



WORLD
RESOURCES
INSTITUTE

RESILIENCE ACTIONS AND OPPORTUNITIES

Presentation to the Joint Subcommittee on Coastal Flooding

FORBES TOMPKINS & NATHAN COGSWELL | JANUARY 10, 2017

Photo: U.S. Army/Flickr

OUTLINE

- Growing Impacts and Risk
- WRI's U.S. Resilience Work
- Rising Tides Summit
- Report Overview
- Local, Regional, State Action
- Existing Policies & Programs
- Questions & Discussion

GROWING IMPACTS AND RISK

INCREASING TIDAL FLOODING

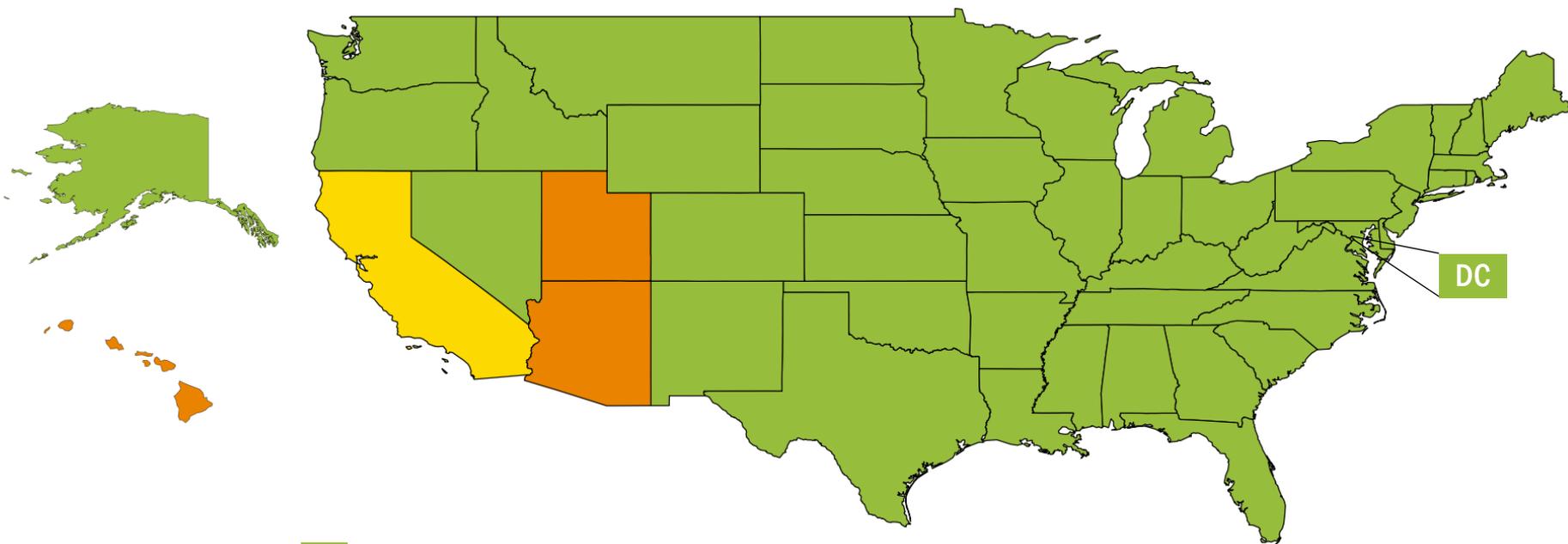
	Average tidal flood days, 1957-1963	Average tidal flood days, 2007-2013	Percent increase	Estimated year with >30 days/year of tidal flooding
Annapolis, MD	3.8	39.3	925%	Past
Baltimore, MD	1.3	13.1	922%	By 2020
Atlantic City, NJ	3.1	24.6	682%	By 2020
Philadelphia, PA	1.6	12.0	650%	By 2030
Sandy Hook, NJ	3.3	23.9	626%	By 2020
Port Isabel, TX	2.1	13.9	547%	By 2020
Charleston, SC	4.6	23.3	409%	By 2020
Washington, DC	6.3	29.7	373%	Past
San Francisco, CA	2.0	9.3	364%	By 2030
Norfolk, VA	1.7	7.3	325%	2021 – 2040



Sources: National Oceanic and Atmospheric Administration, 2014; Sweet & Park, 2014

Images: Flooding in Norfolk, VA, September 2016/WRI/Andrew Pickens; Flooding in South Beach, FL, June 2009/Maxstrz/Flickr

PRESIDENTIAL DISASTER DECLARATIONS & PUBLIC ASSISTANCE



	Presidential Disaster Declarations ↑	Public Assistance ↑ (47 states)
	Presidential Disaster Declarations ↓	Public Assistance ↑ (1 state)
	Presidential Disaster Declarations ↑	Public Assistance ↓ (3 states)

WRI'S U.S. RESILIENCE WORK

U.S. RESILIENCE WORK



Local impacts
trump political
ideologies

U.S. RESILIENCE WORK

“Grass tops”
approach

U.S. RESILIENCE WORK

Growing
bipartisan
support

THE RISING TIDES SUMMIT

October 2015
Hampton, New Hampshire

RISING TIDES SUMMIT



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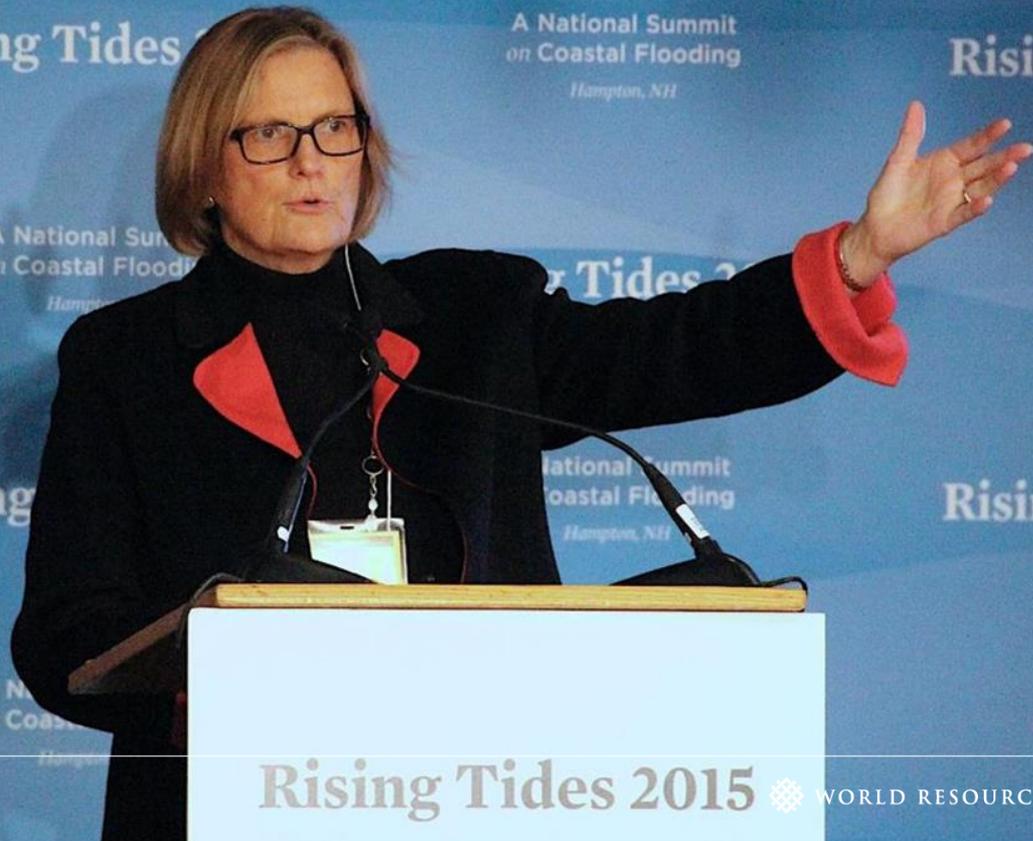
local and state
elected officials

RISEING TIDES SUMMIT

18 of 23
coastal states

RISING TIDES SUMMIT

NOAA,
FEMA,
Army Corps



RISEING TIDES SUMMIT



Identified
priority
needs and
opportunities

REPORT OVERVIEW

Roadmap to Support Local Climate Resilience:
Lessons from the Rising Tides Summit

EIGHT FEDERAL POLICY OPPORTUNITIES



INCENTIVES

Increase incentives for pre-disaster resilience

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INTEGRATION

Advance integration of resilience into planning, design, management, and investment

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COORDINATION

Improve interagency and intergovernmental coordination and support



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Improve interagency and intergovernmental coordination and support



COMMUNITIES

Prioritize pre-disaster support for vulnerable populations and most at-risk communities

EIGHT FEDERAL POLICY OPPORTUNITIES



INCENTIVES

Increase incentives for pre-disaster resilience



PARTNERSHIPS

Expand public-private partnerships to supplement government resilience efforts



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INTEGRATION

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NATURE-BASED

Promote nature-based and multi-benefit resilience initiatives



COORDINATION

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METRICS

Enhance disaster resilience-focused metrics and economic impact assessments



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AWARENESS

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EXAMPLES OF ACTION ACROSS THE COUNTRY

LOCAL ACTION – HOBOKEN, NJ

- Layers of protection
- Adopting a resilient mindset

LOCAL ACTION – BOSTON, MA

- Update, identify, act
- Partnerships

LOCAL ACTION – AUSTIN, MN

- Community buy-in
- Local sales tax

REGIONAL ACTION – SOUTHEAST FLORIDA COUNTY COMPACT

- Bipartisan leadership
- Leveraging resources

EXISTING POLICIES AND PROGRAMS

Federal
Public-Private
Private Sector / Philanthropic

EXISTING POLICIES AND PROGRAMS

Federal

- Army Corps of Engineers Silver Jackets Program
- Community Development Block Grant Program (HUD)
- Partnership for Sustainable Communities (EPA, DOT, HUD)
- Regional Coastal Resilience Grants (NOAA)

FEDERAL EMERGENCY MANAGEMENT AGENCY

- Community Rating System
- Hazard Mitigation Grant Program
- Pre-Disaster Mitigation Program
- State Hazard Mitigation Planning

FREE
INFORMATION



MITIGATION
*Rebuilding Better
And Stronger*

EXISTING POLICIES AND PROGRAMS

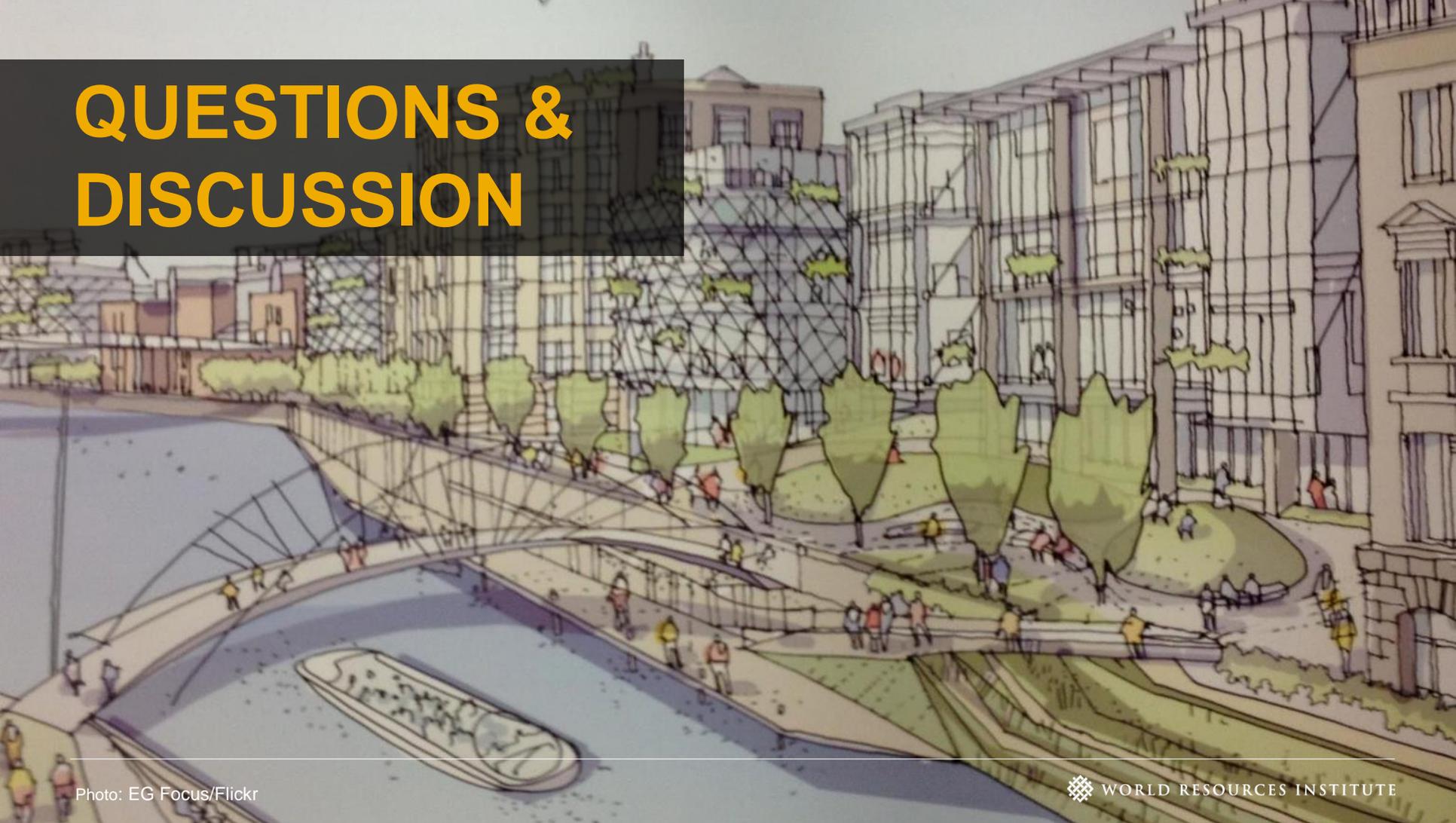
Public-Private

- Boston: Living with Water Design Competition
- National Disaster Resilience Competition
- Resilience AmeriCorps
- Rebuild by Design
- RE.invest

Private Sector/Philanthropic

- 100 Resilient Cities
- Global Impact Competition: Miami
- Kresge Foundation

QUESTIONS & DISCUSSION



ADDITIONAL QUESTIONS?
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