

# Key Biscayne - Who We Are

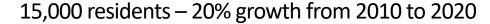


**Key Biscayne is a vibrant, residential community** on a seven-mile-long, two-mile-wide barrier island only minutes from downtown Miami. It is on the southernmost barrier island in the United States and the community enjoys a high quality of life, a thriving commercial district, and a increasingly resilient environment. Incorporated in 1991, the Village of Key Biscayne celebrated its 30th anniversary in 2021.

The diverse, active and highly engaged population has a median household income of \$151,410; while the average home value ranges above \$1.2M.









1,300 single family homes/duplexes



7,500 condominium units



1,000+ business and professional licenses



7,000,000+ visitors per year



### Our Vision for the Future



Our vision for Key Biscayne has been thoughtfully coined "Elevating our Island Paradise." We will continue to build a vibrant community with a high quality of life, a strong sense of place, a thriving commercial district and a resilient environment.

Working together our residents and the Village are united to enhance our infrastructure and are committed to building a stronger, more resilient future.









### What Are Our Risks?



#### **Threats**

Rainfall induced flooding

Tidal and ground water flooding

Sea-level rise

Storm surge

Coastal erosion

Wind



### **Vulnerabilities**

Low lying island
Unprotected shorelines
Aging stormwater systems
Exposed infrastructure
Limited space to build
Haphazard previous work
Incompatible regulations



#### Risks

Increase in property damage
Decrease in property values
Rise in insurance costs
Decrease in insurability
Decline in economic activity
Surge in infrastructure cost with a decreasing tax base



### Our Commitment to our Residents

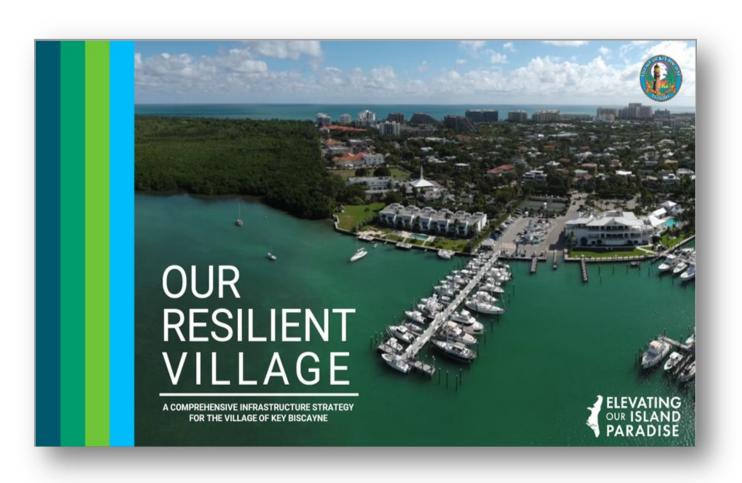




### Our Commitment to our Residents



- Develop a comprehensive infrastructure plan that **protects our way of life**
- Plan and execute projects to minimize disruption
- Focus on solutions to preserve our environment and provide multiple benefits
- Develop partnerships to include the **best** talent and best practices
- Clearly communicate with our residents and meaningfully include them in the conversation
- Pursue external funding to maximize the investment in our community



### What We Have Accomplished to Date



- Analyzing existing conditions to prioritize improvements
- Completed Village-wide LiDAR survey to measure elevations
- Designing the K-8 School Stormwater Basin upgrade
- Working with USACE for a Beach & Back Bay Feasibility Study
- FPL designing electrical undergrounding
- Crafting a JPA with Miami-Dade Water & Sewer Department
- Creating a seawall ordinance
- Developing streetscape design standards
- Executing immediate flood control and mitigation projects





## Moving Forward



#### Resilient Infrastructure & Adaptation Program 5 Lines of Effort:



**Shoreline Protection** 



Stormwater System Upgrade



**Roadway Improvements** 



**Utility Hardening and Resilience** 



Changes to Codes, Plans, Zoning and Building Standards

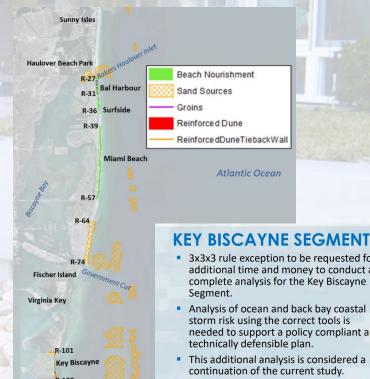




# Shoreline Protection (Oceanside and Bayside)



- Post Hurricane Ian/Nicole beach replacement → FDEP BMFAP
- Oceanside shoreline protection (1.2 miles) → pursuing inclusion in the Army Civil Works FY23 Work Plan
- Biscayne Bay shoreline protection (6.9 miles)
  - USACE FRM Back-Bay Study → requires waiver
  - Seawalls and living shoreline ordinance(s)
- Northwest village boundary protection (.4 mile) → partner with Miami-Dade County
- Southwest village boundaries protection (.6 mile) → partner with Florida DEP



- 3x3x3 rule exception to be requested for additional time and money to conduct a complete analysis for the Key Biscayne
- Analysis of ocean and back bay coastal storm risk using the correct tools is needed to support a policy compliant and technically defensible plan.
- This additional analysis is considered a continuation of the current study.



## Stormwater Systems upgrade



- Install pumps and pipes
- Include swales gray and green solutions
- Harmonize with private property
- Increase water storage
- Improve outfalls
- Enhance water quality
- Include sensors and consider maintenance

