

# Closing the Protection Gap from Both Directions





## Residential Earthquake Insurance

- 1.1 Million Policyholders
- Publicly Managed/Private Financed
- Not for Profit



## Residential Earthquake Mitigation Grants

- Pre-1980 Homes/\$3,000 Grant
- Retrofits to date: 11,000
- 2020 Goal: 4,400 Retrofits



## California Wildfire Fund

- Coverage for Wildfires Caused by Investor Utilities
- \$21 Billion Fund
- Overseen by California Catastrophe Response Council

**CEA** CALIFORNIA  
EARTHQUAKE  
AUTHORITY™

**THE STRENGTH  
TO REBUILD®**



# Coverage for Wildfires Caused by Investor Owned Utilities

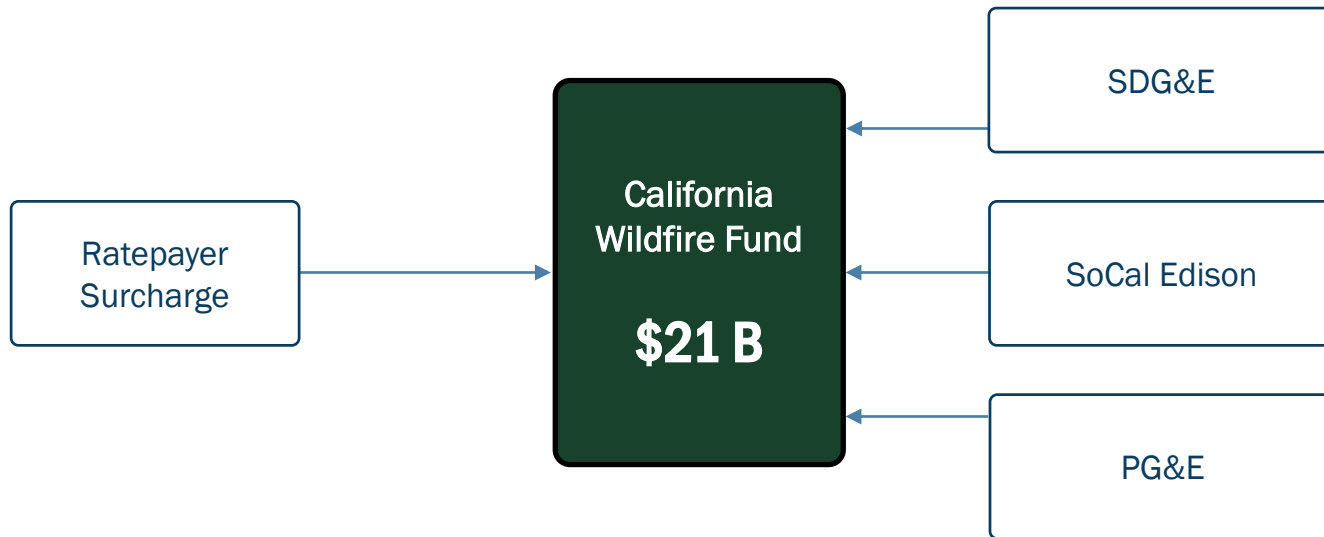
**Ratepayers \$10.5 B**

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**+**

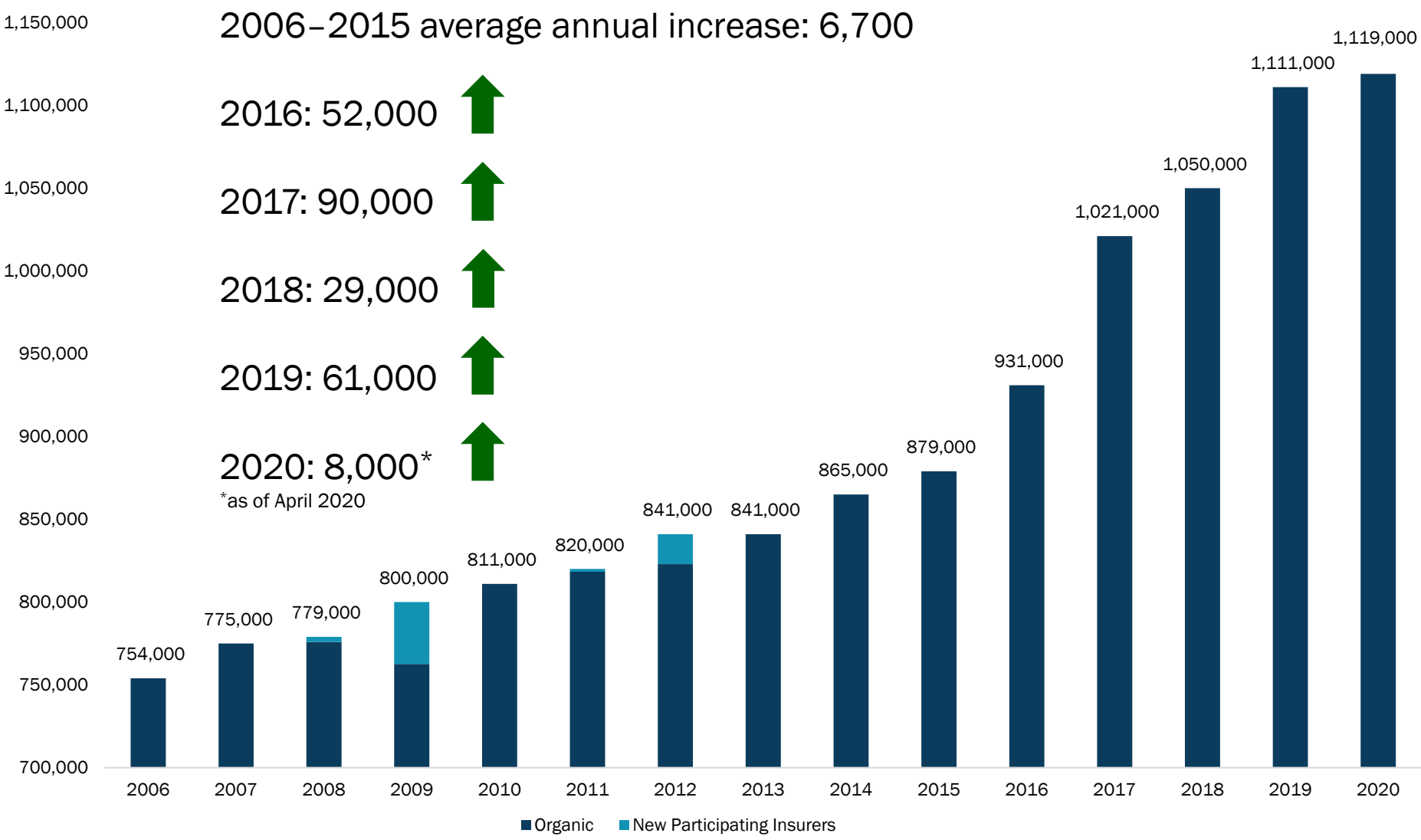
**Utilities \$10.5 B**

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# Narrowing the Protection Gap: Insurance

## More Californians Choosing CEA



# Narrowing the Protection Gap: Mitigation

## Earthquake Vulnerabilities



**Cripple Wall**



**Living-space-over garage**



**Hillside House**



**Chimney**



# Narrowing the Protection Gap: Mitigation

## Cripple Wall



House shifted and dropped

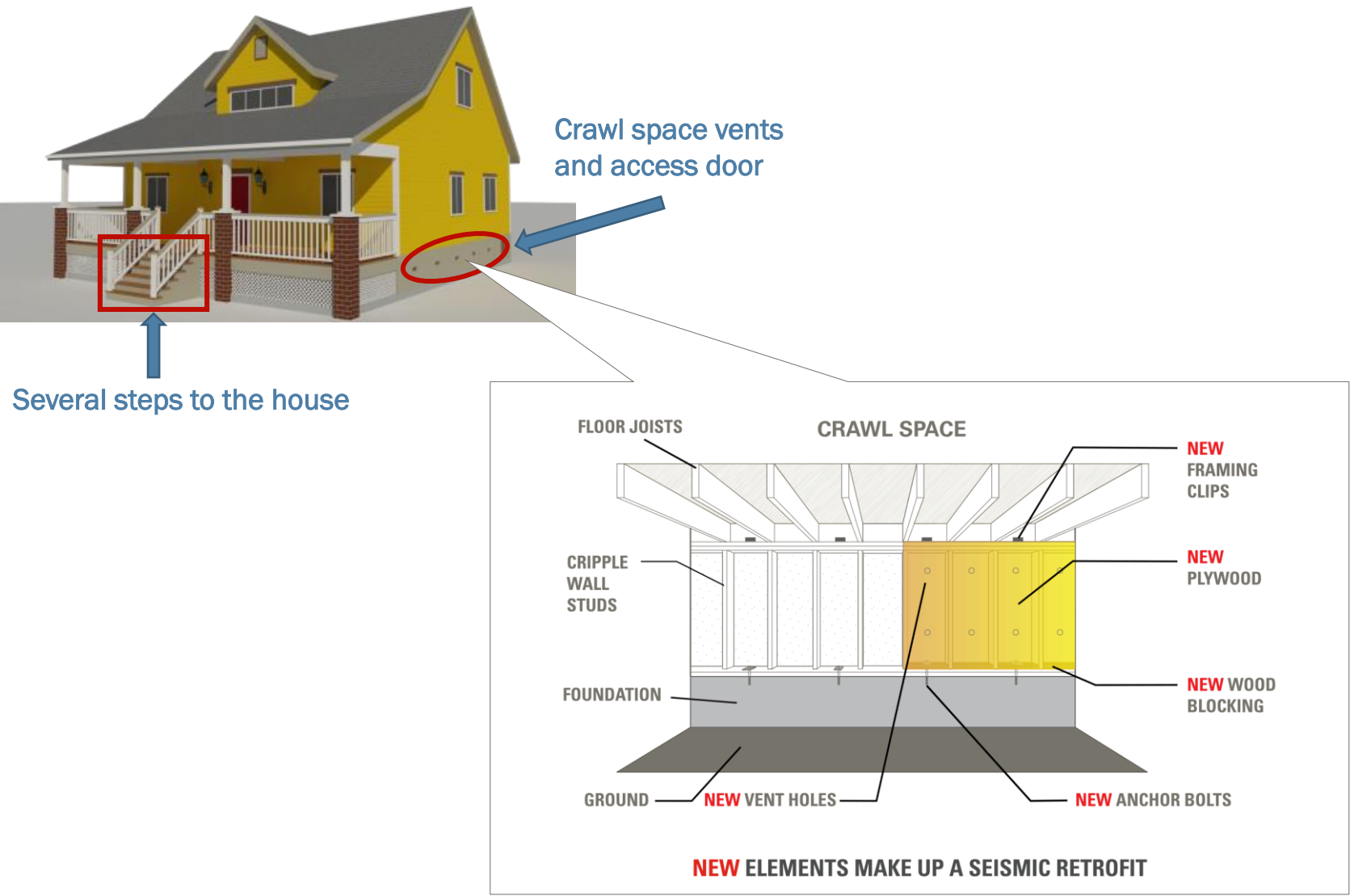


Cripple wall collapsed

2014 South Napa M6.0 Earthquake damage

# Narrowing the Protection Gap: Mitigation

## EBB Retrofit: Cripple Wall



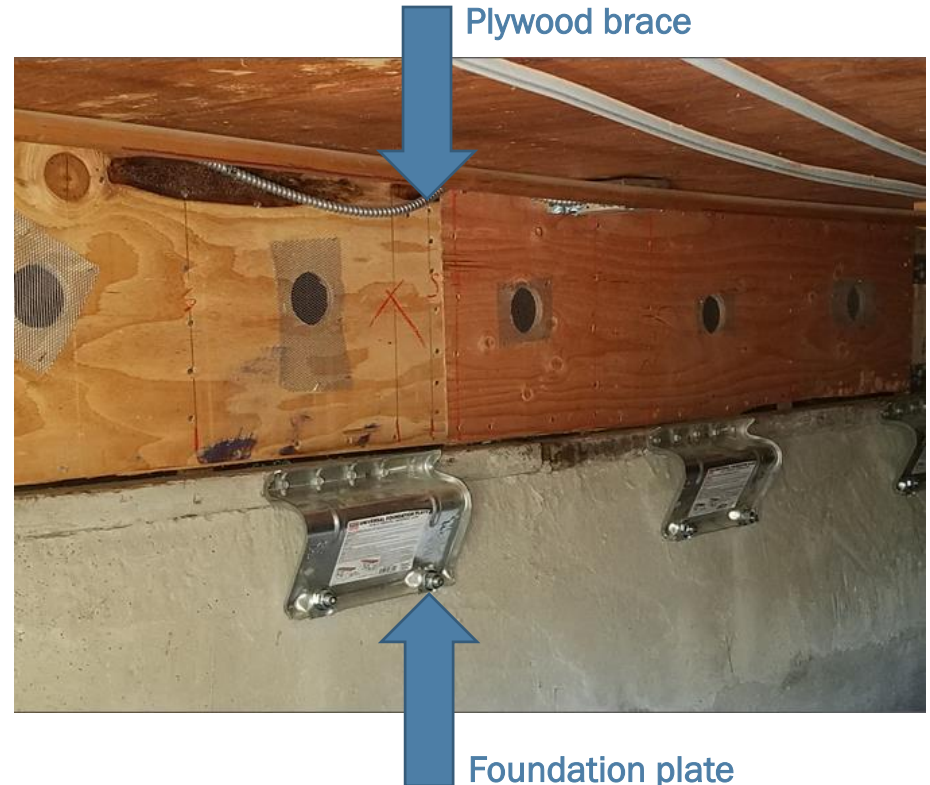


# Earthquake Brace + Bolt

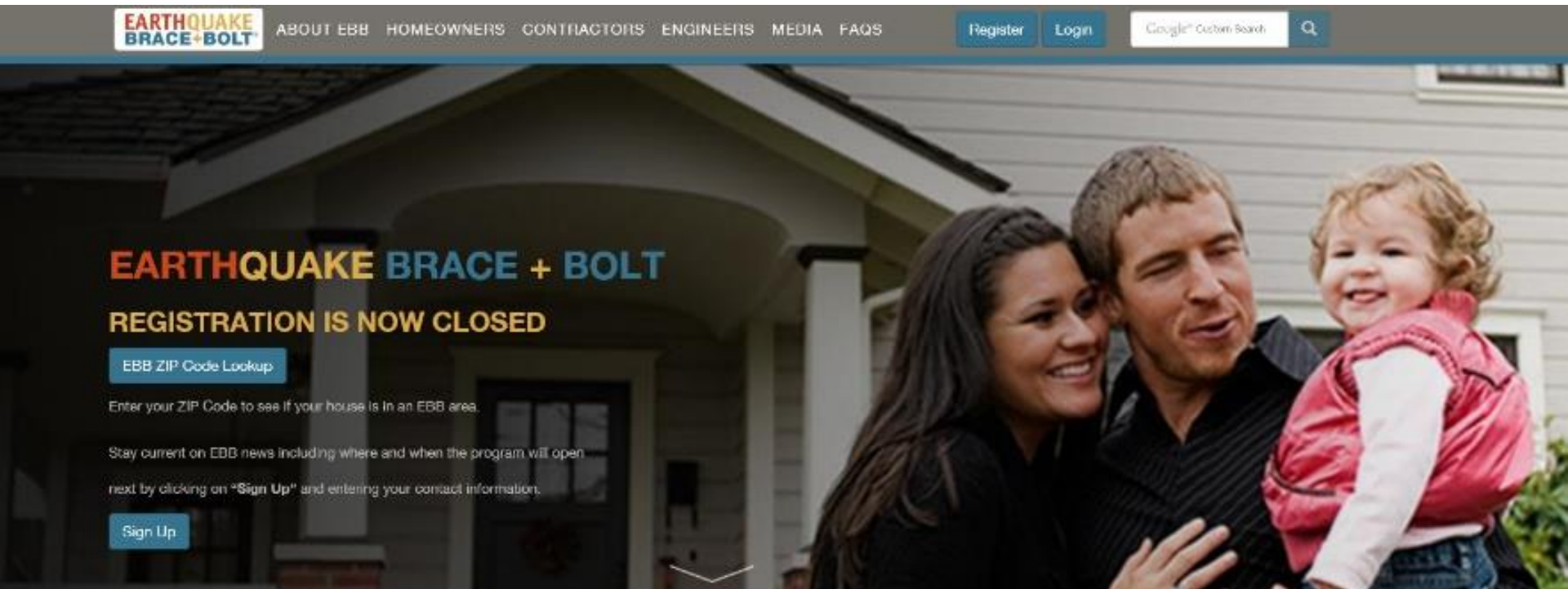
Cripple Wall Retrofit: Framing Clips, Foundation Plates, and Plywood



Crawlspace **Before** Retrofit



Crawlspace **After** Retrofit



**11,000 Retrofits Over Last 5 Years**

**Grant recipients are not required to be a CEA policyholder**

**CEA policyholders may be eligible for up to a 25% premium discount.**

## **PROBLEM**

**State funded mitigation grants  
potentially subject to federal taxation.**

# State Funded Mitigation Programs

## California

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## Alabama

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## North Carolina

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## South Carolina

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Safe Home Program

# H.R. 5494: Catastrophe Loss Mitigation Incentive and Tax Parity Act of 2019

Establishes tax exempt status for grants from state-funded residential mitigation programs for earthquake, windstorm and wildfire.

**Sponsor:** Rep. Mike Thompson (D, CA)

**Co-Sponsors:** **California**

Rep. Aguilar (D)

Rep. Bera (D)

Rep. Brownley (D)

Rep. Calvert (R)

Rep. Chu (D)

Rep. Cisneros (D)

Rep. Cook (R)

Rep. Garamendi (D)

Rep. Gomez (D)

Rep. Panetta (D)

Rep. Sanchez (D)

Rep. Speier (D)

Rep. Swalwell (D)

**Alabama**

Rep. Byrne (R)

Rep. Rogers (R)

Rep. Sewell (D)

**South Carolina**

Rep. Rice (R)

**North Carolina**

Rep. Rouzer (R)

**Wisconsin**

Rep. Moore (D)



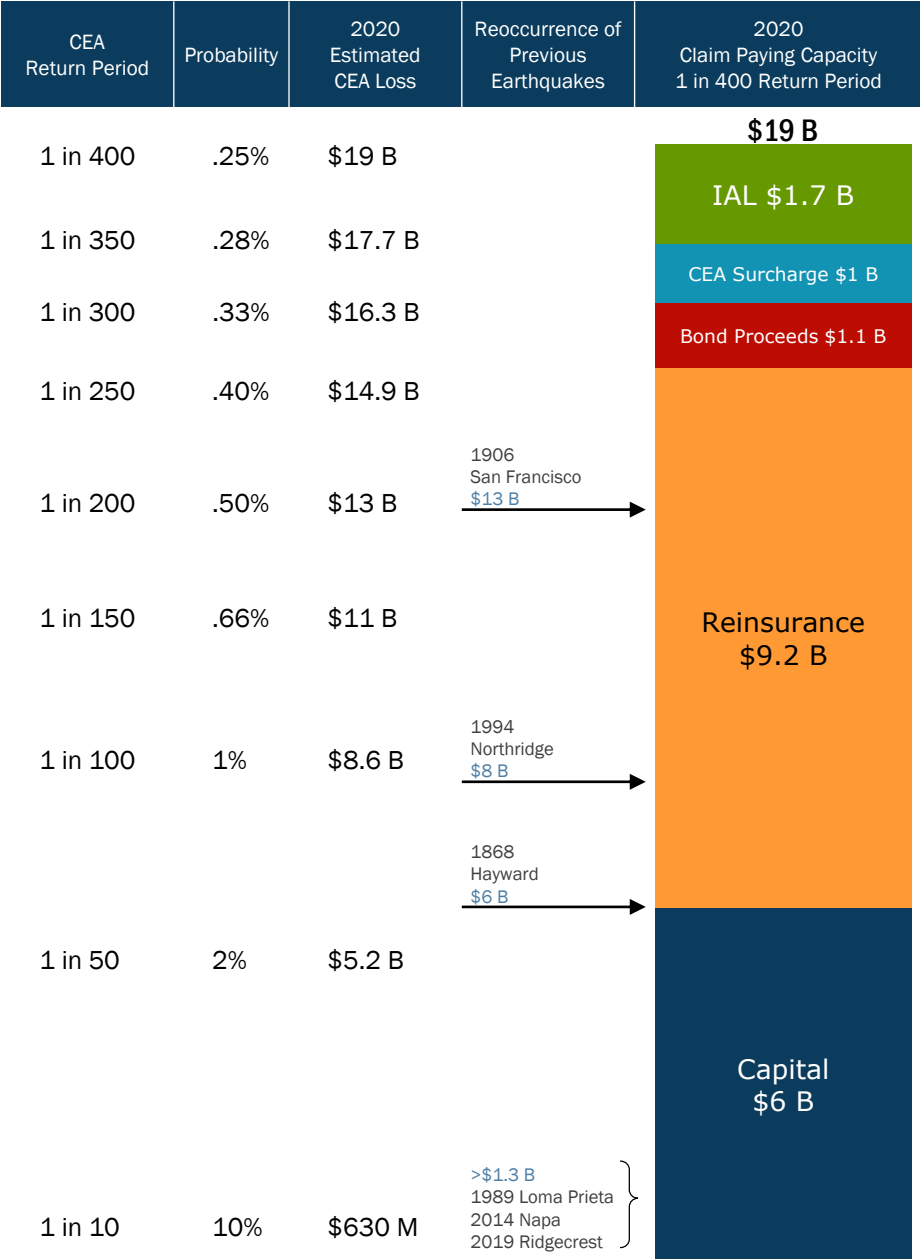
**Goal: Pass H.R. 5494 in 2020**



## OPPORTUNITY

Enable CEA to provide approximately **\$50 million** per year for **natural catastrophe mitigation** in California.

# Concept: Funding for Mitigation



## CEA Claim Paying Capacity

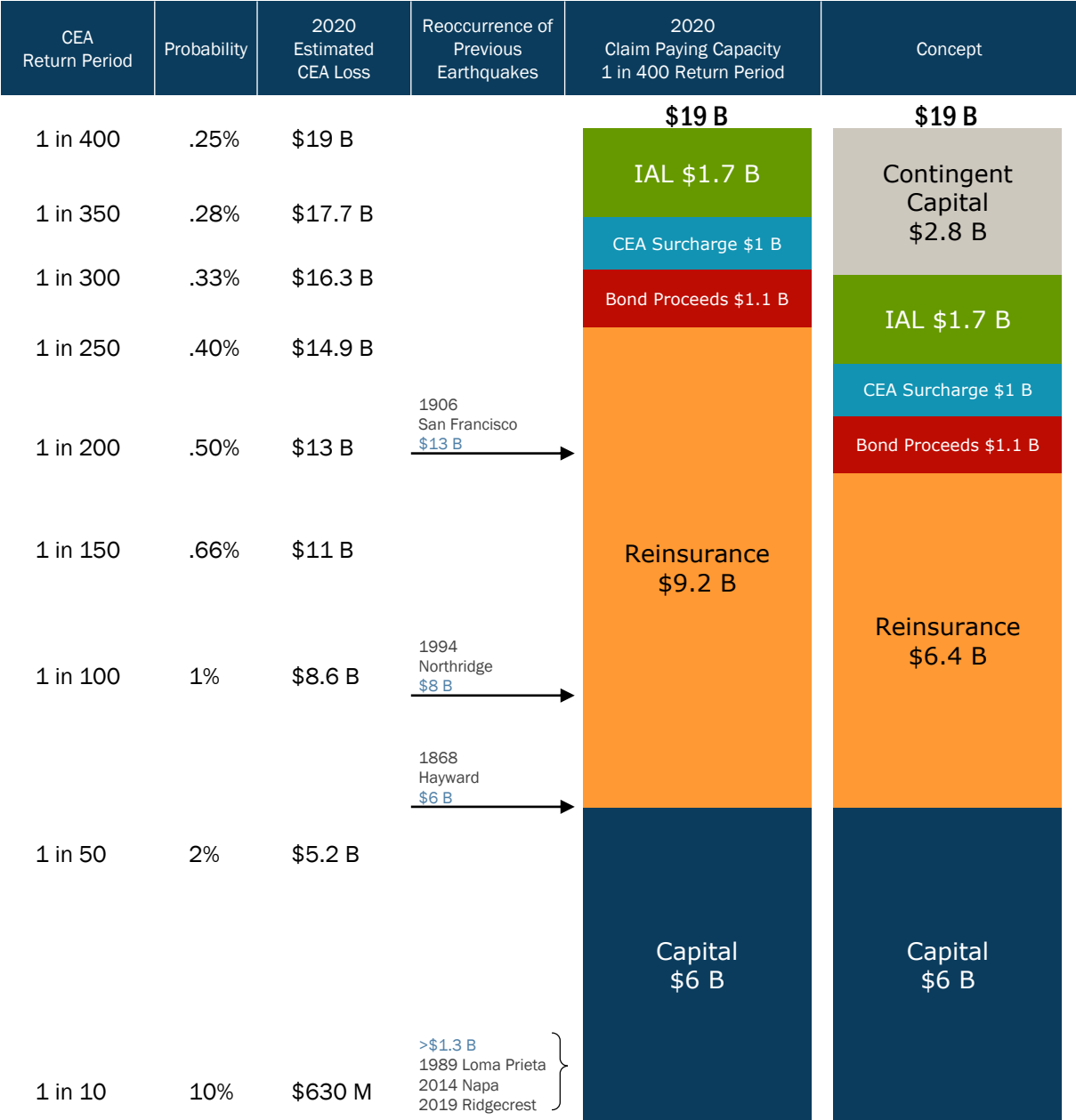
Rating Agencies require CEA to meet an extremely conservative benchmark: enough claim paying capability for a 1 in 400 year return period.

For 2020, CEA must have access to \$19 billion to pay for potential claims. The probability of incurring this much in covered claims is ¼ of 1%.

To meet this benchmark this year, CEA will spend nearly \$400 million in exchange for \$9.2 billion of claim paying capacity.

Since opening in 1996, CEA has spent \$5 billion for its reinsurance protection. Because California has not been hit by a catastrophic earthquake during that time, reinsurers have paid a total of \$250,000 in reinsurance claims over that same period.

# Concept: Funding for Mitigation



Establish a new layer of a contingent capital, funded by a post-event assessment (maximum: 2%) on most property and casualty lines.

*Excluding: Work Comp, Med Mal and Earthquake*

Probability of any assessment being triggered is less than 1/3 of 1%.

In exchange for the Contingent Capital layer approximately \$50 M/year will be invested in earthquake and wildfire mitigation.

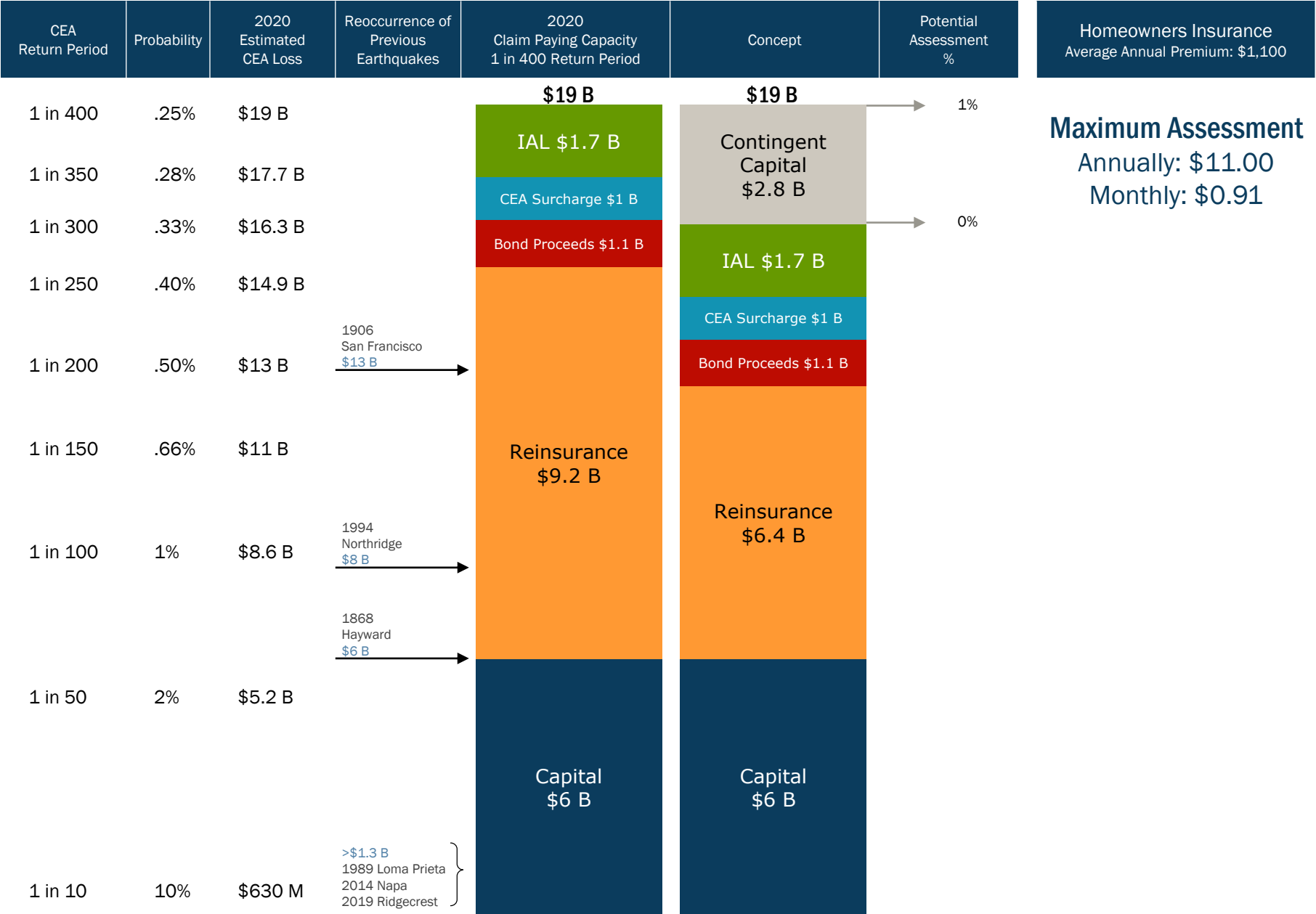
# Concept: Funding for Mitigation

CEA Return Period	Probability	2020 Estimated CEA Loss	Reoccurrence of Previous Earthquakes	2020 Claim Paying Capacity 1 in 400 Return Period	Concept	Potential Assessment %
1 in 400	.25%	\$19 B		\$19 B		1%
1 in 350	.28%	\$17.7 B				
1 in 300	.33%	\$16.3 B				
1 in 250	.40%	\$14.9 B				
1 in 200	.50%	\$13 B	1906 San Francisco \$13 B			0%
1 in 150	.66%	\$11 B				
1 in 100	1%	\$8.6 B	1994 Northridge \$8 B			
			1868 Hayward \$6 B			
1 in 50	2%	\$5.2 B				
1 in 10	10%	\$630 M	>\$1.3 B 1989 Loma Prieta 2014 Napa 2019 Ridgecrest			

Probability of a maximum assessment is ¼ of 1%.

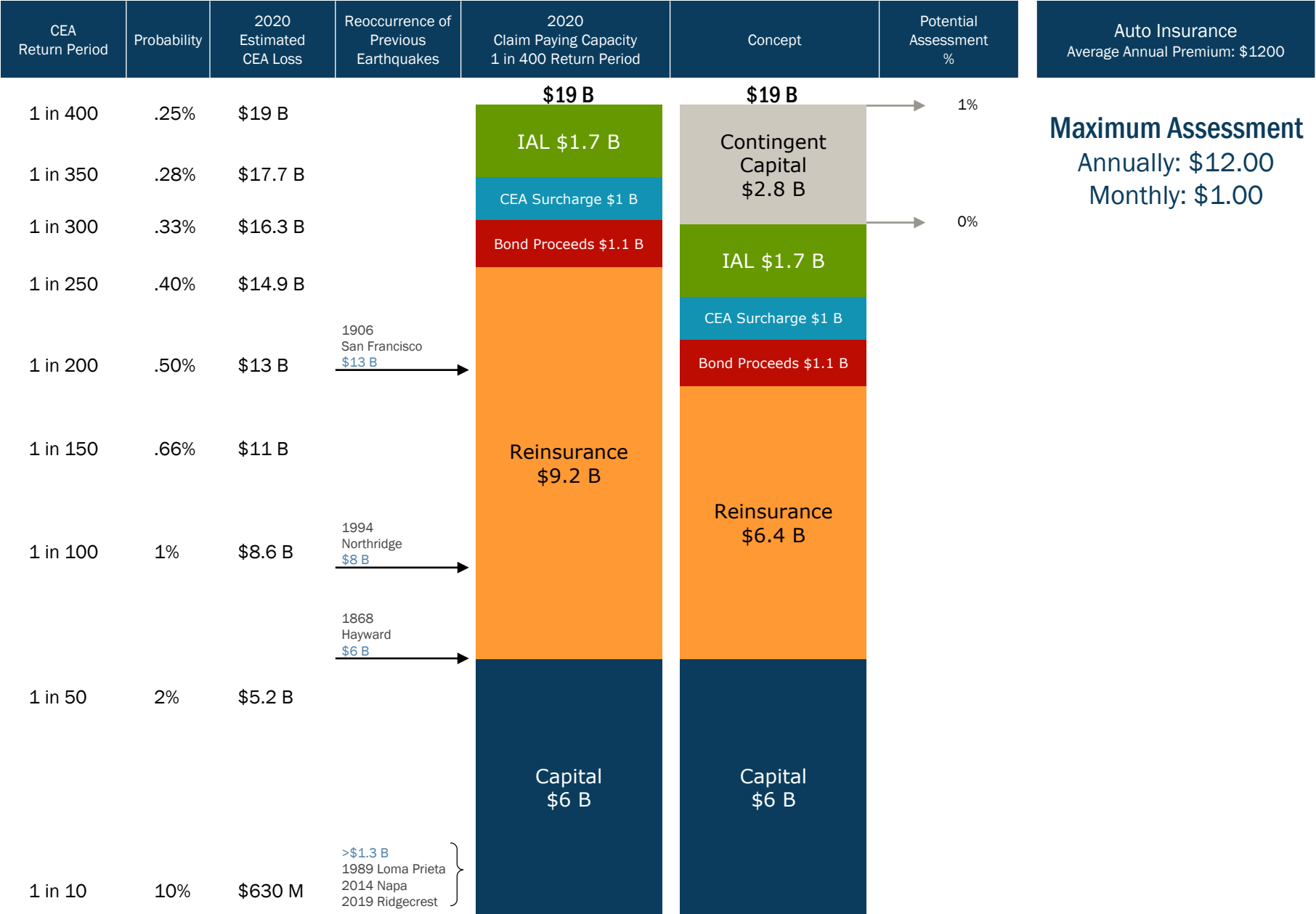
A reoccurrence of any of the most damaging earthquakes in California history would not trigger a post-event assessment.

# Concept: Funding for Mitigation





# Concept: Funding for Mitigation



# Projection: Assuming 7% Exposure Growth

