

P2R2 Approaches Matrix

Draft 9/29/14

Desired Outcome: Incentivize private investment to locate outside of vulnerable areas

Related Outcomes: Reduced Storm Damage/Public Safety, Reduced Cost/Dialogue on Climate Change and Mitigation

Issue Area	Approach	Used in:	Links for more Information
Adaptation	Create a task force of building professionals and scientists to consider more resilient regs, including FEMA guidance and FBC and proposed NYC code (others as desired) to create recommendations for approaches that will work in NE FL for homeowners and businesses interested in resiliency. Identify aspects that might qualify for incentives such as expedited permitting or reduced fees.	NYC, New Orleans. California designs to a category 8 earthquake. South Florida builds to a low category 3 hurricane. San Francisco and San Diego build to 4' above base flood level in vulnerable areas they determine.	NAMIC article on building codes Hurricane-proof design
	See above. Create a similar task force of professionals in wastewater, stormwater, other infrastructure.	NYC, although they paid consultants.	
Regulation	Ban Infrastructure on barrier islands.	Rhode Island	
Incentives for Safety	CRA to fund incentives or low cost loans to elevate homes or services in semi-vulnerable areas.		
	Communities identify growth centers in less vulnerable areas. (Flip NFLT data to identify areas?) CRAs formed in growth centers with TIF to be used for infrastructure and set-asides to offset tax rebates to homeowners.		
	If vulnerable and less vulnerable areas are in the same jurisdiction, transfer of development rights. May be potential for cross jurisdictional transfer with the use of a bank / credits / agreements.	California, Lake Tahoe, New Jersey Pinelands, Florida, etc.	

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Insurance Savings	Form a consortium of NE FL insurers and ask them to incentivize flood (not just wind) resiliency improvements to structures and to provide better rates in designated less vulnerable growth centers and to consider the Wharton findings on Insurance and Behavioral Risk, to determine what we can do in our region.	South Florida	Miami Dade Sea Level Rise Task Force Final Report Wharton School: Insurance and Behavioral Economics
	Link sea level rise to flood resiliency to maximize CRS effectiveness and education.	South Florida	
	Build adaptive infrastructure. Governments often buy private insurance on some types of assets.		
Subsidize relocation from vulnerable areas	P2R2 identifies vulnerable areas, communities consider. Communities designate CRAs in what they consider vulnerable areas. TIF is collected and retained as a fund to subsidize relocation either after a catastrophic storm or as the community determines it is too costly to maintain infrastructure to the area.	New Zealand	Christchurch Infrastructure Report.
Education	Determine how we define vulnerable areas. Use P2R2 spheres of influence to educate on what we are doing as a region and how everyone can participate. Share the numbers that quantify our risk.		
	Use P2R2 to raise the focus on business. Work with EPDs, SBDCs and Chambers to get the word out on business resiliency.		Restore your Economy
	Send resiliency professionals/ volunteers into communities.	California uses Americorps grant	
	Make the business case.	RISE (Disaster Risk Sensitive Investments) initiative from the UN.	

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Marketing	P2R2 members go back to their organizations with a consistent message. We are a region that is vulnerable. We have less vulnerable areas. We are not afraid because we are considering scenarios and will be as ready as we can be. We will be faced by catastrophic events and we will recover strong and smart, because we know what we should do and how to do it.		
	Find a PR/marketing firm to donate work on branding/messaging.	South Florida	
Planning and Infrastructure	Regional Resiliency Rebuild (R3) competition to gather ideas for rebuild after a catastrophic storm. Partner with academic institutions, K-12 and higher ed and with AIA, APA, NEFBA, NEFAR, FES, etc.	HUD- Rebuild by Design	www.Rebuildbydesign.org
	Rebuild smart. Use lessons learned from Christchurch and Sandy to lay out the approach and structure to rebuilding with consistency throughout the region, using the LMS. NEFRC develops strategy.	Christchurch, N.Z., Vermont, NYC	Christchurch Strategy Vermont Approach Sandy Approach
	Do the Flood Resilience Checklist in each community in Northeast Florida to establish a baseline. This should focus future efforts.	Vermont	Flood Resiliency Checklist
	Adapt NOAA “What will Adaptation Cost” methodology to NE FL, allowing communities to do cost/benefit analysis on infrastructure investments as needs are identified.		What will adaptation cost?
	Encourage communities to consider 1’-3’ of rise by 2060 and 3’-6’ of rise by 2110 in all infrastructure decisionmaking and planning, including stormwater plans.	Boston looks at how a building will react to flooding. Each capital improvement decision considers resiliency and emissions. SFBDC area requires each structure in a vulnerable area to be reviewed for its resiliency to SLR.	

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	Encourage (utilities/medical facilities/ transportation planning/ housing agencies) to consider 1’-3’ of rise by 2060 and 3’-6’ of rise by 2110 in all infrastructure decisionmaking and planning.	Consider the experiences of NYC and New Orleans related to poor citizens.	Drinking water infrastructure report
	Encourage communities to consider vulnerable areas when considering rezonings and changes in land use. Include surge buffer and flood protection in the review.		
Leadership	P2R2	Boston Green Ribbon Committee (Business Leadership/ Power Players).	
	Broaden the dialogue to include Climate Change	Gulf Coast Adaptation Study. Think from a risk perspective. Identify shared values, including property, safety, quality of life. Test your vulnerability to the low likelihood event. Do an ROI analysis on mitigation.	