

3.3: Assessment of Economic Vulnerabilities and Investment Strategies

- **Sub-Task Leaders NYU:** Schechtman, Loucks (Cornell)
- **Revised Team Plan:**
 - Collect data from community reconstruction zone plans' proposed projects
 - 18 gathered so far
 - Create framework for assessing project vulnerability reduction and risk analysis
- **Objective:**
 - Assist state in choosing which projects to fund by providing comprehensive analysis on multiple dimensions
 - Establish method and framework for evaluating alternative resiliency investments considering all potential factors

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Dimensions for categorization and measurement

- **State criteria require projects in the following areas:**

Community Planning and Capacity Building, Economic Strategies, Health and Human Services Strategies, Housing Strategies, and Infrastructure Strategies

- **Sources of criteria:**

- Literature

- State CRZ Planning Methodology

- Previously piloted dimensions agreed upon by 15-member NOAA steering committee on Cost-Efficient Climate Change Adaptation for North Atlantic coastal communities



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Criteria Components

Adger et al 2005	State Guidance	NOAA
<ul style="list-style-type: none">• Effectiveness• Efficiency• Equity• Legitimacy	<ul style="list-style-type: none">• To reduce risk• To impact critical facilities• Costs (availability of funding and timing, life-cycle costs, costs to residents, costs to municipality)• Value to the community• Benefits to the environment• Benefits to economic opportunity• Benefits to strengthening social assets• Acceptability to the community• Technical feasibility	<ul style="list-style-type: none">• Costs• Effectiveness• Transferability• IPCC Categories• Strategy Type• Practice Type• Funding Source/Need• Environmental Performance• Equity Performance

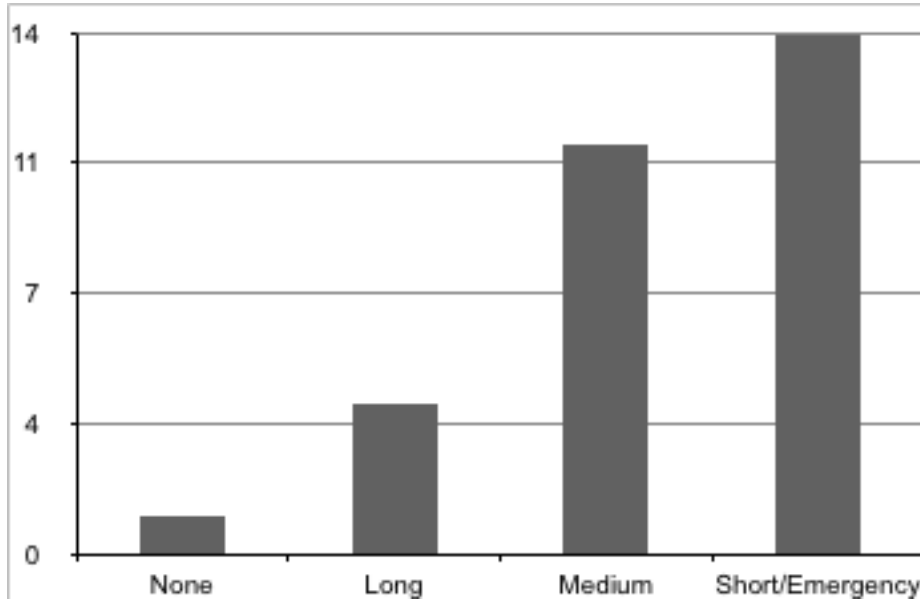


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Project Name	Criteria
Project Category	Infrastructure, Housing, Economic, Natural and Cultural Res, Comm Plan and Cap Building
Second Project Category	Infrastructure, Housing, Economic, Natural and Cultural Res, Comm Plan and Cap Building
Inc CC Adapt	Yes, No
Inc CC Mltigation	Yes, No
Term (Emerg/Short, Long)	None, Short/Emergency, Medium, Long
Strategy	None, Protection, Prevention, Retreat, Accommodation
Type	None, Administrative, Law, Plan, Study, Pilot Project, Education/Cap Building
Subtype	Gray Infr, Green Infr, Building Code, Planning, Haz Mit, Emerg Plan, Energy
Implementation Scale	Neighborhood, Building, Community, Across Community, Region
Capacity	State, Neighborhood, Municipality, Private, Federal
Funding Needed	Yes, No
Transferability	Likert Scale
Environmental Performance	Likert Scale
Equity Performance	Likert Scale
Incrementalism	Likert Scale
Costs	Value
Adaptive Value (Risk Reduction)	Likert Scale
Technical Feasibility	Likert Scale
Co-Benefits	Likert Scale
Public Support	Likert Scale

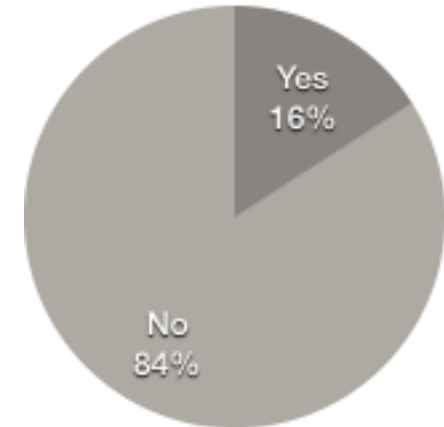


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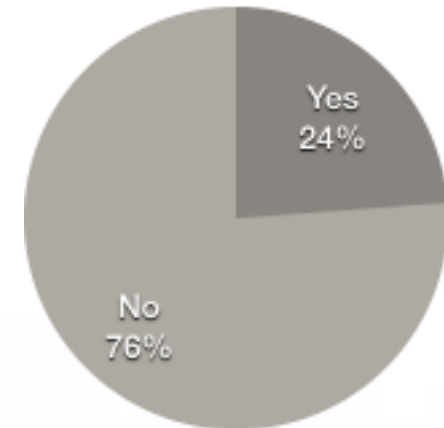


Distribution of Term of Action

Incorporates Climate Change Adaptation



Incorporates Climate Change Mitigation



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Challenges

- **Obtaining data**
 - Costs
 - Community preferences
 - Estimating equity and environmental performance
 - Estimating risk reduction
 - Technical feasibility
 - Co-benefits
- **Determining weighting**
 - Will likely propose multiple methods

