CLIMATE RESILIENCE FOR AN AGING NATION

## CLIMATE RESILIENCE FOR AN AGING NATION

Danielle Arigoni Smart Growth Network | Dec 5, 2023

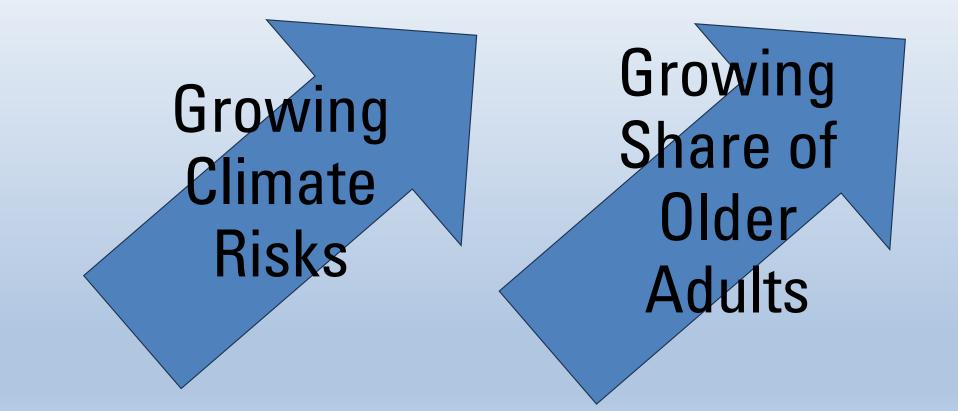


Learn more at nationalhousingtrust.org

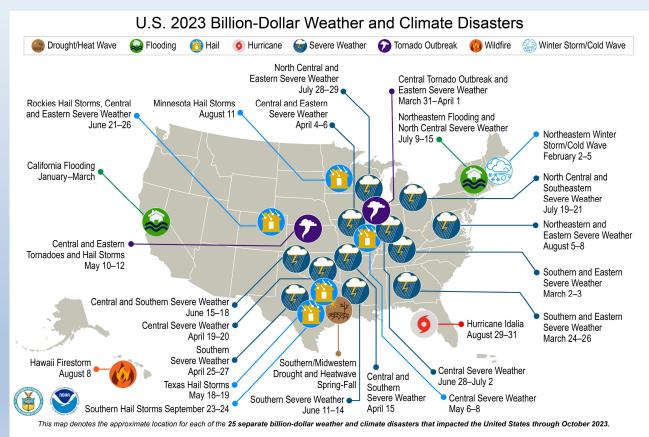
Nonprofit with 35+ years working on affordable housing preservation and sustainability

National leader in climate-resilient solutions through:

- Multifamily housing retrofits and development (4000 units in mid-Atlantic)
- Solar deployment
- Financing
- Policy advocacy
- Resident services



#### **GROWING CLIMATE RISKS**



#### Source: https://www.ncei.noaa.gov/access/billions/

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#### More billion-dollar disasters every year

- 2023: 25 as of Nov
- 2022: 18 events
- Since 1980: ave of 8 events per year

#### **GROWING SHARE OF OLDER ADULTS**

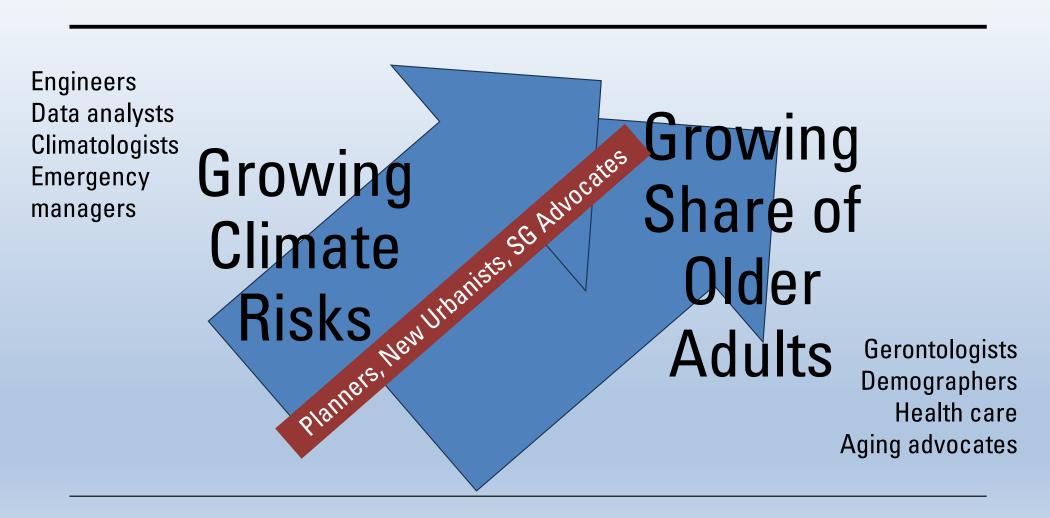
#### % of total population, 1920-2020

more people >65 than <18 for first time ever, and increasingly diverse

#### **POOR UNDERSTANDING OF OLDER ADULTS**



**1 in 6** live in poverty 96% live independently **30%** live alone 20% don't drive 1 in 9 live with dementia 20% need help with ADL 40% have ambulatory limitations 80% have 2+ chronic med issues

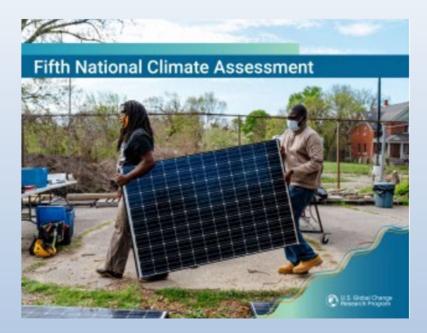


#### FIFTH NATIONAL CLIMATE ASSESSMENT

"*Experiencing Climate Change*" chapter: Older adults +

- Food systems
- Utility costs
- Health impacts

## *Adaptation* chapter: little/no discussion of age



"Adaptation planning can more effectively reduce climate risk when it identifies not only <mark>disparities in how people are affected</mark> by climate change but also the <mark>underlying causes of climate vulnerability</mark>."







Learn more at aarp.org/livablecommunities



#### **OLDER ADULTS BEAR THE BRUNT**

Louisiana: Hurricane Katrina (2005), 70% of people who died were over 65

California: Camp Fire (2018) 85% were over 60

North Carolina: Hurricane Florence (2018) 2/3 were over 60

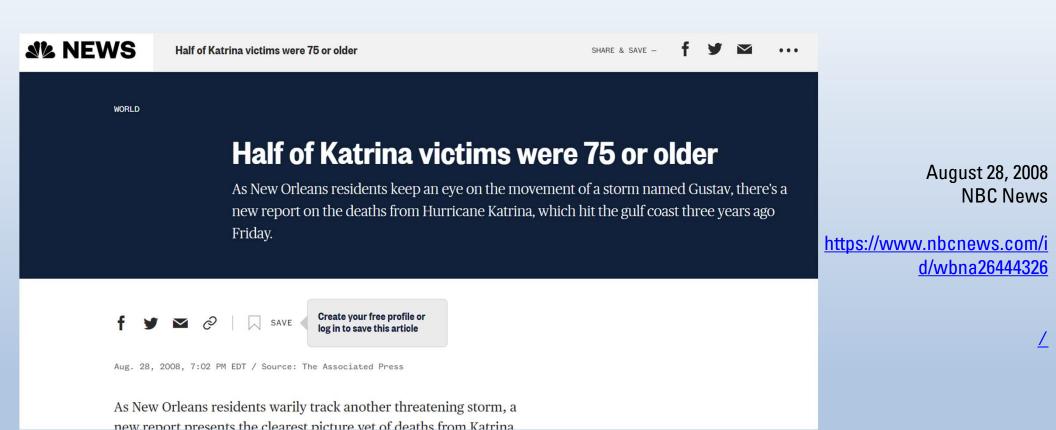
**Oregon** (2021): heat waves **median age** of people who died was 67

Texas: Winter Storm Uri (2021) 2/3 were over 60

Florida: Hurricane Ian (2022) 2/3 were over 60

Hawai'i: Lahaina wildfires (2023) 73% were over 60

Over 20 years: no change



#### AGING

#### **Nearly Half of Tar Heels Killed by** Hurricane Florence Were 70 or Older

Hurricane Florence was especially lethal for older North Carolinians who made up two-thirds of the people who died during and because of the storm.

G Facebook

W Twitte

in LinkedIn

Em:

#### October 8, 2018 North Carolina Health News

https://www.northcarolinah ealthnews.org/2018/10/08/ne arly-half-of-tar-heels-killedby-hurricane-florencewere-70-or-older/

-	by Thomas Goldsmith
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hurricane-

elderly

season-mariastill-taking-a-tollon-puerto-ricos-

July 11, 2018	
PBS Nows Hour	
https://www.pbs.	Amid new hurricane season, Maria still
org/newshour/sh	taking a toll on Puerto Rico's elderly
ow/amid-new-	taking a ton on Fuci to Kico's cluci ly

February 10, 2019 Los Angeles Times

https://www.latimes.com/lo cal/lanow/la-me-ln-campfire-seniors-mobile-homedeaths-20190209-story.html

#### CALIFORNIA

## Must Reads: Poor, elderly and too frail to escape: Paradise fire killed the most vulnerable residents



#### SUBSCRIBERS ARE READING >

#### CALIFORNIA

'Widespread flooding' expected as intense Hilary pounds Southern California

#### CALIFORNIA

Hilary timeline: When will the storm hit? How bad will it get where I live?

WORLD & NATION

The real story behind that photo of a weirdly unscathed house in the rubble of Lahaina

ADVERTISEMENT



#### Vulnerable and Trapped: A Look at Those Lost in Hurricane Ian

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By Eliza Fawcett, Mitch Smith, Ava Sasani, Frances Robles and Eden Weingart Oct. 21, 2022 October 21, 2022 New York Times

https://www.nytimes.com/2022/10/ 21/us/hurricane-ianvictims.html?smid=url-share

NAPLES, Fla. — Rose Marie Santangelo had hurricanes in her decades living near the wat Fla. She thought she was prepared for Hurric

But like so many other Floridians, Ms. Santar aunt who had retired from a career in radiatio underestimated this storm.

"She really thought that it wouldn't hit here," iniece, said. "And then when it did take a turn, was going to be bad."

Ian caused more deaths in Florida — at least its threat. hurricane in almost 90 years. Five other people area none a storm in North Carolina, as well as one in Virginia, Like Ms.

But the storm's impact, while broadly felt, was not even.

Most of the victims were older adults. Two-thirds of them were 60 or older, and 30 were past their 80th birthdays.

The people who died were concentrated in exposed coastal areas and on barrier islands. Though deaths were reported in 21 counties, nearly half came from Lee County, in southwest Florida.

And a large number of victims — at least 58 — drowned, as Ian's <u>size, relatively slow movement</u> and massive storm surge multiplied its threat.

#### Hawaii Many of first victims identified in Hawaii fires are over the age of 70

While full list probably represent broader cross section of ages, deaths underscore risk for elderly people in fast-moving blazes

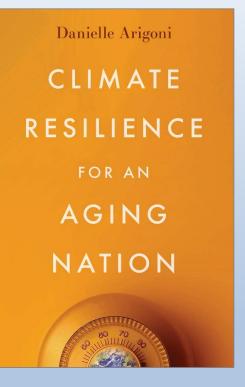


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The Guardian August 18, 2023

https://www.theguardian.com /us-news/2023/aug/18/firstvictims-hawaii-fires-overage-70?CMP=share\_btn\_tw

## WHAT CAN WE DO ABOUT IT?



1. Acknowledge that **climate change impacts older adults differently** – and not just during disasters

# 2. Recognize that **individual and institutional preparedness is not enough**

3. Lean into solutions that **build community resilience** for all ages.

#### TAKEAWAY #1: CLIMATE CHANGE IMPACTS OLDER ADULTS DIFFERENTLY DISASTERS OUR "NEW NORMAL"



#### FOR OLDER ADULTS, DISASTERS MEAN:

- Financial impacts
   from loss or damage
   to property
- Health impacts from interrupted care, persistent damage to homes, and/or evacuation



#### FOR OLDER ADULTS, OUR 'NEW NORMAL' MEANS:

 Health impacts more intense for those with pre-existing health conditions, and those who live alone

# 12,000

deaths caused by heatrelated illness each year 80% of are people over 60

#### FOR OLDER ADULTS, OUR 'NEW NORMAL' MEANS:

Financial impacts from cost of insurance and utilities

# 45%

of households age 75-plus were housing cost burdened in **2019**, paying

or more of income for housing

30%

#### of low-income older adults went without basic necessities to pay for utilities

# \$842/vr to \$5431

is the expected annual flood insurance premium in Louisiana following update of FEMA maps

November 28, 2023 Washington Post

https://www.washin gtonpost.com/natio n/2023/11/28/puertorico-poweroutages-deathrates/

## Light analysis shows where Puerto Rico hurricane damage was especially deadly

The Washington Post

Democracy Dies in Darkness

By <u>Arelis R. Hernández</u>, <u>Andrew Ba Tran</u> and <u>Dylan Moriarty</u> November 28, 2023 at 6:00 a.m. EST

- Access to fresh food, clean water
- Power for in-home medical equipment
- Power for building systems (elevators, HVAC)

#### TAKEAWAY #2: INDIVIDUAL AND INSTITUTIONAL PREPAREDNESS IS NOT ENOUGH



## **15%** OF PEOPLE OVER 65 LIVE IN POVERTY

# **ONE IN NINE**

08/04

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JOR



## 20% of people 55-64 are childless compared to 11% of >75

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# **96%**

#### of people over 65 live outside congregate settings



## **15 PEOPLE DIED**

IN A WAREHOUSE AFTER BEING EVACUATED FROM A NURSING HOME, FOLLOWING AN APPROVED PLAN

### TAKEAWAY #3: BUILD COMMUNITY RESILIENCE



Climate-responsive infrastructure investments Expanded housing options Multiple transportation alternatives Improved communication during disasters

WHAT?

## **WH0**?

Improved policies and practices by utilities Explicit consideration of climate in healthcare Aging is considered by emergency managers Climate seen as the work of aging advocates

# CASE STUDIES IN CLIMATE RESILIENCE FOR AN AGING COMMUNITY (OR STATE)



## THANK YOU

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