Thursday, May 5, 2022

UrbanElephantMedia

~ PRESENTS ~

Local Climate Action from A to Z

Equitable Climate Action in Ann Arbor via A²ZERO

Featuring Missy Stults, PhD., City of Ann Arbor, Michigan

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Sustainability Training for Urban Designers and Policymakers

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- Lush Dark Emerald Green Grass that is barefoot soft
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- Plant right over existing lawn out-competes most weeds & other grass
- Needs no chemicals safer for children, dogs, elderly & the environment
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- Sequesters 10x the carbon to help lessen climate change & extreme weather
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Dr. Missy Stults Sustainability & Innovations Director City of Ann Arbor, Mich. mstults@a2gov.org

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Local Climate Action from A to Z

Equitable Climate Action in Ann Arbor via A²ZERO





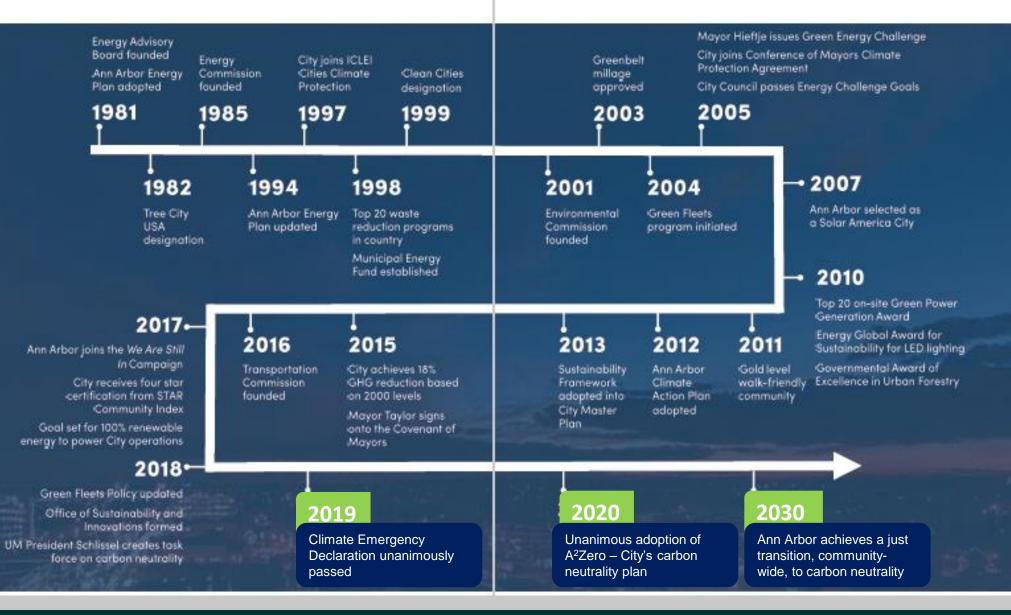


Our Journey

- Brief History of Sustainability in A2
- Creation of A²ZERO
- Quick look at Current Activities
- Engagement Techniques
- Question and Discussion



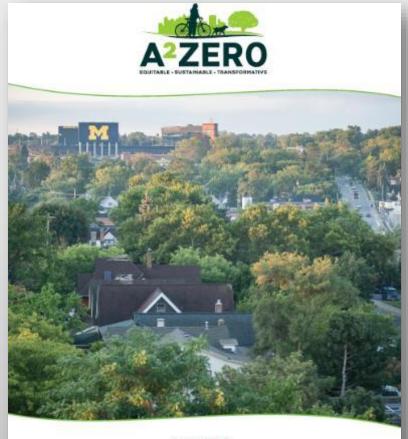
A BRIEF HISTORY OF SUSTAINABILITY ACTIVITIES IN ANN ARBOR





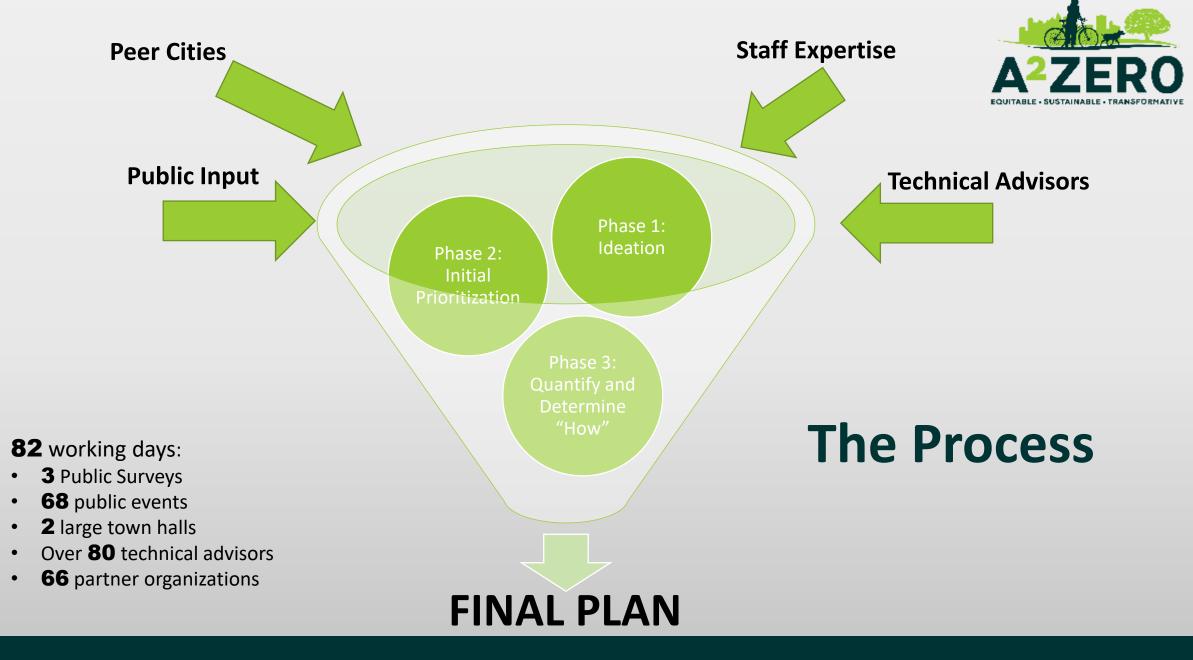


Creation of A²ZERO



ANN ARBOR'S LIVING CARBON NEUTRALITY PLAN MARCH 2020







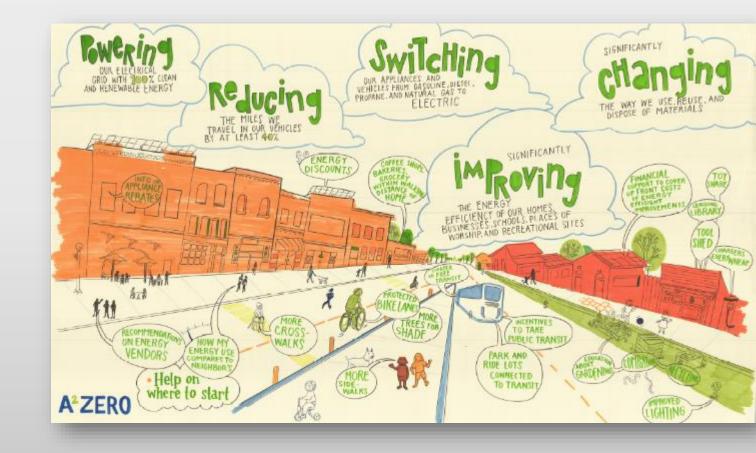
The Values





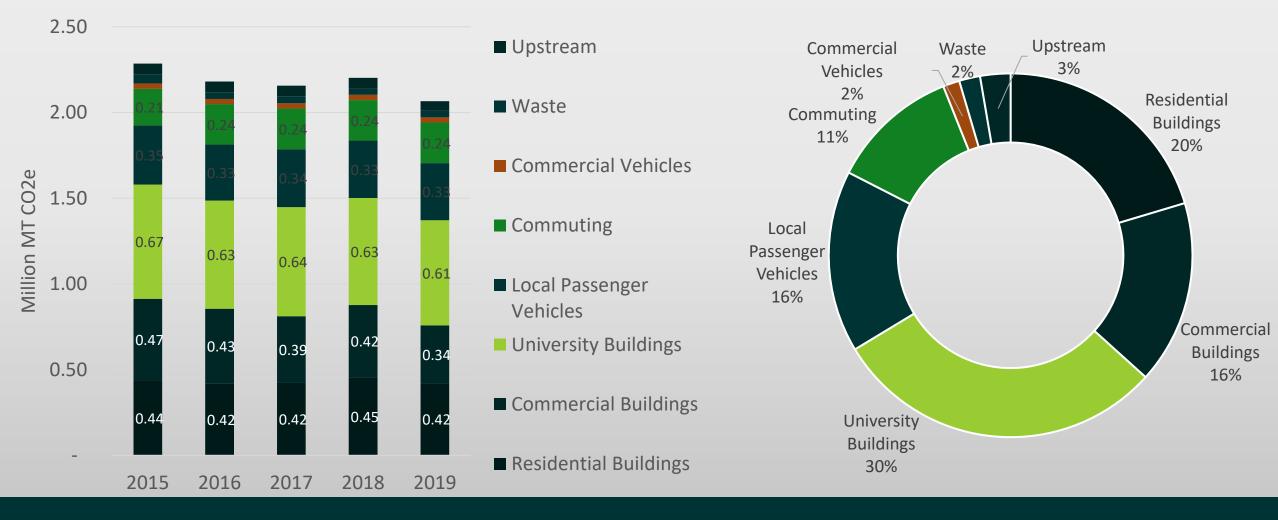
A²ZERO Vision

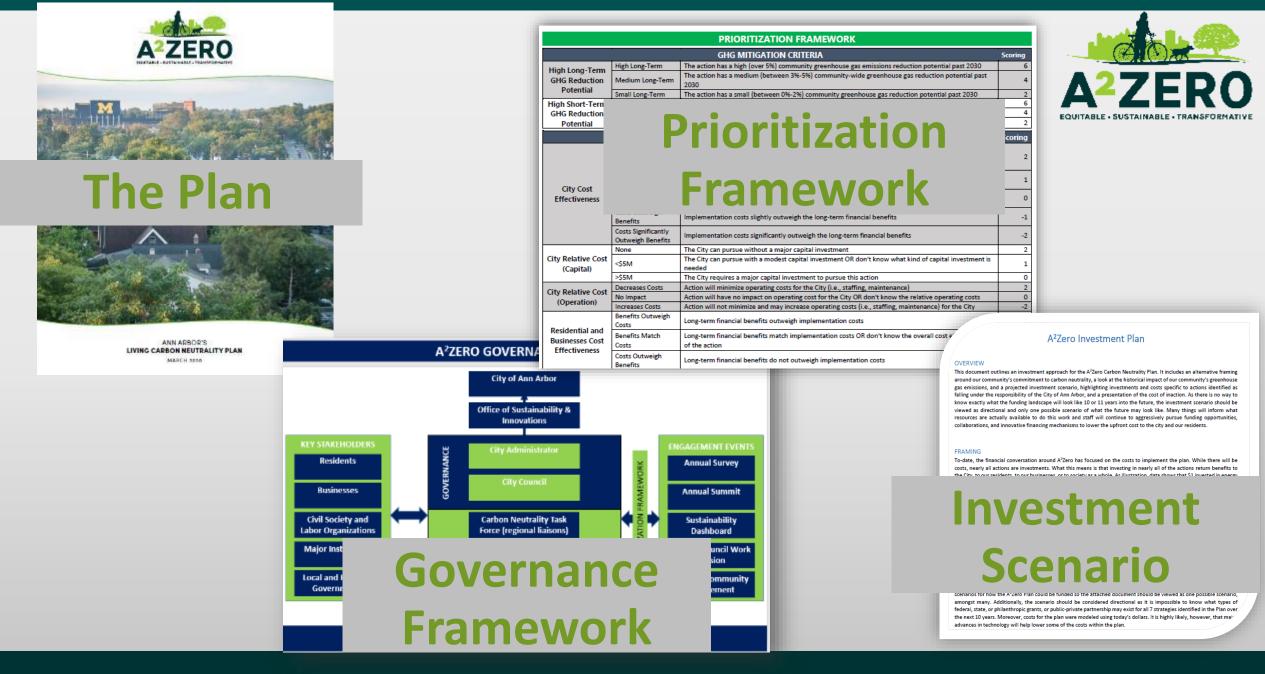
Together, creating and implementing a just transition to carbon neutrality by the year **2030.**





Emissions by Sector





A²ZERO Strategies



STRATEGY 1:

Power Our Electrical Grid with 100% Renewable Energy

STRATEGY 3:

Significantly Improve the Energy Efficiency in our Homes, Businesses, Schools, Places of Worship, Recreational Sites, and Government Facilities

STRATEGY 5:

Change the Way We Use, Reuse, and Dispose of Materials

A REAL AND A REAL

STRATEGY 2:

Switch our Appliances and Vehicles from Gasoline, Diesel, Propane, Coal, and Natural Gas to Electric

STRATEGY 4:

Reduce the Miles we Travel in our Vehicles by at least 50%

STRATEGY 6:

Enhance the Resilience of Our People and Our Place

OTHER STRATEGIES:

This strategy covers the remaining programs and activities that don't fit into other areas. It also includes greenhouse gas emissions offsets to close out any Ann Arbor Office of Sustainability and Innovations

THE ACTIONS



- 17. Net Zero Energy Affordable Housing
- 18. Green Business
- 19. Green Rental
- 20. Aging in Plac
- 21. Expansion of
- 22. Implement
- 22 Evpanda
- and Support Electrify Buses
- Support Community Electric Vehicle and Solar Bulk Buys

Community Choice Aggregation

Battery Storage (Bulk Buys)

Community Solar Program

Landfill Solar Project

On-Site Renewable Energy Generation with

Home and Business Electrification Policies

- 8. Electrify City Fleet
- 9. Electrify Private Fleet
- 10. Expansion of Electric Vehicle Charging Infrastructure
- **11.** Support Transition to More Energy Efficient Homes and Businesses
- 12. Update Building Codes
- **13. LED Powered Streetlights and Traffic Signals**
- 14. Energy Disclosure / Benchmarking
- 15. Loan Loss Reserve

- allenge ing Program
- ntly rization Program
 - tized Plan



and Existing Developments



- 32. Move Toward a Circular Economy
- 33. Support a Plant Rich Diet
- 34. Enhance Refrigerant Recycling and Reuse Program
- 35. Invest in Resilience Hubs
- 36. Foster Neighborhood and Youth Ambassadors
- 37. Preserve & Enhance Local Tree Canopy
- 38. Conduct Asset and Needs Mapping of Neighborhoods
- **39.** Assist in Assembling and Disseminating Emergency Preparedness Kits
- 40. Implement Sensors to Monitor Heat, Air Quality, Waterways, and Flooding
- 41. Equity Programs
- 42. Sustaining Ann Arbor Together Grant Program
- 43. Internal Carbon Price
- 44. Greenhouse Gas Emissions Offsets

1.

2.

3.

4.

5.

6.



A Quick Look at A²ZERO Today

Renewable Energy



- Designed over 4.5MW of solar at City facilities
- Over **3**MW of solar installed through Solarize***
- Landfill solar: 20MW of solar; PUD amendment approved; community solar commitment***
- Began exploration of a Sustainable Energy Utility***
- Intervenor in rate cases***
- Exploring vPPA and vPRA



Beneficial Electrification





- Drafted and started to implement whole-home A²ZERO assessment***
- Sticker replacement campaigns***
- Contractor training and badging program***
- Designing an all-electric campaign
- EV Readiness Ordinance***
- First Fast Chargers and tripling of L2 chargers in system
- City fleet is 20% electric...and growing
- Exploring electrification collaboration with climate vanguard communities***

Efficiency / Energy Waste Reduction





- Passed Benchmarking ordinance; city buildings reported***
- Rental Efficiency Standard initiated***
- Home Energy Reporting Disclosure Drafted***
- Working with A2 Housing Commission on net zero energy housing sites & EV charging
- Completed first **15** homes for Aging in Place Efficiently; waitlist full; fundraising now
- Pushing for adoption of updated Building and Energy Codes***
- Applied for WAP E&I grant to get ~30 low-income homes to net zero
- Collaboration with 2030 District and lots of community engagement



Mobility



- Supported development and implementation of Vision Zero and tie to zero emissions
- Supported federal applications for transit expansion locally and regionally
- Bicycle discount programs
- Establishing telecommuting project



Circular Economy



- Launched education series on plant-rich diets; moving forward more sustainable food options for City facilities
- Returnable container program (A²R³)***
- Launched zero waste challenge: Resident Race to Zero***
- Applied for grants to advance circular economy locally
- Moved to year-round composting
- Developing circular economy strategy
- Electronics takeback events
- Fix-It Clinics.



Natural Systems





- Launched **10,000** Trees Initiative; **3,000** trees planted***
- Launched community tree planting program***
- Developed soil carbon tool with UM students
- Developed tree maintenance and care app
- Undergoing Master Rain Gardener training to help residents with rain gardens
- Purchased air quality monitors***
- Pollinator habitat expansion***
- Fertilizer management***

Resilience

))





- Distributed over **200** emergency kits*** •
- Supported Emergency Relief Station •
- **3**rd cohort of A²ZERO Ambassadors*** •
- Holistically integrating climate change into MHMP update***
 - Relaunching neighborhood-based work***
 - Working on second and third • resilience hubs***

Community Engagement***





- Equitable Engagement Steering Committee
- Climate, Coffee, Conversation
- A²ZERO Sustainability Forums
- Food and Emergency Kit Distribution
- Meals on Wheels and Energy kits
- Earth Day
- Arbor Day
- A²ZERO Week
- A²ZERO Collaborators
- Neighborhood Meetings
- Summerfest Tabling
- Scavenger Hunt
- AAPS Collaboration
- Observer, CTN
- The Ann Arbor Distilling Company

New Initiatives





Net Zero Energy Fire Station

• First east of the Mississippi



First Decarbonized Neighborhood in Midwest

- Bryant community engagement
- Fundraising
- Co-design strategies
- Transformation



Engagement Techniques







Volunteer





Ann Arbor Office of Sustainability and Innovations

Co-Hosting an Event





Share Your Feedback





The City of Ann Arbor is seeking feedback on the creation of the Ann Arbor

SUSTAINABLE ENERGY UTILITY (SEU)

A utility designed to provide reliable, 100% clean, affordable, locally built, and communityowned power.



Please provide feedback and learn more at: www.a2gov.org/a2seu



Submit Comments by April 15th

GREEN RENTAL HOUSING

Brought to you by the Ann Arbor Office of Sustainability and Innovations

We want your input on a set of policy recommendations designed to improve the safety, comfort, health, and energy efficiency of rentals in Ann Arbor.

Learn more and submit comments here: www.a2gov.org/sustainability/GreenRentalHousing



Join Listserv and Stay Up To Date A²ZERO



Newsletter & Events

A22ERO Week

Newsletter & Events Home

Keep up to date with what's happening at the Office of Sustainability and Innovations!



Galen Hardy: gtiarth/i@a2gov.org

Specialists

Zath Waas Smith

zwaassmith@a2opword

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Subscribe to our quarterly newsletter berg, and see all upcoming and past events below! If you have questions about any events or would like to request adding an event, please contact either <u>scrip</u>, or <u>app</u>, OSI Community Engagement

April 2022

27 28 29 31 2 3 4 6 7 R 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 27 28 29 30 25 26 4 6 7

The OSI also everyses the Energy Commission & Environmental Commission, which are not reflected above. For more information on these, visit our <u>Sustainability-Related Boards & Commissions</u> page or the <u>City</u> <u>Colomba</u>.

Newsletter

Stay up to date with the Office of Sustainability and innovations by subscribing to our quarterly newsletter. You can also subscribe by sending an email to sustainability/ina/annous with the subject: Newsletter. Our most



Email Updates

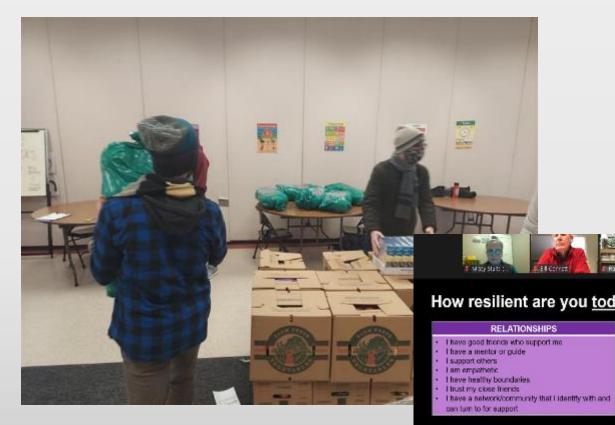
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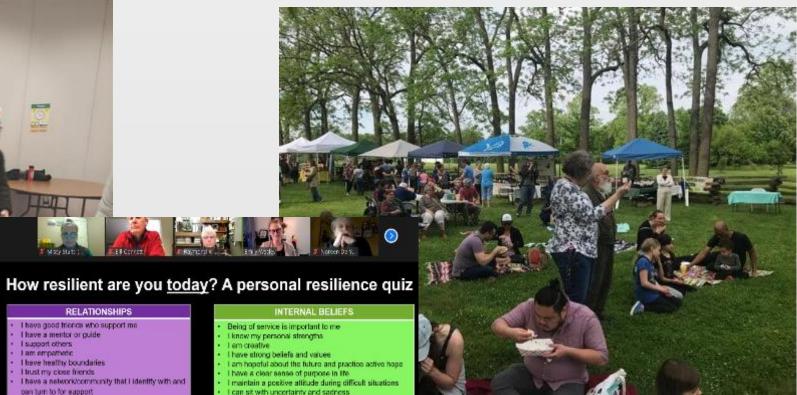
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A²ZERO Ambassadors







RELATIONSHIPS

- - I am creative
 - have strong beliefs and values
 - am hopeful about the future and practice active hope
 - I have a clear sense of purpose in life I maintain a positive attitude during difficult situations
 - I can sit with uncertainty and sadness I feel lovable

INITIATIVE

- I communicate effectively I try different ways to solve a problem
- I have regular, healthy hobbies
- I seek out new knowledge and perspectives
- I am open to new ideas I laugh often
- I am able to say "no"
- I can ask for help
- I have skills to help me relax and manage stress

SELF-CONTROL 1 express my emotions and can label my feelings

- I set limits for myself.
- Lam fiexble
- I can calm myself down

routines

I know how to turn stress into positive energy I practice self-care and have healthy outlets and

Ann Arbor Office of Sustainability and Innovations

A²ZERO Collaborator

About	A2ZERO Community	
Vision and Mission	Collaborators	
Our Team	Home > Departments > Sustainability and Innovations > About > A2ZERO Community Collaborators	
A2ZERO Community Collaborators	To fully realize the A ² ZERO plan, the Office of Sustainability and Innovations	
Sustainability-Related Boards and Commissions	collaborates with organizations and businesses all over town. Our work wouldn't be possible without the help of these important community members. If you are interested in becoming at A ² ZERO Collaborator, please	
Employment Opportunities	email us at <u>sustainability@aZgov.org</u> .	
	Residential Neighborhood Groups/Citizens at Large	
	Forest Hills Cooperative	
	Glacier Highlands Neighborhood Association	
	Ann Arbor Community Commons	
	 Old Forth Ward Historic Neighborhood Association 	
	Ann Arbor Public Power	
	Student Organizations	
	<u>UM College Democrats</u>	
	Students for Clean Energy	
	 Citizen's Climate Lobby - UM Student Chapter 	
	Ross Energy Group	
	UM Climate Action Network	
	 Environmental Consulting Organization at the University of Michigan 	
	StudentSustainability Coalition City Units	
	City Units	
	<u>City Administrator</u>	
	<u>Communications</u>	
	 Parks and Recreation. Including NAP, parks planning, Greenbelt 	
	Public Works	
	Sustainability and Innovation	
	Systems Planning	
	Transportation	1





Join a Board, Commission, and More



Sustaining Ann Arbor Together Grant







Thank You www.a2gov.org/sustainability