

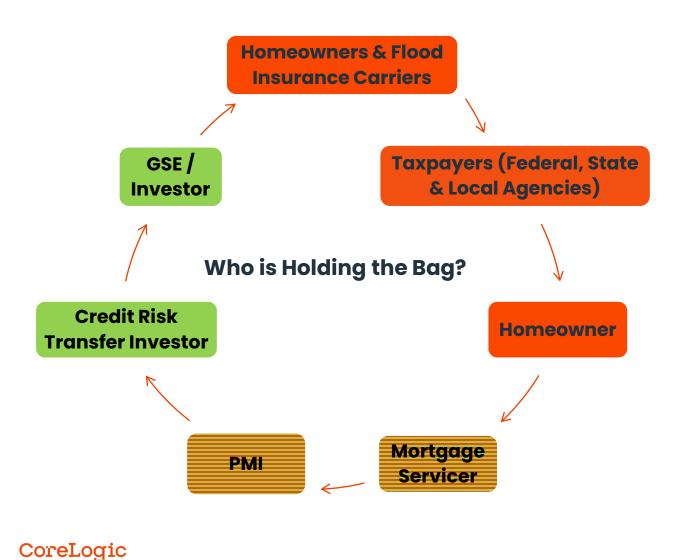
Climate Impact: Housing Insurance Crisis

Pete Carroll

12/7/2023

CoreLogic

Climate-Related Financial Risks to Mortgage Loan Performance

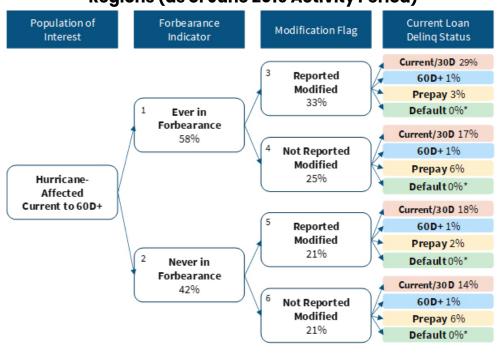




### The Challenge

Our housing system applies an "ex post" approach to managing natural hazard events: homeowners are provided federal, state & local aid, along with natural disaster mortgage loan forbearance or modification

### Loan Performance in 2017 Hurricane-Affected Regions (as of June 2019 Activity Period)





Source: Fannie Mae. Numbers may not sum to 100 percent due to rounding. Values denoted with an asterisk represent non-zero amounts.

This approach to bridging the homeowner while they get back on their feet has worked, but for how much longer?

# Climate Risk Management: An "Ex-Ante" Strategic Framework



Managing What You Measure

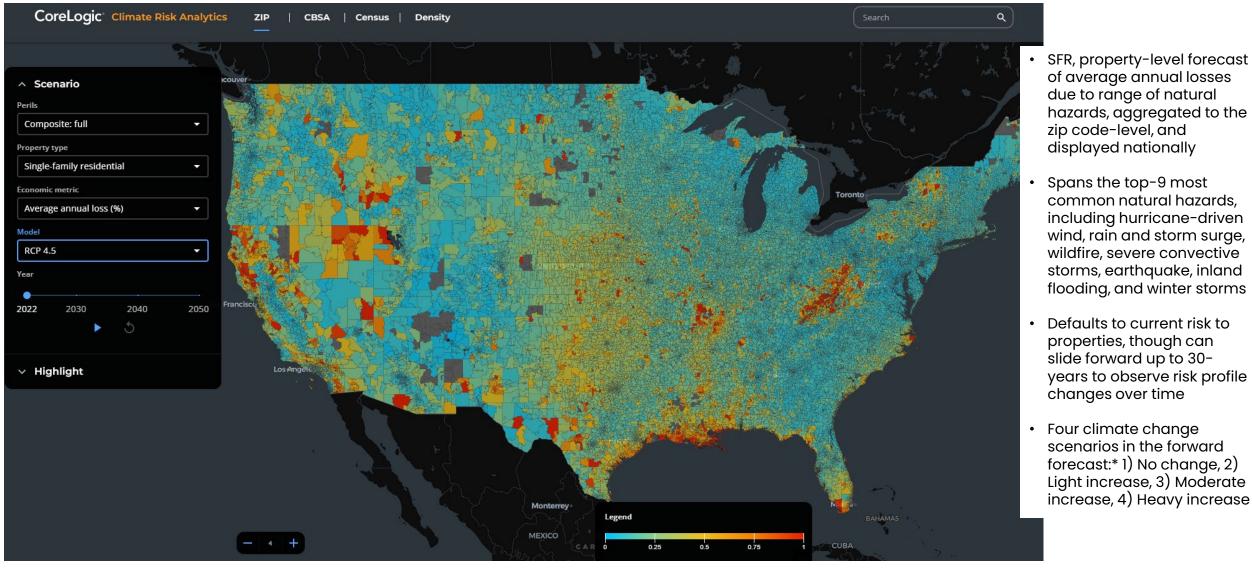
Resiliency Cornerstones

**Consumer Disclosure** 

Risk Management

Recent homeowners insurance premium increases are a "canary in the coal mine," driving housing professionals to ask the tough questions about climate risks to homes

### Managing What You Measure



#### Best Practices in Modeling Climate-Related Financial Risk to Homes

### **Resiliency Cornerstones**

#### **Building Incentives and Hurricane Ian (2022)**



Flood extent of the Peace River in Arcadia, Florida



Federal incentives prohibited SFHA development



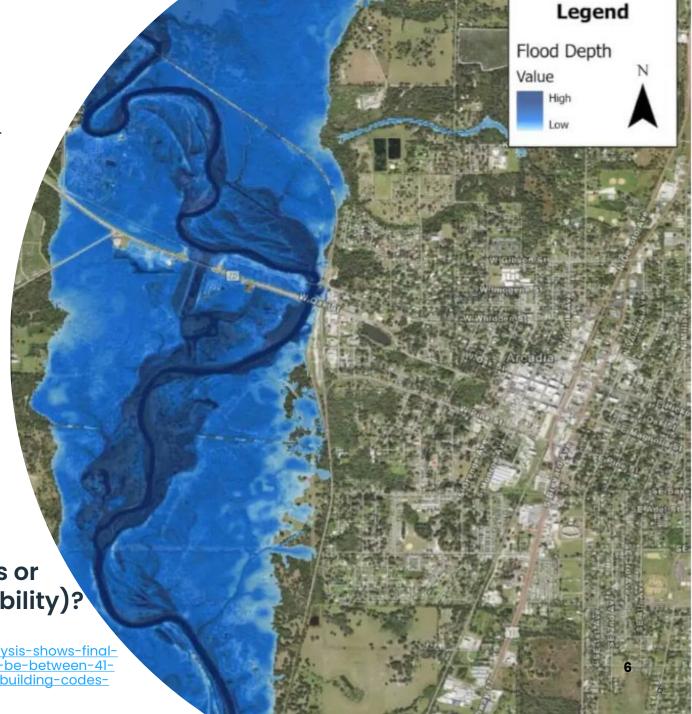
Helped contain uninsured flood losses to ~\$10B-\$17B (out of ~\$41B-\$70B total)



Stronger building codes are correlated with lower, post-event mortgage borrower delinquency

What if we more subtly adapted building codes or incentives to reduce dead weight loss (affordability)?

Sources: https://www.corelogic.com/press-releases/corelogic-analysis-shows-final-estimated-insured-and-uninsured-damages-for-hurricane-ian-to-be-between-41-billion-and-70-billion/ and https://www.corelogic.com/intelligence/building-codes-impact-mortgage-delinquency/



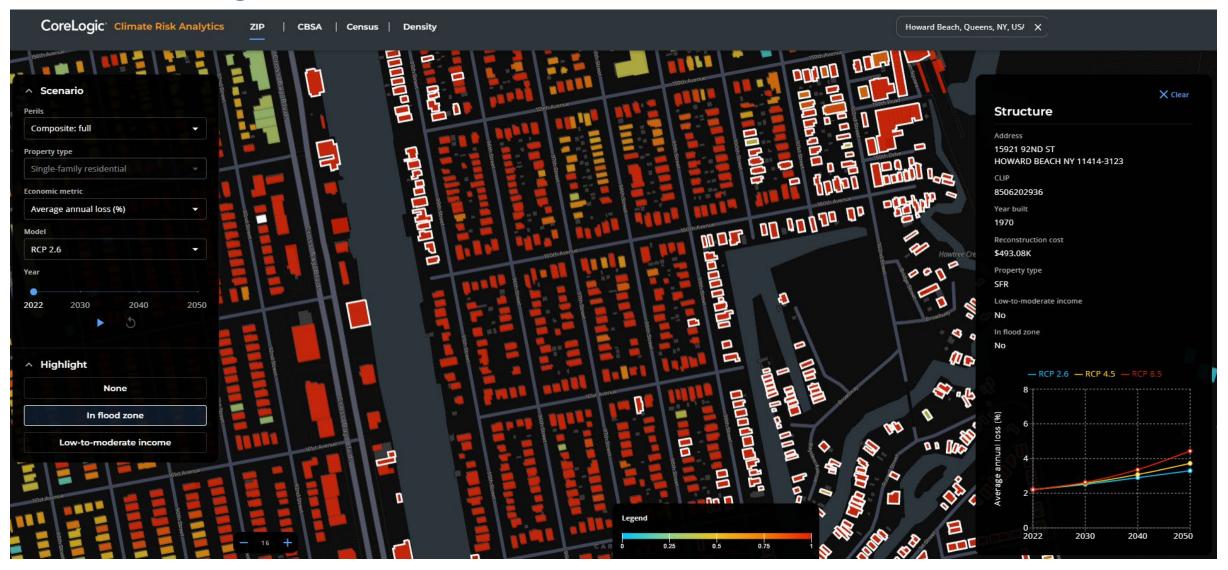
### Consumer Disclosure - Audience Poll

• Would you buy a \$300,000 home if it was your "move-in-ready-dream home?"

 What if your Realtor disclosed to you that the home was damaged by a hurricane 2 years ago?

- What if your Realtor could reliably tell you:
  - o How risk-prone the property is to hurricane-based damages?
  - O What retrofits would ensure the home is more resilient to future events?
  - o Their costs and affordable grants & financing mechanisms available?

### Different disclosures have different cost/benefit trade-offs

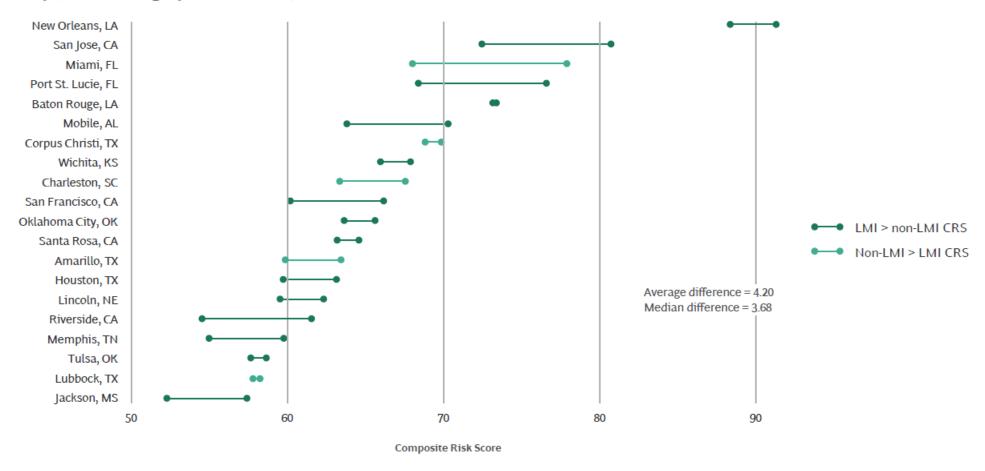


High climate risks posed to homes outside the Special Flood Hazard Area (SFHA)



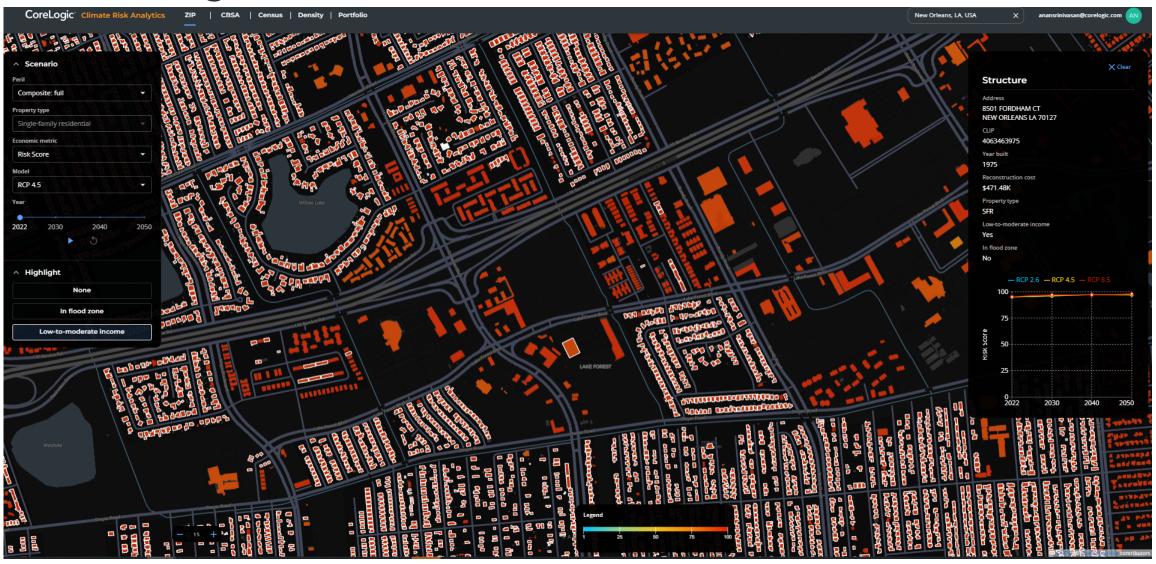
Adjacent homes can have radically different climate risk profiles, regardless of SFHA

City (descending by overall CRS)



Source: CoreLogic; Composite Risk Score is a metric that represents aggregate climate risk across nine major perils, inclusive of the after-effects of earthquakes such as tsunamis and fire following; Data presented here are for CBSAs; Projections based on RCP 4.5 scenario for year 2050

Families living in LMI census tracts have disproportionately higher climate risk exposure



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