Presenter

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#ClimateChangesHealth
apha.org/climate

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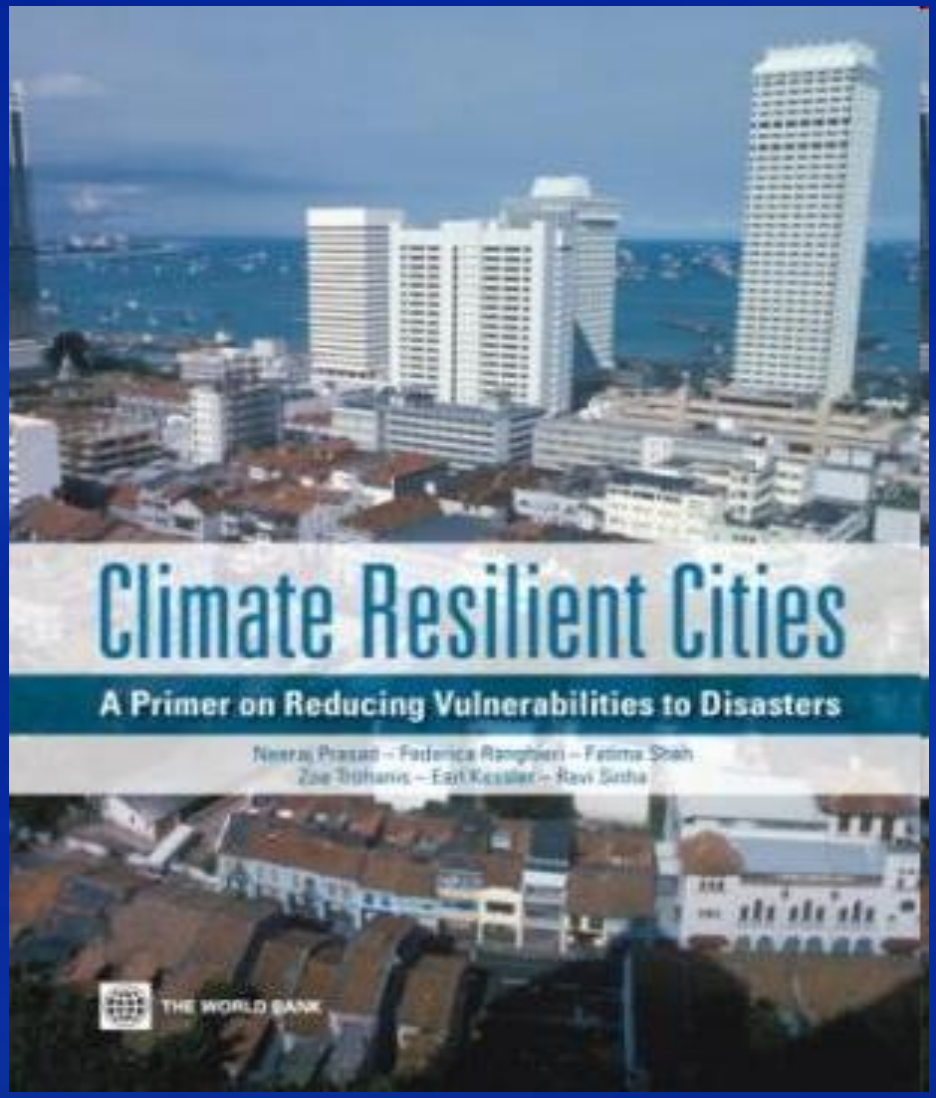
AMERICAN PUBLIC HEALTH ASSOCIATION
For science. For action. For health.

Opportunities for Action

Stephanie M. Chalupka, EdD, RN, PHCNS-BC, FAAOHN, FNAP

Public Health Response

- Mitigation
- Adaptation
- Resilience

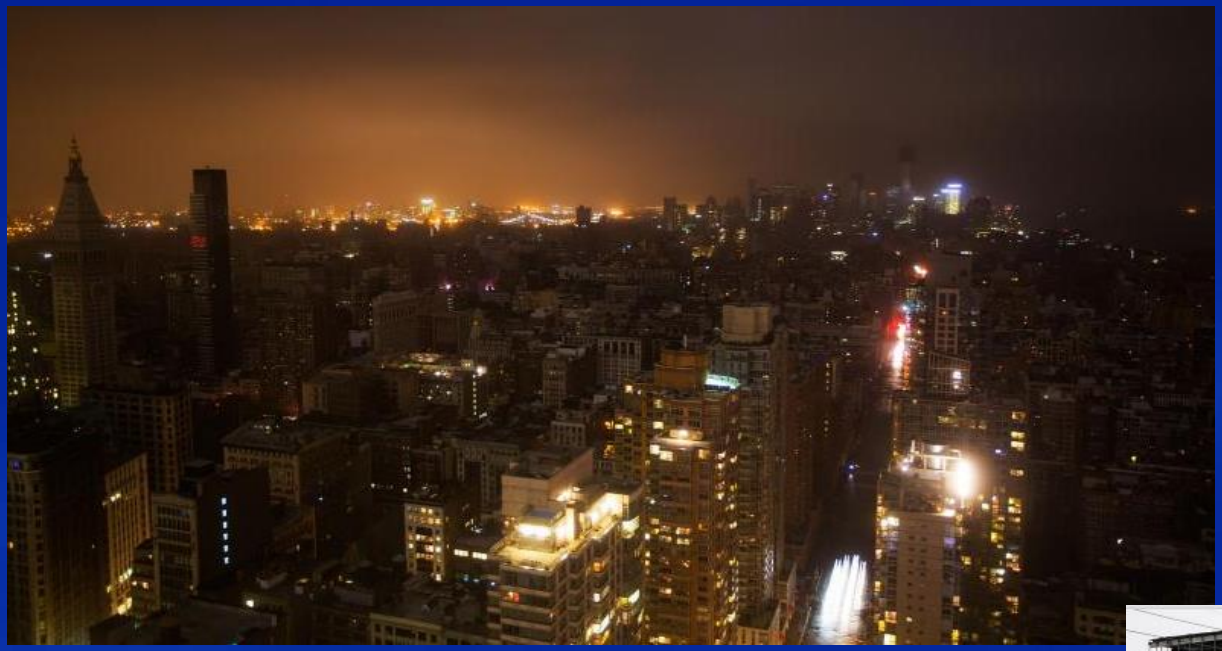


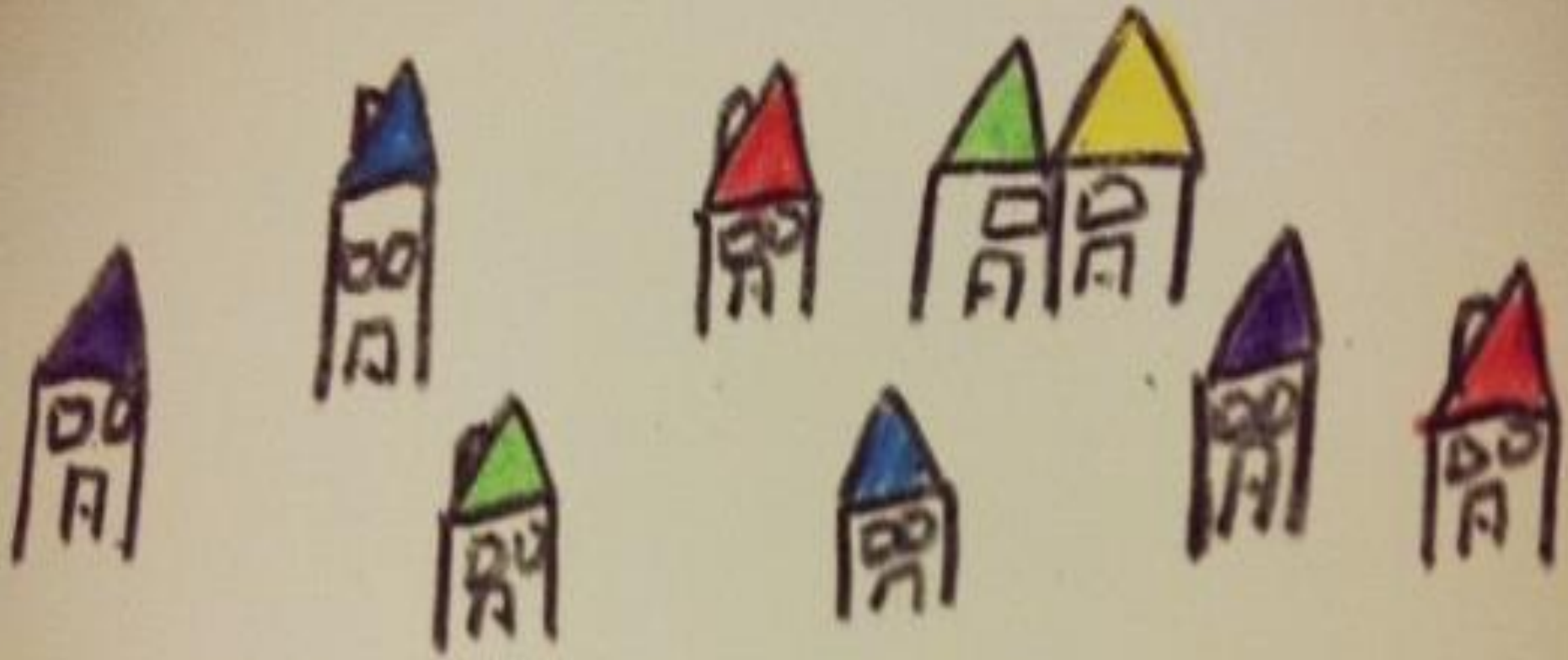
Resilience

"Resilience is the ability to prepare for, and adapt to, changing conditions and withstand and recover rapidly from disruptions. Resilience includes the ability to withstand and recover from deliberate attacks, accidents or naturally occurring threats or incidents."

-U.S. Presidential Policy Directive 21 (2013)

Resilience: Cases in Point

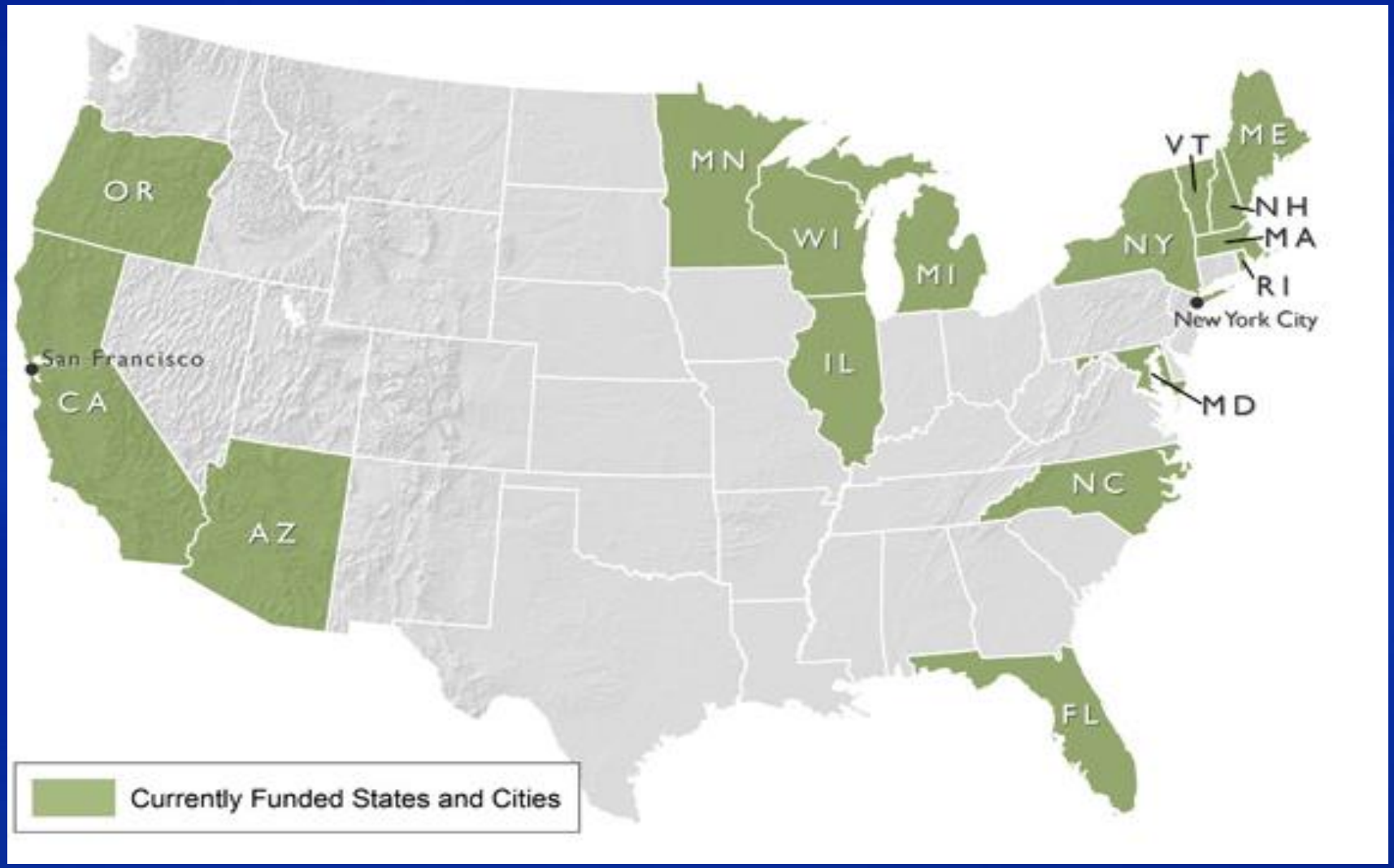




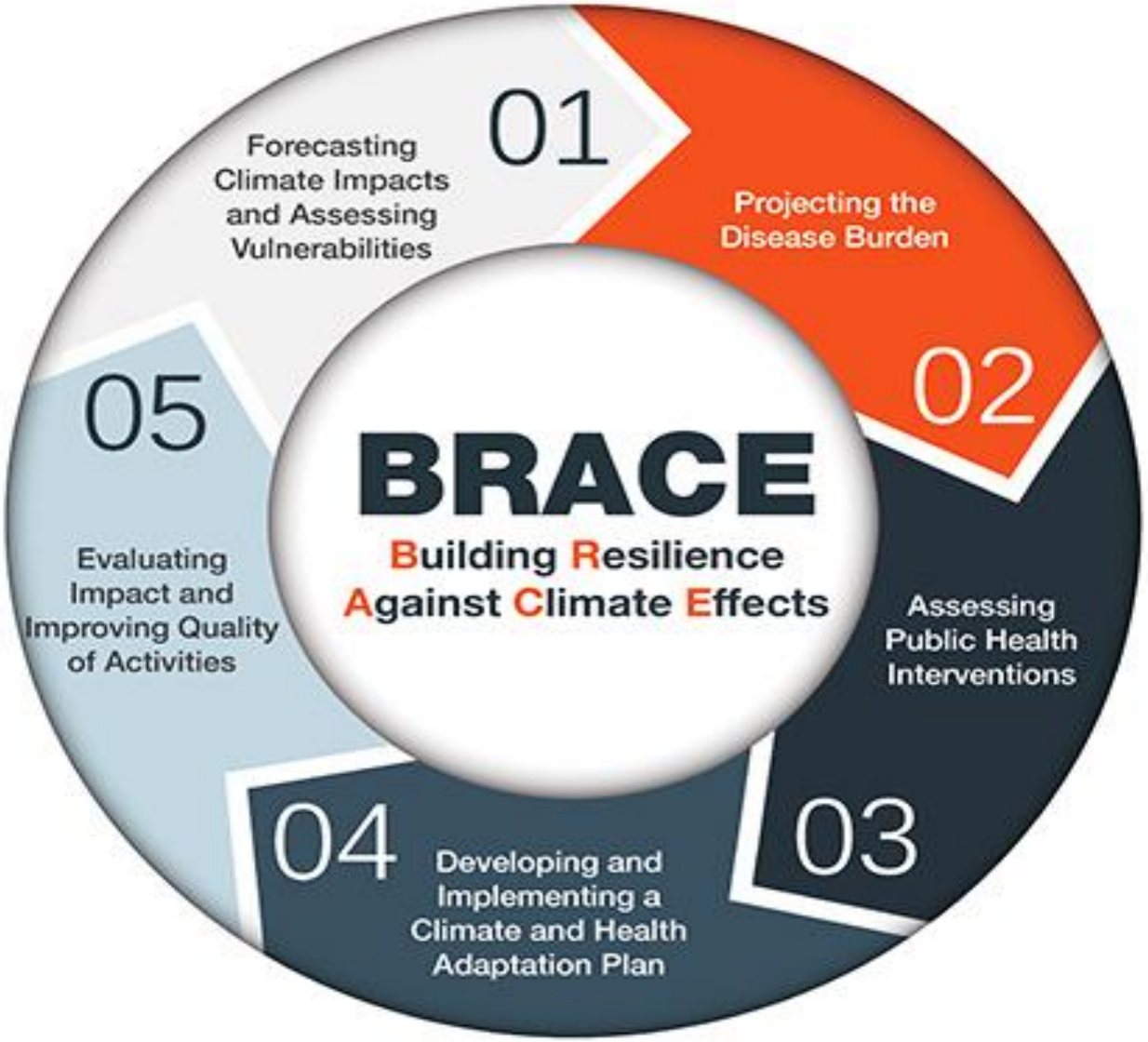
It takes a village...

Healthy and Safe Communities: An Effective Community, Statewide, and National Response

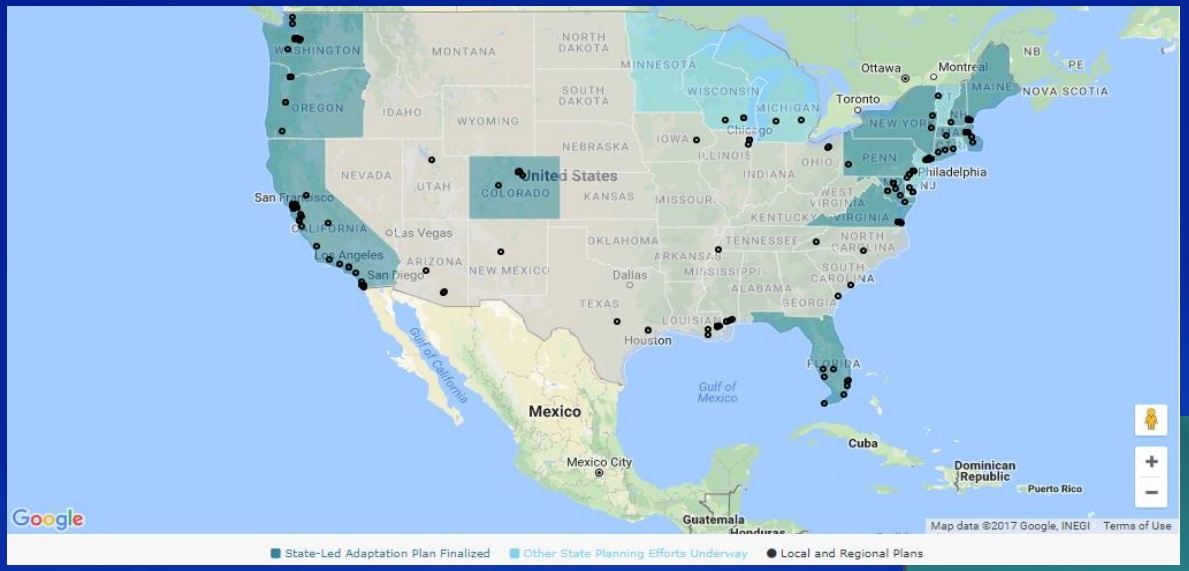
Climate-Ready States & Cities Initiative

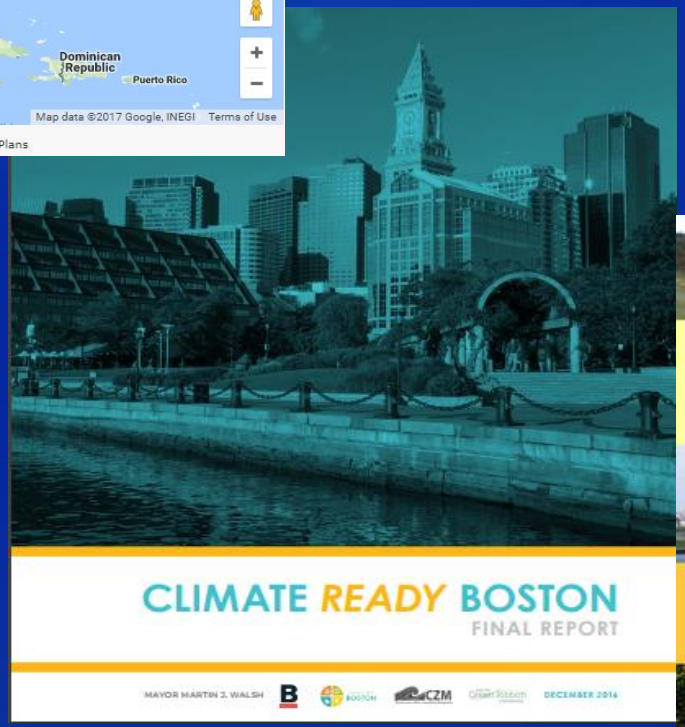


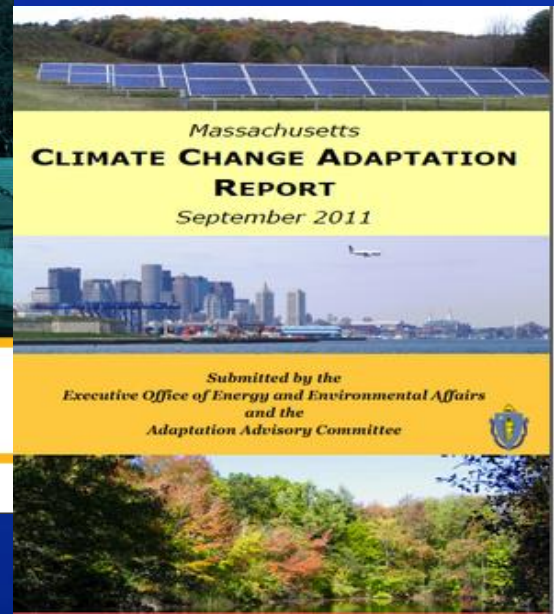
Building Resilience Against Climate Effects



Adaptation Planning



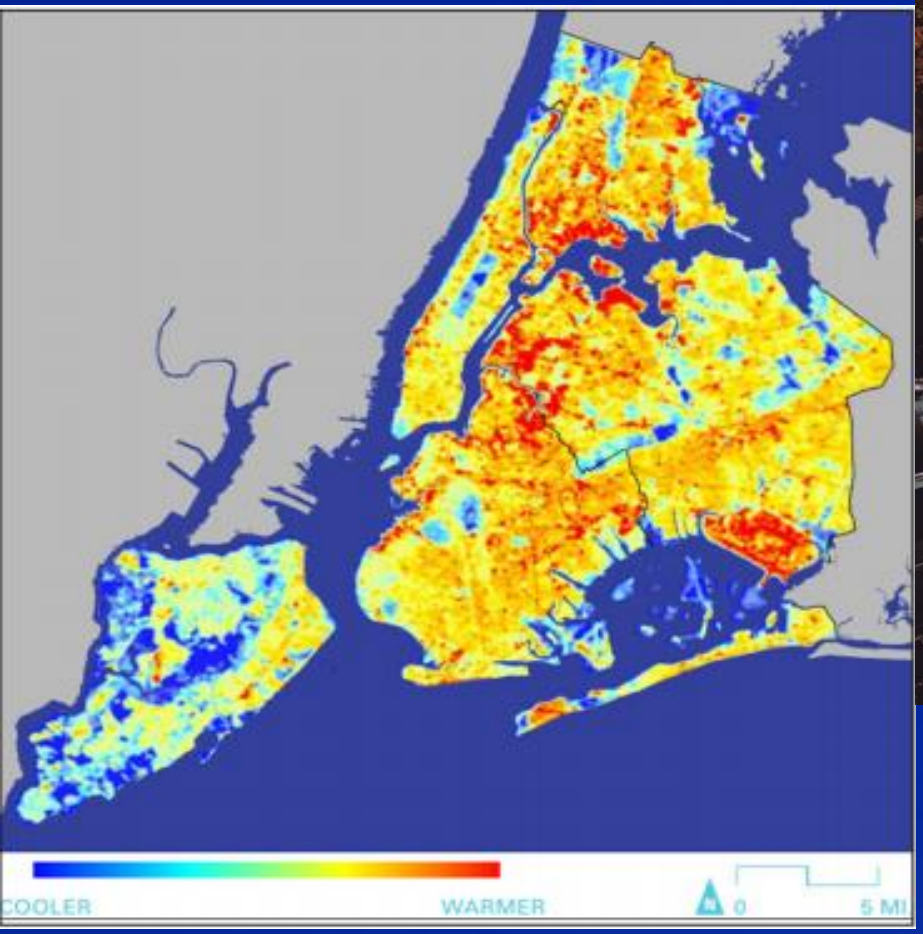




Powered by the Georgetown Climate Center's

Adaptation Clearinghouse™

Cool Neighborhoods NYC



Source: LANDSAT Thermal Data, 2009.

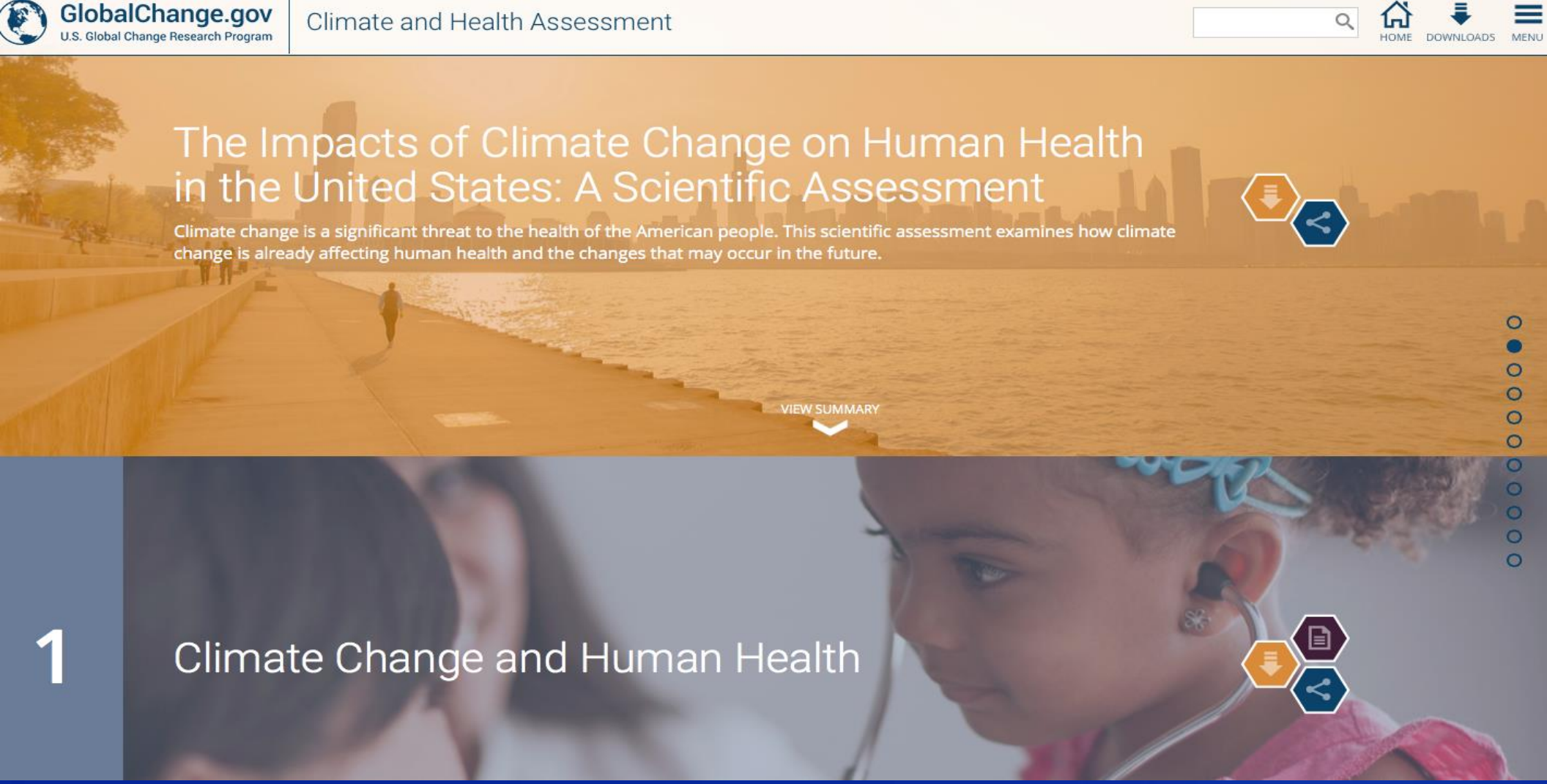
NYC °CoolRoofs

What Makes Children Vulnerable?

Exposure: Coming into contact with a climate change threat

Sensitivity: Being biologically susceptible to a climate change threat given factors like health status and age

Ability to Adapt: Being able to adjust or respond to a climate change threat



https://health2016.globalchange.gov

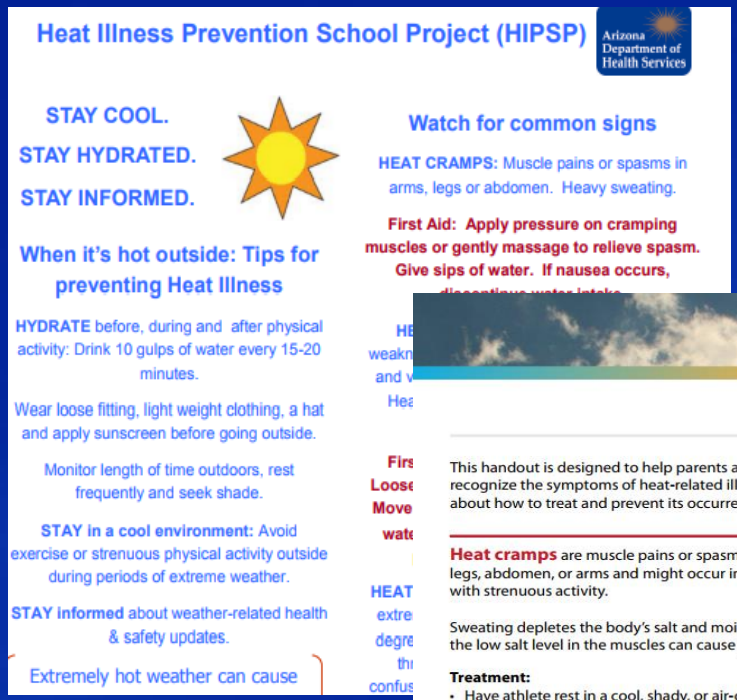
Around 88% of the global disease burden of climate change falls on children under 5 years.

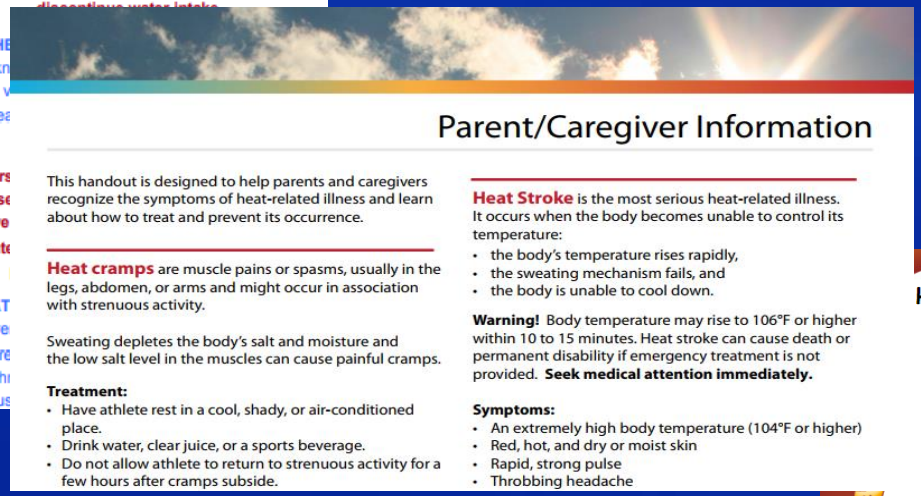
Climate Resilient Schools

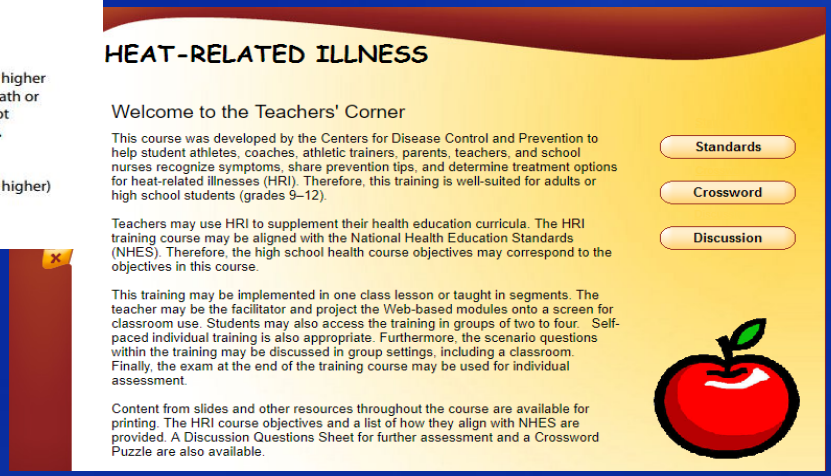
Photo courtesy of Broward County.

- Drought-tolerant landscapes
- Edible school gardens
- Promotion of resilient energy systems

Heat Illness Prevention School Project







Goal: Educate students, school staff, athletic coaches, and parents regarding heat-related illness and prevention.

Air Quality Flag PROGRAM

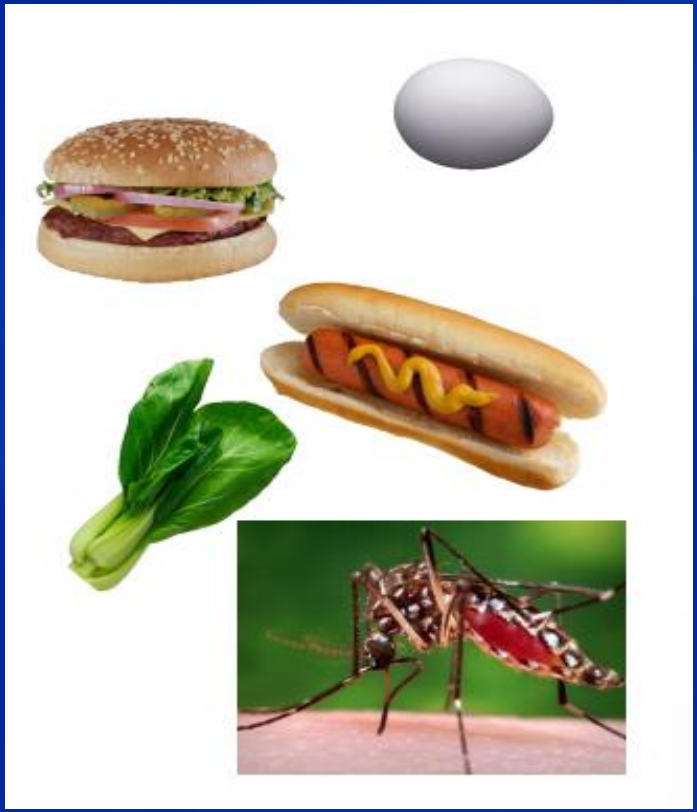
Know Your Air Quality

Air Quality Index	Outdoor Activity Guidance
green GOOD	Great day to be active outside!
yellow MODERATE	Good day to be active outside! Students who are unusually sensitive to air pollution could have symptoms.*
orange UNHEALTHY FOR SENSITIVE GROUPS	It's OK to be active outside, especially for **short activities** such as recess and physical education (PE). For **longer activities** such as athletic practice, take more breaks and do less intense activities. Watch for symptoms and take action as needed.* Students with asthma should follow their asthma action plans and keep their quick-relief medicine handy.
red UNHEALTHY	For **all outdoor activities**, take more breaks and do less intense activities. Consider moving **longer or more intense activities** indoors or rescheduling them to another day or time. Watch for symptoms and take action as needed.* Students with asthma should follow their asthma action plans and keep their quick-relief medicine handy.
purple	Move **all activities** indoors or reschedule them to another day.

Climate Resilient Schools

Ocean Springs, Mississippi

Surveillance and Education: Food, Water and Vector-Borne Disease Risks



- Be alert to shifting timing, locations of diseases
- Food safety
- Ponds and lakes with algal blooms, mosquito/tick precautions
- Outdoor food presentation
- Vector control measures

Protecting Children During Disasters

- Physical harm
- Exploitation and violence
- Psychosocial distress
- Family separation
- Abuses related to evacuation
- Denial of access to quality education
- Emotional impact of disaster

The Emotional Impact of Disaster

Psychosocial programs:

- Rebuild a sense of safety and normalcy
- Express their thoughts and feelings about their experiences
- Strengthen resilience, or coping skills
- Build positive relationships with peers and caregivers

The Emotional Impact of Disaster: Preserving Family Unity

Thank you!

Image courtesy of treehugger.com