






Mitigation Saves

Friday - May 17, 2019 - 10:00AM

Natural Hazard Mitigation Saves: An Update to the Groundbreaking 4-to-1 Study of 2005

Natural hazards threaten communities across the United States, but governments, owners, developers, tenants, and others can reduce disaster impacts through mitigation. These measures can improve safety and prevent property loss and disruption of day-to-day life. MEMA welcomes Dr. Keith Porter for a one-hour discussion on mitigation measures and how they can benefit your communities and agencies. Dr. Porter is a research professor at the University of Colorado Boulder and principal of the consulting company SPA Risk LLC. He has 30 years of experience in engineering practice and university research addressing natural disasters. He leads the new *Natural Hazard Mitigation Saves* study for the National Institute of Building Sciences, performing benefit-cost analysis of code adoption, above-code design, retrofit of private-sector and public-sector buildings, and retrofit of lifelines. He helped to lead development of several disaster planning scenarios for the US Geological Survey, including ShakeOut, ARKStorm, and HayWired. Professor Porter is a licensed California Professional Engineer and holds civil and structural engineering degrees from UC Davis, UC Berkeley, and Stanford University.

National Benefit-Cost Ratio Per Peril <small>*BCR numbers in this study have been rounded</small>		Exceed common code requirements	Meet common code requirements	Utilities and transportation	Federally funded
Overall Hazard Benefit-Cost Ratio		4:1	11:1	4:1	6:1
Savings (\$billion)		\$16_{/year}	\$13_{/year}	\$2.5	\$160
 Riverine Flood		5:1	6:1	8:1	7:1
 Hurricane Surge		7:1	Not applicable	Not applicable	Too few grants
 Wind		5:1	10:1	7:1	5:1
 Earthquake		4:1	12:1	3:1	3:1
 Wildland-Urban Interface Fire		4:1	Not applicable	Not applicable	3:1

Where:

Massachusetts Emergency Management Headquarters
400 Worcester Road - Framingham (in person)
OR via webinar

Registration:

https://docs.google.com/forms/d/e/1FAIpQLScRKI8XP0dKNqhzvPuwmJERjHUpmY0CCxETCDtiBSw6DXjQVA/viewform?usp=sf_link

Questions:

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