



Local Governments
for Sustainability



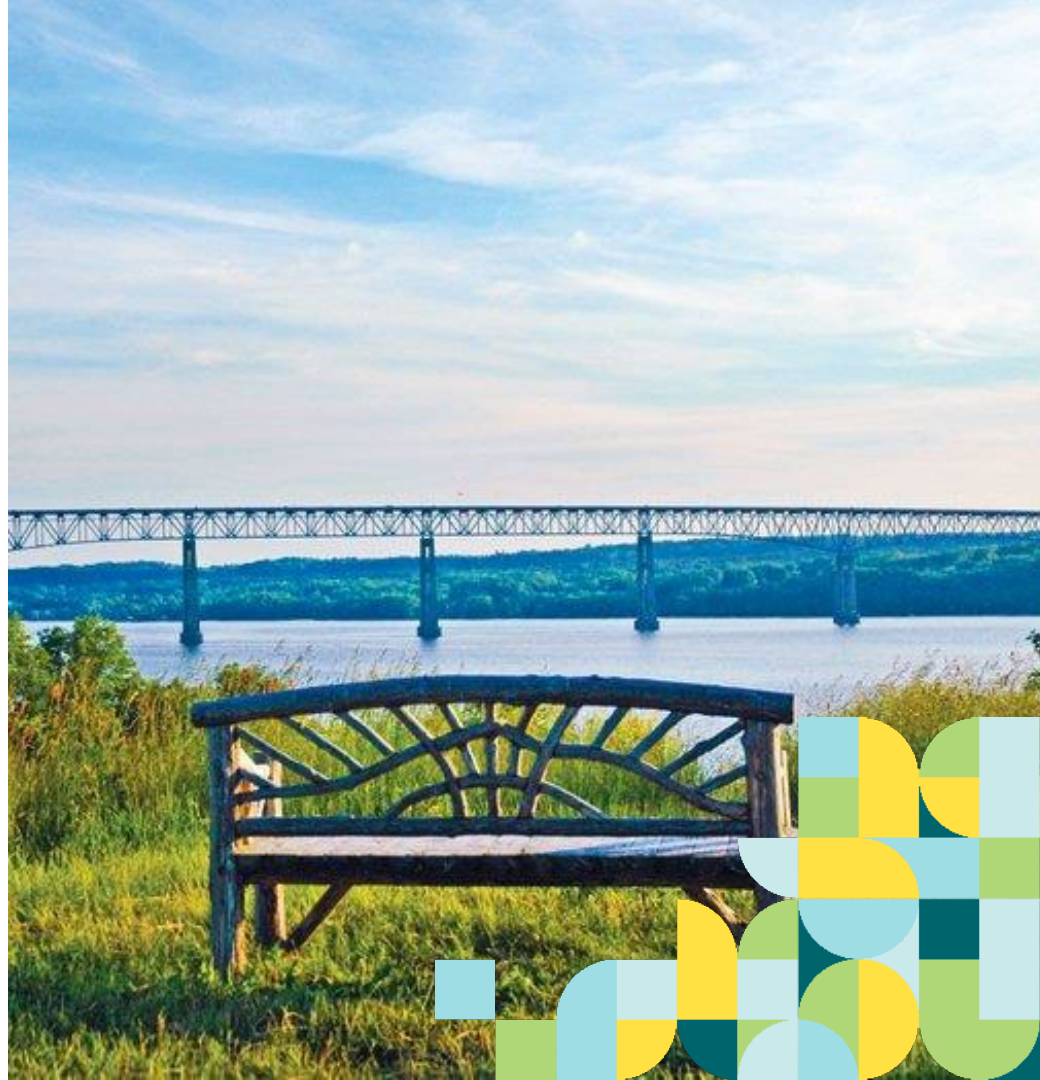
Climate Action Planning Institute Dutchess County

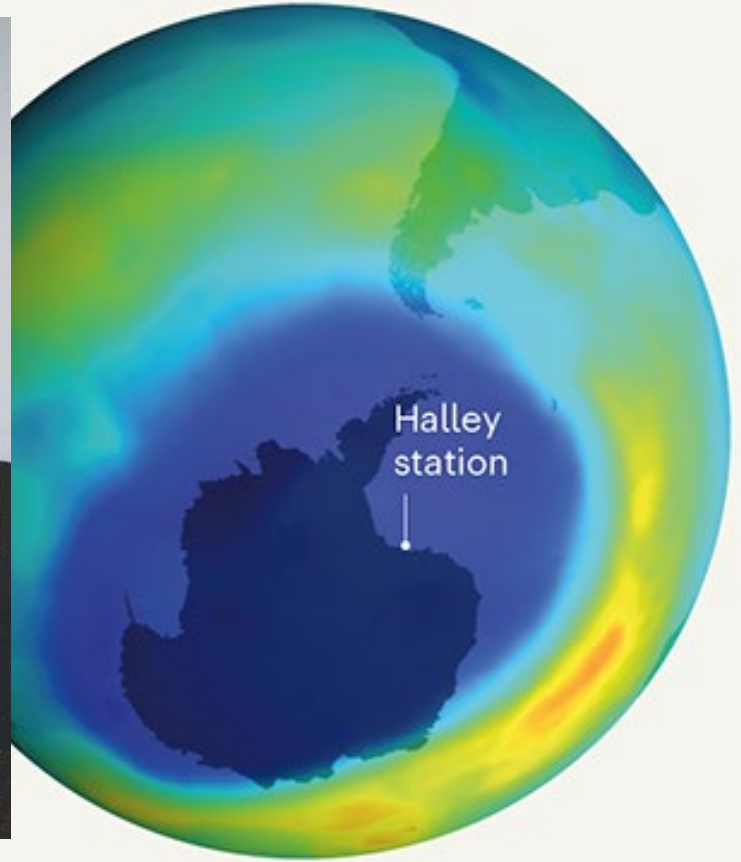
Kickoff! January 18, 2023



Department of
Environmental
Conservation

CAPI Dutchess is funded by the NYS Department of Environmental Conservation and is a partnership between Dutchess County, HVRC, and ICLEI.







5 Pathways to Sustainability



**LOW EMISSION
DEVELOPMENT**



**NATURE-BASED
DEVELOPMENT**



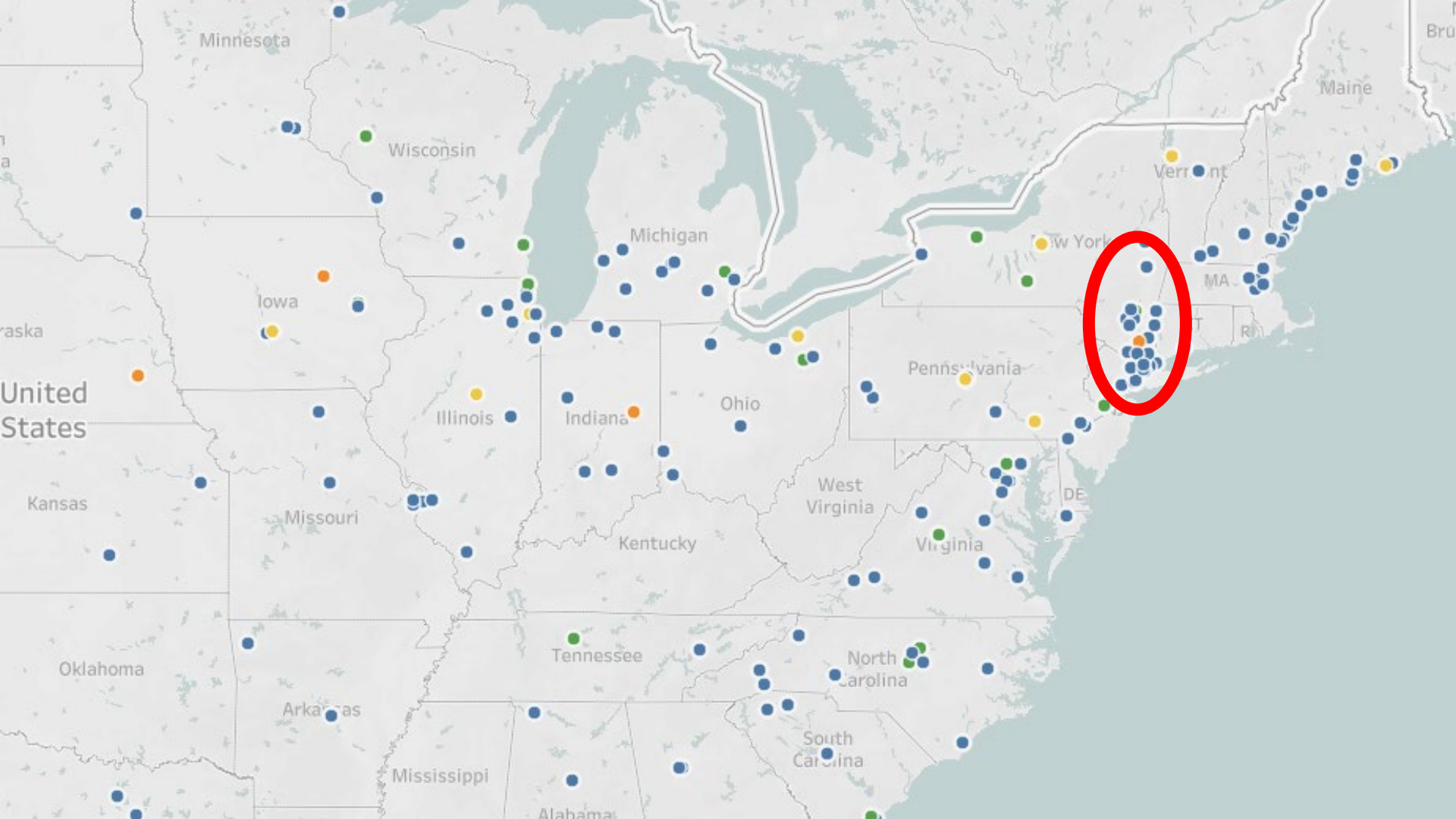
**EQUITABLE
AND PEOPLE-
CENTERED
DEVELOPMENT**



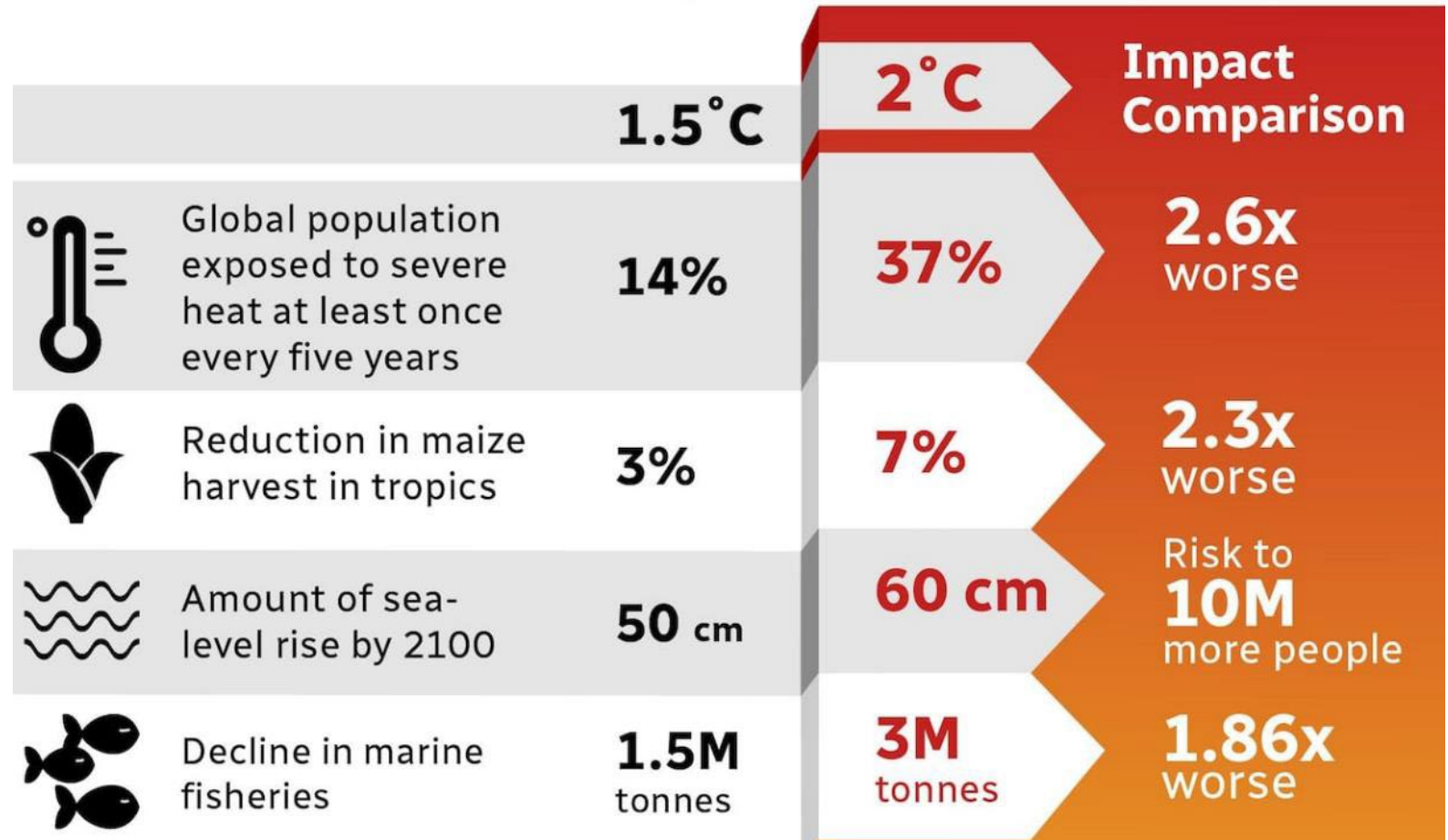
**RESILIENT
DEVELOPMENT**



**CIRCULAR
DEVELOPMENT**



Human health, safety, food security impacts



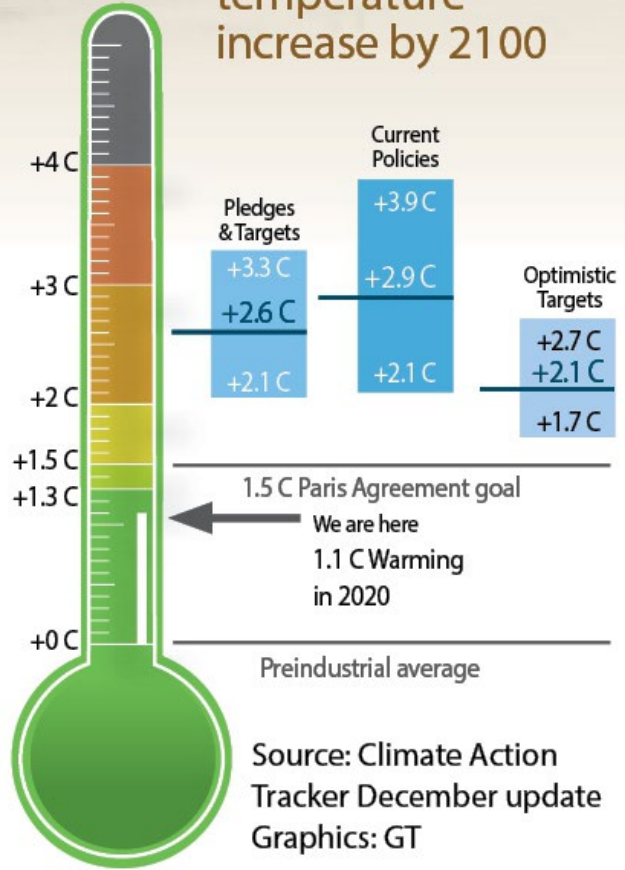
Source: Intergovernmental Panel on Climate Change

CBC NEWS



Every degree of warming matters

▶ Global mean temperature increase by 2100



Source: Climate Action Tracker December update
Graphics: GT



Climate Leadership and Community Protection Act (CLCPA) – Overview

Carbon neutral economy, mandating at least an 85% reduction in emissions below 1990 levels

40% reduction in emissions by 2030

100% zero-carbon electricity by 2040

70% renewable electricity by 2030

9,000 MW of offshore wind by 2035

6,000 MW of distributed solar by 2025

3,000 MW of energy storage by 2030

185 TBtu on-site energy savings by 2025

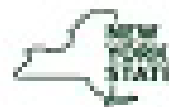
Commitments to climate justice and just transition

Source: NYS Climate Action Council Meeting One, March 3, 2020



Main Sources Of Greenhouse Gases in NYS

New York must reduce GHG emissions 85% by 2050

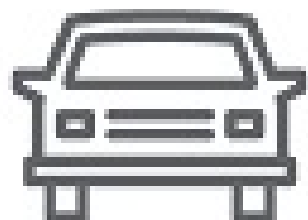


Department of
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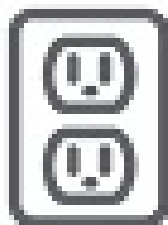
BUILDINGS

32%



TRANSPORTATION

28%



ELECTRICITY

13%



WASTE

12%



INDUSTRY

9%



AGRICULTURE

6%



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dec.ny.gov



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INFRASTRUCTURE BILL



Roads and
Bridges
\$110B



Electric Grid
Upgrade
\$73B



Passenger
and Freight
Rail
\$66B



Broadband
\$65B



Improved
Water
Quality
\$55B



Climate
Change
Protection
\$50B



Airports
& Ports
\$42B



Public
Transit
\$39B



Environmental
Clean-Up
\$21B



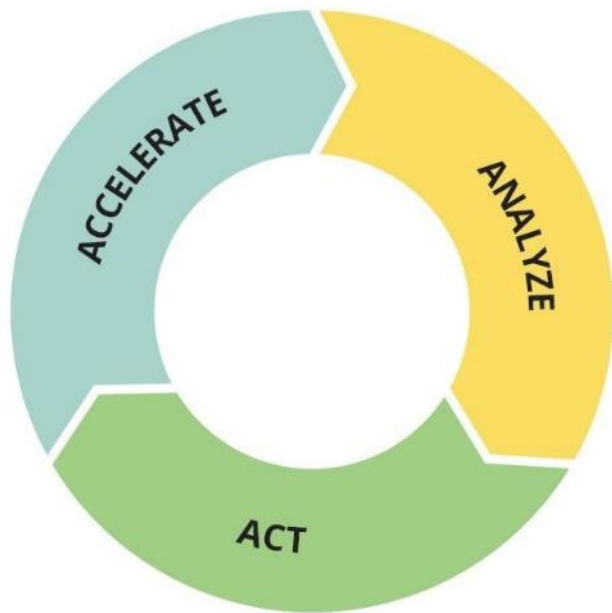
Electric
Vehicles
\$15B



Transportation
Safety
\$11B

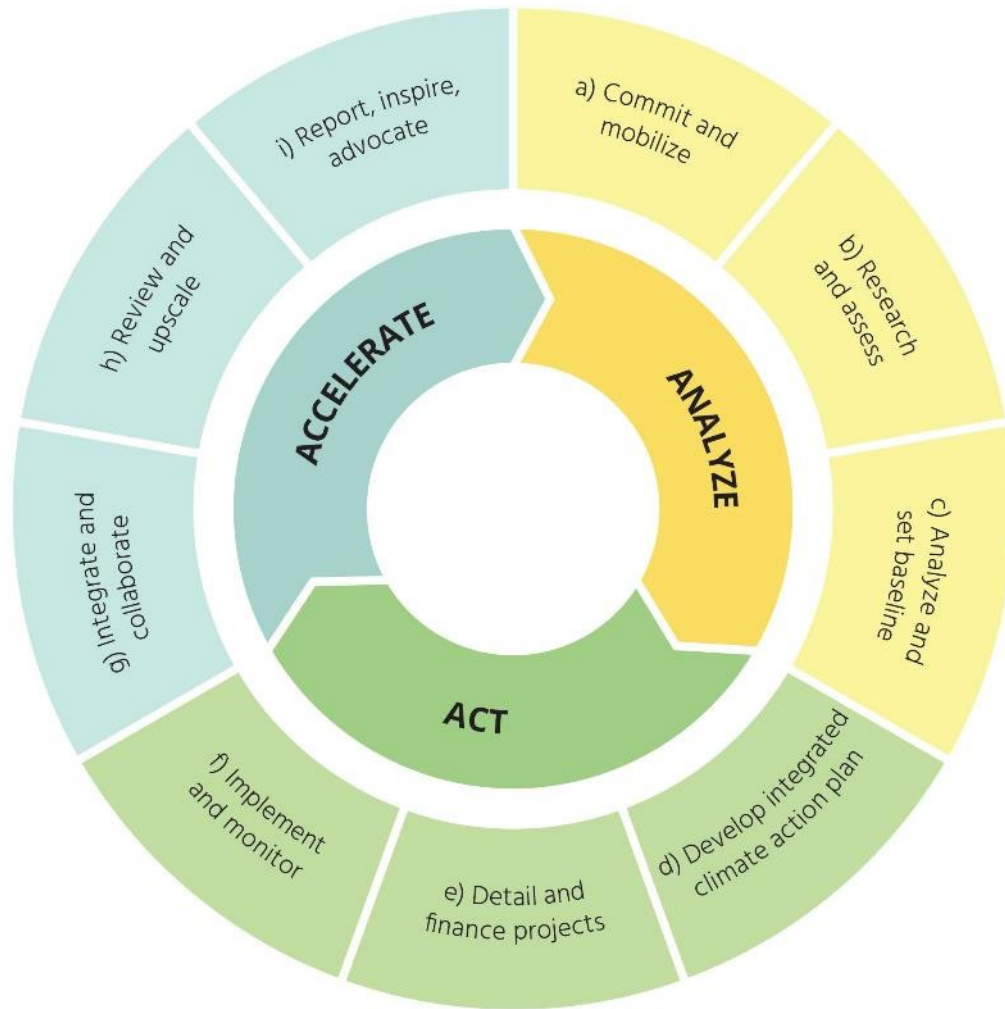


Reconnecting
Communities
\$1B

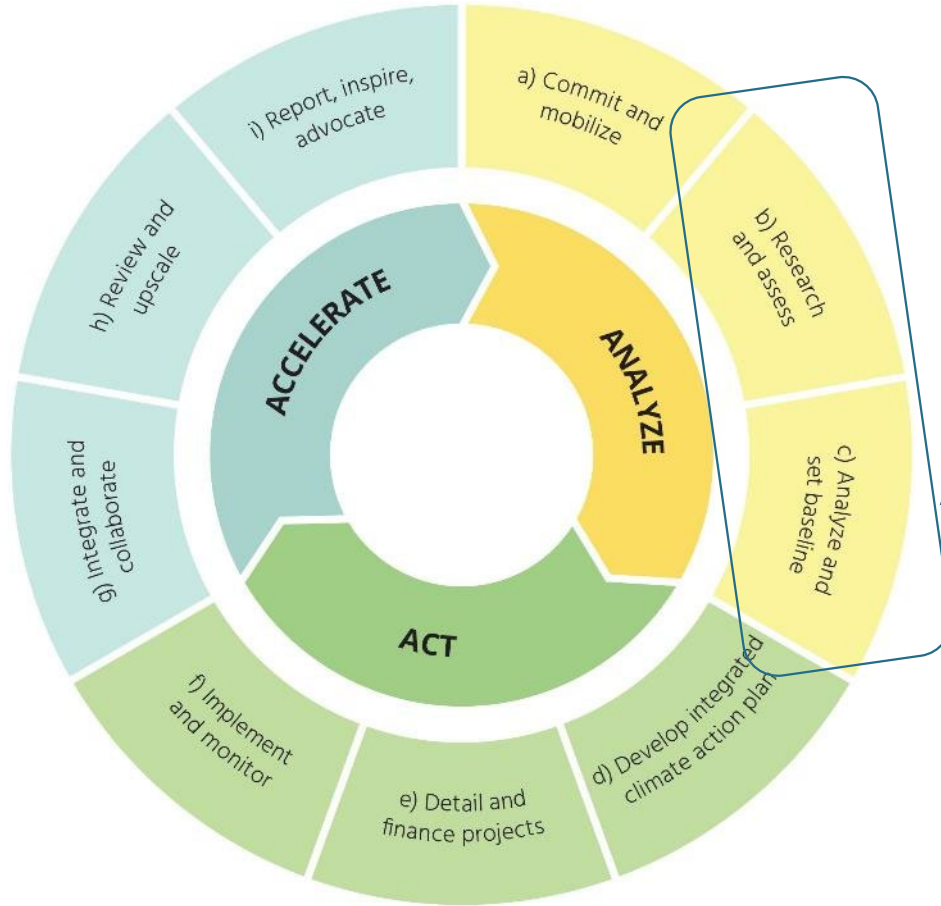




CAPI OVERVIEW



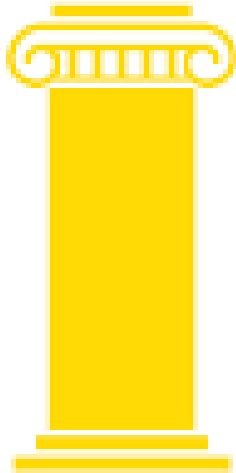
CAPI OVERVIEW



CAPI months 1-5: Assess a baseline for the “three pillars” of adaptation, mitigation, and equity is among the first steps.

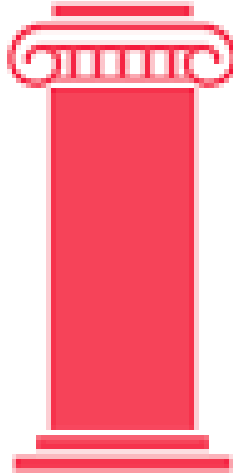
Assessing the “3 pillars” of climate action planning

GHG
Inventory



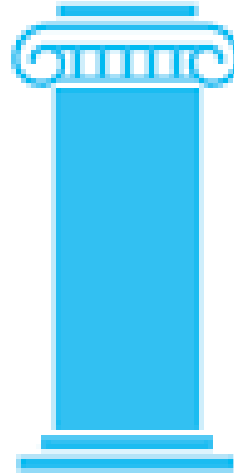
Mitigation

Vulnerability
Assessment



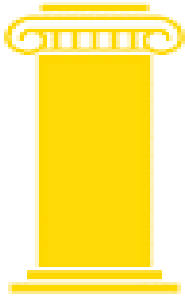
Adaptation

Spectrum of
Community
Empowerment

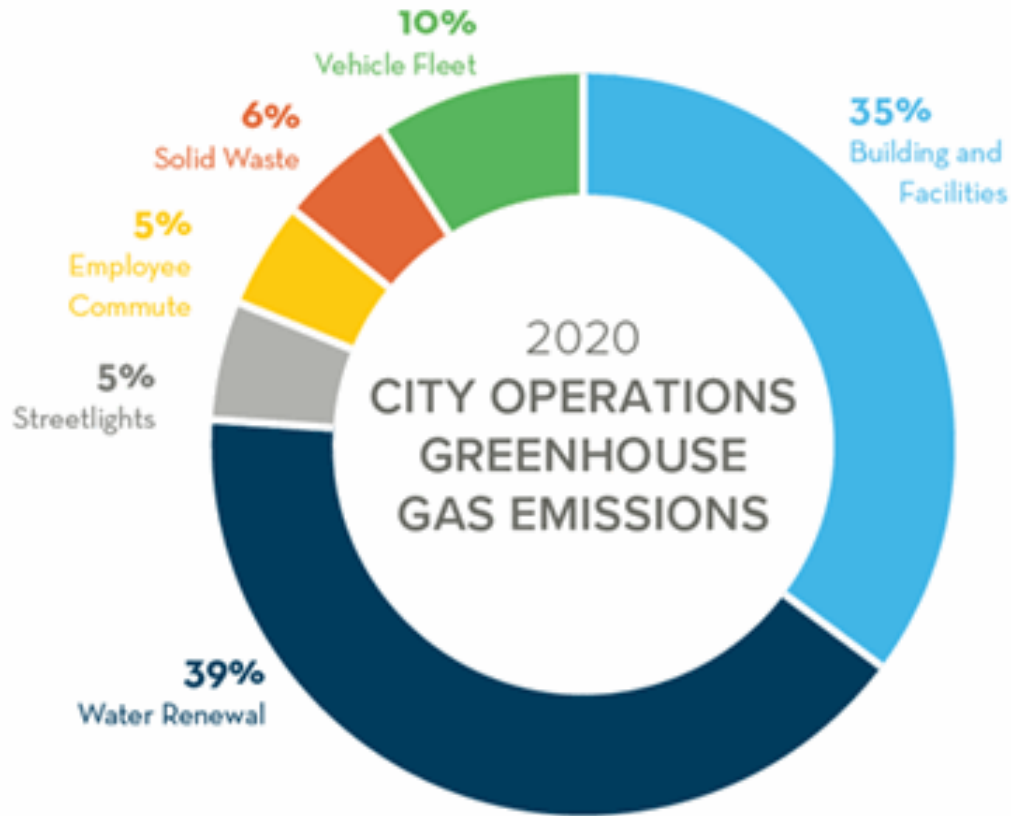


Equity

GHG Inventory

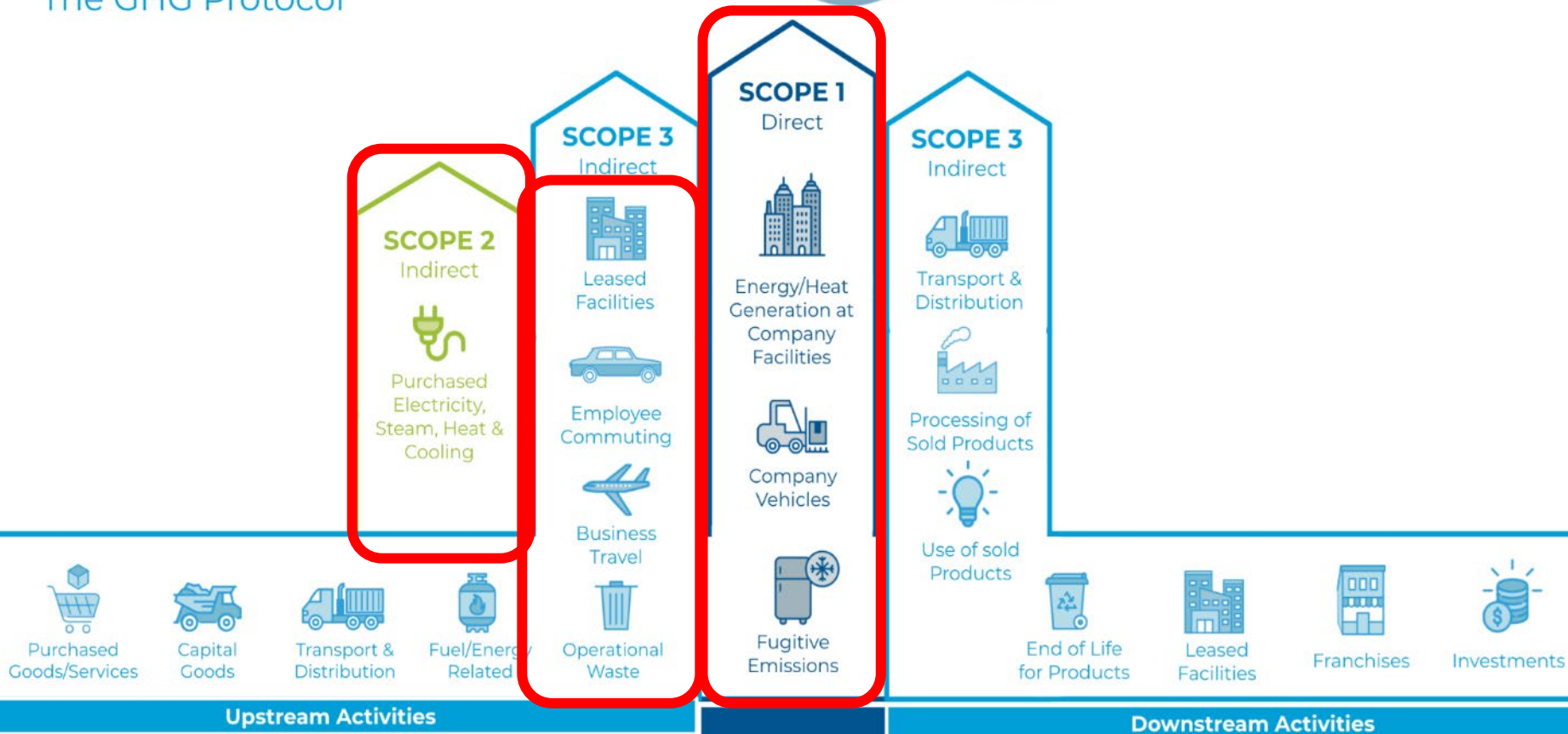


Mitigation

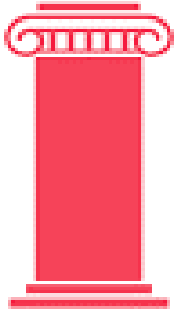


Methodology

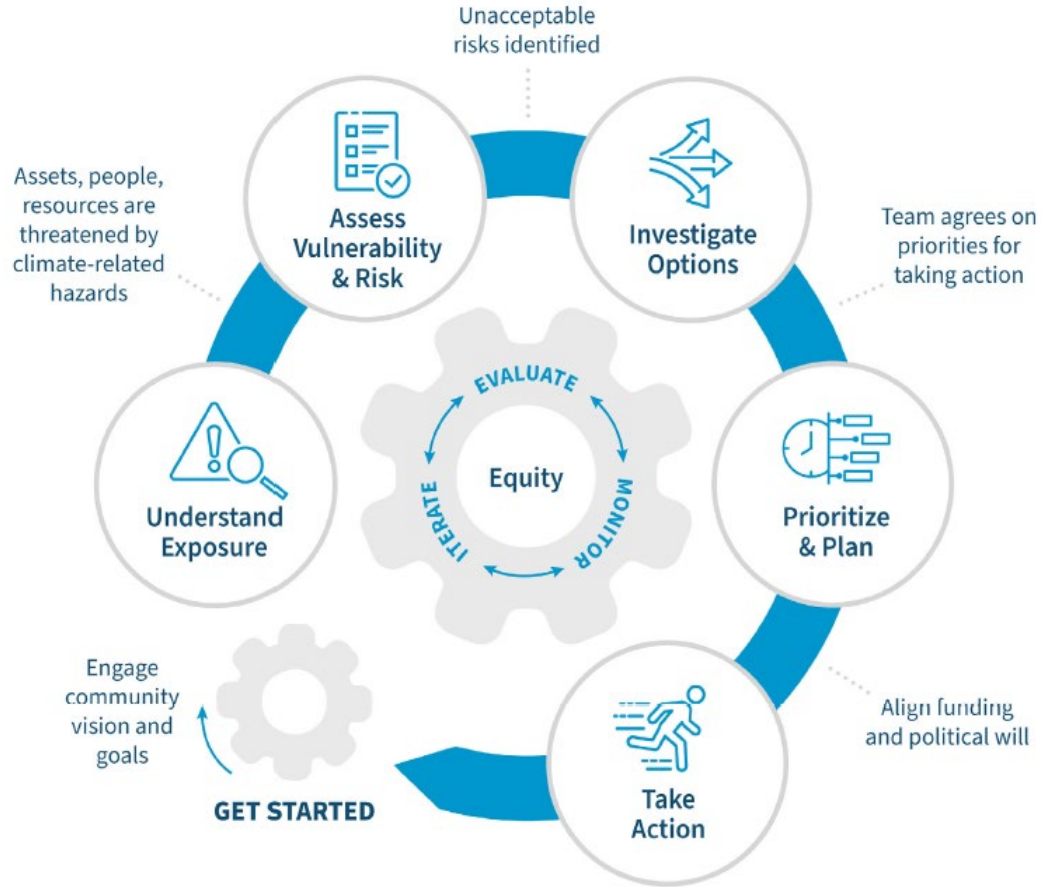
The GHG Protocol



Vulnerability Assessment



Adaptation



Climate Vulnerability Assessment

Hastings-on-Hudson

2020 Climate Vulnerability Assessment
and Future Predictions



Produced by the
Hastings-on-Hudson Climate Smart Communities Task Force
Vulnerability Assessment Committee

Village of Hastings-on-Hudson
7 Maple Avenue, Hastings-on-Hudson, NY 10706



https://www.hastingsgov.org/sites/g/files/vyhlf7561f/uploads/climate_vulnerability_assessment_report.pdf



3 Dimensions of Social Equity



ACCESS

Local governments seek to ensure more equal access to public services and infrastructures for all local residents – independent of factors like age, neighborhood, income, social group or language.



PARTICIPATION

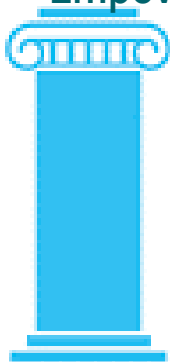
The more programs are designed with rather than for residents, including all voices across the city and involving those affected early-on, the more they meet local needs and generate long-term impacts.



OPPORTUNITY

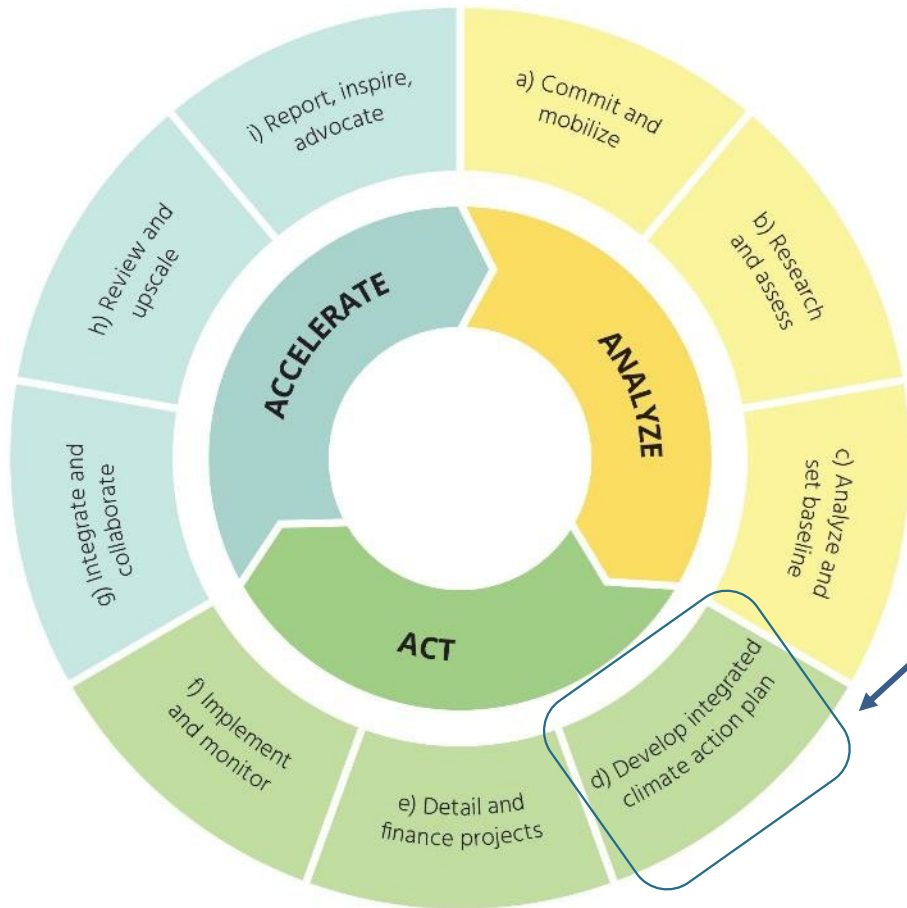
To offer fair perspectives for all, local governments are targeting 1) improved access to quality education for all, 2) provision of career perspectives and 3) increased diversity in employment.

Spectrum of Community Empowerment



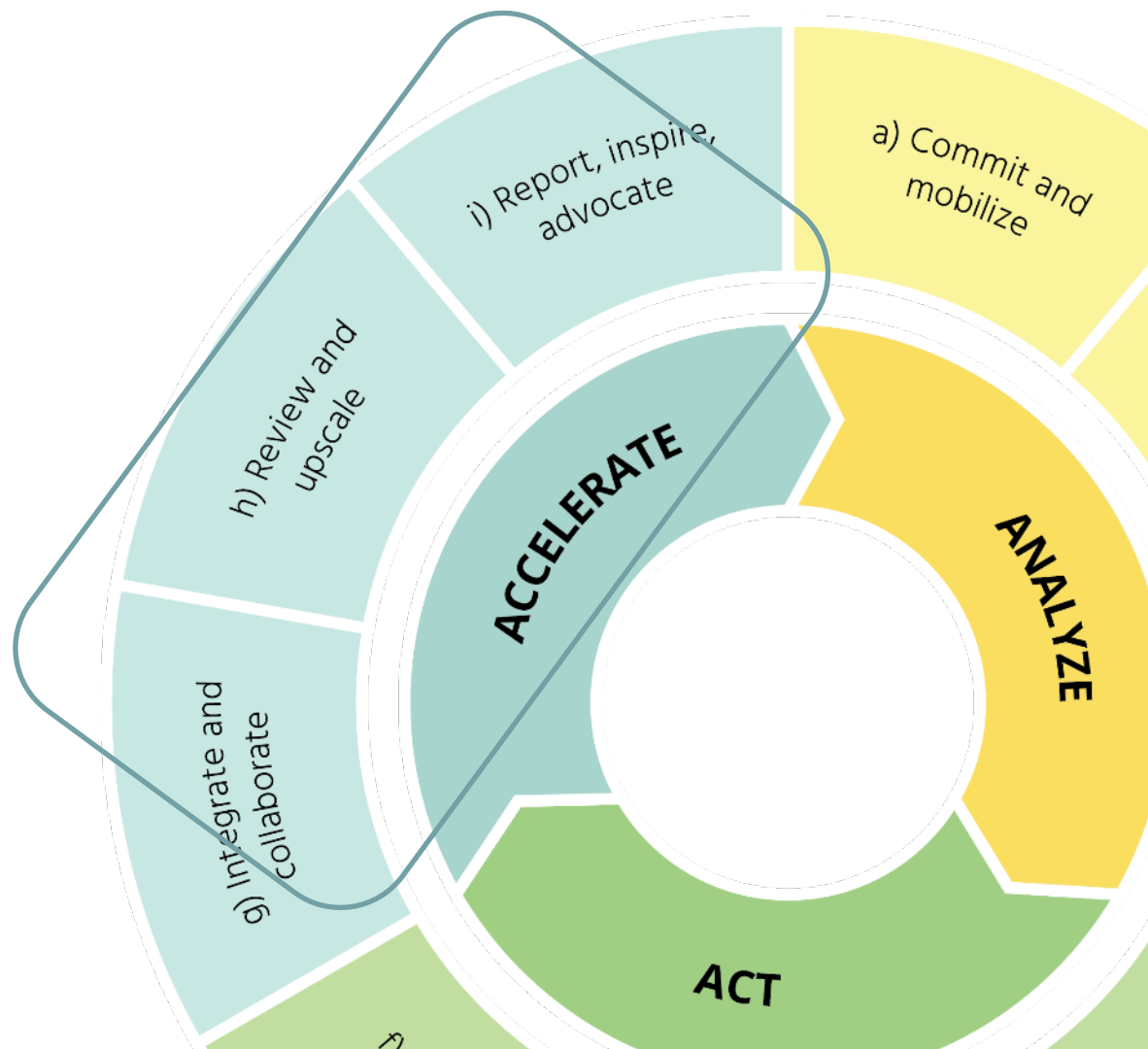
Equity

Stance towards community	0 IGNORE	1 INFORM	2 CONSULT	3 INVOLVE	4 COLLABORATE	5 EMPOWER
Impact	<i>Marginalization</i>	<i>Placation</i>	<i>Tokenization</i>	<i>Voice</i>	<i>Delegated Power</i>	<i>Community Ownership</i>
Community Engagement Goals	Deny access to decision-making processes	Provide the community with relevant information	Gather input from the community	Ensure community needs and assets are integrated into process and inform planning	Ensure community capacity to play a leadership role in implementation of decisions	Foster democratic participation and equity by placing full decision-making in the hands of the community; bridge divide between community and governance
Message to Community	<i>"Your voice, needs, and interests do not matter"</i>	<i>"We will keep you informed"</i>	<i>"We care what you think"</i>	<i>"You are making us think (and therefore act) differently about the issue"</i>	<i>"Your leadership and expertise are critical to how we address the issue"</i>	<i>"It's time to unlock collective power and capacity for transformative solutions"</i>
Activities	Closed-Door Meetings Misinformation Systematic Disenfranchisement Voter Suppression	Fact Sheets Open Houses Presentations Billboards Videos	Public Comment Focus Groups Community Forums Surveys	Community Organizing & Advocacy House Meetings Interactive Workshops Polling Community Forums	MOUs with Community-Based Organizations Community Organizing Citizen Advisory Committees Open Planning Forums with Citizen Polling	Community-Driven Planning Consensus Building Participatory Action Research Participatory Budgeting Cooperatives
Resource Allocation Ratios	100% systems admin	70-90% to systems admin 10-30% to promotions and publicity	60-80% to systems admin 20-40% to consultation activities	50-60% to systems admin 40-50% to community involvement	20-50% to systems admin 50-70% to community partners	80-100% to community partners and community-driven processes that ideally generate new value and resources that can be invested in solutions



CAPI months 6-15: Focus on drafting a plan.

Accelerating action is about collaboration—this can start today!



Climate Action Plan Best Practices

- Serve as a comprehensive roadmap that outlines the **specific activities** that a municipality will undertake to reduce greenhouse gas emissions, prepare for impacts, and address equity.
- **Build on the information** gathered in greenhouse gas inventories and vulnerability assessment
- Focus on activities that can achieve the relatively **greatest emission reductions** and resilience-building in the most cost-effective manner.
- Include an **implementation strategy** that identifies required resources and funding mechanisms.



Building Energy and Efficiency

Implementation

- O** City operations
- L** City law/code
- E** City educates
- SF** City partners to lobby state and federal government
- C** City partners for collective action
- P** Partners lead



Vehicles and Fuels



Land Use and Transportation Planning



Materials Use, Purchasing and Recovery



Natural Resources



Public Health and Emergency Preparedness



Climate planning includes:

*WHO
WHAT*






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Implementation timescale

-  Short-term = 0 – 2 years
-  Mid-term = 3 – 6 years
-  Long-term = 6+ years



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Carbon impact

-  Reduces annual GHG emissions by less than 500 metric tonnes or lays the foundation for other efforts, though by itself may not reduce emissions measurably
-  Reduces total annual GHG emissions by 500 to 1,000 metric tonnes
-  Reduces total annual GHG emissions by 1,000 to 2,500 metric tonnes
-  Reduces total annual GHG emissions by 2,500 to 5,000 metric tonnes
-  Reduces total annual GHG emissions by more than 5,000 metric tonnes



Vehicles
and Fuels

Co-benefits

-  Addresses Milwaukee's superactions
-  Opportunity for social equity
-  Mitigates and adapts in one action
-  Revenue generation or cost avoidance
-  Leverages existing efforts
-  Community support



Land Use and
Transportation
Planning



Materials Use,
Purchasing and
Recovery



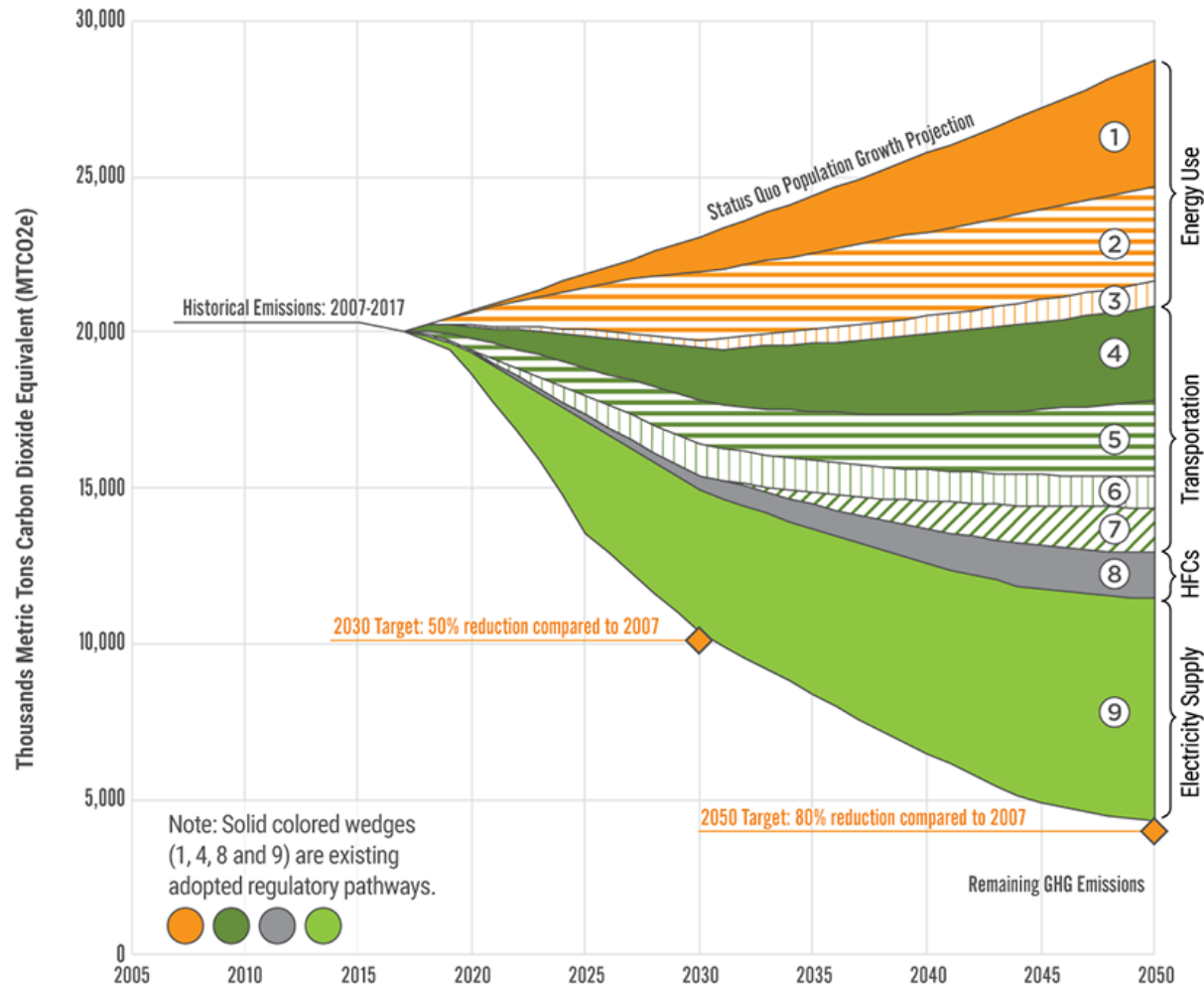
Natural
Resources



Public Health
and Emergency
Preparedness

*Climate
planning
includes:*

*WHO
WHAT
WHEN
WHY*



-  1. Strengthen Building Energy Codes
-  2. Reduce Energy Use in Buildings and Industry
-  3. Transition Fossil Fuel Use in Buildings to Electricity
-  4. Protect Federal Vehicle Efficiency Standards
-  5. Reduce Car Trips
-  6. Adopt a Clean Fuels Standard
-  7. Increase Adoption of Electric Vehicles
-  8. Phase Out Hydrofluorocarbons
-  9. Implement 100% Clean Electricity Law






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-  Reduces total annual GHG emissions by more than 5,000 metric tonnes

Cost/savings per MT CO₂e reduced

- \$** \$0 - \$40 \$ Net savings per MT CO₂e reduced
- \$\$** \$41 - \$360
- \$\$\$** \$361 - \$680 \$ Net cost per MT CO₂e reduced
- \$\$\$\$** \$681 - \$1,000

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Vehicles and Fuels



Land Use and Transportation Planning



Materials Use, Purchasing and Recovery



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Climate planning includes:

*WHO
WHAT
WHEN
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HOW*

Sample Implementation Schedule



MITIGATION STRATEGIES | Land Use and Transportation Planning (continued)

	Action	How will this be implemented?	Implementation timescale	Potential GHG reductions	Cost/savings per MTCO ₂ e reduced	Co-benefits
IN PROGRESS	Promote "neighborhood hubs" through Comprehensive Plan policies	L	Short term	20%	\$\$	3 - High 2 - Medium 1 - Low Co-benefits: Addresses Milwaukie's superactions, Opportunity for social equity, Mitigates and adapts in one action, Revenue generation of cost avoidance, Leverages existing efforts, Community support
IN PROGRESS	Implement parking pricing in downtown	L	Short term	20%	Data unavailable	3 - High 2 - Medium 1 - Low Co-benefits: Addresses Milwaukie's superactions, Opportunity for social equity, Mitigates and adapts in one action, Revenue generation of cost avoidance, Leverages existing efforts, Community support
	Implement variable system development charges to encourage accessory dwelling unit development	L	Short term	20%	\$\$\$\$	3 - High 2 - Medium 1 - Low Co-benefits: Addresses Milwaukie's superactions, Opportunity for social equity, Mitigates and adapts in one action, Revenue generation of cost avoidance, Leverages existing efforts, Community support
	Lower parking ratios near high capacity corridors	L	Short term	Data unavailable	Data unavailable	3 - High 2 - Medium 1 - Low Co-benefits: Addresses Milwaukie's superactions, Opportunity for social equity, Mitigates and adapts in one action, Revenue generation of cost avoidance, Leverages existing efforts, Community support

City operations	City law/code	City educates	City partners for collective action	Partners lead, City participates	City partners to lobby state/feds	Short term	net savings	3 high
Addresses Milwaukie's superactions	Opportunity for social equity	Mitigates and adapts in one action	Revenue generation of cost avoidance	Leverages existing efforts	Community support	Mid term	net expenditure	2 medium
						Long term		1 low

Source: [Milwaukie, Oregon, CAP](#)

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