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**Catalog of State Actions**  
**Future Built Environment and Infrastructure Technical Working Group**  
**Priority Recommendations for Policy Options**

**DRAFT**

A catalog of state-level, Adaptation and Response actions and policy options prepared by the Center for Climate Strategies (CCS), Maryland Department of Natural Resources, and others based on actions undertaken or considered by Maryland and other states, including regional, state, local and private actions.

**Important Note:** *The Adaptation Policy Options below are numbered solely for convenience in referencing them. Their numbers do NOT reflect a ranking or prioritization of the policy options.*

**Notation regarding options:**

**Flexibility (H,M,L):** The degree to which the option could be changed as climate change evolves.

**Capital Intensity (H,M,L):** The cost of implementing the options.

**Adaptive Capacity (H,M,L):** The degree to which implementing the option would build adaptive management capacity and reduce climate risks under highest (H) magnitude impacts, medium (M) magnitude impacts and lowest (L) magnitude impacts...within governmental institutions and private entities.

**Urgency (H,M,L):** The degree to which NOT taking action soon would result in a significant opportunity cost, ie. What is the cost of inaction?

**Options marked with an asterisk (\*) indicate options that are at least partially “base case” policies, i.e., that have been considered or undertaken at some level in Maryland.**

**Priority Levels:**

**H = High**  
**M = Medium**  
**L = Low**

**X = Consensus Reached**

	<b>Suggested Policy Option Name</b>	<b>FBEI Catalog Option No.</b>	<b>FBEI Catalog Adaptation Response Policy Option</b>	<b>TWG Member Comments</b>
<b>FBEI-1</b>	<b>Integrated Planning for SLR and Associated Coastal Hazards</b>	2.1	Integrate critical area planning and zoning requirements with comprehensive planning laws, including emergency planning and infrastructure planning requirements to avoid SLR and associated coastal hazards	None
<b>FBEI—1a</b>	<b>State and Local Coordination to Reduce Risks Associated With SLR and Associated Coastal Hazard</b>	5.1	Establish a coordinating mechanism to assure that state programs and local governments act in concert to reduce future impacts from SLR and associated hazards	Sub-set of FBEI 1
<b>FBEI—1b</b>	<b>Planning For Reduced Access Roads Provision and Maintenance</b>	1.8	Implement strategies to address situations of changing ingress/egress to structures as support for access roads in areas vulnerable to sea level rise and associated hazards is withdrawn	Sub-set of FBEI 1 Addresses a specific coordination need with potentially broad impacts of retreat
<b>FBEI--2</b>	<b>Mandate integration of MD CCC Findings and Recommendations Into All Appropriate State and Local Programs</b>	5.4  2.8	Identify existing state and local programs that could be modified and /or strengthened to accommodate for climate change, SLR, and the MCCC recommendations and requirements.  Incorporate findings of the MD Commission on Climate Change into existing government programs	Merged with 2.8 Clarify that the mandate is to support implementation of findings

<b>FBEI--3</b>	<b>New Design Standards, Building and Zoning Codes to Facilitate Retreat, Avoid SLR Risks, and Increase Resilience When Other Strategies Are Not Viable</b>	1.1	Implement new design standards, building and zoning codes to reflect the need for retreat from areas exposed to sea level rise and associated hazards	Combined 1.1.2.3,3.1, 3.3  Implement new design standards, building and zoning codes in a coordinated strategy designed to facilitate retreat from areas at increasing risk to SLR and associated coastal hazards, avoid development in areas at risk, and increase ability to accommodate risks where retreat or avoidance are not viable strategies
		2.3	Guide future development out of areas vulnerable to sea level rise and associated hazards	
		3.1	Establish a mechanism to evaluate and recommend new design standards for structures that may be vulnerable to SLR and associated hazards	
		3.3	Institute new hazard-resistant building codes and design standards to reduce vulnerability of structures to future sea level rise and associated hazards	
<b>FBEI--4</b>	<b>Protect Undeveloped, Vulnerable Properties</b>	1.6	Implement strategy to protect unused properties in areas vulnerable to sea level rise and associated hazards, potentially including purchase programs or easements	
<b>FBEI--5</b>	<b>Climate Change and Insurance Commission</b>	3.8	Create a climate change and insurance commission to evaluate the insurance ramifications of climate change risks	Combined with 5.22 to clarify need for action on this topic
		5.22	Implement a plan to address the insurance ramifications of climate change risk	Not sure that Commission provides sufficient institutional structure
<b>FBEI--6</b>	<b>Monitor, Map, and Inventory SLR and Vulnerable Areas and Property</b>	4.2	Create inventory of infrastructure vulnerable to future SLR and associated hazards	Adequate monitoring of SLR and associated vulnerabilities are fundamental information needs
		4.5	Assure adequate surveillance and monitoring of sea-level rise	
		5.12	Identify and map highly vulnerable and valuable areas	

<b>FBEI--7</b>	<b>Evaluate Shoreline Protection Structures</b>	4.8	Conduct a detailed analysis and inventories of the pros and cons of application of hard structural options (such as dikes, levees, floodwalls, and saltwater intrusion barriers) and soft structural options such as dune restoration and creation, wetland restoration, creation, periodic beach nourishment, temporary barriers and other options	Moved to the top tier because it seems to be a fundamental information need
<b>FBEI--8</b>	<b>Economic Development Initiative</b>	5.16	Create an economic development plan integrates climate change response and adaptation opportunities	Moved to top tier based on desire to address economic implications and the amount of discussion given in earlier calls
<b>FBEI --9</b>	<b>Training and Capacity Building</b>	5.6 5.7 5.8 5.9 5.10 5.11	<p>5.6 Establish structured capacity building and training for key adaptation sectors including building trades, infrastructure, finance and insurance, landscapers and others</p> <p>5.7 Establish structured training and vocational support for trades and others involved in implementation of new design standards</p> <p>5.8 Establish structured capacity building and training for public servants</p> <p>5.9 Integrate climate change and adaptation issues into advanced training in university, community college, and technical training programs</p> <p>5.10 Provide training for permit and planning agencies staff to address SLR and associated coastal hazards</p> <p>5.11 Provide outreach and education to the broader population</p>	<p>Combines 5.6-5.11</p> <p>Training is important to successful implementation of other proposals</p>