#### A Wicked Problem

# Consumer research helps build the foundation for data driven earthquake insurance communications in the New Madrid Seismic Zone

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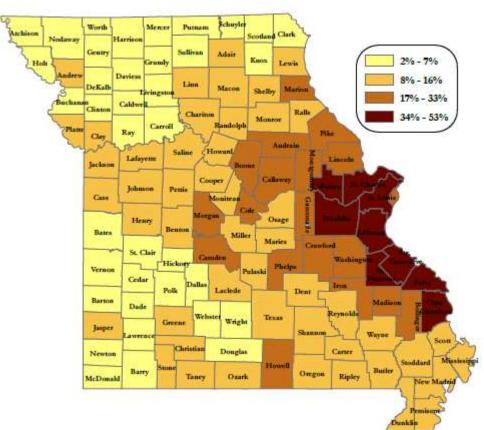




A regionally *Wicked Problem*: Earthquake Risk & the Growing Earthquake Insurance Coverage Protection Gap

 On average, 24% of residential dwellings across MO have earthquake coverage

- ☐ Drop of nearly 20% on average across the state since 2000.
- ☐ In the New Madrid region of MO has decreased 49% from 2000
- NMSZ Region-wide, an estimated 7-16% of homeowners report having earthquake insurance.\*



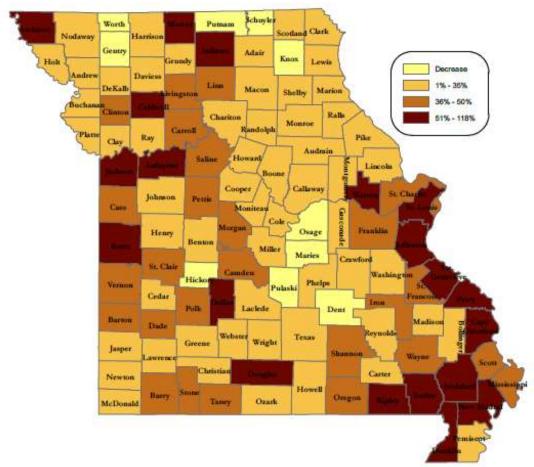
#### Percent of residential policies with EQ coverage, 2021 (MO DCI, 2022)

Note: while historically lower, MO penetration rates are not substantially different than values in CA, OR & WA

<sup>\*</sup> Insurance Information Institute <u>Pulse survey</u>

#1reason people do not purchase earthquake insurance coverage - "earthquake insurance is expensive" (CREW, 2021)

- In MO, since 2000 the cost of earthquake insurance has risen on average by 352% across the entire state
- But cost of coverage has not increased everywhere in MO ...



% Change in Cost of Earthquake Coverage, 2012 – 2021 \$110 - \$140K coverage limits (MO DCI, 2022)

### Demonstrated influences on insurance purchase in addition to cost

- Design of earthquake insurance coverage
- Household demographics & income constraints
- Risk perceptions, including catastrophe experience
- Messaging by insurers, governments, media
- Culture of preparedness
- Expectation of post-disaster relief
- Investments in mitigation

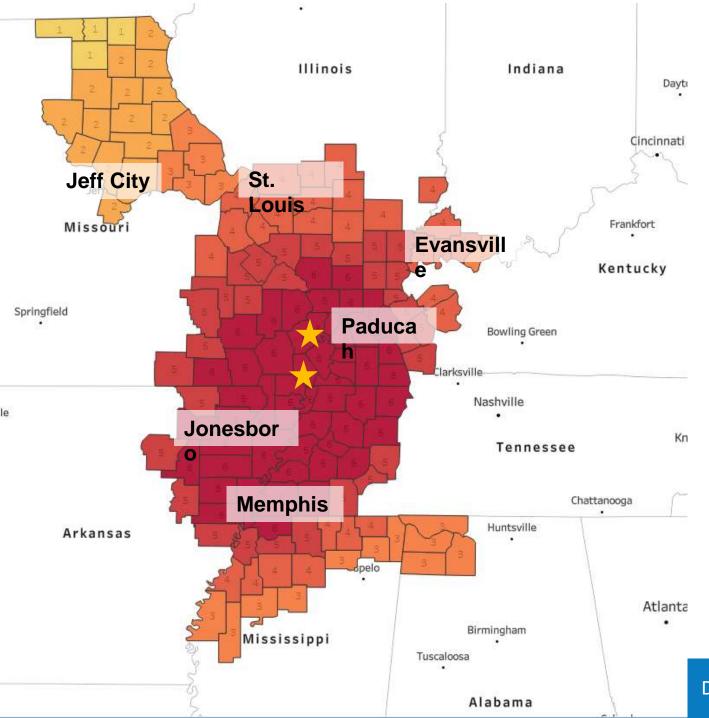
**More:** Kelly, Bowen, McGillivray (2020) The Earthquake Insurance Protection Gap: A Tale of Two Countries; *Journal of Insurance Regulation* 



#### Research study

Multiple methods approach

- Focus groups & interviews with New Madrid, MO-area residents
- NMSZ Regional survey of 1,200+ adults (homeowners & renters)
- Case Study: MO DCI 2021/2022 earthquake campaign
  - Campaign follow-up consumer survey -- MO focused



## New Madrid Seismic Zone counties included in survey

Highest risk

Very high risk

High risk

Moderate risk

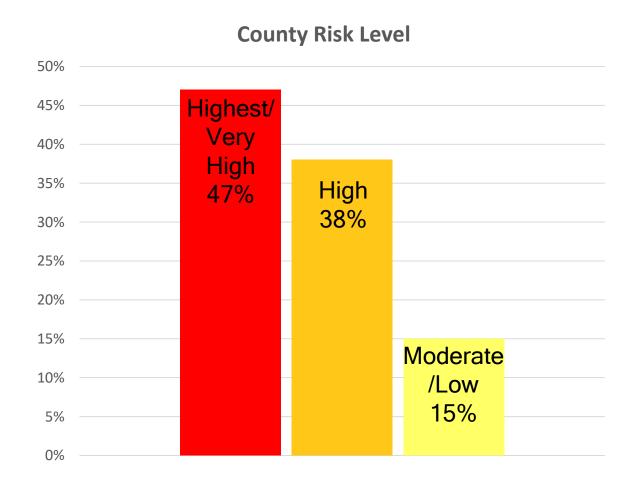
Low risk

Very low risk

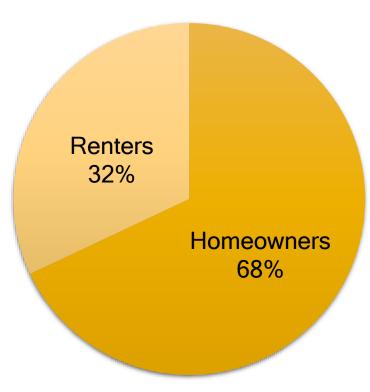


Focus group sites

#### 1,258 individuals completed the survey







#### Do you have earthquake insurance?

Homeowners (n = 853)

	Yes	No	Not Sure
Highest Risk	37%	41%	22%
High Risk	32%	37%	31%
Lower Risk	37%	39%	24%
TOTAL	35%	39%	26%

Renters (n = 404)

	Yes	No	Not Sure
Highest Risk	10%	72%	18%
High Risk	8%	65%	27%
Lower Risk	10%	75%	15%
TOTAL	9%	70%	21%

<sup>\*</sup>All percentages are rounded

#### Top three predictors of earthquake insurance uptake

Using agents to help make insurance decisions



Talking to friends and family about earthquakes



Confidence in having sufficient information about earthquakes



### Key predictors of earthquake insurance uptake

People who use agents to make insurance decisions are **nearly** 

times more likely to have earthquake insurance

OR 2.842. CI 1.888-4.279. α <.001

#### Why did you buy earthquake insurance?

HOMEOWNERS (n = 299)		RENTERS ( <i>n</i> = 37)		
To protect against earthquake damage	60%	Insurance agent recommended it	43%	
Live in a place with earthquakes	49%	To protect against earthquake damage	41%	
Insurance agent recommended it	36%	Live in a place with earthquakes	27%	
Family/friends recommend it	26%	Family/friends recommend it	24%	
I owe a lot on my mortgage	23%			
It is required	14%			

## Key predictors of earthquake insurance uptake: Use of agent to make insurance decisions

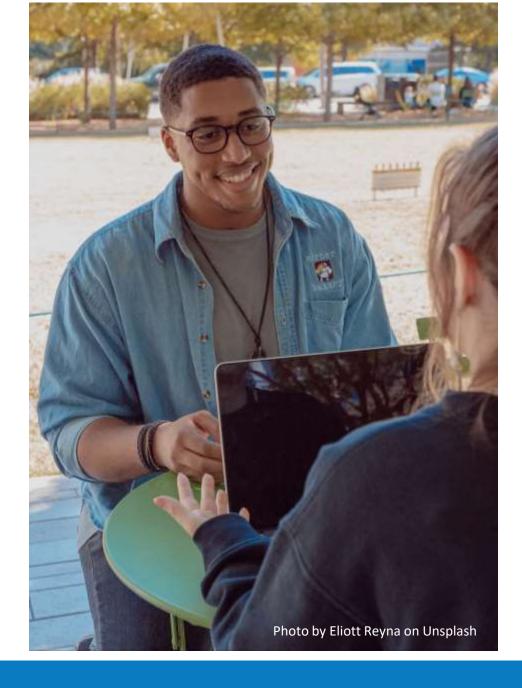
Some agents proactively recommend earthquake insurance:

"Our insurance agents have always **recommended it**."

Some agents advised **against** earthquake insurance:

"I was always told by insurance people that an earthquake here, it's going to be so bad that there's **no point** having the insurance."





### Key predictors of earthquake insurance uptake

When people talk with their family/friends about earthquakes more often, they are nearly

more likely to have earthquake insurance

OR 1.841. CI 1.447-2.344. α <.001

#### Why did you buy earthquake insurance?

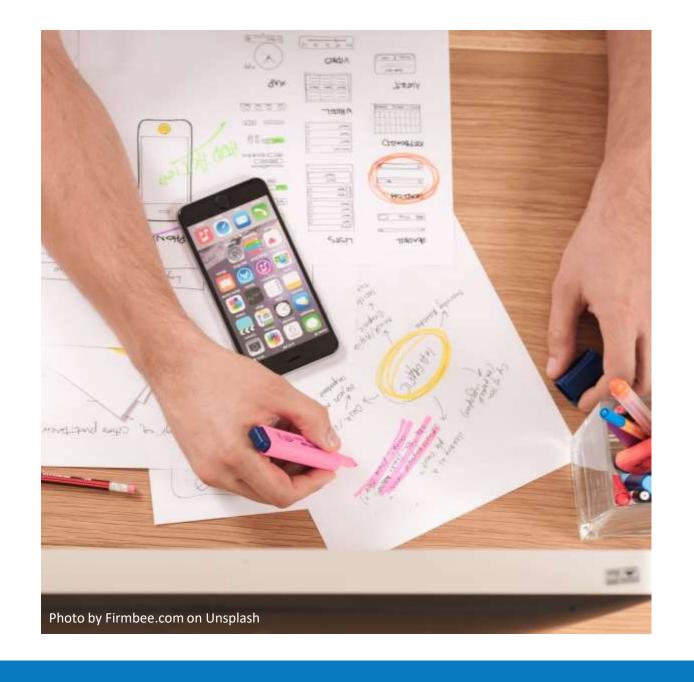
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Family/friends recommend it	26%	Family/friends recommend it	24%	
I owe a lot on my mortgage	23%			
It is required	14%			

### Key predictors of earthquake insurance uptake

As people are more confident they have enough information about earthquakes, they are nearly

more likely to have earthquake insurance

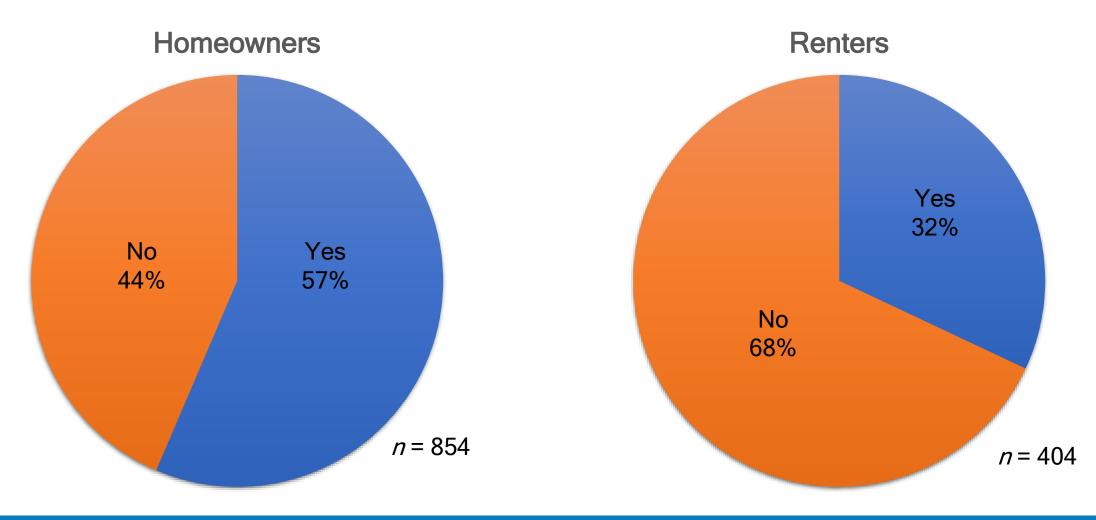
OR 2.216. CI 1.320-3.721. α .001



#### Why do you not have earthquake insurance?

HOMEOWNERS (n = 554)		RENTERS ( <i>n</i> = 367)		
I have not heard of it before	30%	I have not heard of it before	45%	
Too expensive	23%	Too expensive	21%	
Insurance for other risks more important	21%	Don't need it	18%	
Don't need it	14%	Insurance for other risks more important	14%	
Not worth it	8%	Not worth it	8%	
Too hard to get	7%	Too hard to get	5%	

## Did you know regular insurance doesn't cover damage and loss covered by an earthquake?



## Key predictors of earthquake insurance uptake: Earthquake information

"I think in my insurance policy, I have to be honest with you, I haven't read that part that has, I think it has, earthquake. Because I pay quite a bit. Yeah, now that you mention it, I'm gonna pull it out. Look at it real good."

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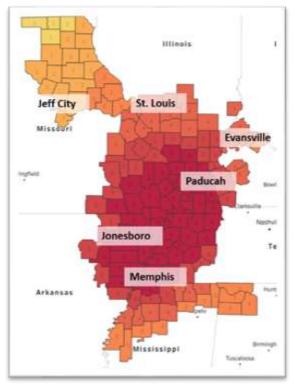
"No, it's not included in our insurance?"

#### Two additional considerations: Cost and risk

Cost of earthquake insurance



Living in a high-risk area



## Cost of earthquake insurance: Not included in model

Have a measure of how much survey participants reported paying for earthquake insurance, but do not have a measure of perceived cost for those without insurance.

23.6% of homeowners and 22.3% of renters who did not have earthquake insurance cited cost as a reason for not purchasing insurance

## Focus group and interviewees were often unsure of earthquake insurance cost

"If there was an earthquake and it would destroy my home,
I would just walk away from the mortgage,
because without earthquake insurance.... That's terrible.
But even if it was offered, are you willing
to spend \$600 a month on something that may not happen?"

Fact check: Earthquake insurance averages \$174/ year in Cape Girardeau county

### Income and home value were not strong predictors of earthquake insurance uptake

	В	OR	CI	α
Income	.074	1.077	.996-1.165	.062
Home Value	.025	1.026	.923-1.140	.637

Logistic regression model predicting homeowner insurance uptake

#### Earthquake experience vs. living in a high-risk area

	В	OR	CI	α
Previous earthquake experience	.143	1.154	1.035-1.286	.010
County-level earthquake risk	.024	1.024	.8851.185	.752

Logistic regression model predicting homeowner insurance uptake

#### Living in a high-risk area

Weakly related to individual perceptions of:

- how likely an earthquake was to occur
- how damaging an earthquake would be if happened
  - experiencing worry, fear related to an earthquake

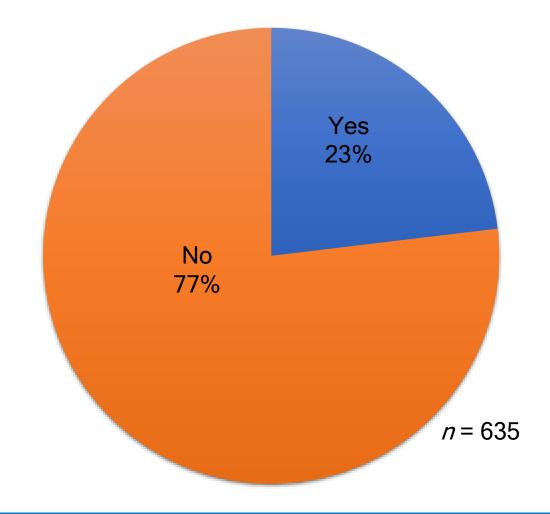


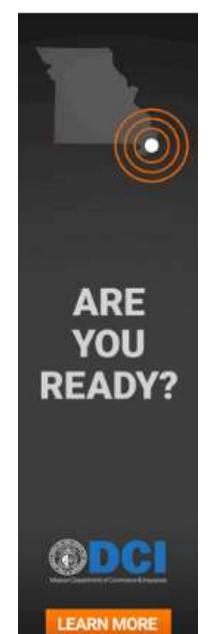






## Have you seen 2021 *Are You Ready* campaign materials?

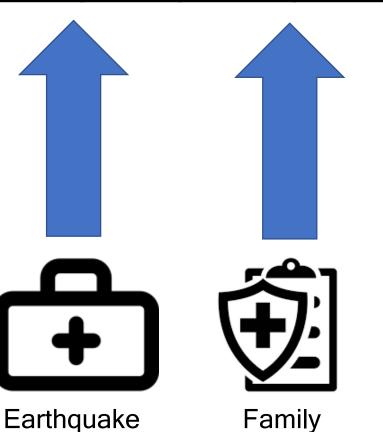




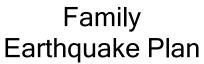
CENTRALUSQUAKE: ORG

#### Impact of seeing DCI campaign

Participants (n = 635) who saw the campaign were:



Kit







# Findings informed Missouri's 2022 Are You Ready campaign

- Increased messaging that homeowner and renter insurance does not protect against earthquake damage.
- Added messaging that consumers should contact their insurance agents to talk about earthquake insurance.

#### CentralUSQuake.org



#### Social Media



#### Radio Script

Earthquakes don't just happen in California. They can happen right here, at any time and with no warning. The chance of a major Missouri earthquake in the next fifty years is as high as forty percent and could cause up to three hundred billion dollars in damage. Are you prepared? **Most homeowner's policies don't cover earthquakes**. Are you covered? Earthquake insurance can help protect you and your family. **Call your insurance agent** or visit Central US Quake dot org....that's central us quake dot org. Remember, it's not IF...it's WHEN.

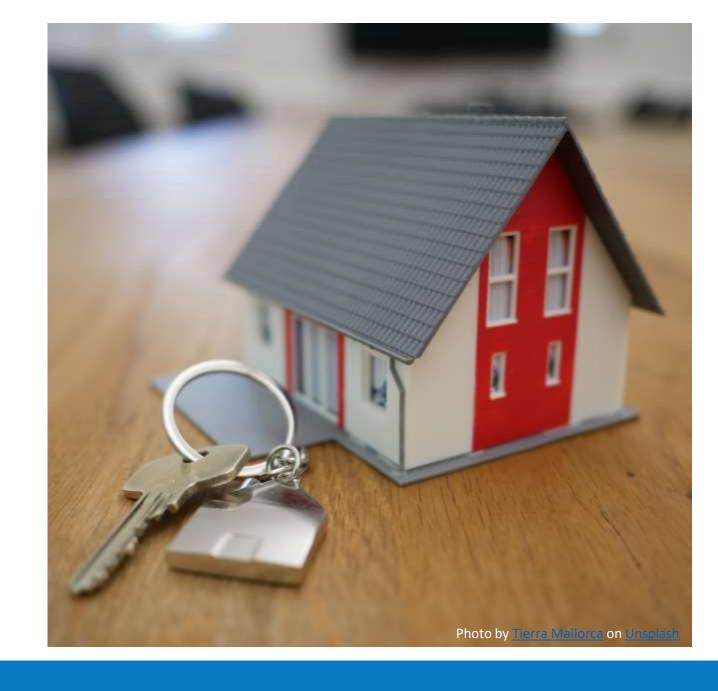
## Missouri earthquake awareness campaign February 2022

#### **Target demographic:**

- Homeowners age 30+
- First-time homeowners age 30-40
- In MO hazard areas 7,8,9 and 10

#### **Tactics:**

- Broadcast radio-- 16 stations
- YouTube TrueView ads
- Facebook/ Instagram paid ads
- Targeted display ads



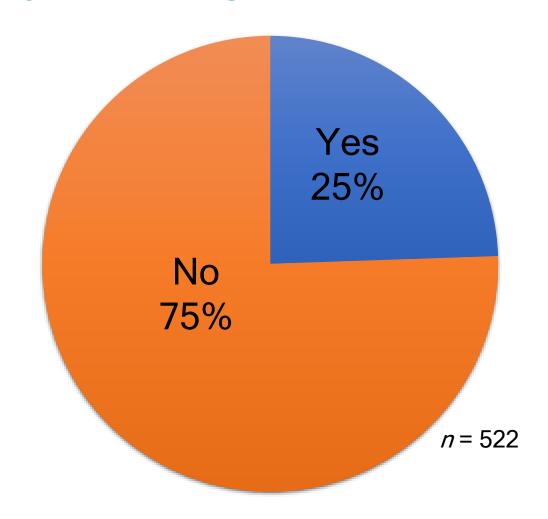
## Missouri earthquake awareness campaign Preliminary campaign results

- 6+ million touchpoints with consumers across YouTube, targeted display and paid social media
- More than 1,209 radio spots scheduled
- Touchpoints drove 12,000+ clicks to https://centralusquake.org/





## Have you seen 2022 *Are You Ready* campaign materials?





#### Impact of seeing 2022 DCI campaign

Participants (n = 130) who saw the campaign:			
Become more aware of earthquake risk	75%		
Looked online for more earthquake insurance information	57%		
Talked to friends, family, neighbors about earthquake insurance	55%		
Reviewed rent/home insurance	47%		
Learned that earthquakes are NOT covered by regular insurance	42%		
Thought about purchasing earthquake insurance	20%		
Decided to purchase earthquake insurance	13%		

## Key predictors: Possible uses in information campaign

#### Conversation starters

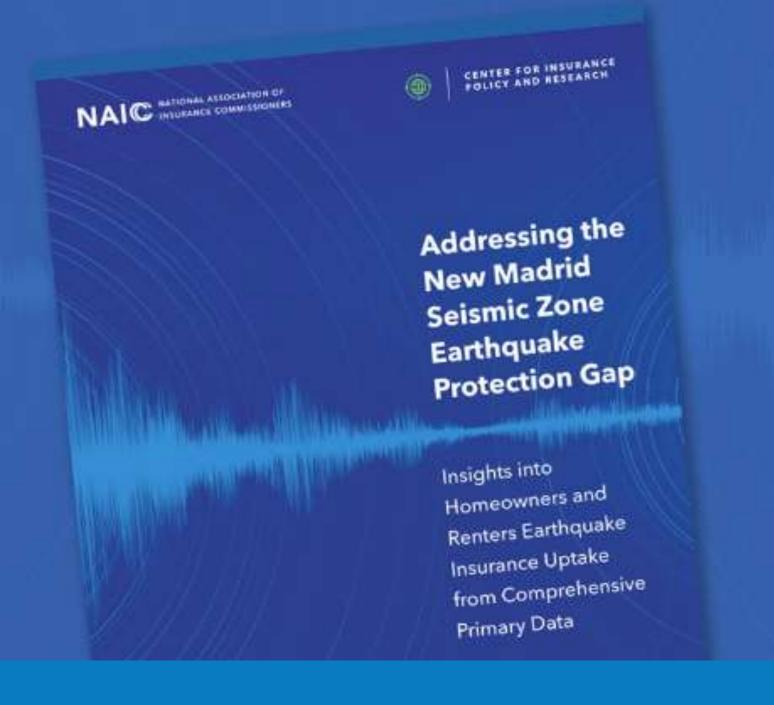
- How can I talk to my family, my friends, or my insurance agent about earthquake insurance?
- Reinforce the idea of talking to others through campaign imagery



## Key predictors: Possible uses in information campaign

- No one solution
- Community approach to preparedness
- Agents can provide alternative resources to clients, including outside referrals





## Full report available to download



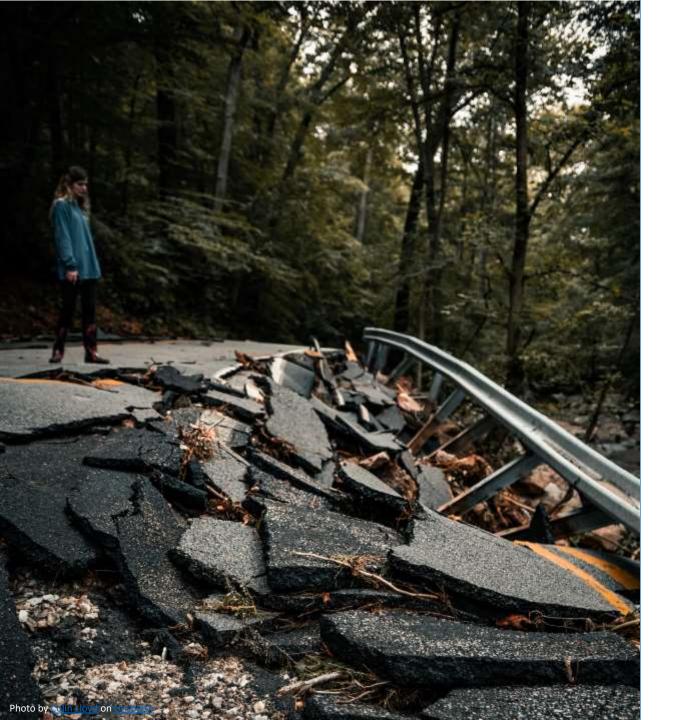
#### **Next steps**

- October 2023 communication campaign
- Partner & collaborate with other CUSEC states



#### Next steps

- Additional survey to assess important factors identified here and cost issues
- Continue to modify & test marketing messages to address gaps in earthquake insurance knowledge



#### **Questions?**

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## Have you ever had earthquake insurance in the past?

