

1. Project Title

The Florida Senate **Local Funding Initiative Request**

Fiscal Year 2023-2024

LFIR # 2639

2. Senate Sponsor	Alexis Calatayud				
3. Date of Request	02/21/2023				
4. Project/Program D	escription				
the Village of Key B Key Biscayne is a lo flooding. The FSHC Analytic Solution that systems to quickly umonitoring data and	dispanic Chamber of Comme iscayne, to build a Stormwat ow-lying coastal community r C is seeking to work with the at uses large volumes of histunderstand the current storm I analytics to predict impacts wareness for emergency restion across FL	er Manager iddled with Village of I orical data f water floodi to help miti	ment Predictive Anal Stormwater Infrastru Key Biscayne to pro- from weather system ing environment and gate impacts by perf	ytic Solution Pilot Piloture issues as a revide a Stormwater Mas and data collected predict. This Solution forming analytic ass	rogram. The Village of esult of immense Management Predictive d by water level sensors on will utilize sensor essments in support of
5. State Agency to re	ceive requested funds	Departme	ent of Environmental	Protection	
State Agency conta	acted? Yes				
6 Amount of the Non	recurring Request for Fisc	al Vaar 202	2 2024		
		ai i c ai 202			I
Type of Funding			Amo		
Operations				3,000,000	
Fixed Capital Outlay				0	
Total State Funds	Requested			3,000,000	
7. Total Project Cost	for Fiscal Year 2023-2024 (i	including n	natching funds ava	ilable for this proje	ect)
Type of Funding			Amount	Percentage	
Total State Funds R	Requested (from question #6)		3,000,000	100%	
Matching Funds					
Federal			0	0%	
State (excluding the	amount of this request)		0	0%	
Local		0	0%		
Other		0	0%		
Total Project Cost	s for Fiscal Year 2023-2024		3,000,000	100%	
8. Has this project pr	eviously received state fur	nding?	No		
Fiscal Year (yyyy-yy)	Amount Recurring Nonre	curring	Specific Appropriation #	Vetoed	

FSHCC - Stormwater Predictive Analytic Solution Pilot

b. Describe the source of funding that can be used in lieu of state funding.

9. Is future funding likely to be requested?

a. If yes, indicate nonrecurring amount per year.

The Village of Key Biscayne can seek local funding from Miami-Dade County, and federal funding from EPA, FEMA, and DHS.

Yes

500,000



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No If yes, indicate the amount	nt of funds received and what the	unds were used for.	
Complete questions	11 and 12 for Fixed Cap	ital Outlay Project	s
11. Status of Construction			
a. What is the current pha	se of the project?		
OPlanning ODesign	Construction		
b. Is the project "shovel r	eady" (i.e permitted)?		
c. What is the estimated s	start date of construction?		
d. What is the estimated of	completion date of construction?		
	cility to receive, directly or indirect owners of the facility and the ent		ay funding. Include the

13. Details on how the requested state funds will be expended

Spending Category	Description	Amount
Administrative Costs:		
Executive Director/Project Head Salary and Benefits		0
Other Salary and Benefits		0
Expense/Equipment/Travel/Supplies/ Other		0
Consultants/Contracted Services/Study		0
Operational Costs: Other		
Salary and Benefits		0
Expense/Equipment/Travel/Supplies/ Other	Sensors to collect the data	200,000
Consultants/Contracted Services/Study	To design and develop the Stormwater Management Predictive Analytic Solution for an early warning detection system and advanced flood monitoring solution. This project proposal aims to improve overall situational awareness during traditional rain and flooding events with the ability to: Access and visualize all relevant data; Forecast future conditions; Improve forecasting models; Provide real-time tracking and alerts; and Improve situational awareness, flood resiliency, and stormwater managemen	2,800,000
Fixed Capital Construction/Majo	r Renovation:	
Construction/Renovation/Land/ Planning Engineering		0
Total State Funds Requested (m	ust equal total from question #6)	3,000,000



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14. Program Performance

a. What specific purpose or goal will be achieved by the funds requested?

To design and develop a pilot for an early warning detection system and advanced flood monitoring solution. This project proposal aims to improve overall situational awareness during traditional rain and flooding events with the ability to:

- Access and visualize all relevant data Quickly monitor and analyze relevant weather, environmental, sensor, and development data for modeling and insight generation.
- Forecast future conditions Identify weather and development trends that can provide timely insights regarding the magnitude of storm/rain/water events, the forecasted impact, and the location of flooding.
- Improve forecasting models Leverage real-time data sources with advanced analytics to improve situational awareness and enhance forecasting.
- Provide real-time tracking and alerts Automate early warning flood detection systems with real-time alerting capabilities for emergency responders.
- Improve situational awareness & flood resiliency -Analyze impacts.

b. What activities and services will be provided to meet the intended purpose of these funds?

- To design system architecture for a smart flood early warning detection system.
- To provide emergency responders with real-time predictive analytics.
- To develop models using machine learning to predict flood inundation levels.
- To evaluate and review the design of a smart flood early warning detection system using the initial sites of interest.
- To develop a flood inundation model powered by advanced analytics for historical analysis, event simulation, and real-time/forecasted flood inundation impact.

c. What direct services will be provided to citizens by the appropriation project?

Citizens will be positively impacted by their local governments' ability to react in real-time to flooding and stormwater events. During storm events, local municipalities will have visibility into water levels or how quickly water was rising. With the ability to predict flooding events, municipalities can reach out to their Public Works or Public Safety personnel, dispatching them to the scene to put up barricades, close roads, redirect traffic and respond to emergencies.

d. Who is the target population served by this project? How many individuals are expected to be served?

The citizens of the Village of Key Biscayne during the pilot phase, with ultimately the entire citizenry of Miami-Dade County during the full implementation of this project and the state of Florida.

e. What is the expected benefit or outcome of this project? What is the methodology by which this outcome will be measured?

Success factors include:

- Ensure sensors are providing accurate data.
- Automate the current manual flood detection process.
- Facilitate the development of analytic models to proactively predict flood events, enabling to provide early warning and supporting proactive road closures that will better serve the citizens.

f. What are the suggested penalties that the contracting agency may consider in addition to its standard penalties for failing to meet deliverables or performance measures provided for the contract?

Suggested penalties include withholding payments, barring third party technology firms from doing business with the State of Florida, and potential financial penalties owed to the State.

15. Requester Contact Information

a. First Name	Julio	Last Name	Fuentes
b. Organization	Florida State Hispanic Cha	amber of Co	nmerce
c. E-mail Address	julio@fshcc.com		
d. Phone Number	(561)889-6655	Ext.	



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16. Recipient Contact	Information		
a. Organization	Organization Florida State Hispanic Chamber of Commerce		
b. Municipality and	d County Miami-Dade		
c. Organization Ty	ре		
□For Profit Entity			
□Non Profit 501(c	2)(3)		
□Non Profit 501(c	2)(4)		
□Local Entity			
□University or Co	ollege		
☑Other (please sp	pecify) 501 (c)(6)		
d. First Name	Julio Last Name Fuentes		
e. E-mail Address	julio@fshcc.com		
f. Phone Number	(561)889-6655		
17. Lobbyist Contact I	nformation		
a. Name	Jonathan P. Kilman		
b. Firm Name	Converge Government Affairs of Florida, Inc.		
c. E-mail Address	jonathan@convergegov.com		
d. Phone Number	(305)423-4131		