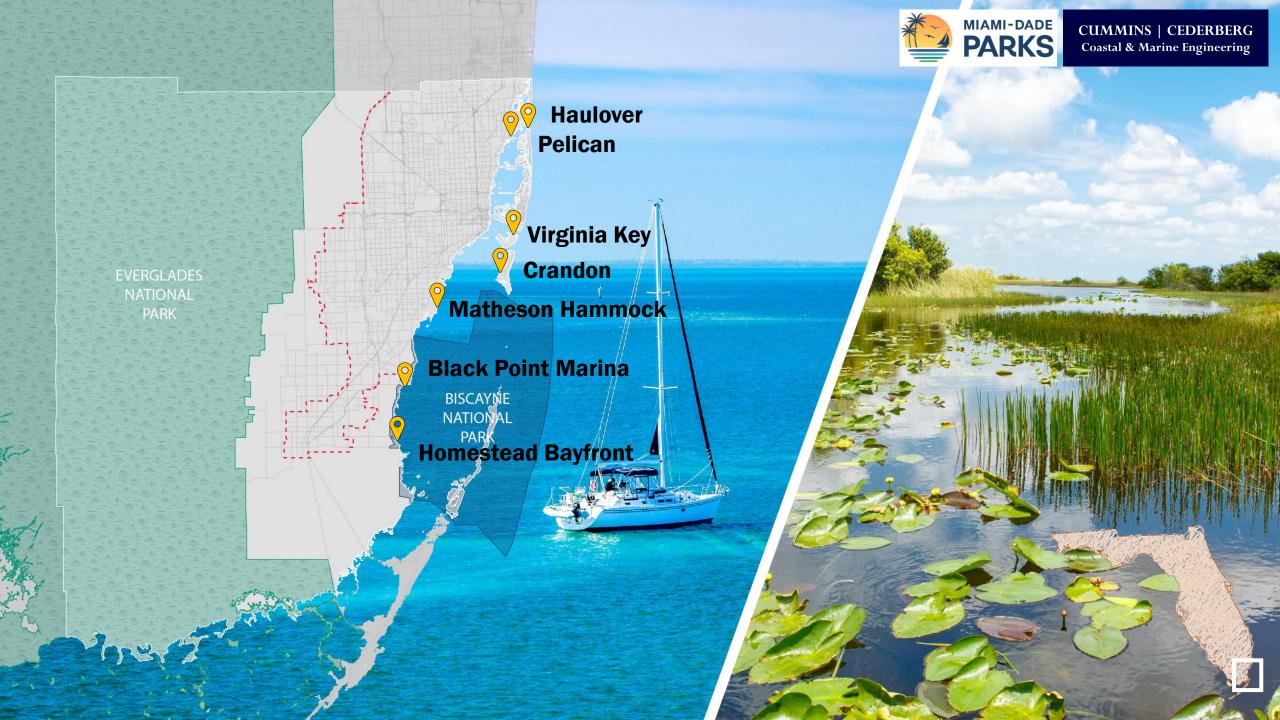


Estimated County Population



Unincorporated County Residents







Largest Accredited Park System in U.S.



Parks

260+



Acres of Passive, Active, and Environmentally Endangered Land

6



Miles of Greenways and Blueways



Heritage Parks





Campgrounds



Special Taxing District Folios



Miles of Beaches



Natural Atoll Pools



Zoo Miami



Fields and Courts

Marinas

2

Causeway Linear Parks



Nature Centers



Recreation Centers



Pools



Transit Facilities Maintained



Trail Glades Range



Golf Courses

Typical Park Elements



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- Roadways
- Parking Lots
- Seawalls
- Buildings
- Marinas
- Boat Ramps
- Beaches
- Trails
- Golf Course
- Historic Landmark Structures



Deering Estate







Typical Photos



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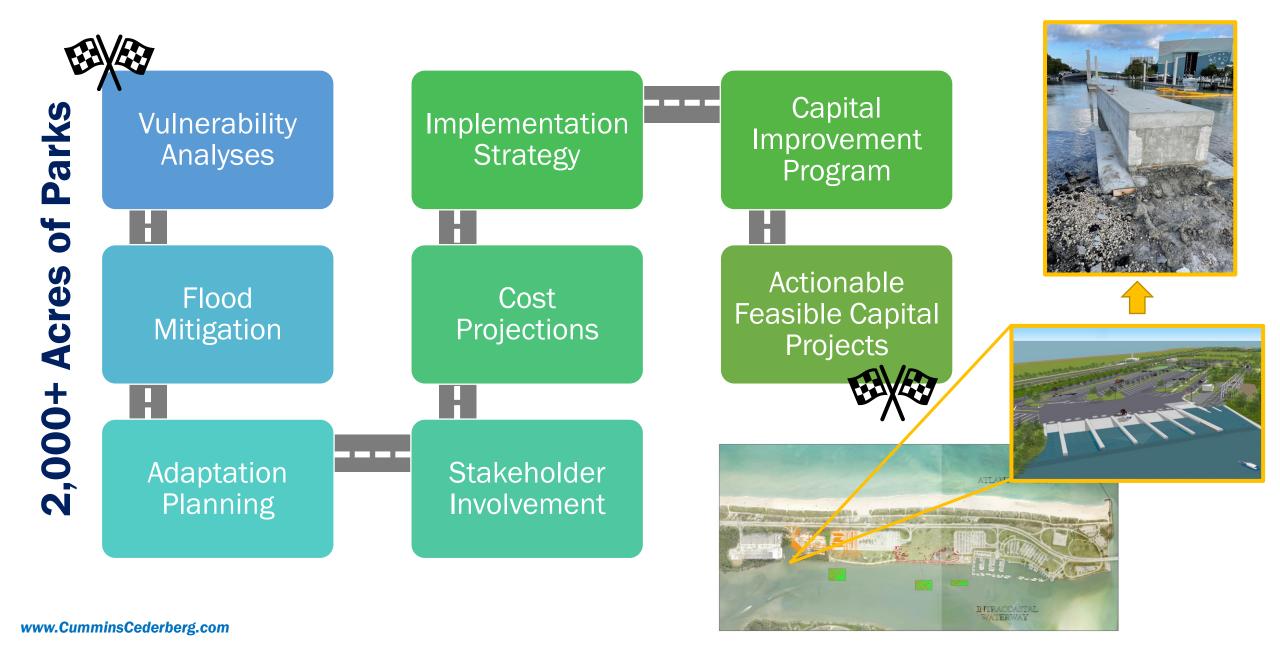




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Plan Components





Outcome



Actionable Plan:

- ✓Concepts
- ✓ Construction Cost
- ✓ Smaller Separate Projects
- ✓ Phasing of Projects by Decade
- Positioning Projects for Grants



Progress To Date



- ✓ Significant grant contributions
- ✓ 2 Coastal Construction Projects
- ✓ 28 Active Design Projects
- ✓ 35 Future Projects Funded
- Majority of design projects are under smaller continuing service contracts
- Miscellaneous Construction Contract (MCC) Program
- Overall Plan tying all projects together







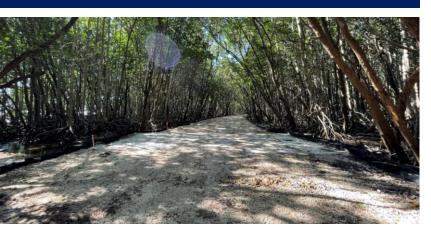


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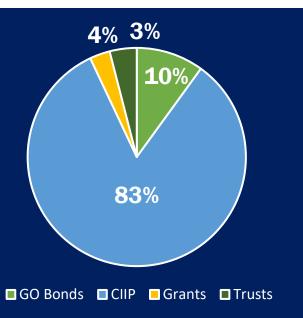


Funding & Grants



Overall Funding

- ✓ General obligation
 bonds 10%
- Countywide
 Infrastructure
 Investment Program
 (CIIP) 83%
- ✓ Grants 3%
- ✓ Trusts 4%



Total Grants - \$45M Active Grants - \$21M

- ✓ Florida Division of Emergency Management (FDEM) Hazard Mitigation Grant Program
- ✓ Florida Department of Environmental Protection
- ✓ Florida Department of Transportation
- ✓ Florida Inland Navigation District







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Joe Cornely

Assistant Director Planning, Design & Construction Excellence Miami-Dade County Parks, Recreation, and Open Spaces





Jannek Cederberg, PE President Cummins Cederberg, Inc.



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