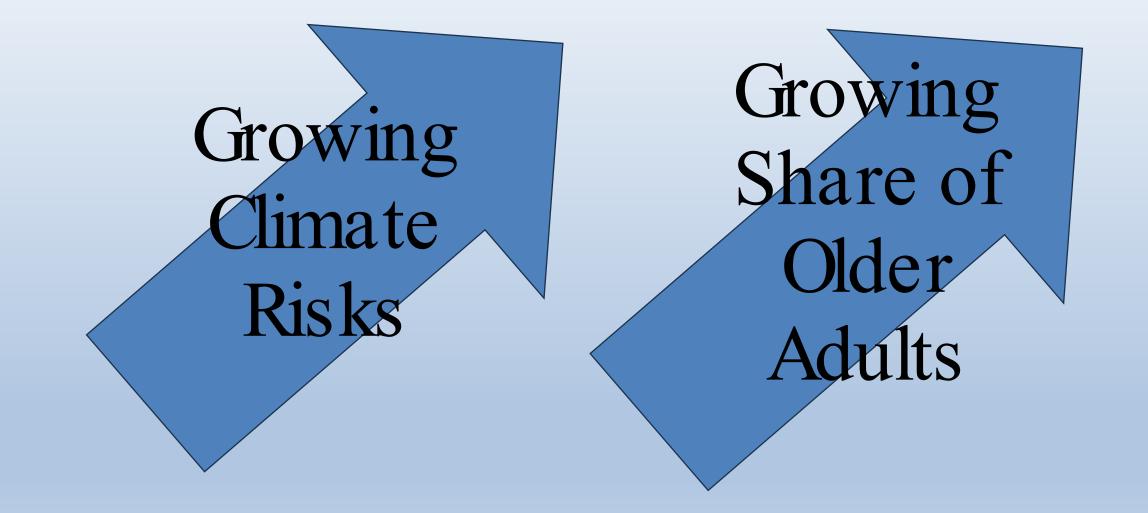
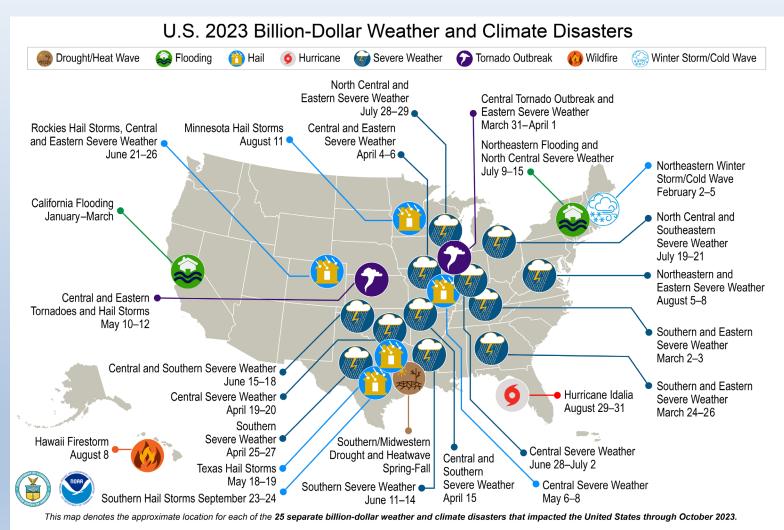


# WHY WE MUST ASSESS RESILIENCE THROUGH THE LENS OF AGING

Danielle Arigoni Regional Solutions Forum October 2, 2024



### GROWING CLIMATE RISKS



Source: NOAA, https://www.ncei.noaa.gov/access/billions/

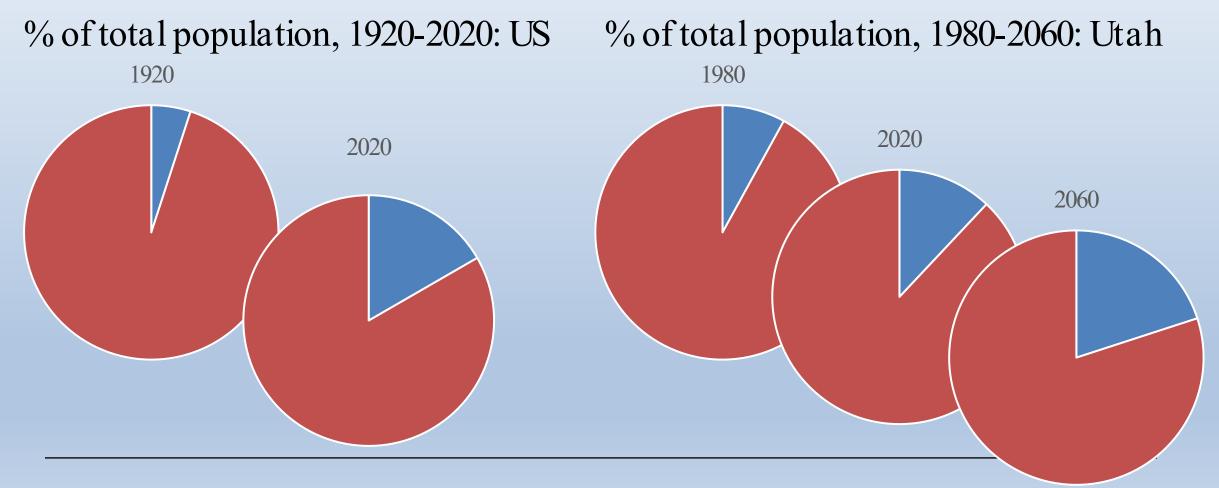
More billion-dollar disasters every

### year

- 2023: 28 events\*
- 2022: 18 events
- Since 1980: average of 8 events per year

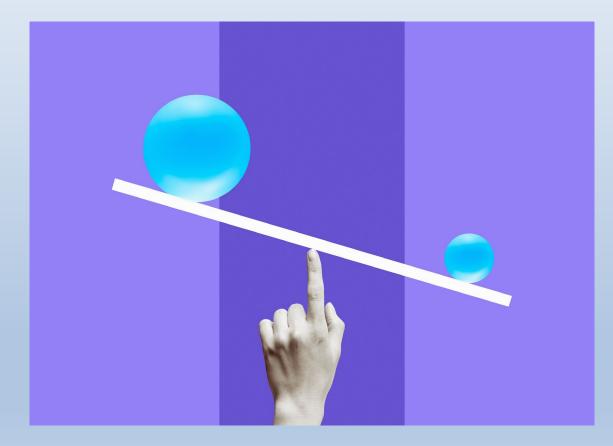
\*Record high

### GROWING SHARE OF OLDER ADULTS



CLIMATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)

### GROWING SHARE OF OLDER ADULTS



# by 2034, more people over 65 than under 18 for first time ever

US Census, March 13, 2018, https://www.census.gov/newsroom/pressreleases/2018/cb18-41-population-projections.html

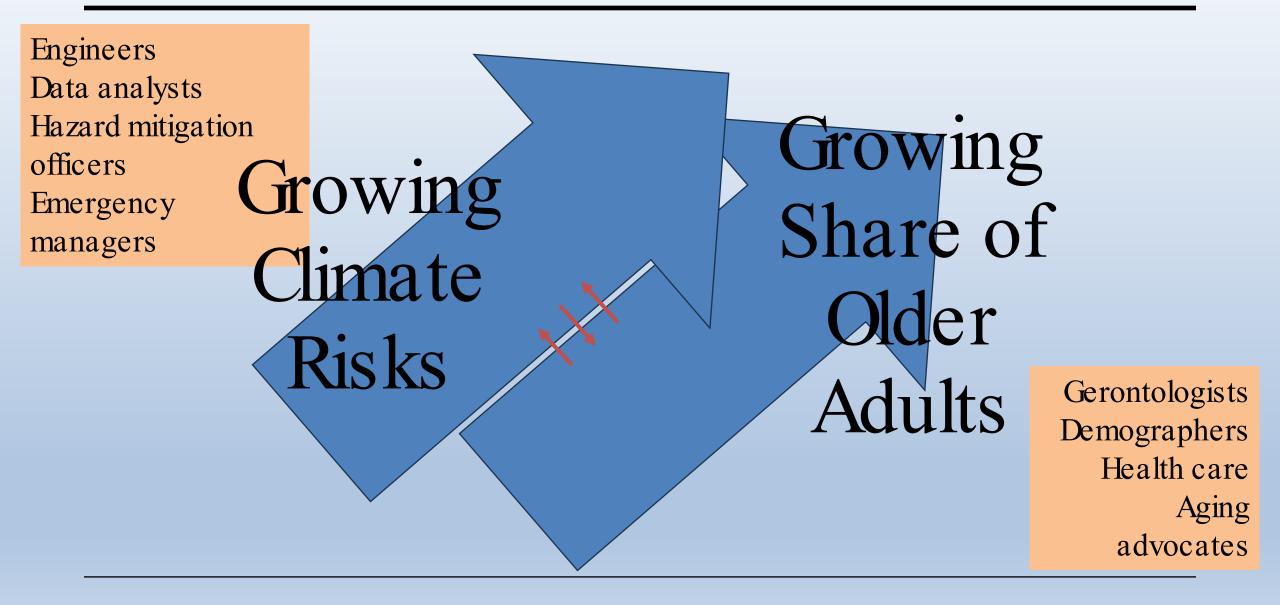
## POOR UNDERSTANDING OF OLDER ADULTS

# POOR UNDERSTANDING OF OLDER ADULTS



1 in 6 live in poverty 98% live independently 30% live alone 20% don't drive 1/3 have unmet travel needs 1 in 9 live with dementia 40% have ambulatory limitations

80% have 2+ chronic med issues









### 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

Oregon (2021): heat waves median age of people who died was 68

Buffalo, NY: Winter storms (2022) 63% of people who died 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

Texas: Post-Beryl power outages (2024) 3/4 were over 60

# PROFILE ON: LAHAINA, HI



- Lived in 35-unit low-income senior complex
  - Independent living; not assisted living
- Many didn't drive; use walkers/canes; report difficulty hearing, seeing

#### As the Maui fires raged, senior victims had to fend for themselves

By Karin Brulliard and Emily Wax-Thibodeaux

Updated August 6:00 a.m. EDT



Louise Abihai (RIP), age 98 Photo credit: Washington Post/Clifford Abihai

August 24, 2023, Washington Post, https://www.washingtonpost.com/nation/2023/08/24/maui-fire-seniorsdisproportionate-victims//

### EMERGING FOCUS ON CLIMATE WITHIN AGING FIELD



By AARP with the Federal Emergency Management Agency

June 2021: focus on climate risks in member-facing publication; June 2022: tool kit for local leaders on disaster s



June 2022: 'Generations' focus on climate crisis + establish 'fighting climate change' as policy priority

March 2024: focus on age-friendly communities, heat, adaptation plans,

more

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## AGING NOT YET A FOCUS IN FEDERAL GUIDANCE

#### FEMA STATE HAZARD MITIGATION GUIDANCE

#### 2015 requirements

#### 2022 requirements

#### S2. Does the plan describe how the state coordinated with other agencies and stakeholders?

The plan must describe how other state and Federal agencies and other stakeholders were involved in the process. At a minimum, the plan must describe how the state coordinated with other agencies and stakeholders responsible for the following sectors:

- a. Emergency management;
- b. Economic development;
- c. Land use and development;
- d. Housing;
- e. Health and social services;
- f. Infrastructure; and
- g. Natural and cultural resources.

Where coordination with agencies and stakeholders representing these sectors is not practicable, the plan must describe the limitations.

*Involved in the process* means engaged as participants and given the chance to provide input to affect the plan's content.

- a. The plan must describe how the state coordinated with other state agencies and appropriate federal agencies that were involved in the process and how they were involved in the process. At a minimum, the plan must describe how the state coordinated with other agencies and interested groups, including stakeholders responsible for the following sectors:
  - Emergency management (including Safety and Security, Hazardous Materials, and Food, Water, Shelter community lifelines);
  - Economic development;
  - Land use and development, including the agency or department that regulates building codes;
  - Housing (including Food, Water, Shelter community lifelines);
  - Health and social services (including Health and Medical community lifelines);
  - Infrastructure (including Energy, Communications, Transportation, and Food, Water, Shelter community lifelines); and
  - Natural and cultural resources.
     Source: FEMA's State Mitigation Planning Policy Guide (April 2022)



Missing: aging services, disability services

CLIMATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)

### AGING NOT YET A FOCUS IN FEDERAL GUIDANCE

#### HUD CONSOLIDATED PLAN GUIDANCE

#### **Public Housing, Affordable Rental Housing, and Housing** for Vulnerable Populations

It is important that the grantee analyzes and describes unmet need in various housing categories. To successfully analyze each type of housing, the grantee should coordinate with local public housing authorities (PHAs), State Housing Finance of Transportation and Federal Highway (e.g., Section 8 Housing Choice Voucher Program, HOME, ESG, etc.) in the MID areas. When evaluating housing for vulnerable populations, the grantee must describe how CDBG-DR funds (or other sources) will promote housing and address housing finance agencies. transitional housing, prevention measures to

#### Critical Partners and Data Tools

Key agencies that may be helpful in developing the impact and unmet needs assessment are FEMA, the U.S. Department agencies, and other HUD-funded program: Administration for transportation issues, the U.S. Small Business Administration, the U.S. Census Bureau, the U.S. Department of Agriculture, the U.S. Department of Labor, state departments of transportation, housing, community development, and



Focus: low and moderate income households, jurisdictions with unmet recovery needs, underserved communities, protected classes, and vulnerable populations. Missing: aging departments, public health agencies

Source: HUD's CDBG-DR Policy Bulletin (November 2022)

CURRENT APPROACH TO RISK MITIGATION AND RESILIENCE...

- Doesn't account for older adults' challenges to adapt
- Leaves too many people unserved/underserved
- Fails to account for layered risks of age on top of other vulnerabilities



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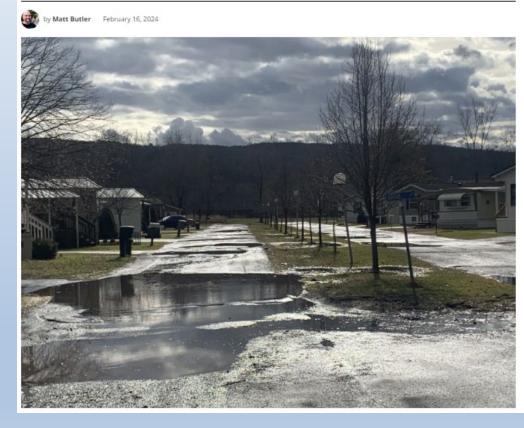
ne Ithaca Voi Always Local Since 2014

GOV+POLITICS V ECONOMY V HEALTH V PUBLIC SAFETY V EDUCATION V ENVIRONMENT CULTURE V ABOUT V SUPPORT US

# PROFILE ON: ITHACA, NY

- New floodplain maps based on Risk Rating 2.0
- Homeowners required to elevate, or get flood insurance
- Complexity of navigating FEMA requirements

#### New federal flood maps almost finalized pending municipal appeal process



Feb 16, 2024, Ithaca Voice, <u>https://ithacavoice.org/2024/02/new-federal-flood-maps-almost-</u> <u>finalized-pending-municipal-appeal-process</u> /

# PROFILE ON: VENTURA COUNTY, CA

- 3" of rain in 45 minutes
- 500 homes damaged
  - Older adults, low-income, undocumented
- Costs to repair >\$30k
- Too small to trigger FEMA; just SBA loans

#### Local state of emergency declared in Port Hueneme following rain damage

KCAL By Julie Sharp December 27, 2023 / 12:41 PM PST / KDAL News

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Dec 27, 2023, CBS News, https://www.cbsnews.com/losangeles/news/local-state-of-emergencydeclared-in-port-hueneme-following-rain-damage/

### OLDER ADULTS UNSERVED OR UNDERSERVED

# TEXAS: <sup>3</sup>/<sub>4</sub> OF DEATHS FROM POST-BERYL POWER OUTAGES WERE OLDER ADULTS

https://www.houstonpublicmedia.org/articles/news/health-science/2024/07/31/495276/seniors-died-at-higher-rates-after-beryl-many-went-days-without-power-in-the-aftermath

# MONTANA: 1% INCREASE IN 911 CALLS WITH EVERY 1 DEGREE OF ABOVE-AVE HEAT

https://www.npr.org/sections/shots-health-news/2024/08/07/nx-s1-5055828/missoula-montana-911-calls-heatwave-rural-seniors-health





# 20% of older adults 55-64 are childless

CLIMATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)



# 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

Source: Khimm/Strickler article, NHC News 9/30/21

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# CLIMATE IMPACTS FINANCIAL WELL-BEING

- Number of older people who are housing cost burdened is higher than ever
- True cost of housing must account for increasing cost of insurance and utilities

# More than One in two

older renters in US were housing cost burdened in 2021

older renters in Utah are cost burdened

Six in ten

### Households headed by person >60 had to forego food or medical necessities to pay for utilities

7 million

For low-income households, the median cost of utilities =

6 do fannual income

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# \$842/yr to \$5431

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

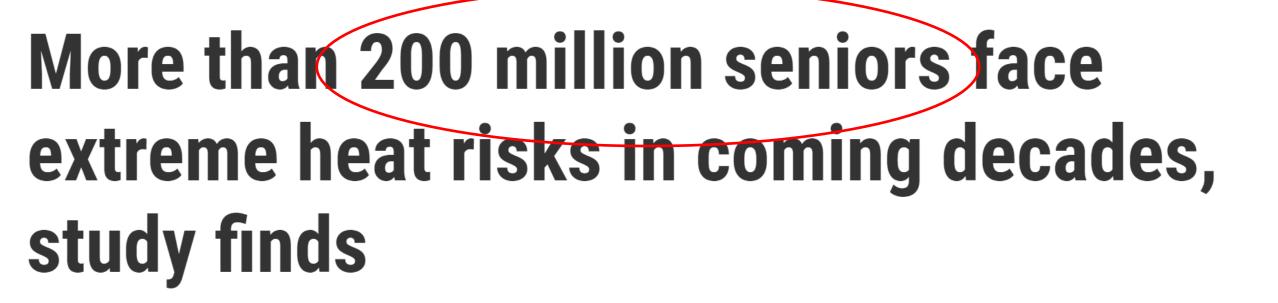
# CLIMATE IMPACTS HEALTH

Extreme heat effects are more intense for people with pre-existing health conditions
Increased flooding can lead to poor indoor air quality

12,000 deaths caused by heatrelated illness each year 80% of are people over 60



Donate





UPR Live

Access Utah



https://www.upr.org/2024-05-14/more-than-200-million-seniors-face-extreme-heat-risks-in-coming-decades-study-finds

November 28, 2023 Washington Post

**The Washington Post** Democracy Dies in Darkness

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

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

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)

## What can we do about it?

Danielle Arigoni CLIMATE RESILIENCE FOR AN AGING NATION

### TAKEAWAYS TO SPUR ACTION

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.

# COMMUNITY RESILIENCE MEANS...



MATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)

Climate-responsive infrastructure investments

Expanded housing options Multiple transportation alternatives Improved communication

during/between disasters

# CLIMATE-RESPONSIVE INFRASTRUCTURE

Grey and green infrastructure solutions
(Accessible) open space and more trees
Parks/public spaces that foster connection
More resilient and renewable energy

Image: USEPA, Church of Jesus Christ of Latter-Day Saints (LDS) Conference Center

# EXPANDED HOUSING OPTIONS

More affordable, accessible, green housing options • Zoning reform and risk-informed decision-making to guide development Better building codes, better design • Greater investment in rooftop and community solar to lower costs and stabilize supply

# MULTIPLE TRANSPORTATION ALTERNATIVES

- Better bike/ped infrastructure
- Robust and agile public transit network
- Accessible emergency vehicles
- Shared use agreements
- Human service transportation plans that include disasters

# **IMPROVED COMMUNICATION**

- Better communication systems (including nonweb-based)
- Stronger community-based networks to provide support and information before and during events

CLIMATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)

Image: Broadmoor Community Lighthouse, New Orleans

# NATURAL CONNECTIONS TO UTAH'S MPA

Age-friendly ecosystems

Live well everyday

Affordable aging Plan for life

Networks for care

Embrace technology

CLIMATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)

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

# NEW PARTNERS ARE NEEDED

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



After the pronouncement of the judgement before the ECtHR on 9 April 2024 Photo © Miriam Künzli / Greenpeace

Learn more: https://en.klimaseniorinnen.ch/

Reuters article on case: <u>https://www.reuters.com/sustainability/climate-activists-seek-</u>

CLIMATE RESILIENCE FOR AN AGING NATION (D. ARIGONI)

breakthrough-human-rights-court-ruling-against-european-2024-04-09

# **THANK YOU**

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Danielle Arigoni CLIMATE RESILIENCE FOR AN AGING NATION

