Office of Sustainability **Presentation to Planning Commission**April 5, 2021





Equitable climate action for a healthy and resilient Richmond

# What is Climate Change?



Climate change is a shift in the long-term, average weather pattern





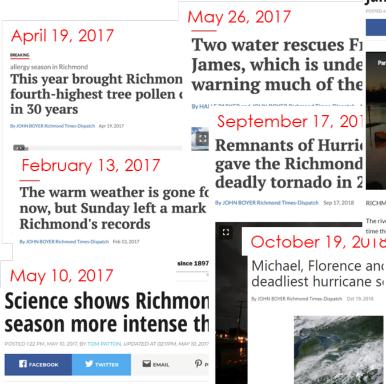




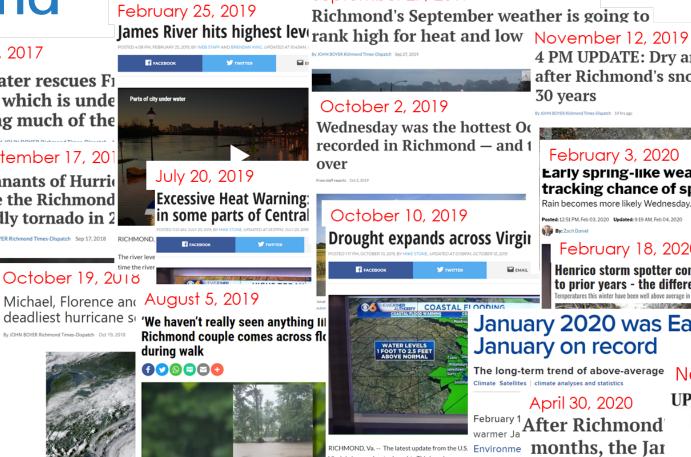
Human-caused emissions—especially from burning fossil fuels—are driving climate change

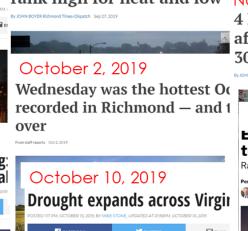
# Climate Change is Already Impacting

Richmond



Experts talk about extreme poller





September 27, 2019

4 PM UPDATE: Dry and fri after Richmond's snowies 30 years



January 2020 was Earth's U.S. Winter Outlook: Cooler North, January on record

The long-term trend of above-average April 30, 2020

February 1 After Richmond RICHMOND, Va. -- The latest update from the U.S. Environme months, the lar May 24, 2020

Summer weather outlook: extra warmth and rainfall favored across Va.







July 20, 2020

Richmond's heat wave continues after hotte day of the summer on Sunday



July 29, 2020

Richmond hasn't seen 20 straight days of hi in the 90s since 'Waterworld' was in theate

October 15, 2020

warmer South with ongoing La Nina

November 12, 2020

**UPDATE:** James River in Richmond could rise to its highest levels since 1996 following downpours

November 30, 2020

The 2020 h

for the At February 18, 2021

Brace yourself for more deadly storms, forecasters warn

### Climate Action and Resilience Goals

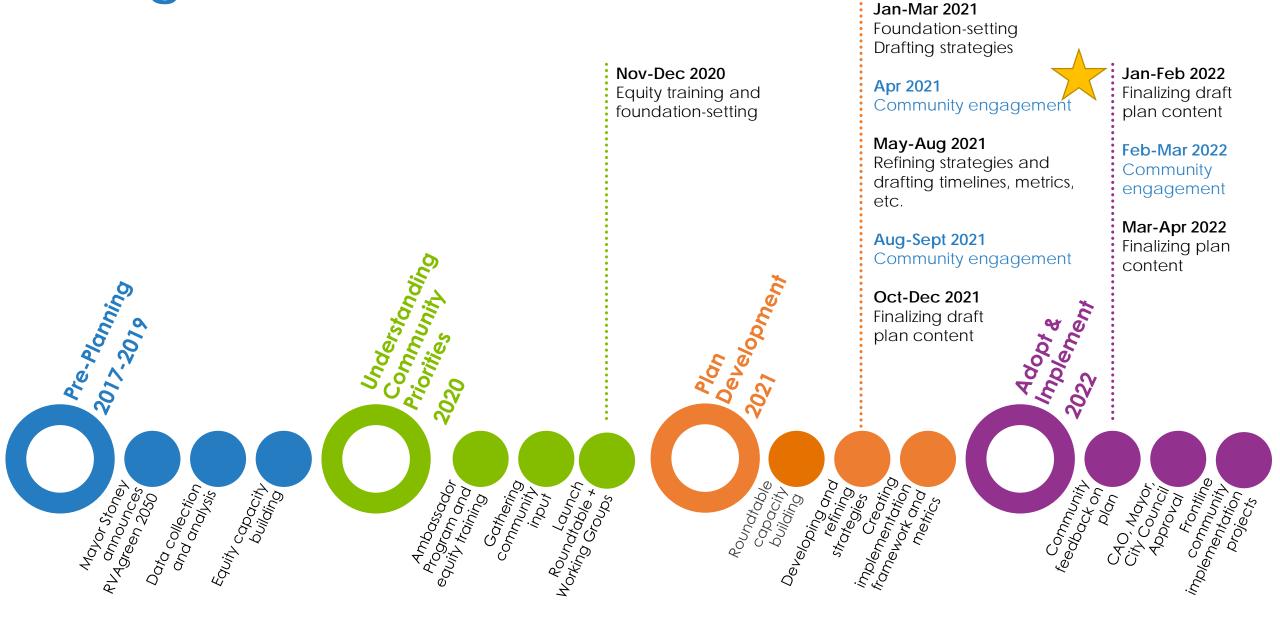
City Council Resolution 2020-R024 (Adopted Jun. 8, 2020)

45% reduction in greenhouse gas emissions by 2030 (from 2008 baseline) and net zero emissions by 2050

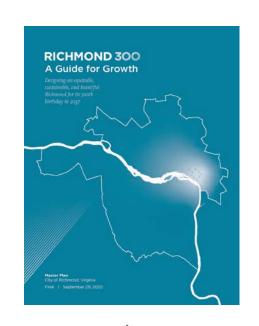
Prepare, adapt, and improve resilience to local impacts of climate change

Develop and implement an equity-centered, integrated climate action and resilience plan

## **RVAgreen 2050 Process**



# RVAgreen 2050 = Coordinated Planning









Start with Vision of Equity: ask Richmonders 'what does an equitable transportation network looks and feel like?'

Develop goals and objectives to meet that Vision

Policy discussion to guide Mobility & Accessibility Action Plan (RC-MAAP) and Scenario Plan

#### Richmond Connects Plan Elements

A Existing Conditions

Heart Good Part of the Conditions of the Co

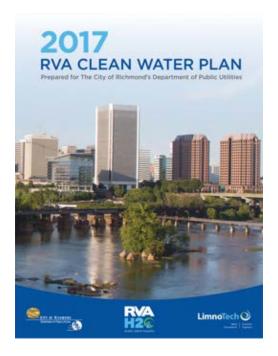
Recommendations at 5 year horizon to address highest needs and medium (10-15 year) range recommendations to address medium and lower priority needs

#### Identify hypothetical future scenarios

Test large scale policy and investment directions for equity implications

Guide long-term decision

Answer 'what would equity look like in Richmond if we invested in x,y, or z types of transportation over the next 25 years?'



## **RVAgreen 2050 = Equity Centered Planning**



# Race, Income & Disproportionate Climate Impacts

Communities of color and low-income residents and are more likely to...



live in areas with less greenspace and are more vulnerable to respiratory and heat related illnesses



lack access to energy efficient housing and often are disproportionately impacted by high energy bills



be impacted by extreme weather events as a result of climate change



live in neighborhoods that lack convenient access to transit, or safe walking and biking options



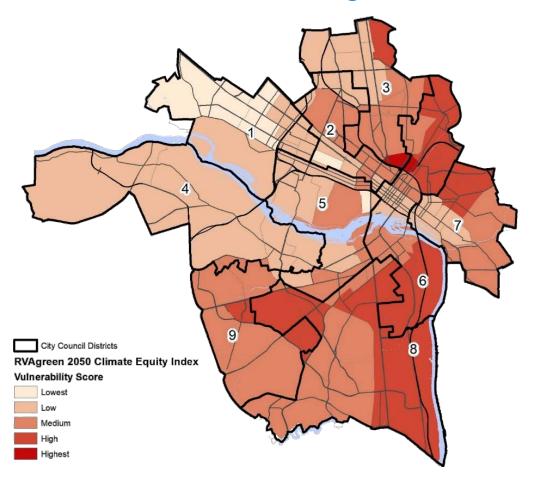
live in housing without air conditioning and are more vulnerable to heat related and respiratory illnesses and death



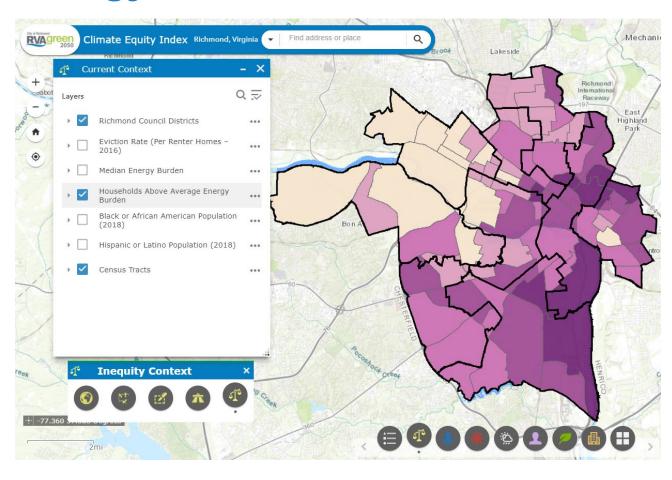
be exposed to pollution and airborne allergens and are more vulnerable to asthma and other respiratory illnesses

### **Climate Equity Index-Interactive Tool**

### **Climate Vulnerability**

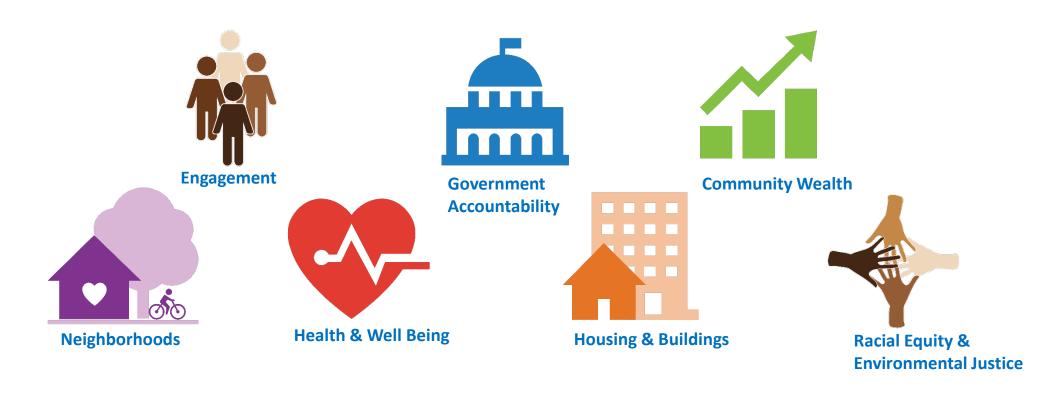


### **Energy Burden**



# **Understanding Community Priorities**

The RVAgreen 2050 planning process is centered in equity and the priorities of the Richmond community which are:



# **Community Priorities & Inequity**

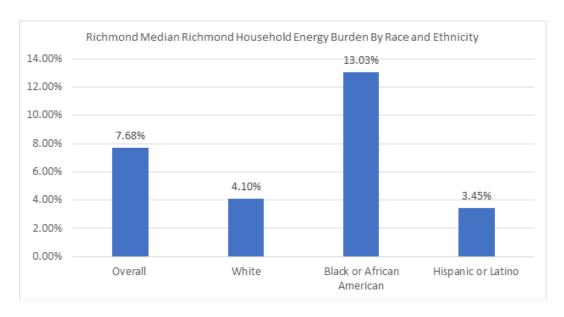


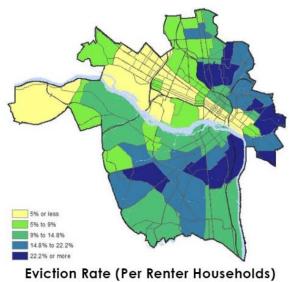
### Housing & Buildings

Affordable Housing, Energy Burden, and Race/Ethnicity

#### Energy burden is a known contributing factor to evictions

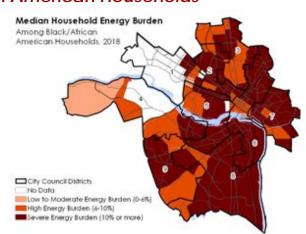
- US median household energy burden across 48 largest cities = 3.5%: Richmond = 7.7%
- Low-income, Black, and Hispanic or Latino households pay a much larger share of their income on energy bills





### Median household energy burden:

### All households Median Household Energy Burden Percentage of income spent on home energy bills, 2018 City Council Districts Low to Moderate Energy Burden (0-6%) High Energy Burden (6-10%) Severe Energy Burden (10% or more)



#### White Households Black/African American Households

Median Household Energy Burden

Among White Households

City Council Districts

High Energy Burden (6-10%)

Low to Moderate Energy Burden (0-4%)

Severe Energy Burden (10% or more)

**Community Priorities & Inequity** 

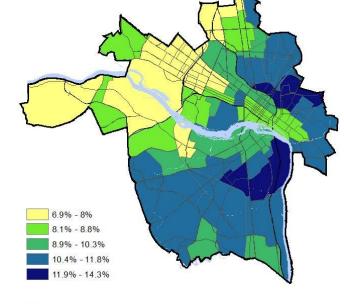


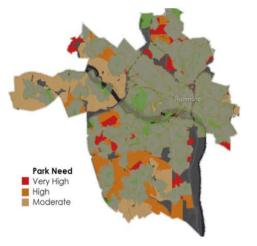
Neighborhoods, Natural Environment & Health

### Richmonders want safe, beautiful, and healthy neighborhoods

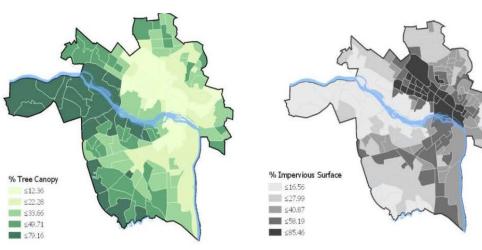
- Specific concerns included green space and parks access, physical and mental health, and flooding
- Due to historic and institutional racism, people of color are more likely to live in hotter neighborhoods where vulnerability to heatrelated illnesses is higher

Adults with Asthma 2016 American Community Survey





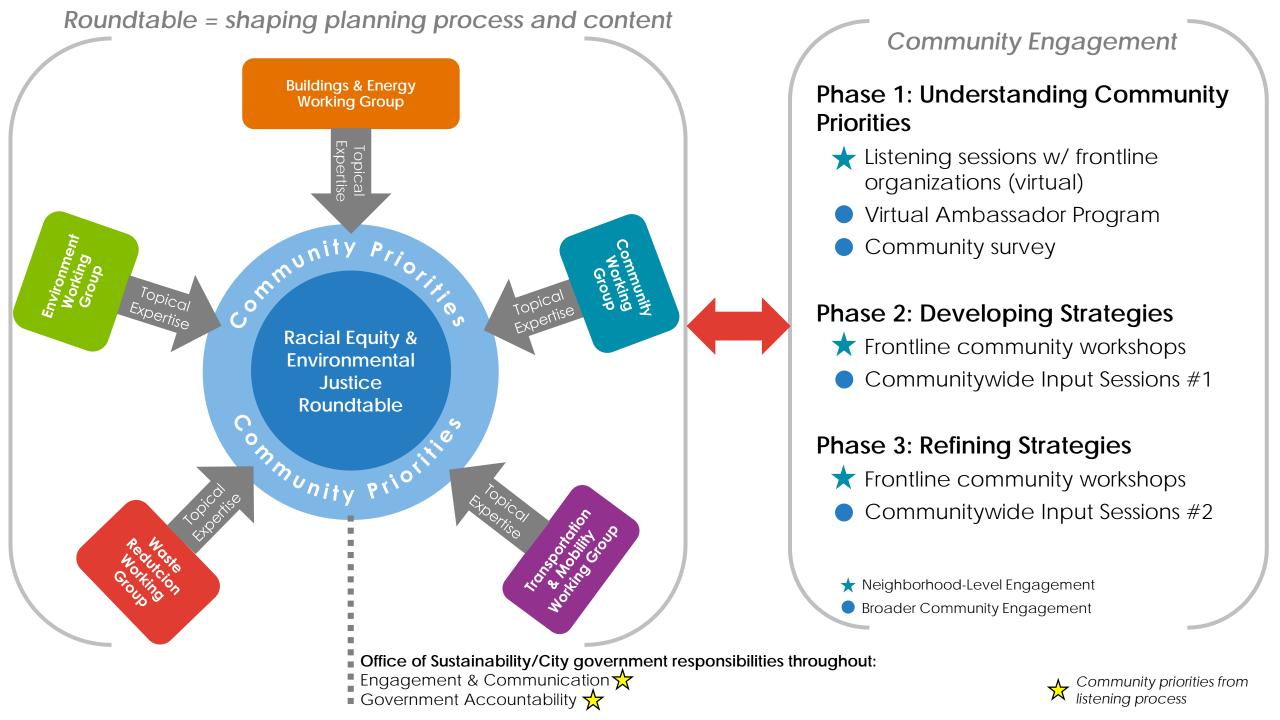




Source: Trust for Public Land

Source: Jeremy Hoffman, Science Museum of Virginia

Impervious (Paved) Surface



# **Equity Screening Tool**

The tool is organized by the 7 community priorities gathered during the summer 2020 listening process

**Community Priority** 

Priority Considerations	Suggested Data & Metrics
Use these questions to evaluate how a proposed action addresses equity	and metrics to help answer the questions and/or assess a
Additional Considerations	
•	
•	proposed action
•	

<sup>\*</sup>see glossary for additional information about this term



An asterisk (\*) indicates that a concept or term is listed in the glossary at the end of the tool



### **Housing & Buildings**

#### **Priority Considerations**

- Will this reduce the number of families that are cost-burdened by housing and transportation?
- Does this reduce inequities in housing/building quality related to health and safety, such as issues related to lead, mold, air quality, etc.?
- Could this increase access to housing in general, and to homeownership?



### Neighborhoods

#### **Priority Considerations**

- Could this expand access to healthy, clean, and accessible transportation?
- Could this increase access to quality green space in historically disenfranchised communities?
- Could this increase and ensure long-term access to amenities\* in historically disenfranchised communities?



### **Government Accountability**

#### **Priority Considerations**

- Has the community asked for this? Is there a mechanism in place to change the action as needed based on indicators and community feedback?
- Is it clear who is accountable to whom and for what?
- What is the current data related to the proposed action, where does it come from, and what does this data tell us?



### 1 vision

All Richmonders, regardless of their identity or neighborhood, thrive in a climate-resilient and climate-neutral community

### 2 main goals to achieve

45% reduction in greenhouse gas emissions by 2030 and net zero emissions by 2050 Prepare for, adapt, and improve the community's resilience to local climate impacts

# 5 pathways to get us there 📠 💥 🜊











Buildings & Energy, Community, Environment, Transportation & Mobility, Waste Reduction & Recovery

### 7 community priorities to honor 🔷 🚵 🚜 🚓 💝 🏟















Racial Equity & Environmental Justice, Government Accountability, Community Wealth, Affordable Housing, Beautiful & Safe Neighborhoods, Health, Equitable Engagement & Communications



# **April Community Engagement**

DATES: April 7-30

GOAL: seeking input on draft vision, objectives, and strategies from the entire community

#### **KEY ELEMENTS:**

April 7 Mayor's announcement during weekly press briefing

**Roundtable Engagement Activities** 

Online PDF document for public comment

Online and paper survey for input

Engagement Toolkit for partners (social media graphics, content, materials, etc.)

Weekly RVAgreen Gab events - Thursdays 5-6:30 p.m.

Weekly newsletters as well as social media and website



# We need your input by April 30! RVAgreen2050.com/participate



rvagreen@richmondgov.com