# CLIMATE ADAPTATION

# FORUM

# **Building Resilience**

Linking Covid-19 and Climate Change

June 5, 2020



# Ready for Change: Building a Prepared Community

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# Ready for Change Building a Prepared Community

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CLIMATE CHANGE ADAPTATION FORUM

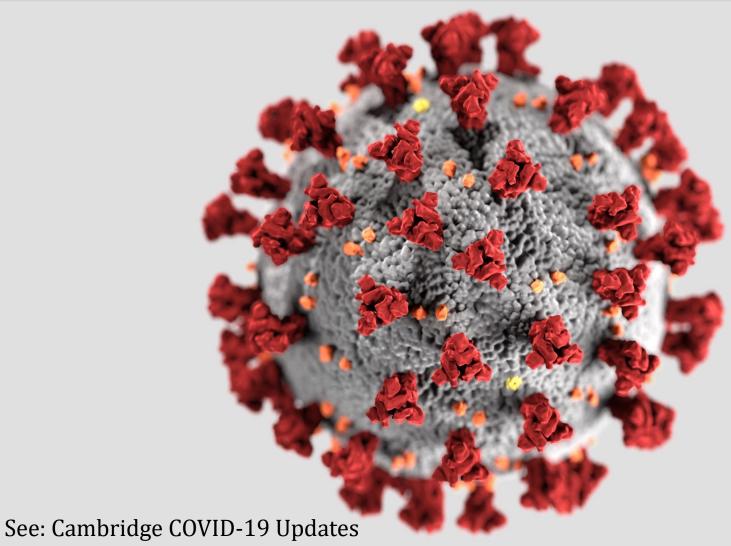
JUNE 5, 2020







## What are we facing?



https://www.cambridgema.gov/covid19



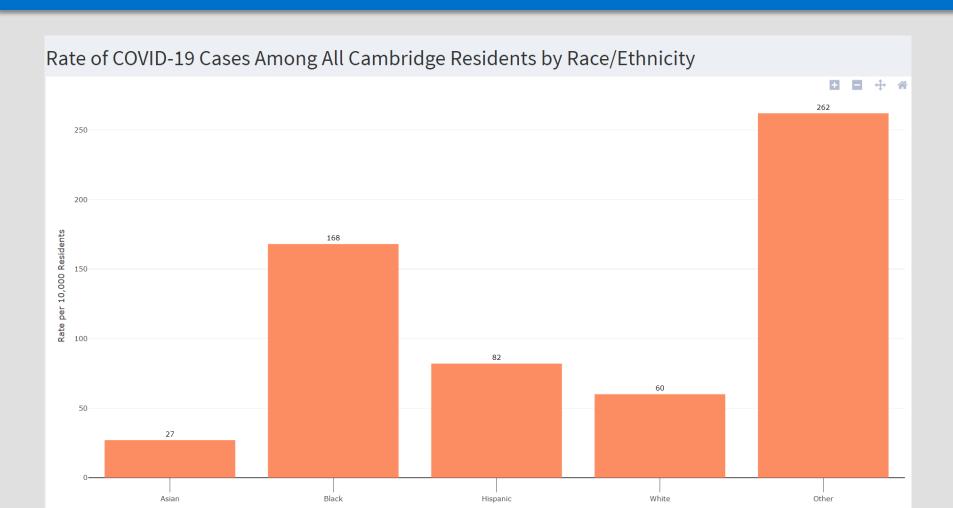
## **COVID-19 Case Demographics**

COVID-19 Cases Among People Living in Cambridge, Middlesex County, Massachusetts, and the U.S





## **COVID-19 Case Demographics**



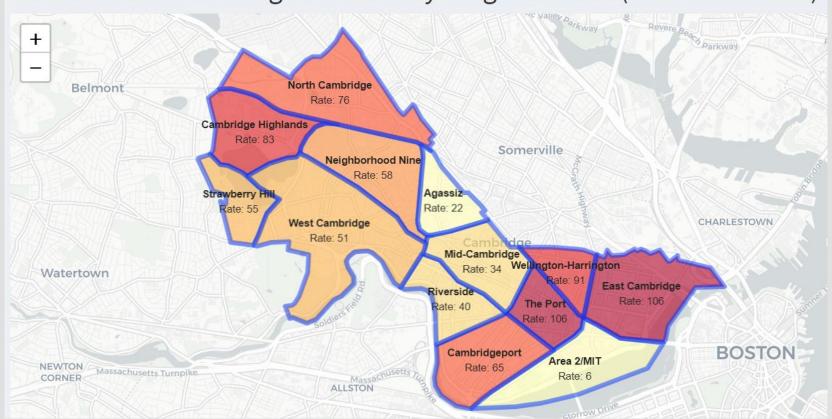


## **COVID-19 Neighborhood Impacts**

#### Impacts by neighborhood

- Highest Rates include The Port and East Cambridge (June 3, 2020)

#### COVID-19 Cases Among Residents by Neighborhood (Rate and Count)





## **CPHD COVID-19 Outreach Activities**



Social distance and wear masks posters



Staff at CPHD meeting to plan community outreach



## **Climate Change**

## What is ahead?





Cambridge Public Health Department

See: Cambridge Climate Preparedness and Adaptation Plan

https://www.cambridgema.gov/CDD/Projects/Climate/climatechangeresilianceandadaptation.aspx

## Climate Change is...



See: Cambridge Public Health Department Climate Change and Health <a href="https://www.cambridgepublichealth.org/climate-change/">https://www.cambridgepublichealth.org/climate-change/</a>



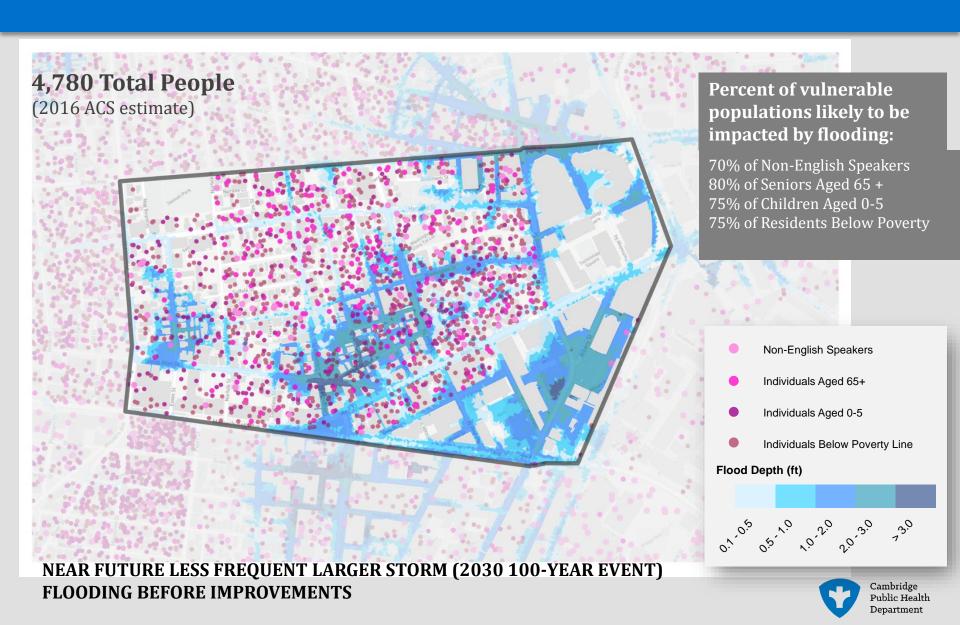
## More floods than ever before...





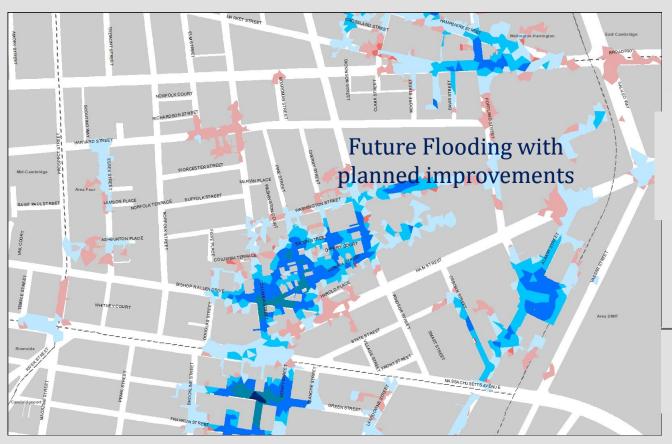


## Residents of The Port at Risk of Flooding



## **The Port Adaptation**

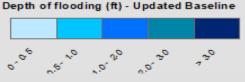
## Clusters of more highly affected neighborhoods and housing mirror COVID-19



FUTURE PREDICTED FLOODING WITH CURRENT (2015)
INFRASTRUCTURE

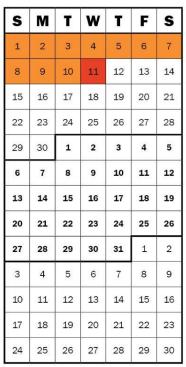


Future Flooding with planned improvements





#### More heat waves than ever before...



| s  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
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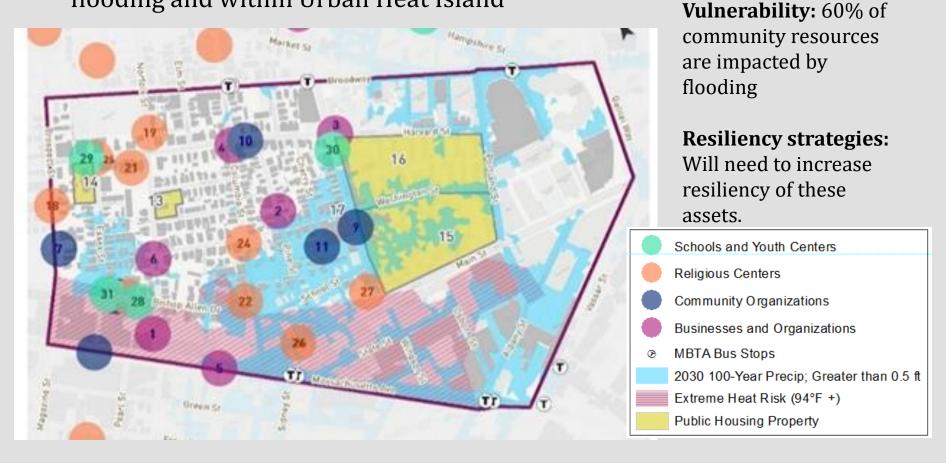
By 2030, the number of days above 90° F could triple





## **Community Resources Are Themselves At Risk**

 Services in The Port AT RISK FOR 2030 100-YEAR precipitation flooding and within Urban Heat Island





## 1. Asset-based Approach

Connection among community social service organizations and residents to one another can help make sure that all residents have access to support in times of need.

- Make sure that people have full access to services and spaces they need.
- Prepare organizations to address climate change.
- Identify a "resiliency hub" to strengthen community networks and work daily to increase preparedness and resilience.



Margaret Fuller House Multiservice Center Resiliency Hub



## 2. Agility on the Ground

# Building stronger relationships that provide connection among neighbors. Isolation can increase risks due to a disaster.

- Connect residents to one another and local organizations.
- Prepare them. Reach them quickly during a heat or flooding event. Support them after an event.
- Provide information tailored to language and culture.
- Inform those who may have greater exposures to heat or flood waters, such as outdoor workers and student athletes.

Home visits to support children with asthma.

Identifying and reaching out to older adults who may be isolated.





## 3. Alignment of Efforts

Taking actions together for the benefit of others draws people together, develops a stronger sense of community, and can help residents handle difficult situations.

- Work together to improve the community.
- *Volunteer* to build individual strengths and a culture of service.
- Participate in actions on climate change to increase impact, build hope, and create resiliency skills.
- *Apply* the leadership of those who will be most affected by climate change for more just, appropriate strategies.



Students holding environmental justice tour. Source: JSI and ACE



### **Engaging Residents to Prepare for Climate Change**

#### What we heard from residents:

- "Make it real", i.e. explain what climate change means?
- Explain how it will impact me
- Tell me what I can do about it
- Include knowledge and vision of residents and community leaders



Climate Change & Health Video

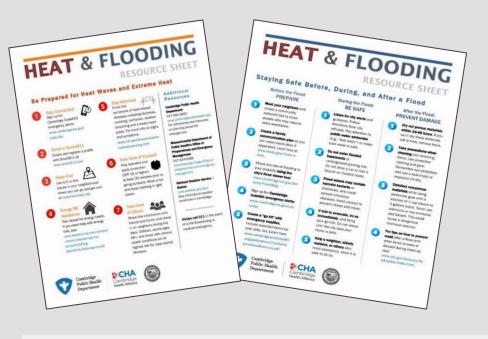






### **Culturally-Tailored Approaches**

The City has started to prepare materials they can share throughout the community.



# And the City is looking at means to address the gaps and identify opportunities including:

- Enlist peer leaders and community organizations to help support and engage residents tailored to culture and language.
- Identify critical facilities already used and trusted by residents to be used as resiliency hubs, outreach partners, and heat shelters.
- Upgrade these sites to enhance their resiliency to flooding and extreme heat.







## **Social Cohesion During COVID-19**

#### **COVID-19 ACTION**

- City-wide testing: senior centers, homeless shelters, essential workforce
- Social distancing coupled with supports for isolated seniors, workers, homeless
- Mayor's Emergency Fund
- Food for Free with restaurants/volunteers
- Increased interagency partnerships to meet resident and small business needs

#### **CLIMATE RESILIENCY**

- Community-wide health promotion
- Emphasis on high-risk populations: low-income seniors and homeless
- Focus on worker exposures & economic impacts
- Cross-sector, public/private collaborations + volunteerism
- Continuity of care, medications, plan for mental/behavioral health needs

City of Cambridge <u>Reaches More than 7,000 Residents</u> via Senior Phone Outreach Initiative

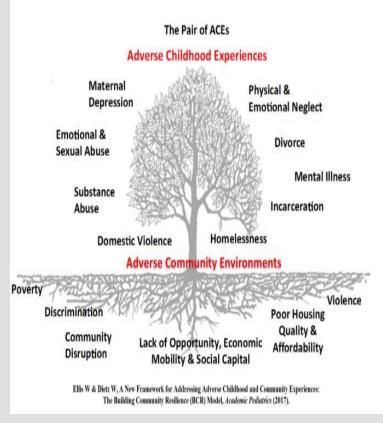


### Resilience Catalysts in Public Health



#### National collaborative with 4 other LHD's nationally:

- In collaboration with George Washington University, APHA, NACCHO and supported by CDC
- Building Community Resilience (BCR) Model
- Focus: On resilience as a fundamental strategy to prevent and reduce chronic disease by addressing the root causes of adversity; namely the Pair of ACEs (Adverse Childhood Experiences and Adverse Community Events)





## **Thank You!**

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