

### 2024 Public Awareness Research

# Presentation to Clean Air Partners Board of Directors January 23, 2025

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# **OpinionWorks Credentials**

#### **Long Island Sound Study**

• Perceptions and behavior research

#### Chesapeake Bay Program, EPA

• Baywide measurement of stewardship behavior

#### The Baltimore Sun

• Elections and issues polling since 2007

#### The Recycling Partnership

Creation of national Recycling Confidence Index

#### **New York State Office of Parks**

• Recreational demand survey

#### Mid-Atlantic Regional Council on the Ocean/NOAA

• Behavior change related to marine debris

#### **National Wildlife Federation**

• Attitudes about water protection in the Ohio River Basin

#### **Campaign for Tobacco-Free Kids**

Public attitudes about banning flavored tobacco products

#### **Hampton Roads Planning District Commission**

Attitudes and behavior related to recycling

#### Johns Hopkins Health System/Horizon Foundation

• Comprehensive public health study in Howard County













# **Survey Method**

- Broad-based survey sample:
  - 2,434 interviews regionwide
  - Very good ability to segment the data, understand audience segments
  - Representative of region's population
  - ± 2.0% sampling error, 95% confidence
  - English and Spanish
- Mixed-mode sampling
  - Online consumer panels
  - USPS mailed survey packet
  - Wireless and landline phone
- Fielded Oct 9 Nov 11, 2024
- Comparable to Clean Air Partners' past surveys: 2015, 2018, 2021



#### Please respond in the next 7 days

Please take the survey online today at <a href="www.cleanAirSurvey.org">www.cleanAirSurvey.org</a>. Or you can return this survey in the enclosed envelope, postage-paid. Your responses are confidential and will not be tied back to you personally.

When you hear the phrase "Code Orange" or "Code Red," what is the first thing you think of?				
Air pollution occurs when the air contains gases, dust, fumes or odor in he to the health or comfort of humans and animals or which could cause d			could be harmful	
3. On a scale of 1 to 5, where 1 is <u>not at all a problem</u> and 5 is <u>a very big problem</u> is in the metropolitan area where you live?			elieve air pollution	
<ul> <li>1—not at all a problem</li> <li>2</li> <li>3</li> <li>4 o 5—a very big problem</li> <li>6 Not sure</li> <li>7 How would you say that air pollution in the metropolitan area where you live has changed over the last five years?</li> </ul>				
o Gotten a lot worse o Gotten somewhat worse o Stayed the sam How strongly do you agree or disagree with this statement? Air pollu			a lot o Not sure	
o Strongly disagree o Somewhat disagree o Neither agree nor disagree	gree o Somewhat agr	ree o Strongly agr		
<ul> <li>How strongly do you agree or disagree with this statement? I can ma</li> <li>Strongly disagree o Somewhat disagree o Neither agree nor disagree</li> </ul>	-	CO. 10.01	ee o Not sure	
. Which of these best describes you? (Please choose just one)  O I own a motor vehicle o When I drive, I use a vehicle that be	lanas ta samaana alsa	a Leasely as a	ouer drive	
o I own a motor vehicle o When I drive, I use a vehicle that belongs to someone else o I rarely or never drive o Other: o Not sure				
Does your home have a grass lawn that you are responsible for maintai	ning? o Yes	o No o N	lot sure	
which one of these best describes your home? o Single-family detached o Townhouse, duplex, or rowhouse		2000		
o Apartment or condo o Other:		Part 1—	Part 2—	
o Not sure/ Prefer not to say	Q10 has two parts:	Mark any you are	Mark any	
	Value of the control	willing to do:	you <u>have done</u> :	
10. Which of the following behaviors are you willing to do to reduce	air pollution?	Willing to Do	Have Done	
Please also indicate if you <u>have done it</u> to reduce air pollution.				
A. Use electric lawn mowers/equipment instead of gas-powered equipment		0	0	
B. Ensure regular maintenance of your motor vehicle.		0	0	
C. Carpool, vanpool, take public transit, or bike instead of driving alone		0	0	
D. Use a gas or electric grill instead of charcoal		0	0	
E. Use only non-aerosol household products and cleaning solutions that are safer for the air		0	0	
. Limit pesticide use		0	0	
. Refuel your motor vehicles after dusk		0	0	
. Plant a tree to help improve the air		0	0	
Switch to a higher-mileage vehicle or a hybrid or electric vehicle		0	0	
Add solar panels to your home, or sign up to buy your electricity from farm		0	0	
<ul> <li>Conserve energy at home by turning off lights and electronics when r justing your thermostat.</li> </ul>	ot in use and ad-	0	0	
Avoid mowing on days with poor air quality.		0	0	
1. What else are you willing to do or have done?				
he Air Quality Index, also known as the AQI, uses a color code system	r.		7	
11. Over the last few months, have you heard or seen any color codes used to refer to the air quality?				
o Yes o No o Don't know		5.0		
. What air quality codes did you hear or see in the last few months?				

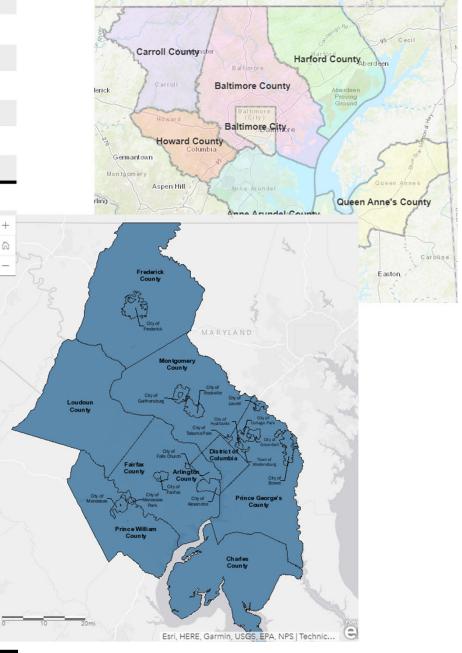
13. If you hear "Code Orange" or "Code Red" do you take any actions? If so, what do you do differently?

o Purnle

o None of these/ Not sure

# **Survey Sample Composition**

Under age 25	11%		
20 to 34	18%		
35 to 44	18%		
45 to 54	17%		
55 to 64	16%		
65 or more	19%		
Prefer not to say	2%		
Caucasian or White	52%		
African-American or Black	27%	+	
Hispanic or Latino	12%	6	
Asian	10%		
All other ethnicities or races	4%		
Prefer not to say or not sure	3%	g g g g	
Male	48%		
Female	50%		
Another gender category	*%	2	
Prefer not to say	1%	Y	
Less than \$25,000	15%		
\$25,000 to \$49,999	17%		
\$50,000 to \$74,999	20%		
\$75,000 to \$99,999	13%		
\$100,000 to \$149,999	14%		
\$150,000 and over	14%	0	
Prefer not to say or not sure	7%		



## **In-Depth Interviews**

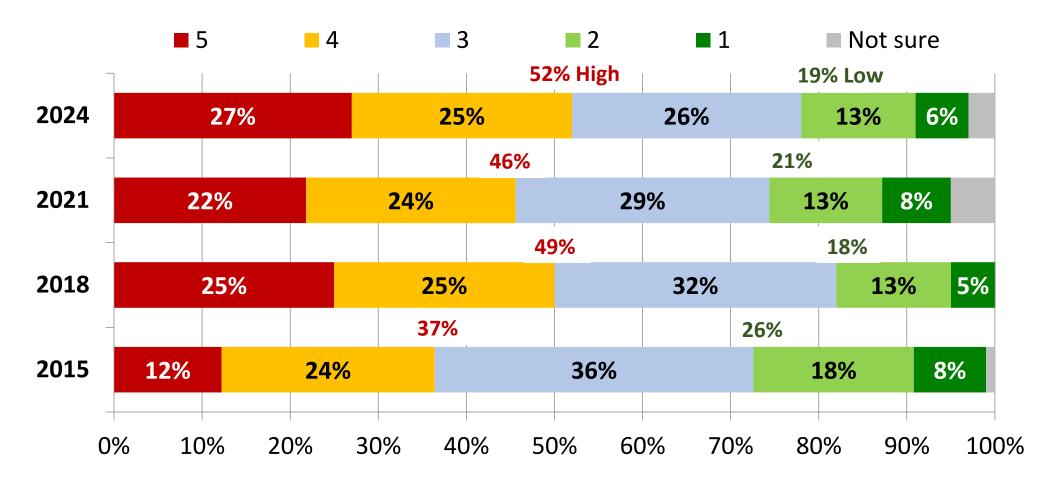
- 45-minute virtual interviews
  - Perceptions of air quality
  - Sense of personal agency, effectiveness
  - Behaviors: Barriers & Motivators
- 15 participants
  - Selected from the survey sample
  - Perceptions we wanted to understand
  - Gap between intention and adoption of behaviors
  - Broad representation by geography, socioeconomics, demography
- 3 professional interviewers
- Conducted Dec 29 Jan 9





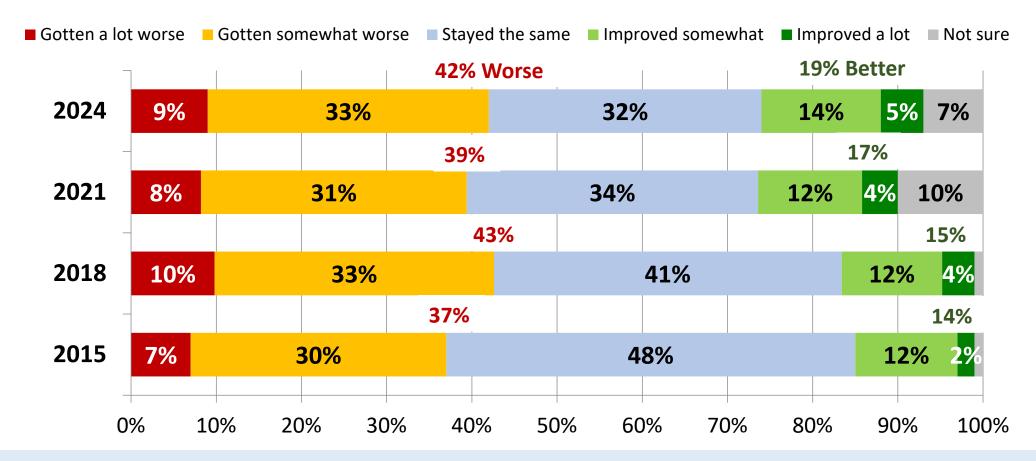
# Impressions of Air Quality

#### **Problem of Air Pollution**



<sup>2.</sup> On a scale of 1 to 5, where 1 is not at all a problem and 5 is a very big problem, how much of a problem do you believe air pollution is in the metropolitan area where you live?

### **Perception of Trend in Air Pollution**



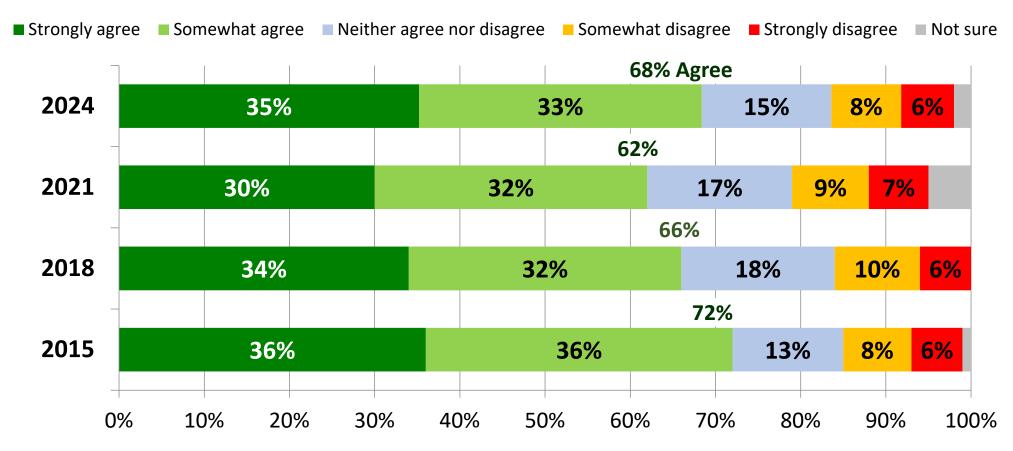
By 2-to-1, people perceive a worsening.

After improvement in 2021, a return to 2018 levels.

But the number saying "better" is inching upward.

<sup>3.</sup> How would you say that air pollution in the metropolitan area where you live has changed over the last five years?

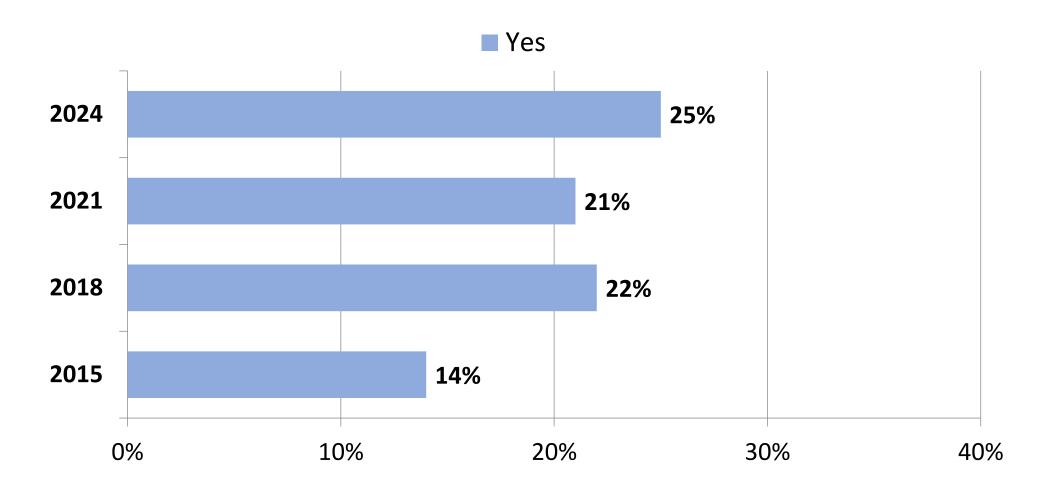
# Air pollution affects the quality of life of my family.



4. How strongly do you agree or disagree with this statement?

Air pollution affects the quality of life of my family.

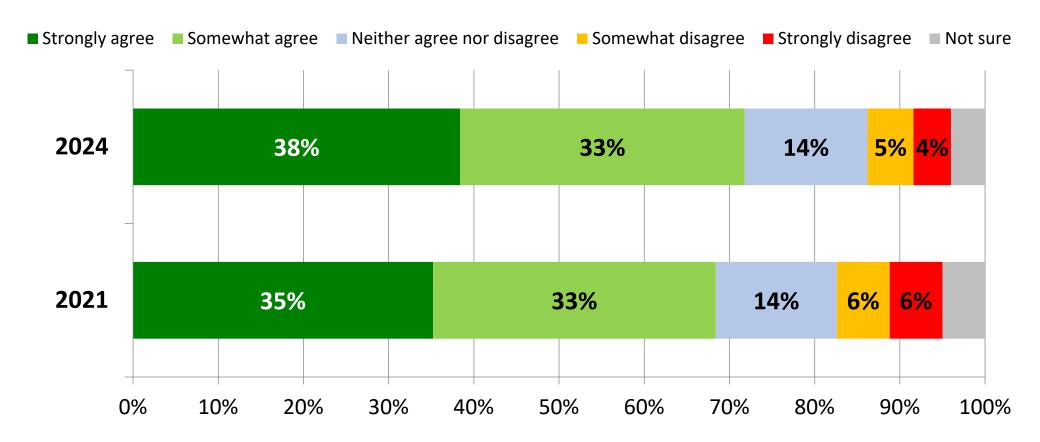
#### **Awareness of Clean Air Partners**



Awareness of Clean Air Partners is at its highest level.

# Inequitable Impacts

# Air pollution impacts some groups of people more than others.

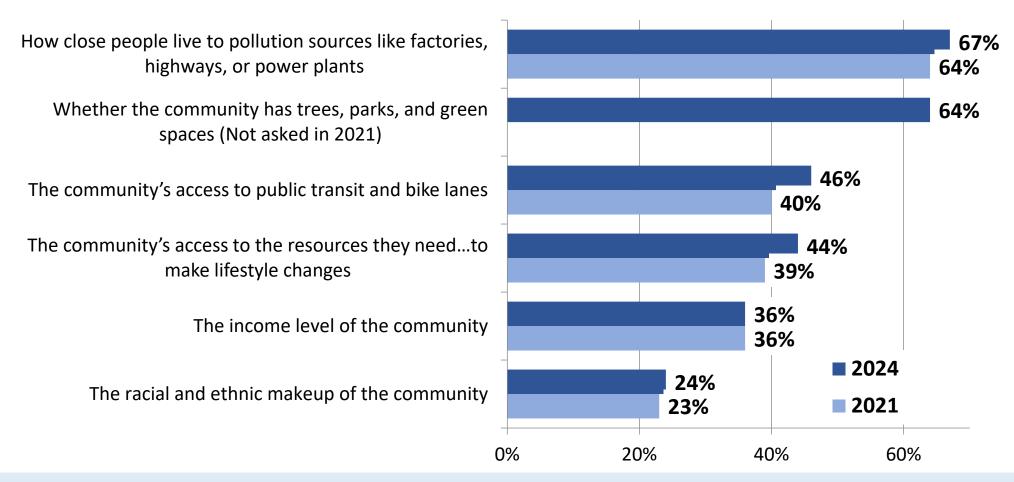


#### Widespread awareness of unequal impacts.

12. How strongly do you agree or disagree with this statement? Air pollution impacts some groups of people more than others.

# **Factors That Might Influence Differences in Air Pollution**

Asked of Those Who Perceive Differences

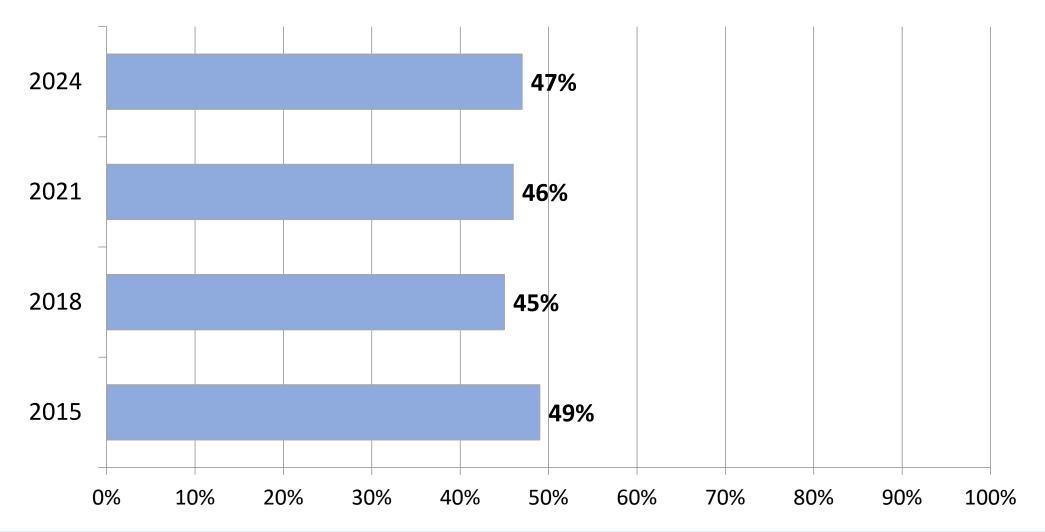


People are more likely to relate proximity and conditions to inequities, rather than the demographic or socio-economic makeup of the neighborhood.

13. Following are some factors that <u>might</u> influence differences in air pollution across communities. For each one, please say if you think it has a strong impact, some impact, or no impact on differences in air quality.

# AQI

#### **Have Heard or Seen Air Quality Color Codes**



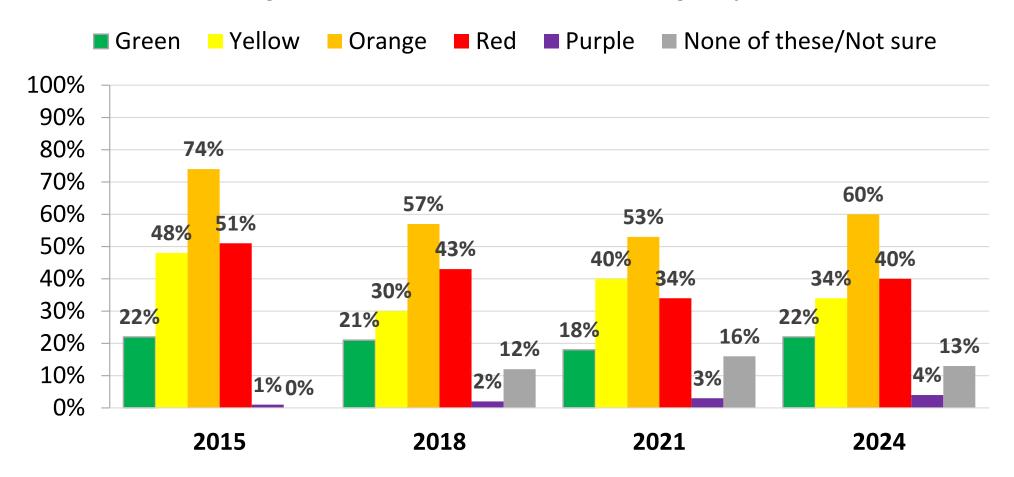
Awareness of color codes holding steady at about half the population.

7. The Air Quality Index, also known as the AQI, uses a color code system.

Over the last few months, have you heard or seen any color codes used to refer to the air quality?

#### **Recall of Color Codes**

#### Among Those Who Remember Seeing Any Codes



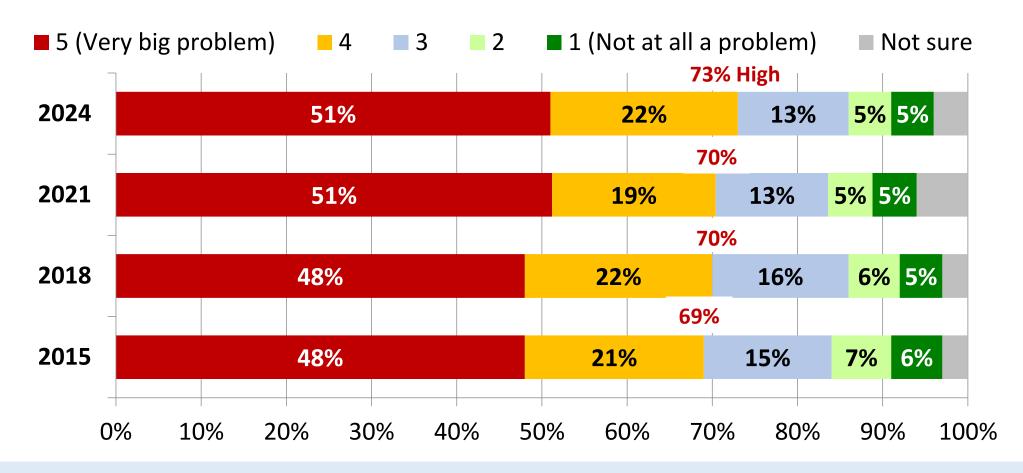
#### Current recall similar to 2018.

(If remember seeing or hearing color codes):

8. What air quality color codes did you hear or see in the last few months?

# Climate Change

## **Problem of Climate Change**

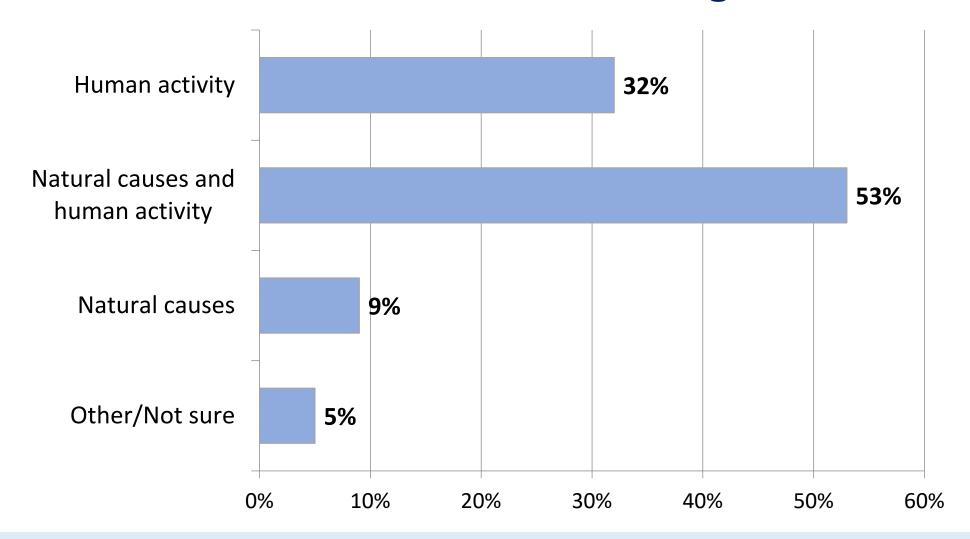


#### Climate change concern slowly increasing.

Climate Change refers to any significant change in the measures of climate lasting for an extended period of time. Climate change includes major changes in temperature, wind patterns, and frequency and severity of storms.

10. On a scale of 1 to 5, where 1 is not at all a problem and 5 is a very big problem, how much of a problem do you believe climate change is?

### **Human Role in Climate Change**

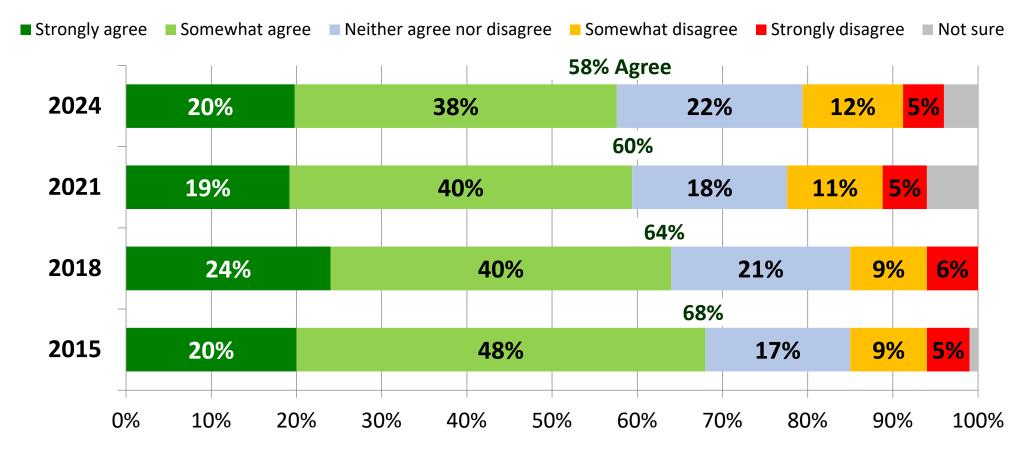


An animating concern: 85% in current survey believe humans have a role. Little shift in these numbers in recent surveys.

11. What do you think causes climate change? Please select just one.

# Air-Friendly Behaviors

# I can make a difference in improving air quality.



A steady drop in feelings of personal agency.

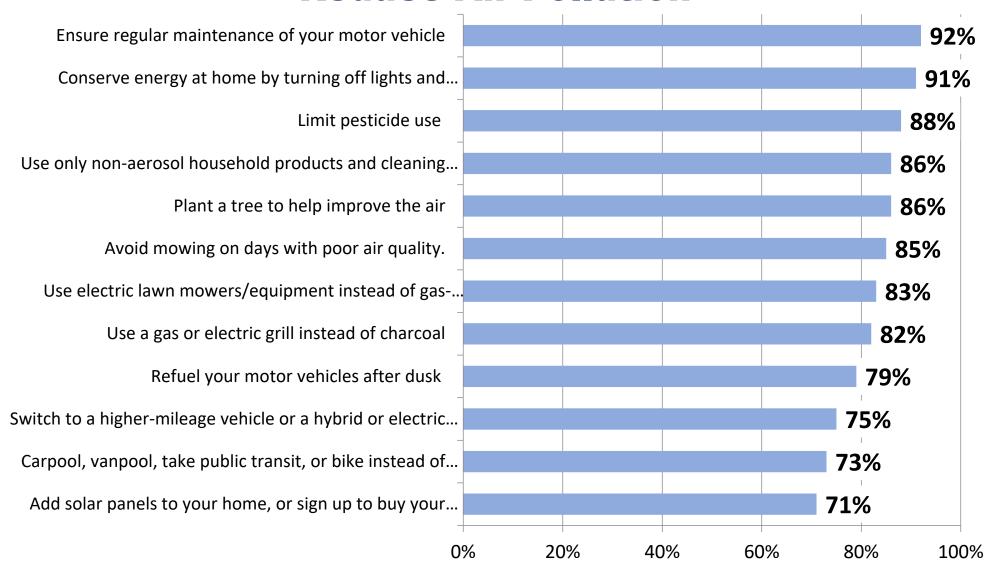
5. How strongly do you agree or disagree with this statement? I can make a difference in improving air quality.

### **Insight from the In-Depth Interviews**

Bigger Forces at Work

"I can try to make my little environment better, but there is nothing I can do about air pollution, water pollution, the lack of any resources we need, global warming, climate change, there's nothing I can do. I can talk about it all day long. I can be very passionate about it. But the people who make the laws or have the money to give to the people who make the laws, they need to do the things."— Lyra

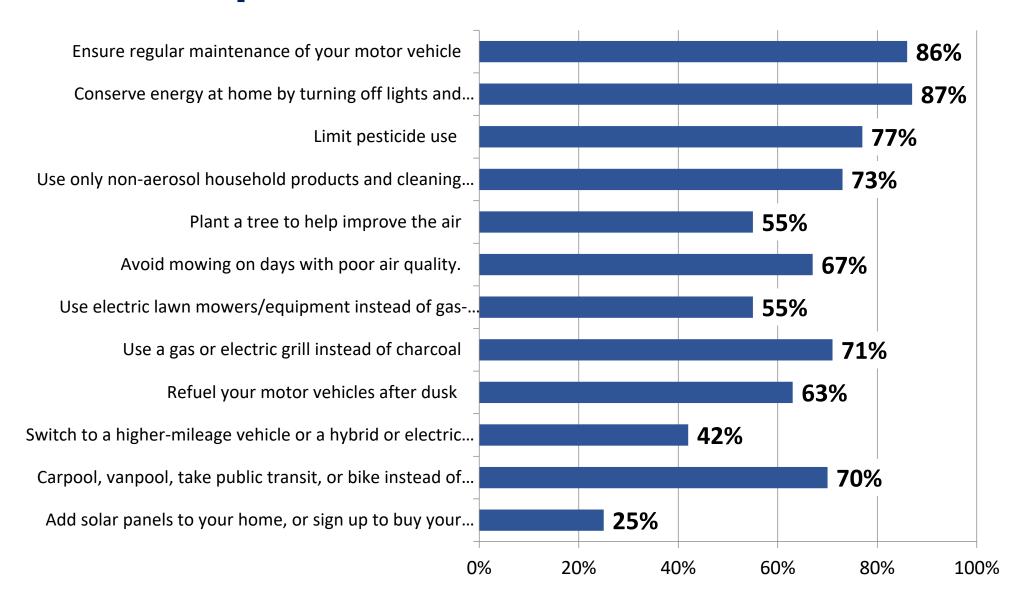
# What People Are Willing to Do to Reduce Air Pollution



Broad willingness to take actions.

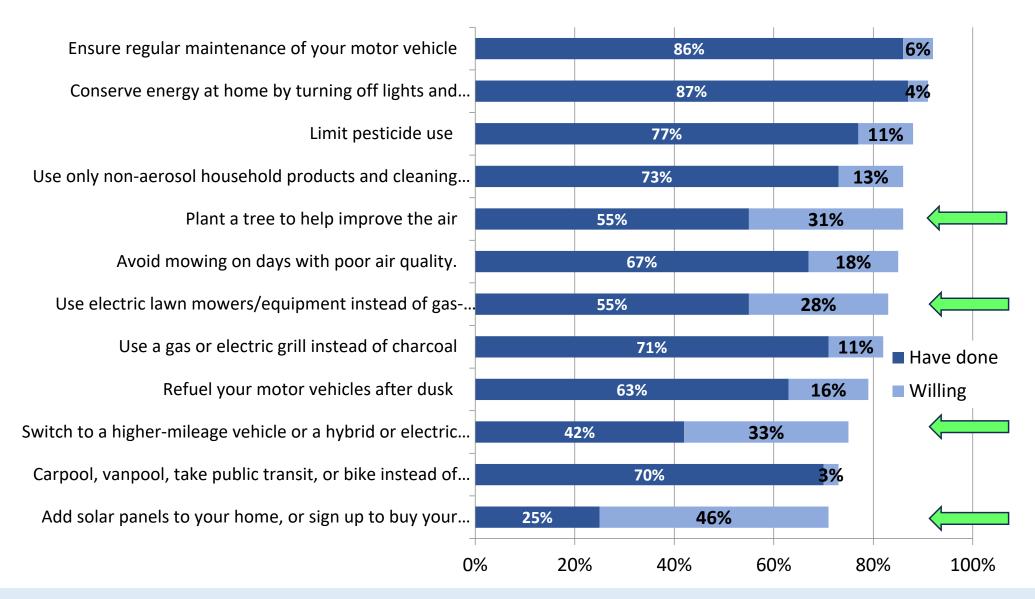
6. Which of the following behaviors are you willing to do to reduce air pollution?

### What People Have Done to Reduce Air Pollution



6. Please also indicate if you have done it to reduce air pollution.

#### Where Are the Greatest Opportunities?



Several behaviors show a large opportunity gap between willingness and adoption.

6. Which of the following behaviors are you willing to do to reduce air pollution? Please also indicate if you have done it to reduce air pollution.

### **Insight from the In-Depth Interviews**

Encouraged by Other People, and Knowing the Reason Why

"So, I guess if you're seeing people take action...and you're seeing the reason why they're doing it and you start to follow along in those steps, it causes a domino reaction. **The more people that you see doing it, the more you're likely to follow along**, especially if you see the reasons why." — Remi

"I'd be curious to know more of the scientific things behind it because I'm not just going to do something blindly, I guess." — Kristina (referring to refueling after dusk)

## **Insight from the In-Depth Interviews**

An Easy Action and New Awareness

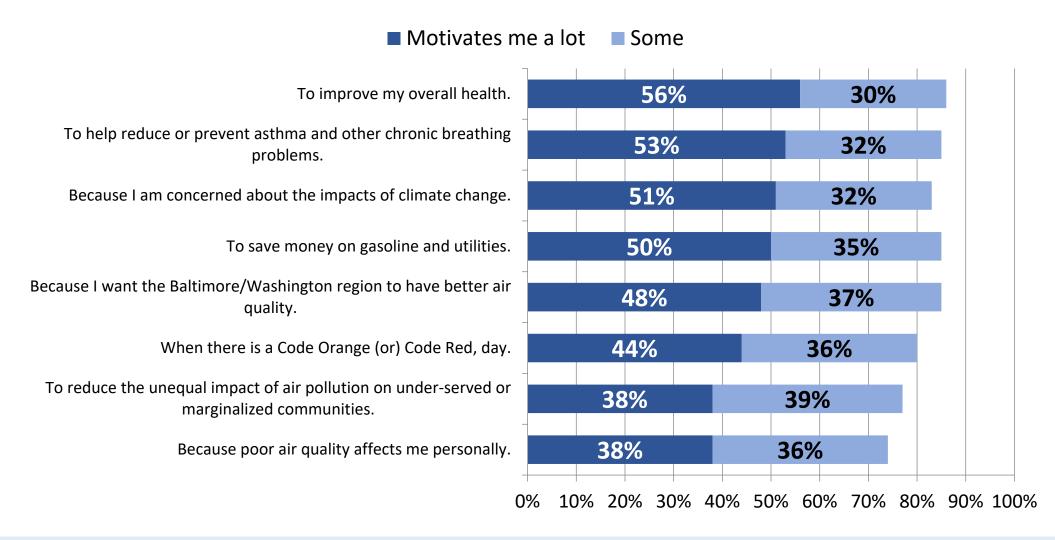
"Well, solar panels I couldn't do here because this is an apartment complex, but a community solar farm, I would definitely look into it and get more information for it." — Denise

"I have not heard of that yet. That is something that I will probably look into at the end of this call."

Shelton (referring to community solar)

# **Motivating Attitudes**

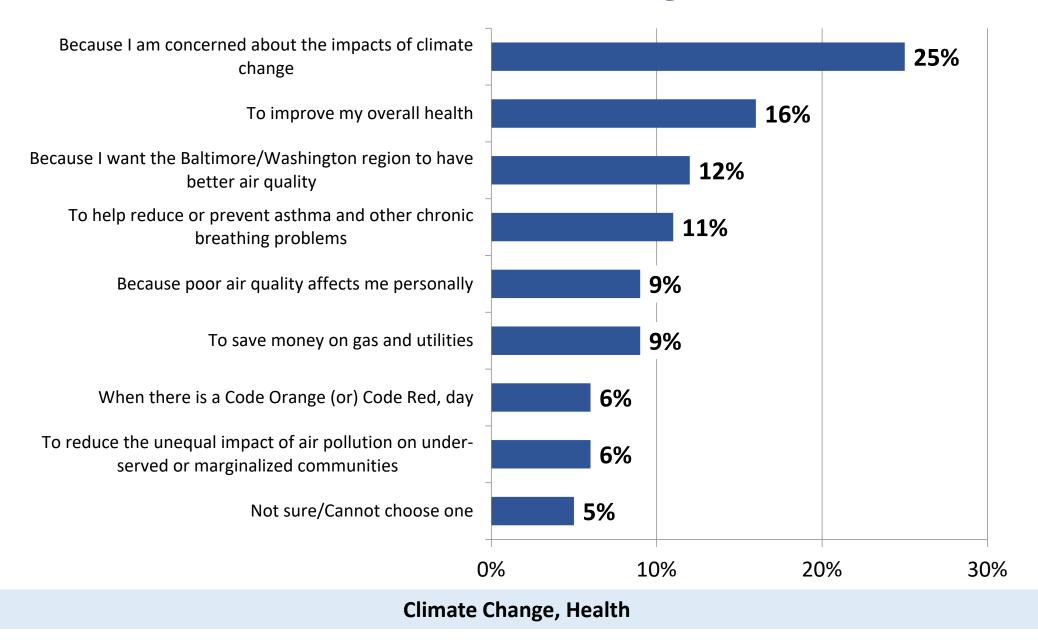
# **Top Motivations to Improve Air Quality**



#### Health, Climate Change, Money

16. Please rate how much the following statements would motivate you to do more in your daily life to help reduce air pollution and improve air quality. For each one, please say if it motivates you a lot, some, not much, or not at all.

#### **The One Most Motivating Reason**



17. Please choose the ONE statement that motivates you the most.

## **Insight from the In-Depth Interviews**

Speaking of Climate and Health

"Just personally, I'm concerned about the impact of climate change. I want the next generation, my kid's kids, to be able to enjoy this beautiful green and blue marble in the cosmos.

And if we don't do something, ...and I don't know what that something is going to be...." — Quentin

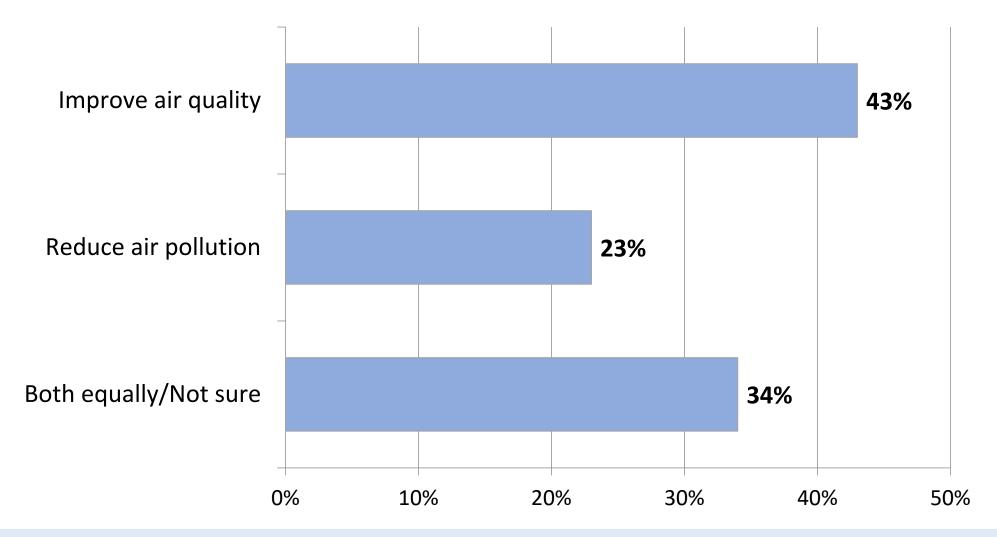
"Both my children have asthma, so that's a big factor to me."

— Denise

"I have a lot of friends and family members that actually have asthma...So I mean...if I'm using charcoal, it may not make it hard for me to breathe, but my neighbors or anybody else that's suffering from breathing problems such as COPD or asthma, that's huge.

- Todd

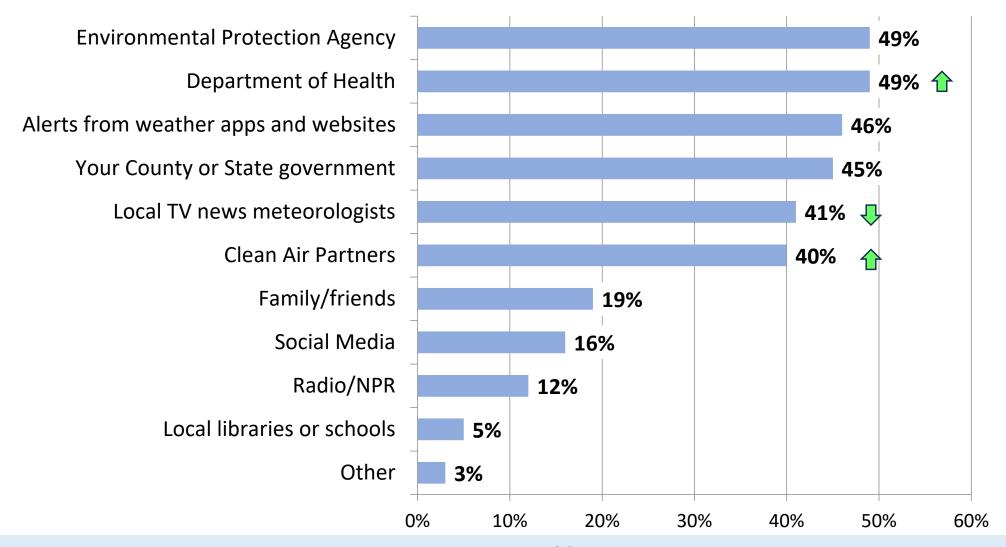
### **More Motivating Framing**



More aspirational framing is more motivating. Little shift in these numbers in recent surveys.

18. Which phrase motivates you more, "reduce air pollution" or "improve air quality?"

#### **Trusted Sources of Information about Air Quality**



Very positive trust in public agencies.

Local meteorologists have dropped steadily from 57% in 2018.

Clean Air Partners has doubled from 21% in 2018.

19. What are the top 3 or 4 sources of information about local air quality that you would prefer to rely on? Choose up to 4.



### 2024 Public Awareness Research: Summing up

- Air quality has widespread impact.
- People see clear causation, mainly due to transportation.
- Worry about family, neighbors, inequities.
- Climate change and health highly motivating.
- Clear gaps between willingness and action on several behaviors.
- Explain reasons why; make the action accessible.
- Show momentum and shared commitment.
- Clean Air Partners has a growing profile.
- People look to public agencies for their cues on air quality.