

Federal Policy Opportunities and Challenges

Reducing Flood Risk & Advancing Nature- based Solutions

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Floods – What's the big deal?

- U.S. has >3.5 million miles of shoreline
- Coastal counties are home to >123 million people
- From 1980 to 2013, flooding caused >\$260 billion in damage in the U.S.



Progress Underway

- Financial institutions beginning to understand, quantify, and value nature
- Local communities and governments are planning for sea level rise
- Federally supported emergency mitigation measures ≠ strictly structural approaches

Progress Underway

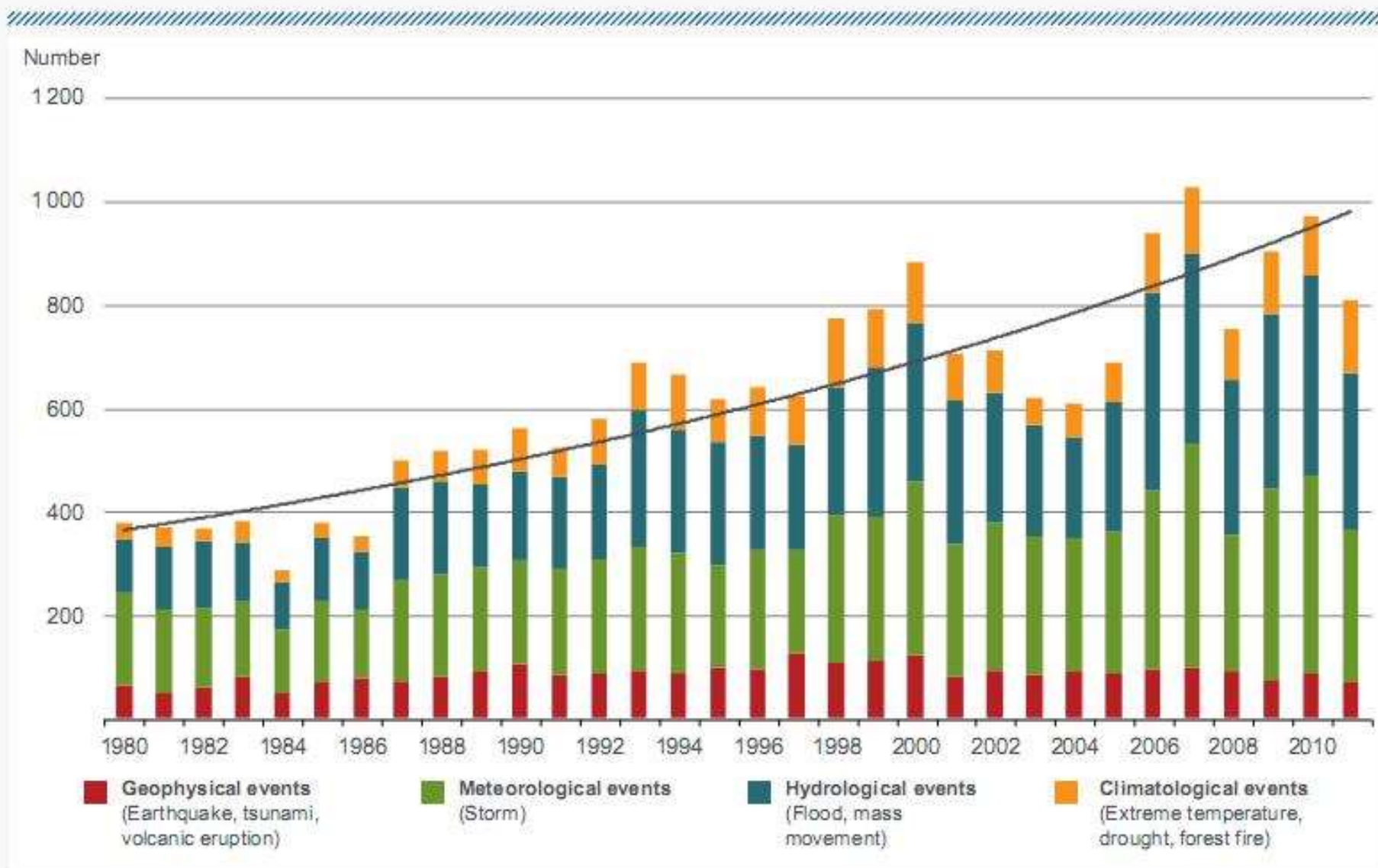
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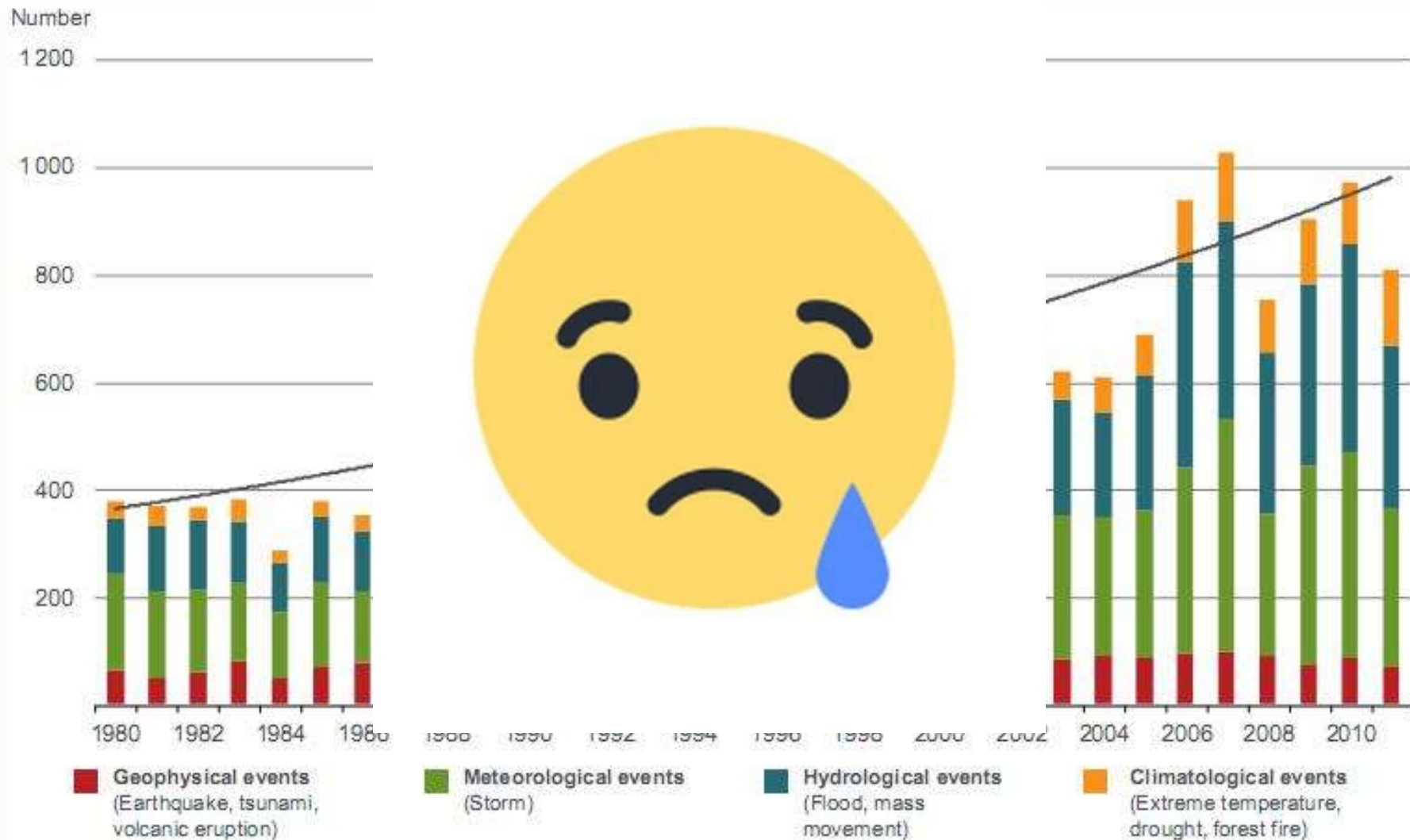
Natural catastrophes worldwide 1980 – 2011

Number of events with trend



Natural catastrophes worldwide 1980 – 2011

Number of events with trend



What's going on?

- National Flood Insurance Program
 - Rates
 - Maps
 - Participation requirements



National Flood Insurance Program

- Established in 1968 after Hurricane Betsy devastation
- Provides federally backed coverage for homeowners & businesses in 22,000 participating communities
- \$23 billion in debt



NFIP Participation Requirements

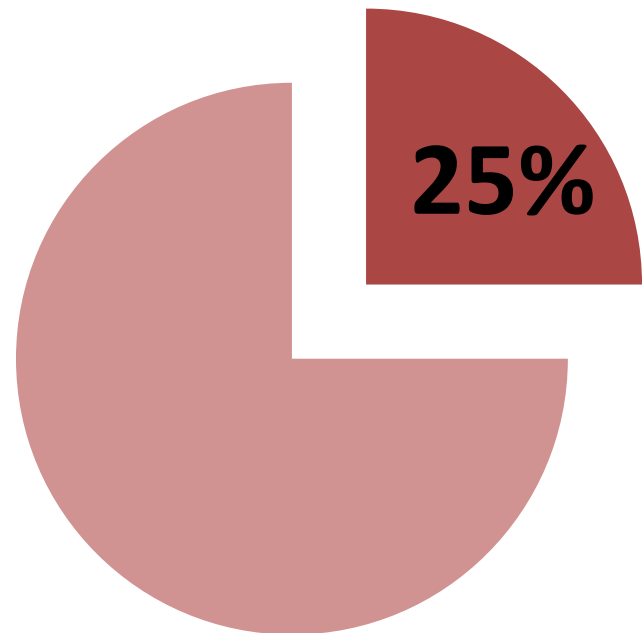
- Participating communities have minimum requirements for development “in” Special Flood Hazard Area (SFHA)



NFIP Maps – “FIRMs”

- NFIP maps have become the primary source of flood data for the nation
- 1 % annual chance flood = “regulatory floodplain”
- Not a safety standard!

Chance of experiencing a "one-hundred" year flood during a 30-year mortgage



Federal Disaster Relief

The federal government
spent at least

**\$277.6
billion**

during fiscal years
2005 through 2014
for disaster
assistance.

\$104.5
billion

Federal Emergency Management
Agency (FEMA) Disaster Relief Fund

\$132.2
billion

Disaster-Specific Programs
and Activities

\$40.9
billion

Disaster-Applicable Programs
and Activities

Non-Quantifiable Disaster-Applicable
Programs and Activities

Federal Disaster Relief

The federal government spent at least

\$277.6 billion

during fiscal years 2005 through 2013 for disaster assistance.

\$194.5 billion

Federal Emergency Management Agency (FEMA) Disaster Relief Fund



Specific Programs

\$40.9 billion

Disaster-Applicable Programs and Activities

Non-Quantifiable Disaster-Applicable Programs and Activities

Opportunities



✓ Valuing & Incentivizing Natural Flood Risk Reduction



✓ Conserving Floodplains & Coastal Habitats



✓ Reforming Policy Barriers

Opportunities

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A New Political Order

Reeling after defeat, Democrats call for change in party's message, tactics
A9

World leaders, from Mexico to Russia, react to Trump's surprise win
A18-A20

Global businesses grapple with another big shift in the landscape
B1

By REID J. EPSTEIN AND JANET HOOK

are set to become the party's policies. The hawkish stance against Russia articulated by running

ration from some of Mr. Trump's proposals on trade and foreign policy that broke from party orthodoxy. Estab-

Mr. Trump to "make America great," echoing his campaign slogan. Sen. Rob Portman of Ohio,

fort that has a chance now," Mr. Portman said. Eight hours after Mr. Trump claimed victory, Democratic

vited his successor to the White House, where Mr. Trump is expected on Thursday. In remarks in the Rose

Federal Tax Incentive for Green Stormwater Management?

- EPA estimates \$106 Billion for stormwater management over the next 20-years
- Capturing the first 1” rainfall treats about 90% of runoff pollutants



Remember



1. Flood policy establishes false “in” or “out” mentality.
2. Flood risk is dynamic.
3. Private incentives for developers can bridge the built environment

questions?

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