

Business Case for Resilience for Southeast Florida

ECONOMIC MODELING CONSULTANT RFP

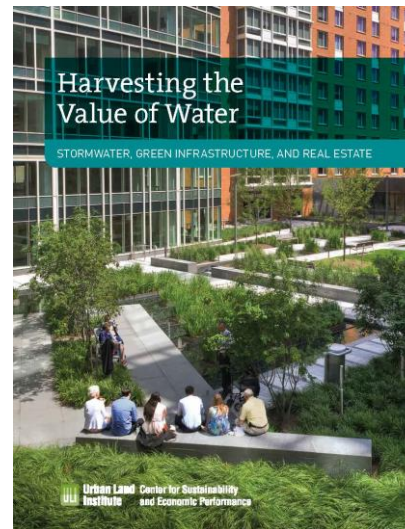
TUESDAY, NOVEMBER 5TH

Webinar Content

- Introduction to ULI, Urban Resilience Program, ULI SEFL District Council
- Business Case for Resilience in SE Florida project overview
- Economic Modeling Consultant
 - Tasks A - E
- Project Summary Schedule
- Scoring Criteria
- Key Dates
- Selection Process and Next Steps
- Audience Q&A: Please submit via Q&A box
 - All questions & answers from today's webinar and email outreach will be shared with all webinar participants.
 - Please reach out to add any colleagues' email addresses to circulation list if needed.
 - This webinar will be recorded and available publically.

Urban Land Institute

- Global membership of 46,000+ professionals in the real estate industries; members work in real estate development, planning, investment, design, land use policy, law, etc.
- Organization includes 50+ local District Councils in ULI Americas
- Mission is to provide leadership in the responsible use of land and in creating and sustaining thriving communities worldwide
- Membership offers a pragmatic, interdisciplinary, private sector approach and perspective



ULI's Urban Resilience Program

- Addressing how buildings, communities and cities can be more prepared for the impacts of climate change
- Program components:
 - Conducting Research
 - Advising Communities
 - Supporting Local-Level Resilience Work
 - Convening Leaders in Resilience



Arch Creek Basin Miami-Dade County, Florida

May 22–27, 2016



EXPLORING TRANSFER OF DEVELOPMENT RIGHTS AS A POSSIBLE CLIMATE ADAPTATION STRATEGY

Urban Land Institute Resilience Panel Focus Group with Miami-Dade County



Miami Beach Florida

April 16–19, 2018



Miami Florida

A ULI Advisory Services Panel Report

June 2–7, 2019



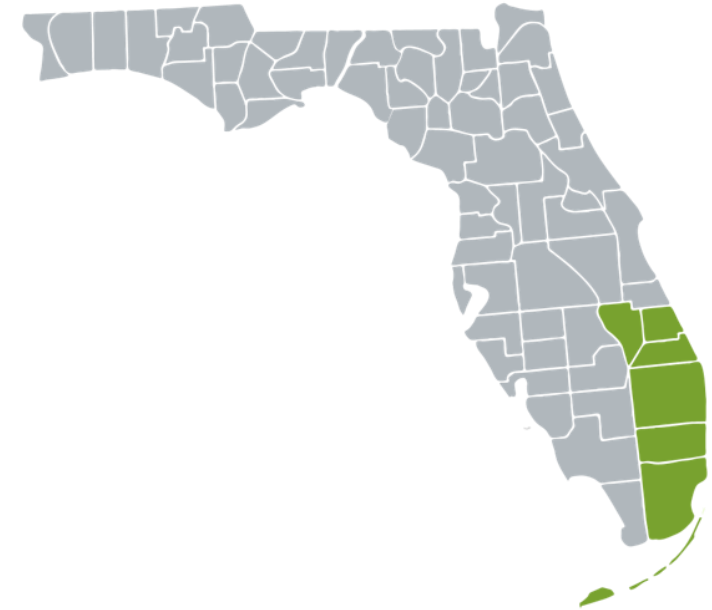
Urban Resilience Program SE Florida Projects



ULI SE FL District Council

ULI Southeast Florida / Caribbean covers the Southeast Florida and Caribbean region, including the four counties of the Southeast Florida Climate Compact:

- Monroe
- Miami-Dade
- Broward
- Palm Beach



ULI SE FL District Council

Our district has 1,150 members and over 3,000 active participants

Our members are: developers, planners, attorneys, contractors, designers, brokers, students, analysts, engineers, and more.



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Business Case for Resilience in Southeast Florida

Project Overview

- ULI is partnering with the Southeast Florida Regional Climate Change Compact to close the gap in regional economic evaluation of flood risk and exposure, specifically sea level rise.
- The project includes economic analysis, for which we are seeking an economic modeling consultant, as well as national research, outreach and communications.
- Funders/Partners
 - Florida DEP Grant
 - Broward, Miami-Dade, and Palm Beach Counties
 - Business Community
 - Philanthropy

Business Case for Resilience in Southeast Florida

Project Overview

- Project Team
 - ULI project staff from the Urban Resilience team (based in Washington, D.C.)
 - ULI project staff from ULI Southeast Florida & Caribbean (based in Fort Lauderdale)
 - Local project manager, Alec Bogdanoff (based in Fort Lauderdale)
 - Economic modeling consultant (and/or any sub-consultants)

- The project will explore
 - Economic risks of flooding and augmentation of risk due to sea level rise
 - Economic benefit of resilience action (function of risk reduction and avoided economic losses)
 - Economic opportunities associated with resilience investment
 - Recommended strategies to incentivize and improve resilience

Business Case for Resilience in Southeast Florida

Broader project & ULI role

- Industry & Community Outreach
 - Hosting consultation events and at least one ULI member workshop
 - Hosting launch and outreach events regionally and nationally
- National research
 - Examining how other cities and regions are using economic analysis to inform infrastructural decisions
 - Identifying other best practices and case studies Southeast FL can learn from
- Communications
 - Integrating the economic modeling consultants' findings into a report for an industry audience



Business Case for Resilience in Southeast Florida

Project Overview

- Findings from the project will be consolidated into a final report that will also include
 - Economic modeling analysis of climate risk and opportunities in Southeast Florida
 - Supplemental materials designed for multiple stakeholder audiences
 - National best practices seen in other cities seeking to quantify return on investment in resilience
 - Case studies
- Economic analysis of resilience investment will inform:
 - Recommendations for collaborative planning
 - Targets for economic resilience
 - Potential strategies for future infrastructure investment
 - Integration of this study with other resilience analyses
- **Goal: Create comprehensive evaluation of projections of return on investment in adaptation that specifically considers the risks of sea level rise, coupled with other flooding risks**

Economic Modeling Consultant

RFP Overview

- Location: Flexible, with some travel required
- Budget: not to exceed \$150,000
- Proposal Due Date: 7 PM ET Tuesday, November 12th to Resilience@uli.org
- Selected consultant will:
 - 1) **quantify the preservation of property values, tax revenues, and savings in insurance premiums** to be gained through infrastructure improvements that mitigate for flood risk, and the specific adaptation options that could reduce economic losses
 - 2) **evaluate direct and indirect benefits to a community** because of adaptation investments, including augmentation in property values, development opportunity, reduced service disruptions
 - 3) **analyze economic opportunities associated with resiliency investments**, including sector-specific job growth
 - 4) **formulate recommendations**, including the creation of a road map, noting which entities should do what, next

Economic Modeling Consultant

Task A: Data Collection and Scenario Selection

- Public Infrastructure and Data Collection
 - Collect necessary public infrastructures, maps, and data to perform the analysis
 - Use existing and available maps and data, such as existing NOAA flood layers
- Scenario Selection
 - Select 3 tidal flooding and high frequency storm surge events
 - Each scenario will be explored with current sea levels, and sea levels in 2045 and 2070
- Sea Level Rise Mapping and Exposure
 - Create maps of the exposure associated with each of the scenarios with consideration of building/property values, building contents and business interruption potential
 - Include damage estimates based on regional impact data, where feasible
- Deliverables:
 - Spreadsheet of data collected with sources
 - Description and discussion of scenario selections
 - Exposure maps associated with scenario selection

Economic Modeling Consultant

Task B: Avoided Losses

- Examine effect of tidal flooding and high frequency storm surge events on infrastructure, tax revenue, jobs, damage losses
- Explore select adaption options that would reduce economic losses
- Analyze sources of revenue for the County - detail vulnerabilities by sector and summarize jobs at risk by zip code, to the extent possible, and aggregated by municipal
- Deliverables:
 - Discussion of methodology
 - Results of the economic modeling results in an easy-to-share format
 - Discussion of adaptation options, including estimated cost for the actions (if possible), and how such actions would reduce economic losses
 - Sector-by-sector assessment of jobs at risk aggregated by municipal, and the county level (spreadsheets and heat maps), including daily revenue losses by sector, and loss curves by sector for future modeling efforts

Economic Modeling Consultant

Task C: Economic Benefits of Adaptation

- Research economic benefits of adaptation
 - Include the assessment and comparison of total real estate values and average values per square foot by land use in areas within the County where improvements have been made to areas where limited or no improvements have been made, or alternatively redeveloped to non-redeveloped areas
 - See methodology, Stronge and Schultz (1997)
- Deliverables:
 - Discussion of methodology
 - Estimates of the economic benefit of adaptation, including the avoided reductions in property values, and therefore property tax base, and effect of adaptation on insurance rates
 - 5 specific case studies of flooding and/or adaptation to provide demonstrable examples of the economics of flooding (these should be existing projects within the SEFL).

Economic Modeling Consultant

Task D: Additional Economic Benefits

- There are additional economic benefits that can be derived from resilience action
- Explore qualitative and quantitative analysis of additional economic benefits
- Estimate potential for job creation and retention with resulting new capital and local spending compared to the existing economy and projections without adaptation
- Deliverables:
 - Discussion of methodology
 - Estimates of selected additional economic benefits (e.g. additional sector-by-sector jobs created) in spreadsheet and visual format
 - Comparison between the scenario without and with adaptation actions, if feasible.

Economic Modeling Consultant

Task E: Recommendations for Economic Resilience Strategy

- Using the data collected and analyses performed in previous tasks, the consultant will work with the project team to
 - Develop preliminary recommendations for the criteria for economic resilience at the regional and corridor scale
 - Propose the incentives or partnerships necessary to reduce individual sector risk, stimulate investment in adaptation and compound the benefits yielded from investment across sectors
 - Propose methods for tracking and verifying the return on investment to the economy once projects are implemented
- From these recommendations, decision makers can strategize and communicate the return on investment of adaptation more effectively, and appropriately connect these recommendations to more localized existing and in-progress resilience strategies
- Deliverable:
 - Discussion of recommendations

Economic Modeling Consultant

Task F: Communications & Roll-out

- As part of the project, the consultant will be expected to assist with the communications roll out, led by ULI and attend various in person and online events
- It is recommended to attend the Southeast Florida Regional Climate Change Compact Leadership Summit on December 3-5, 2019 in Key West, Florida
- Deliverables:
 - Author economic modeling portions and review other portions of the report through all publication stages (including a draft report, final report)
 - Assistance with communications and roll out of report
 - Attendance at the launch event(s) in Southeast Florida
 - Assistance with publicity efforts, including webinars, articles, and social media features
 - Suggested attendance at the Southeast Florida Regional Climate Leadership Summit in Key West, Florida in December 2019.

Project Summary Schedule

Time Frame	Project Description
November – December 2019	<ul style="list-style-type: none"> • Project Commencement • Completion of Tasks A & B • Tasks C-D in progress • Southeast Florida Regional Climate Leadership Summit (December 3-5) - optional • Findings integration into Draft Report
January – February 2020	<ul style="list-style-type: none"> • Completion of Tasks C, D, and E
March 2020	<ul style="list-style-type: none"> • Delivery of Draft Report • Revise Draft Report as needed
April 10, 2020	<ul style="list-style-type: none"> • Completion of Task F • Final Report delivery • Launch event(s) • Report rollout
Spring/Summer 2020	<ul style="list-style-type: none"> • Report rollout (continued)

Selection Process and Next Steps

Proposal

- All proposals must have the following in this order:
 - 1. Cover Letter (max 2 pages)
 - 2. Proposed Approach and Description of Work Plan for the Project (max 10 pages)
 - 3. Statement of Qualifications and Project Experience (max 3 pages)
 - 4. Background of Key Staff (max 11 pages)
 - 5. Overall Project Budget
 - 6. Relevant Projects and References (max 3 pages)

Example Project Summary Budget Table

Economic Modeling/The Business Case for Resilience for Southeast Florida	
TASK A: Data Collection and Scenario Selection	\$XXXX
TASK B: Avoided Losses	\$XXXX
TASK C: The Economic Benefit of Adaptation	\$XXXX
TASK D: Additional Economic Benefits	\$XXXX
TASK E: Recommendations for Economic Resilience Strategy	\$XXXX
TASK F: Communications & Roll-out	\$XXXX
TOTAL	SXXXX

Economic Modeling Consultant

Scoring Criteria

Criteria	Max Points
Qualifications & Experience of Firm and Sub-Firm(s) <ul style="list-style-type: none">• Relevance of firm experience for this project• Relevance of past project experience• Access to all needed expertise within the firm or dedicated subconsultants on the project team• Organization chart• Strength of firm testimonials from past clients	25
Qualifications & Experience of the Person(s) Assigned to the Project <ul style="list-style-type: none">• Experience providing similar services successfully on projects of comparable size and scope• Alignment of person(s) skillset and roles of project	25
Project Understanding and Approach <ul style="list-style-type: none">• Strength and detail of the project plan, noting the delivery strategy and timeline for each task item• Clear understanding of local conditions and initiatives that may impact project delivery• Clear understanding of available data sources and limitations for the project• Clear understanding of and experience with the relevant technologies to be leveraged for the project	25

Economic Modeling Consultant

Scoring Criteria (continued)

Criteria	Max Points
<p>Project Timeline</p> <ul style="list-style-type: none">• Ability to deliver within the expected project timeline• Structured/clear timeline of approach with integrated check in points and key milestones• Timeline includes time for review by client team and input from consultation exercises• Timeline includes collaboration and contribution to larger overall final report	15
<p>Budget</p> <ul style="list-style-type: none">• Clarity of budget line items (including staff time, license fee and other relevant direct expenses) and summary budget table• Proposed budget does not exceed \$150,000, including travel expenditures and model costs	10

Selection Process and Next Steps

Selection Committee

- A selection committee has been created to review and determine the winning proposal for an economic modeling consultant/team. The selection committee will be made up of the following voting members:
 - 1. Amy Knowles, Deputy Chief Resilience Officer, Miami Beach
 - 2. Jennifer Jurado, Chief Resilience Officer, Broward County
 - 3. Jim Murley, Chief Resilience Officer, Miami-Dade County
 - 4. Megan Houston, Director, Office of Resilience, Palm Beach County
 - 5. ULI Resilience Team (3 votes, to be averaged and counted as 1.5 voting member)
 - 6. ULI SE Florida District Council, Resilience Committee member (counted as .5 voting member)
- The selection committee will review proposals using the scoring criteria
- After the top scoring consultant/team is selected, the project manager will alert them and begin the contracting process
- A kick-off meeting will immediately be arranged

Key Dates

- **Friday, November 8th 2019** – inquiry submission deadline
- **Tuesday, November 12th 2019, 7 PM ET** – Proposals are due in a PDF format (max 25 MB) to resilience@uli.org or leah.sheppard@uli.org. *Early submissions are encouraged.*
- **Week of November 18th**: Selection Committee meets; announcement shortly thereafter
- **December 3-5th 2019** – Southeast Florida Regional Climate Change Compact Leadership Summit in Key West
- **December 2019-April 2020** – Project duration
- **April 10th 2020** – Final deliverables deadline
- **April onwards** – Likely continued outreach/communications

Questions?

Helpful Links:

ULI Project Webpage ([link](#))

Full RFP ([link](#))

Southeast Florida Regional Climate Compact ([link](#))

Stronge and Schultz (1997) ([link](#))

Metropole Project (2015): Stakeholder PPT ([link](#)) and Final Report ([link](#))

Questions/Submissions: resilience@uli.org