



National Institutes of Health

Climate Change and Health Initiative



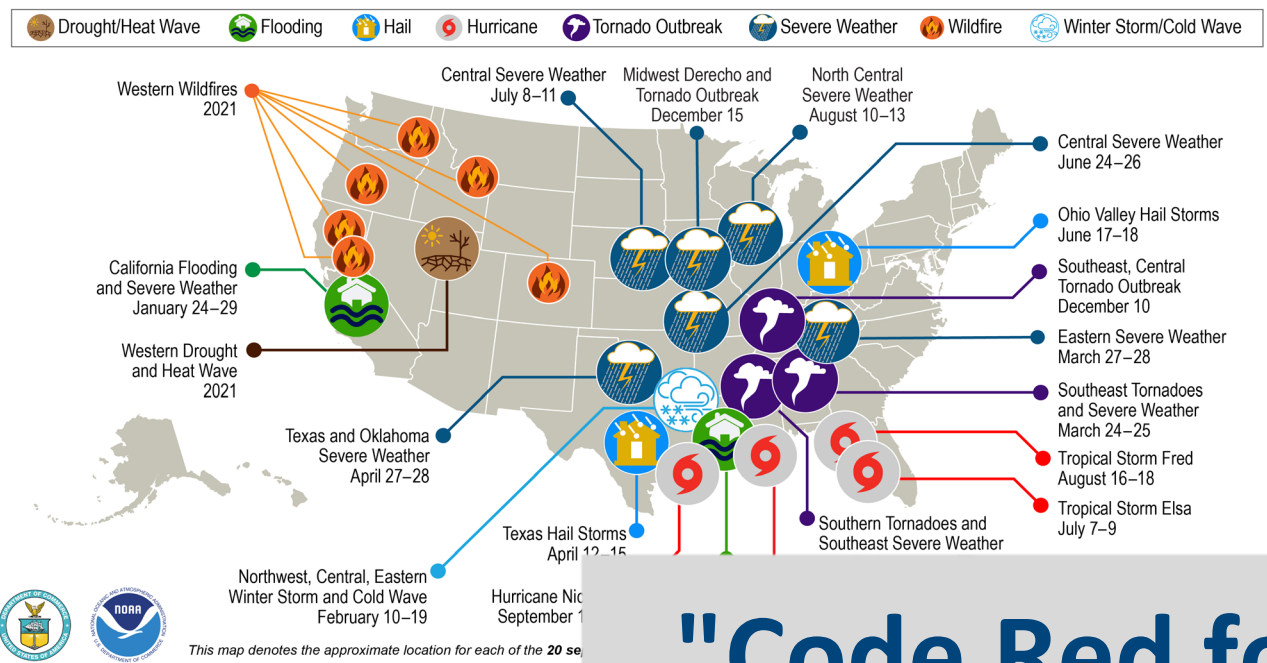
The NIH Climate Change and Health Initiative

Dr. Gwen Collman, NIEHS

November 4, 2022

SRP Risk-E learning webinar

U.S. 2021 Billion-Dollar Weather and Climate Disasters



"Code Red for Humanity"

UN Secretary General on IPCC 2021 report



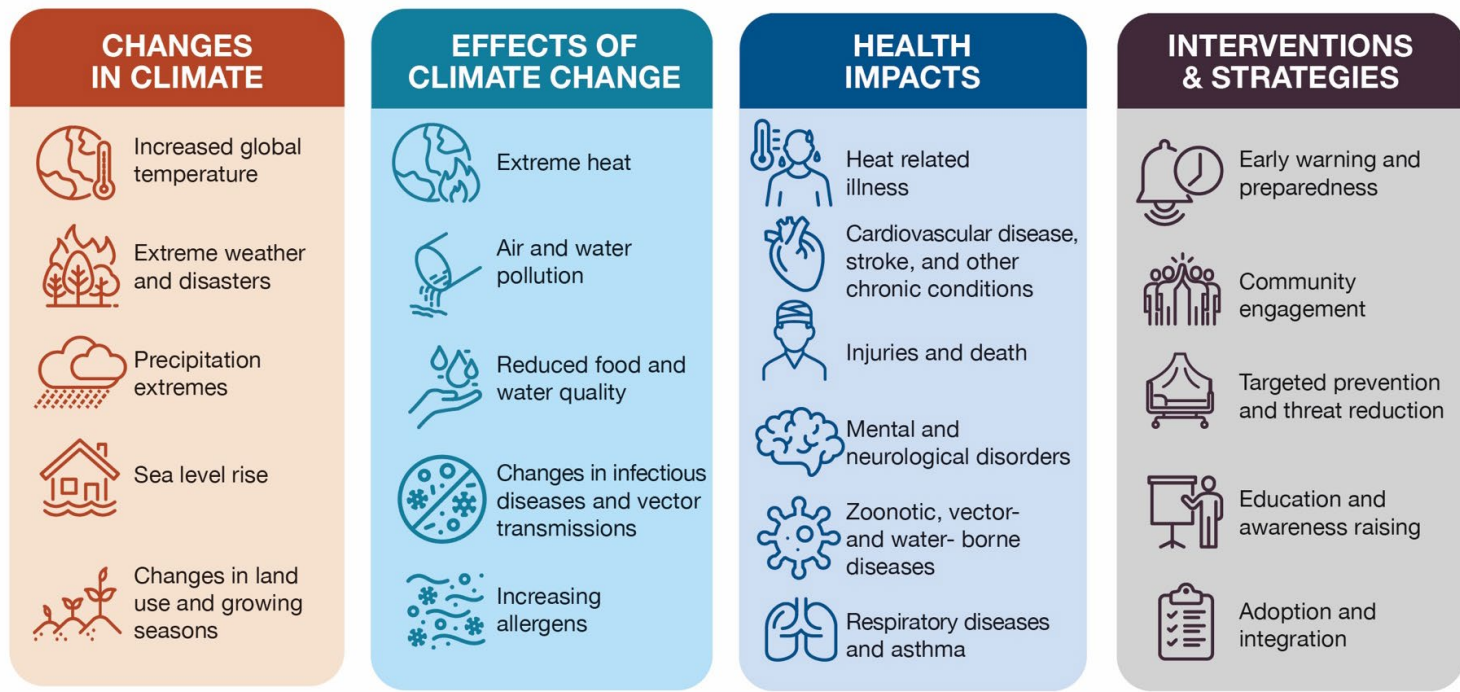
Proposed ALL of NIH Initiative on Climate Change and Health

- **Executive Orders Bring Renewed Focus on Climate Change Across Agencies**
 - Executive Order 14008 *Tackling the Climate Crisis at Home and Abroad*
- **President's Budget & Congressional Markup**
 - President's Budget (\$100M) to NIEHS for CCH Research in Fiscal Year 2023
 - House (\$10M) & Senate (\$50M) Markup
- **Seven Institute and Center Directors as NIH Leaders**
 - Drs. Bianchi (NICHD), Gibbons (NHLBI), Glass (FIC), Gordon (NIMH), Perez-Stable (NIMHD), Woychik (NIEHS), and Zenk (NINR)
- **Re-energized NIH Working Group co-chaired by NIEHS and FIC**





Impacts of Climate Change on Human Health





Climate Change Affects Us Unequally



Under-served populations with health disparities

(Some communities of color; Low-income populations; Low-educational attainment groups; Immigrant groups; Indigenous populations)



Vulnerability by life stage

(Fetal/pre-natal, infants, young children, pregnant women, elderly)



Exposed workers

(e.g., farmers, construction workers)



Vulnerability associated with chronic medical conditions

(e.g., diabetes, asthma, cardiorespiratory diseases, psychiatric diseases)



Persons with disabilities



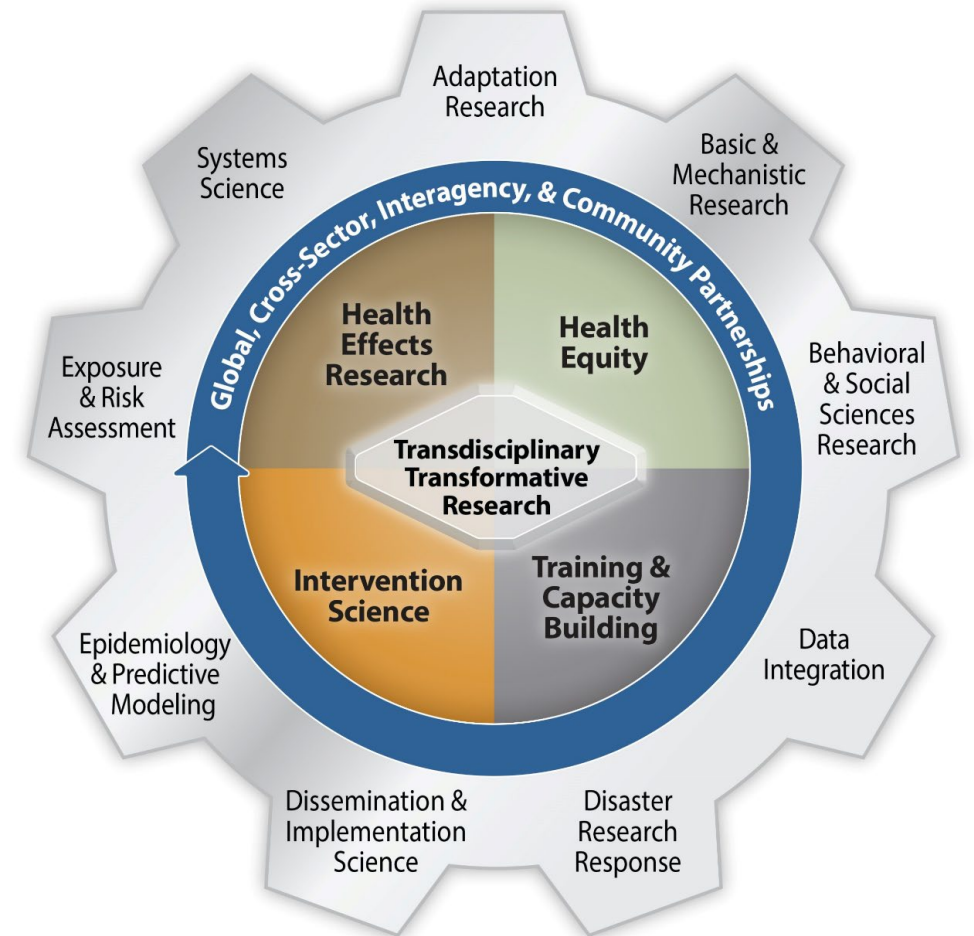
Populations in LMICs

(Higher rates of existing diseases, malnutrition, and extreme poverty)



Strategic Framework Guides Future Climate Change and Health Research

- Outlines four core elements
 - Health Effects Research
 - Health Equity
 - Intervention Science
 - Training & Capacity Building
- Goal is to reduce health threats from climate change across the lifespan and build resilience
- Solutions-driven approach
- www.nih.gov/climateandhealth



NIH Climate Change and Health Initiative: Funding Opportunities

- **Climate Change and Health Research Coordinating Center**, led by NIEHS. ([RFA-ES-22-003](#)). This announcement is soliciting applications from eligible academic institutions to develop a Research Coordinating Center to support the progress of the NIH CCH Community of Practice by managing and supporting current and future CCH research and capacity building efforts.
- **Alliance for Community Engagement** ([ACE-CCH](#)), led by NHLBI. ACE-CH will collaborate in parallel with the NIH-funded Research Coordinating Center (RCC) that is being established to support the development of an NIH-wide CH Community of Practice by managing and supporting current and future CC and health research and capacity building efforts conducting community engaged research.

NIH Climate Change and Health Initiative: Funding Opportunities

- **NIH-wide Notice of Special Interest (NOSIs)** released in 2022
 - ✓ 16 ICOs have signed onto 3 NOSI for climate change and health research ([NOT-ES-22-006](#)).
 - ✓ 10 ICs have signed on for the Small Business Technology Transfer (STTR) ([NOT-ES-22-009](#)) which encourages applications that focus on developing technologies and approaches for climate and health related research.
 - ✓ 12 ICs have signed on for Small Business Innovation Research (SBIR) ([NOT-ES-22-010](#)) which encourages applications that focus on the development of innovative tools, technologies, methodologies related to climate and health that will significantly increase the understanding for the complex drivers of adverse health outcomes.
- **CCH Small IC Administrative Supplements:** [NOT-TW-22-003](#). This funding announcement's goal was to expand the research community to include new researchers from across multiple disciplines both in the U.S and in low-and middle-income countries (LMICs).
 - ✓ 19 awards supported with funds from NIH/OD, FIC, ORWH, OBSSR



Impacts of Climate Change on Human Health and Research Needs

EXAMPLES OF NEEDED RESEARCH



What are the new and emerging health risks from climate change?



Who is most at risk?



What health interventions are effective?



Can we predict future health outcomes from climate models?



What health benefits or costs come with climate actions?



How can disaster warning systems best save lives?



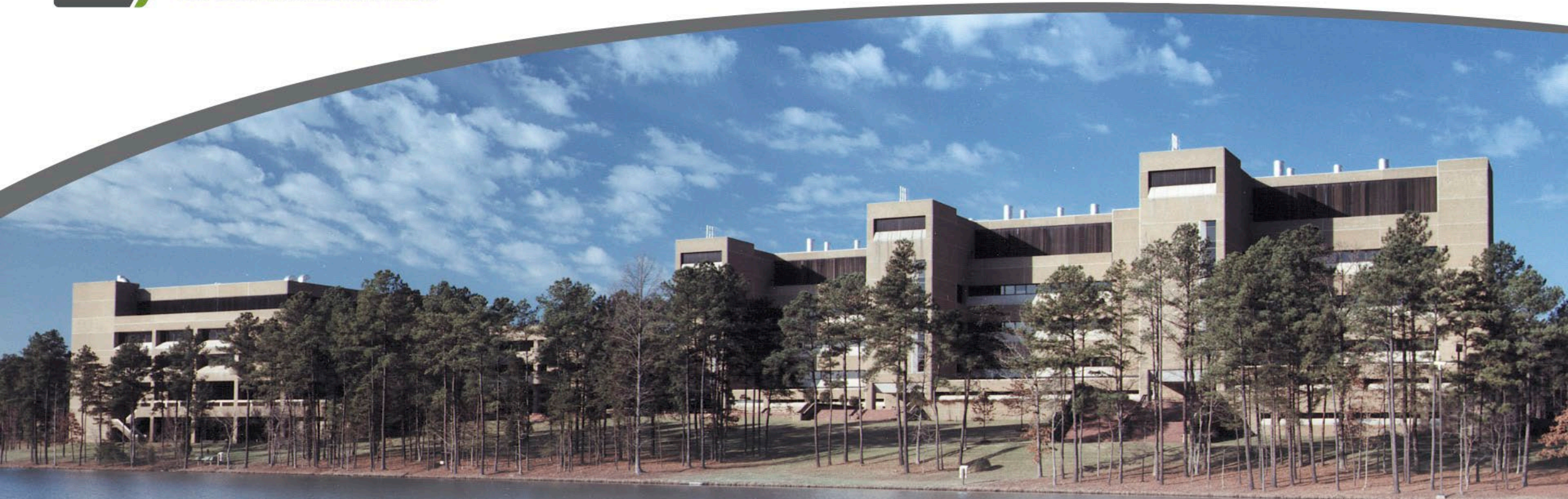
How can health care systems prepare for challenges to providing adequate care?



How can communities best adapt to a changing climate?



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<https://www.nih.gov/climateandhealth>

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