LINKS:

Because City of Richmond staff do not have the ability to contribute to the chat feature in MS Teams, we will create a list of links to be shared with the WG here - slides, agenda, other materials, etc.

- Meeting slides
- Agenda
- Equity Screening Tool
- Feedback survey
- RVAgreen 2050 Community Capacity Survey

Q&A:

Because City of Richmond staff do not have the ability to contribute to the chat feature in MS Teams, we will use this slide to communicate questions and answers throughout the meeting

- Type your questions here!

- City Departments had a period of time to review the plan the last time around--I don't remember if it was separate from the public comment or they just got some special email reminders. Is that happening this time around too?
- The Office of Sustainability and everyone within it has put an impressive amount of time into the plan. How much time do staff plan on spending on implementing and measuring progress? What else is in store for the Office after the Plan is adopted?

RVAgreen 2050 Environment Working Group

Monday, November 15, 2021

Plan Deliverables

City of Richmond RVAgreen 2050

Equitable climate action for a healthy and resilient Richmond

Agenda

I. **Intro:** Settling in & ground rules

II. **Partner Updates:** What are your recent "wins" for equitable climate action and resilience?

III. **Review:** Where we've been

IV. **Discussion:** Elements of the plan & strategy and subcomponent information

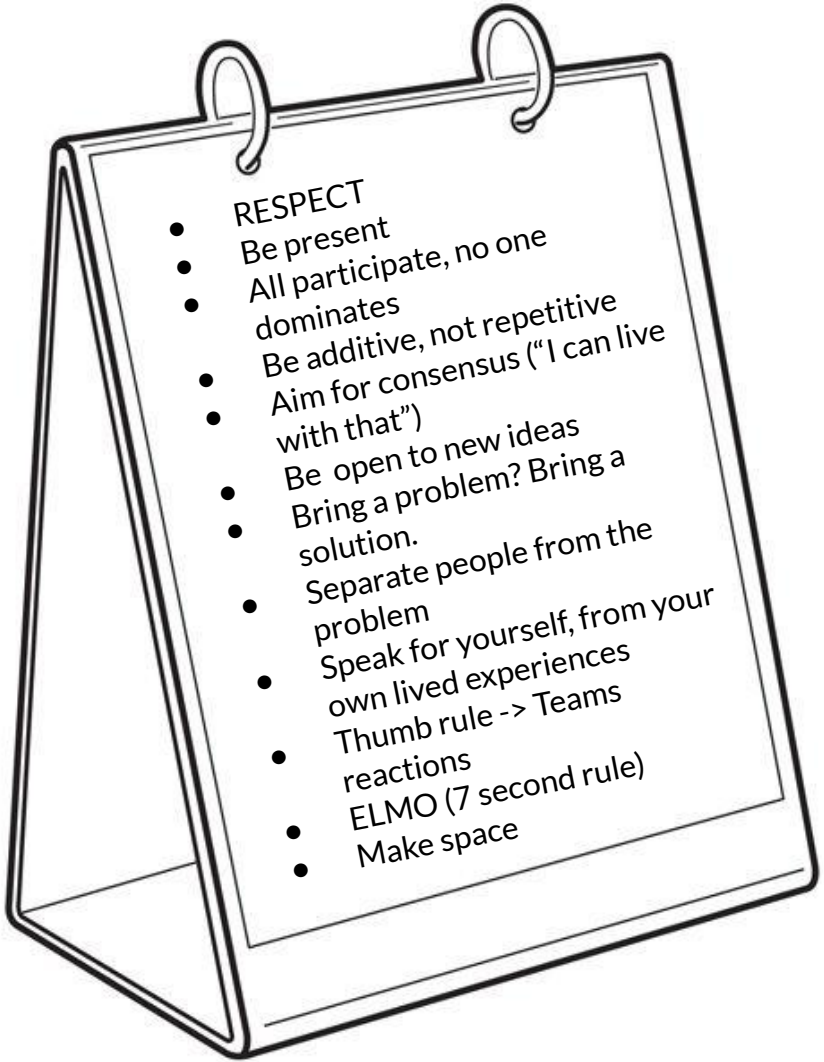
V. **Discussion:** What's your pitch?

VI. **Conclusion:** Wrap-up and next steps

Today's Objectives

- Discuss updates, questions, etc. related to the RVAgreen 2050 planning process
- Provide input on the deliverables for the RVAgreen 2050 plan
- Help create content for the plan - why is this so important?

Ground Rules / Group Expectations



Partner Updates

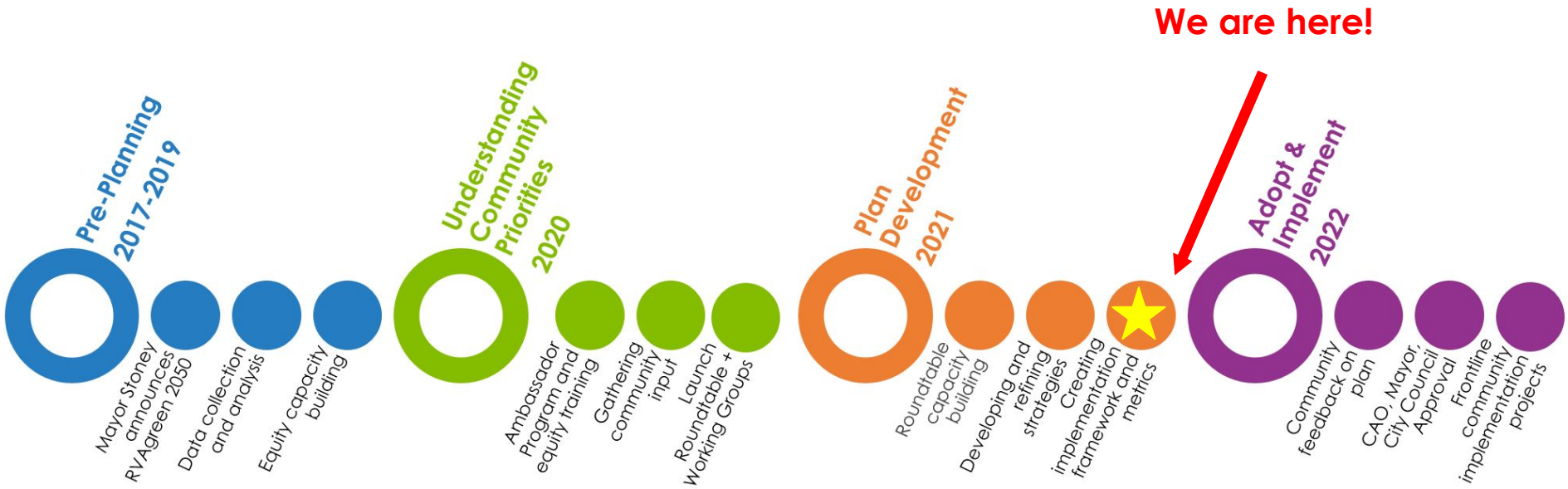
What are your recent "wins" for equitable climate action and resilience?

Science Museum of Virginia's "The Green" https://richmond.com/entertainment/science-museum-of-virginia-new-parking-deck-now-open-old-parking-lot-to-become-green/article_bc1ccca1-5577-57f2-905b-dc316de75d15.html

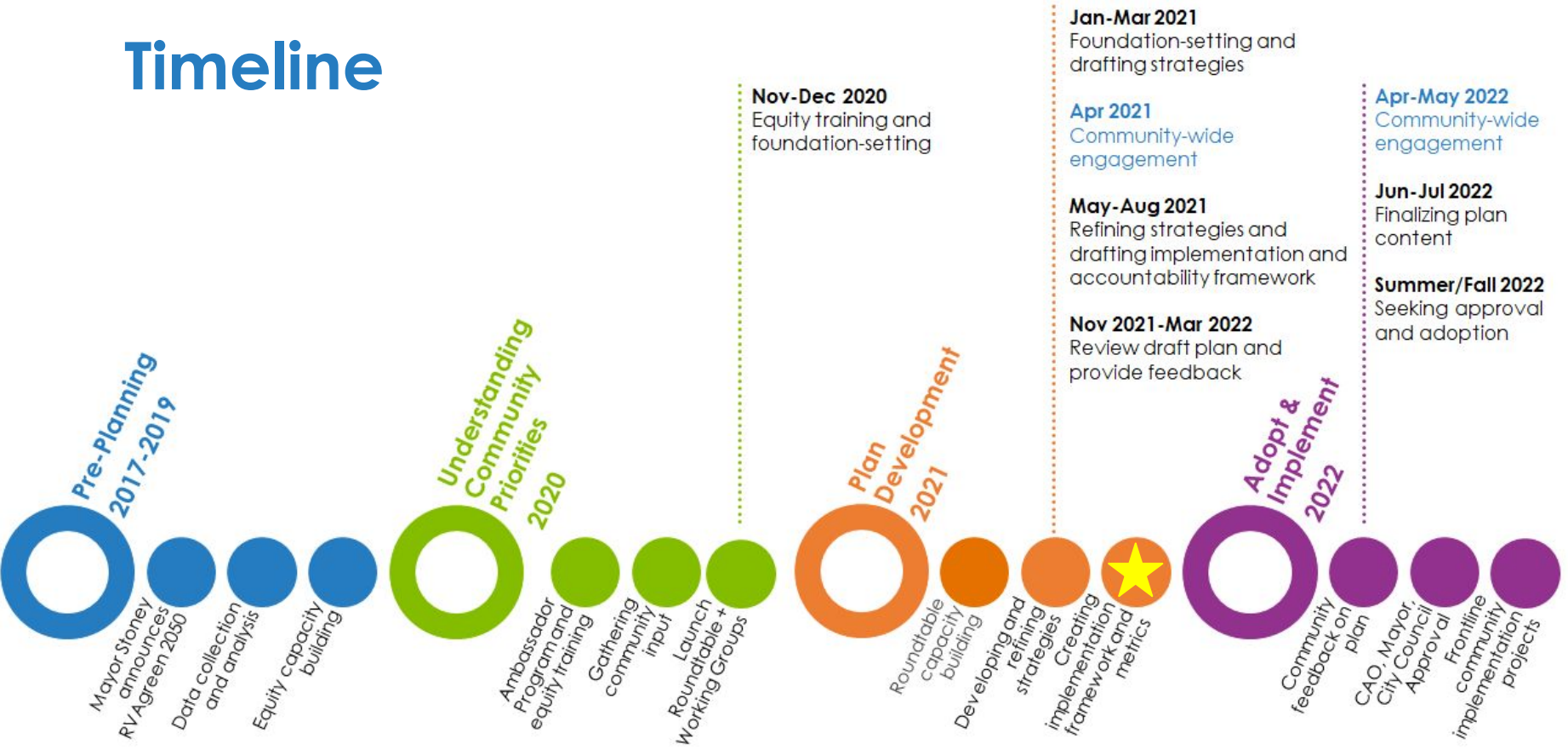
not perfect, but Richmond's new up-to-the minute combined sewer overflow map is now viewable to the public 24/7/365: https://apps.emnet.net/richmond-pub-map-app/?city=47&config=5c0cacee-7e95-4eea-922d-c736c83eb4b9

Where we've been

Process Overview



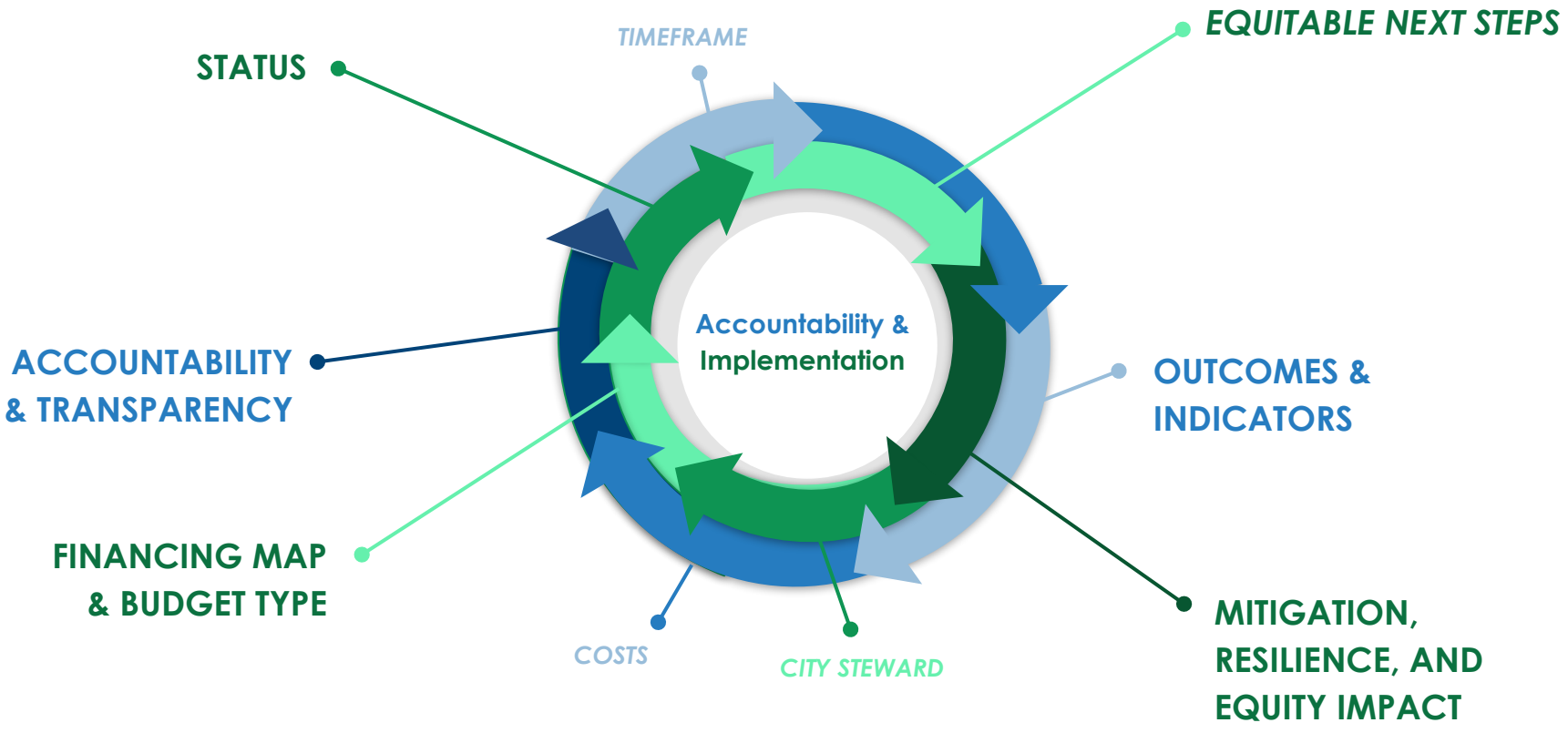
Timeline


Pre-Planning 2017-2019
Mayor Stoney announces RVAgreen 2050
Data collection and analysis
Equity capacity building
Understanding Community Priorities 2020
Ambassador Program and equity training
Gathering community input
Launch Roundtable + Working Groups
Nov-Dec 2020
Equity training and foundation-setting
Plan Development 2021
Roundtable capacity building
Developing and refining strategies
Creating implementation framework and metrics
Jan-Mar 2021
Foundation-setting and drafting strategies
Apr 2021
Community-wide engagement
May-Aug 2021
Refining strategies and drafting implementation and accountability framework
Nov 2021-Mar 2022
Review draft plan and provide feedback
Adopt & Implement 2022
Community feedback on plan
CAO, Mayor, City Council Approval
Frontline community implementation projects
Apr-May 2022
Community-wide engagement
Jun-Jul 2022
Finalizing plan content
Summer/Fall 2022
Seeking approval and adoption

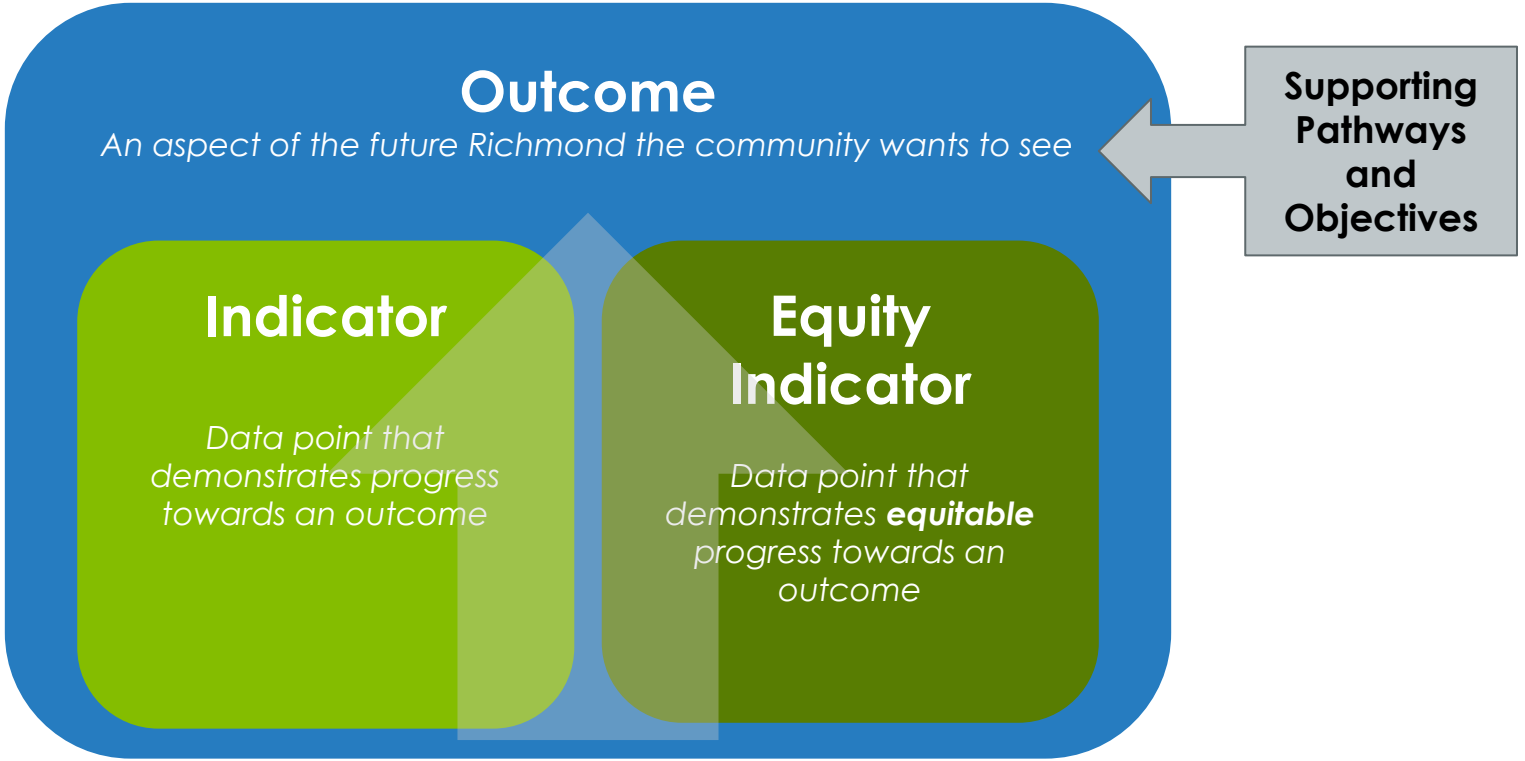
RVAgreen 2050 DRAFT Structure

Goals	What is the purpose of RVAgreen 2050?
Vision	What does the ideal future look like when RVAgreen 2050 is implemented?
Community Priorities	What cross-cutting public values do we want to center in our plan?
Pathways	What leverage points will lead us towards realizing and operationalizing the goals and community priorities?
Objectives	What are the long-term aims we want to accomplish, organized into the different pathways?
Prioritized Strategies	What are the strategies that will help us achieve our goals and what are the SMARTIE actions that will lead us there?
Impacts	How will our strategies impact the community and lead to a more equitable, resilient, and adaptive Richmond?
Indicators	How will we measure success?
Implementation	How are we going to equitably implement, measure progress, and ensure accountability in this plan?

Equitable Implementation and Accountability Framework



Measuring progress of RVAgreen 2050



RVAgreen 2050 Outcomes

- Cleaner and more efficient buildings
- Engaged and involved community
- Improved air quality
- Advanced green economy
- Increased support for climate action and resilience
- More green space and trees
- Lower greenhouse gas emissions
- Increased heat resilience
- Increased flood resilience
- Climate-ready community
- Less landfill waste
- Cleaner and more efficient transportation

RVAgreen 2050
“THE PLAN”

What is “the plan”?

A document

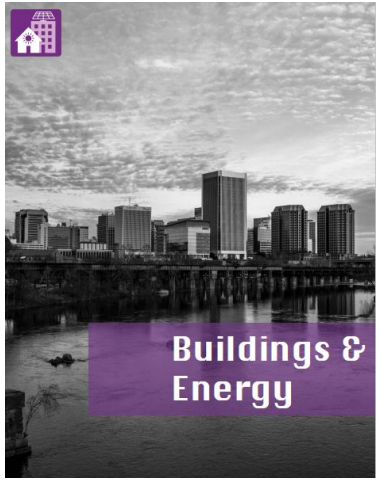
+

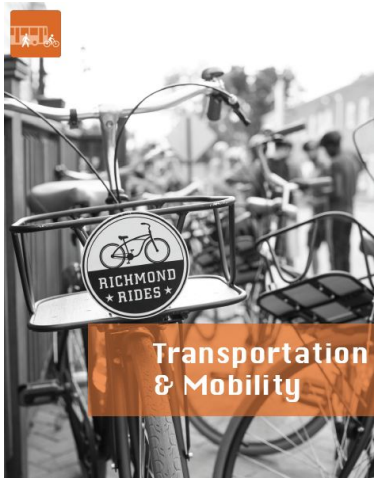
an interactive website

What informs the plan?

DRAFT OUTLINE (high level)

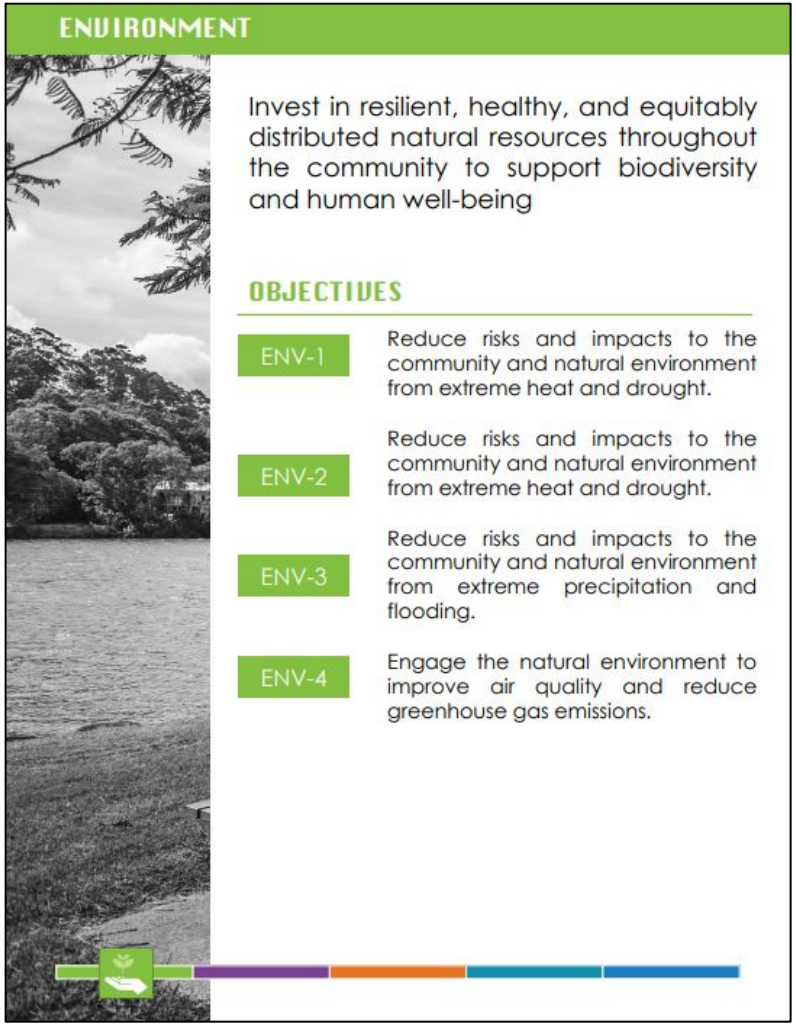
I. Letter from the Mayor
II. Land stewardship acknowledgment
III. Acknowledgments
IV. Definitions & acronyms
V. Guide: how to read the plan / at a glance map
VI. Vision, guiding principles + why now? + cost of inaction
VII. Background, context, accomplishments
VIII. Planning process
IX. Racial equity and environmental justice (context, maps, planning process)
X. Richmond today: climate conditions and GHG emissions
XI. Richmond 2030: pathways, objectives, and strategies
XII. Advocacy: what can I do?
XIII. Lessons learned
XIV. Appendices
XV. Methodologies





DRAFT MOCK-UP

Each pathway section begins with the pathway description and objectives



Symbols and/or text to indicate which of the 12 outcomes are supported by this objective

ENVIRONMENT

ENV-1 Reduce risks and impacts to the community and natural environment from extreme heat and drought.

OUTCOMES

How does this objective contribute to a more resilient, adaptive, healthy, and equitable Richmond?

STRATEGIES

ENV-1.1 Green Space Management
Create a program and public-private partnerships to maintain and expand high-quality public green space.

ENV-1.2 Parks Master Plan
Support the development, funding, and implementation of a Parks Master Plan.

ENV-1.3 Urban and Community Agriculture
Develop, fund, and implement an urban and community agriculture program.

List of strategies for each objective

DRAFT MOCK-UP

Context information: data, maps, and research to show why this strategy is important

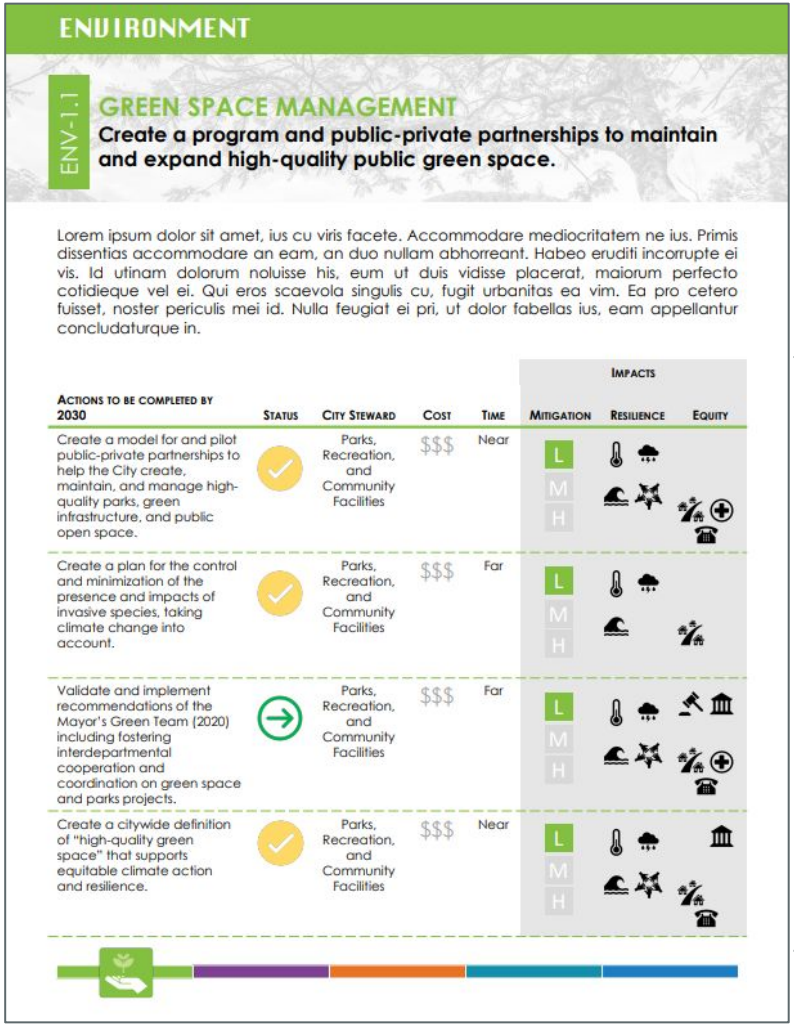
Each action will have:

Status
- Ongoing
- Ready to go
- Facing obstacles

City steward

Cost
- $ = under 100k
- $$ = 100k - 1M
- $$$ = 1M+

Time
- Near: 2022-25
- Far: 2026-30



ENVIRONMENT

ENV-1.1

GREEN SPACE MANAGEMENT

Create a program and public-private partnerships to maintain and expand high-quality public green space.

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Actions to be completed by 2030	Status	City Steward	Cost	Time	Impacts: Mitigation	Impacts: Resilience	Impacts: Equity
Create a model for and pilot public-private partnerships to help the City create, maintain, and manage high-quality parks, green infrastructure, and public open space.	✓	Parks, Recreation, and Community Facilities	$$$	Near	L		
Create a plan for the control and minimization of the presence and impacts of invasive species, taking climate change into account.	✓	Parks, Recreation, and Community Facilities	$$$	Far	L		
Validate and implement recommendations of the Mayor's Green Team (2020) including fostering interdepartmental cooperation and coordination on green space and parks projects.	→	Parks, Recreation, and Community Facilities	$$$	Far	L		
Create a citywide definition of "high-quality green space" that supports equitable climate action and resilience.	✓	Parks, Recreation, and Community Facilities	$$$	Near	L		

Additional information will go in an appendix:
- Equitable next steps
- Financing map
- Budget type

Symbols to demonstrate impacts:
- GHG reduction (high, med, low)
- Climate resilience (heat, extreme weather, flooding, and community)
- Equity (7 community priorities)

DRAFT MOCK-UP

Discussion

~15 minutes

Discussion questions:

- What information is most important/relevant to you?
- Is anything missing?
- What format/design would work best to communicate this information?

NOTES: Group 1

- *Notes…*
- *I'm wondering if there should be a fourth cost category to break up $100K to $1M*
- *Legislative map - will there be a place in the plan describing what ordinances etc. need to be passed by City Council to allow the city to take meaningful actions -PGB*
- *Time - are the near / far designations the start date or finish date for the goal? Is there a way to indicate goals that will take all 9 years like GHG emissions reduction -PGB*
- *Land stewardship acknowledgement - could pull language, resources from this Storymap: https://arcg.is/1jLbDT which fleshes out the Climate Equity Index, on especially indigenous peoples - PGB*
- *For actions "facing obstacles" - will it be clarified what those obstacles are?*
- *I am personally overwhelmed by the number of symbols—especially because there's a lot for "outcomes" and "climate resilience" and "equity" (it could just be me, but I'm worried about asking the general public to memorize/recognize about 20 different symbols) [SECONDED!]*
- *Should there be a "happening now" or "actively happening" option for "Time"? (for those projects that are "ongoing)*

NOTES: Group 2

- *notes...*

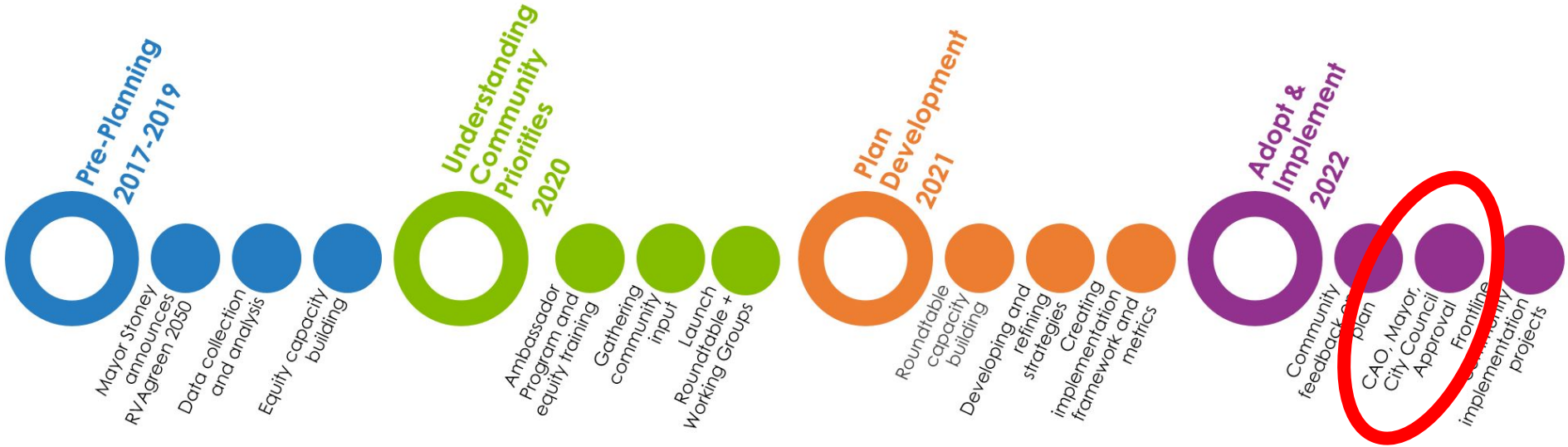
Break time!

Come back at ...

We need your help!

Why is this so important?

Process Overview



DRAFT OUTLINE (high level)

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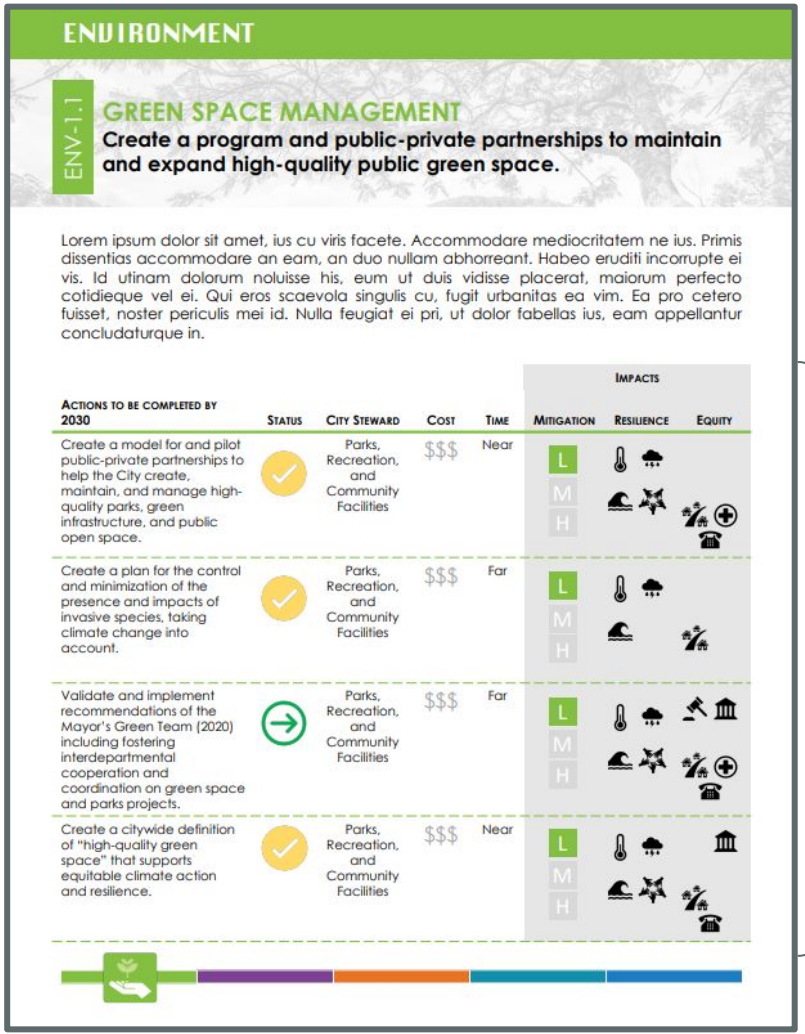

ENVIRONMENT

ENV-1.1

GREEN SPACE MANAGEMENT

Create a program and public-private partnerships to maintain and expand high-quality public green space.

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- GHG reduction (high, med, low)
- Climate resilience (heat, extreme weather, flooding, and community)
- Equity (7 community priorities)

DRAFT MOCK-UP

Discussion

~15 minutes

What's your pitch?

Why is this important?
What's the cost of inaction?

Objective 1: Make sure all residents have the opportunity to engage with healthy natural resources, spaces, and biodiversity.

Have a group of children present harrowing facts about living with health effects of pollution.

Everyone reads 3:00 minutes of the Lorax in sequence until we finish the book

(Thneeds required)

We are all spending a lot of time in our homes, behind our screens, and not getting outside. Kids, especially at a time when they should be exploring. Having more opportunities and a clear plan of action on how to ensure these spaces thrive and we thrive in them is important and crucial. We

Green space (beyond parks) is vital for better mental health outcomes for all--even just looking at trees

One of the most effective ways to cultivate stewardship of natural resources and the environment is to connect people directly to the natural environment around them. Establishing that connection is critical to the long-term success of this plan, our local environment, and the health of the community

Parks, open spaces, and urban forestry are what will make our city safe and habitable through the climate crisis. Every community deserves healthy open spaces. You are investing in the health of present and future Richmonders.

Cost of inaction: our planet, our children's futures

Important: food security, food justice, further reduce GHG emissions by reducing footprint

What's your pitch?

Why is this important?
What's the cost of inaction?

Objective 2: Reduce risks and impacts to the community and natural environment from extreme heat and drought.

It's so ~~HOT~~ in the summer. The adverse impacts of extreme heat could potentially impact a lot of our infrastructures--leaving homes , hospitals, schools, churches, offices susceptible to fires. I don't want to be inside in the summer

Costs! It saves money in the long run by less health care expenses. Tie between heat and health outcomes couldn't be more clear.

Extreme urban heat in Richmond's historically redlined neighborhoods has become the national example of how long-lasting the effects of institutional racism really are. This is our chance to make right what has been done in the past and lead by our example while the entire country is watching.

Equate the cost to something they actually want. Like "the damage would cost us 3 coliseums each decade" or something.

There will be an increase by X number of days above 95 degree heat. That is a life altering shift in our local climate that will fundamentally change how Richmonders work, learn, and play. We need drastic reductions in built surfaces to make our city safe.

It's important to literally protect the lives and property of Richmonders from sweltering heat and associated health outcomes. Investing in the right types of infrastructure to protect people is vital to sustain Richmond's economy and YOUR constituents

What's your pitch?

Why is this important?
What's the cost of inaction?

Objective 3: Reduce risks and impacts to the community and natural environment from extreme precipitation and flooding.

No one thinks about floodwaters until it's pouring--but we cannot solve flooding problems retroactively. There is a monumental need to prepare in advance for flooding and invest in infrastructure to protect each neighborhood in Richmond.

Anywhere it can rain, it can flood.

The cost of inaction can literally be human life. We rely on RFD and RPD and so many emergency services to save folks from floodwaters--but we need to invest further to reduce flooding incidents and mitigate them.

Last year alone, there were several heavy rain storms that caused floods around different parts of the City and no response or action plan in place. That was the first time a lot of my friends learned about the Flood Wall and the sewage overflow problems.

Flood prevention pays dividends! There is a specific $ spent on prevention / $ averted in response number (industry standard number, i just can't remember it off the top of my head). It is SO MUCH cheaper to be proactive than reactive

Share a real story of flooding in a local neighborhood. Talk to the community members who have actually been impacted by flooding in the past and the losses they have faced (especially those in council districts whose rep might vote against)

The cost for prevention would be less than having to develop solutions for already flooded areas.

Building on momentum from RVAH2O.

Don't let the River City become a negative label.

I recently learned floods can lead. to building explosions, which I didn't know.

What's your pitch?

Why is this important?
What's the cost of inaction?

Objective 4: Engage the natural environment to improve air quality and reduce greenhouse gas emissions.

It's an equity issue! All of the spatial inequalities that are beginning to accept as fact for temperature and urban heat islands are also true for air quality.

Clean air is as vital as clean water is for life.

Some instances of asthma (or at least asthma attacks) could surely be avoided for adults and children alike if air quality was better. We must act on this now and improve lives and health outcomes for Richmonders.

We have placed a burden on the earth so far by our carbon footprint and we have a responsibility to capture the carbon we have released and continue to release.

Adopted unanimously!
Woo hoo!

Wrap-up and next steps

- **NEXT STEPS:**
  - Volunteers-we'll be reaching out
  - Next meeting in February: THE DRAFT PLAN!
- **NOW:**
  - General reflections
  - Fill out feedback survey
  - Share updates, upcoming events, and resources

THANK YOU!

EXTRA SLIDES

Examples from other cities

Example:

San Antonio

MUNICIPAL
MITIGATION STRATEGIES

San Antonio's municipal government will take the lead on GHG mitigation efforts within the City. While municipal government operations only account for 3% of the city's total GHG emissions, the municipal mitigation strategies set a significant reduction goal that will allow the City to pilot approaches before implementing them in the broader community. The City of San Antonio commits to a greener and more efficient government to benefit all San Antonians and will continue to strive for excellence through implementation of City plans, including the SA Tomorrow Sustainability, Comprehensive and Multi-Modal Transportation Plans.

LEGEND

Initiation Phase	Constraints	In Current City Plan*	Co-Benefits
NT Near-term (Initiated by 2021)	A Awareness	Y Yes	AQ Air Quality
LT Long-term	BC Behavior Change		NC Natural Capital/ Ecosystem Services
	I Investment		QJ Quality Jobs
	P Policy		H Health Outcomes
	T Technology		A Affordability

*Strategy is listed in current City of San Antonio or partner agency plan

		STRATEGIES	LEAD DEPARTMENTS	PHASE	GHG	CONSTRAINTS	IN PLAN	AQ	NC	QJ	H	A
REDUCE BUILDING ENERGY CONSUMPTION	M1	BENCHMARKING AND PUBLIC DISCLOSURE OF BUILDING ENERGY CONSUMPTION Benchmark and publicly disclose building energy and water use for municipal buildings.	Office of Sustainability, Finance Department	NT	L	P	Y	✓			✓	
	M2	MUNICIPAL ENERGY POLICY To reduce energy consumption, adopt an Energy Policy Ordinance for City-owned buildings and facilities.	Office of Sustainability, Building and Equipment Services	NT	L	P	Y	✓			✓	✓
	M3	ZERO NET ENERGY (ZNE) BUILDINGS Achieve ZNE for all municipal buildings by 2040.	Transportation & Capital Improvements, Office of Sustainability	LT	H	I, P	Y	✓		✓	✓	✓
	M4	COOL/GREEN ROOFS Install cool or green roofs on municipal government buildings, as appropriate.	Transportation & Capital Improvements	LT	L	I, P	Y	✓	✓	✓	✓	✓
REDUCE TRANSPORTATION ENERGY CONSUMPTION	M5	STREETLIGHT CONVERSION Convert all streetlights to LEDs with daylight sensors by 2021 and implement the recommendations of the Urban Lighting Master Plan.	Finance Department, Transportation & Capital Improvements, Center City Development & Operations Department, CPS Energy	NT	L	I	Y			✓		✓
	M6	CLEANER AND MORE EFFICIENT VEHICLE TECHNOLOGIES Convert all fleet passenger vehicles and small trucks to more efficient options by 2025, with a priority on electrification based on recommendations of the Electric Fleet Conversion and Infrastructure Study (currently in development). Additionally, research and pilot the electrification of heavy trucks.	Office of Sustainability, Building and Equipment Services, Solid Waste Management Department, Transportation & Capital Improvement	NT	H	I	Y	✓			✓	
	M7	TRANSPORTATION DEMAND MANAGEMENT Reduce the GHG impact of employee commuting.	SA Metro Health District, Transportation & Capital Improvements, Human Services	NT	L-H	I, P, BC	Y	✓		✓	✓	✓
	M8	AIRPORT ACCREDITATION Consider pursuing and achieving Airport Carbon Accreditation.	Aviation	LT	H	I		✓			✓	
ADVANCE THE CIRCULAR ECONOMY	M9	PRIORITIZATION IN DECISION-MAKING To encourage ongoing education and decision-making around GHG reduction, include a carbon impact analysis in City projects and budgeting processes as well as consideration of City investments.	City Manager's Office, Mayor and City Council, Office of Management & Budget, Office of Sustainability	NT	L	P, BC	Y	✓	✓	✓	✓	✓
	M10	ENVIRONMENTALLY-PREFERABLE PURCHASING Update the City's green purchasing policy to consider the lifecycle impacts when choosing products.	Finance Department	LT	L	P	Y			✓	✓	
	M11	GREEN SPECIFICATIONS Reduce the GHG impact of materials specified in public works and roadway projects.	Transportation & Capital Improvements, Finance Department	NT	L	P	Y	✓		✓		
	M12	ZERO WASTE Strive to achieve zero waste for all municipal government operations by 2030 with a focus on overall reduction, product reuse, and circularity.	Solid Waste Management Department, Office of Sustainability	LT	L	BC	Y	✓	✓		✓	✓
EDUCATE & ENABLE	M13	GHG EDUCATION Develop and implement a comprehensive sustainability and GHG education program for municipal employees.	Office of Sustainability	NT	L	BC	Y	✓	✓	✓		

GHG = GHG Reduction Potential (Total to 2030)
H High Reduction Potential: More than 1,000,000 tCO_2e by 2030
M Medium Reduction Potential: 100,000 – 1,000,000 tCO_2e by 2030
L Low Reduction Potential: Less than 10,000 tCO_2e by 2030

Example:

Portland

CLIMATE ACTION PLAN AT A GLANCE

This *Climate Action Plan* identifies twenty 2030 objectives and more than one hundred actions to be completed or significantly underway in the next five years. This plan puts Portland and Multnomah County on a path to reduce carbon emissions 80 percent from 1990 levels by 2050 (and 40 percent by 2030) and to prepare for the impacts of a changing climate. It focuses principally on major actions to be taken to accelerate emission reductions.

To draft this *Climate Action Plan,* City and County staff worked with a Steering Committee, an Equity Working Group and technical advisors. These groups helped to identify the near-term actions most likely to result in the long-term changes necessary to achieve these ambitious climate action goals, while also advancing other community goals related to prosperity, the environment, health and equity.

BUILDINGS AND ENERGY

2030 OBJECTIVES

1. Reduce the total energy use of all buildings built before 2010 by 25 percent.
2. Achieve zero-net carbon emissions in all new buildings and homes.
3. Supply 50 percent of all energy used in buildings from renewable resources, with 10 percent produced within Multnomah County from on-site renewable sources, such as solar.

READ MORE ON PAGES 58–69

URBAN FORM AND TRANSPORTATION

2030 OBJECTIVES

4. Create vibrant neighborhoods where 80 percent of residents can easily walk or bicycle to meet all basic daily, non-work needs and have safe pedestrian or bicycle access to transit. Reduce daily per capita vehicle miles traveled by 30 percent from 2008 levels.
5. Improve the efficiency of freight movement within and through the Portland metropolitan area.
6. Increase the fuel efficiency of passenger vehicles to 40 miles per gallon and manage the road system to minimize emissions.
7. Reduce lifecycle carbon emissions of transportation fuels by 20 percent.

READ MORE ON PAGES 70–87

CONSUMPTION AND SOLID WASTE

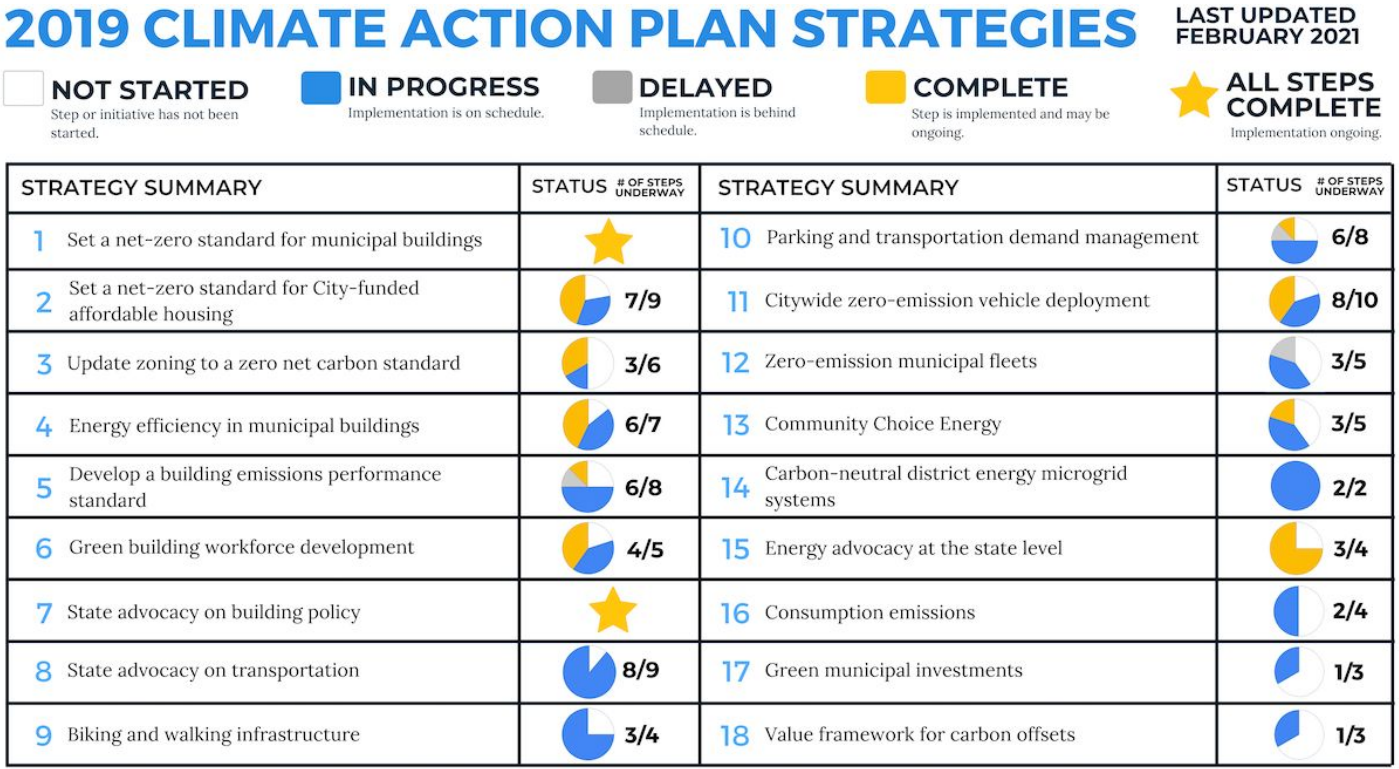
2030 OBJECTIVES

8. Reduce consumption-related emissions by encouraging sustainable consumption and supporting Portland businesses in minimizing the carbon intensity of their supply chains.
9. Reduce food scraps sent to landfills by 90 percent.
10. Reduce per capita solid waste by 33 percent.
11. Recover 90 percent of all waste generated.

READ MORE ON PAGES 88–97

Example:

Boston



Example:

Oakland

HOW TO READ THE ECAP