



Cultivating our people, place and potential



Ann Arbor's Sustainability Action Plan

Why Create a Framework?

Transportation

Washtenaw County
Natural Features Washtenaw Urban County

Water Treatment Facilities and Water Resources

Housing and Community Development

Millers Creek Watershed Improvement

, Greenhouse Gas Emissions Reduction Strategy

Climate Action Greenway Task Force Allen Creek Watershed Management

Affordable Housing Needs Assessment

Drinking Water Distribution System Capital Improvements Solid Waste

Plan

Energy Huron River and Impoundment Management

Urban and Community Forest Management

Flood Mitigation Land Use

Parks and Recreation and Open Space Non-motorized Transportation

Wastewater Treatment Facilities
Malletts Creek Restoration
Stormwater

Over 20 existing City plans Environment Economy Equity Land Use Resource Community and Access Management

Climate and

Energy

Sustainability Framework

- 16 overarching sustainability goals captured in four theme areas
- Adopted as policy guidance for the Master Plan in February 2013



Climate and Energy





Sustainable Energy



Energy Conservation



Sustainable Buildings

Community





Engaged Community



Diverse Housing



Human Services



Safe Community



Active Living



Land Use and Access





Transportation Options



Sustainable Systems



Integrated Land Use







Clean Air and Water



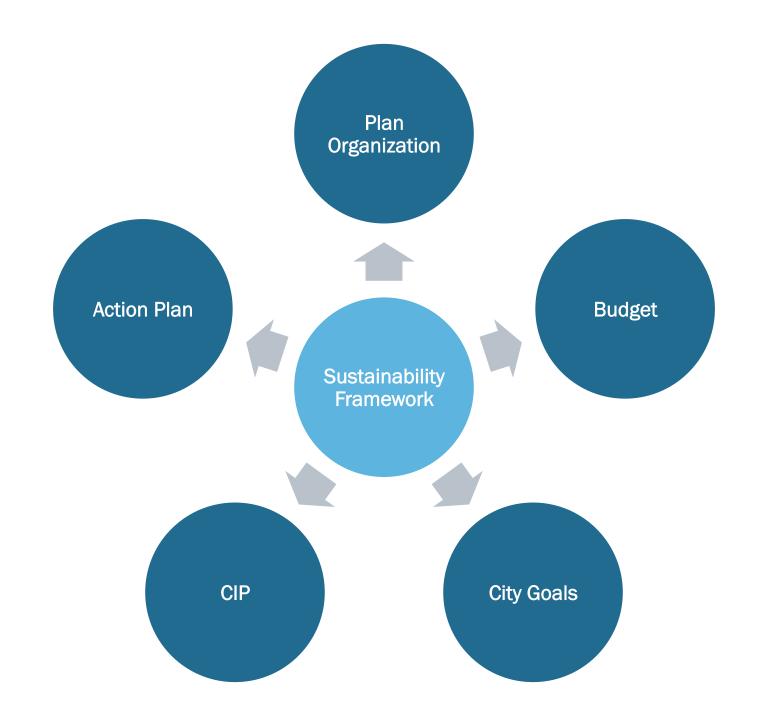
Healthy **Ecosystems**



Responsible Resource Use



Local Food



	Low 	Low ← High								
Sustainability Framework Goals	O Contributes to meeting 1 or less of the City's Sustainability Framework Goals		Modestly contributes to meeting two to three of the City's Sustainability Framework qoals		7 Significantly contributes to meeting two or thr of the City's Sustainability Framework goals (modestly contributes to meeting four of more the City's Sustainability Framework goals			OR	10 Significantly contributes to meeting 4 or more of the City's Sustainability Framework qoals	
Safety/Compliance/Emergency Preparedness	O Does not addres safety or emergency preparedness considerations	public	c safety, but is not ability ired for compliance gove servi		Will as ability govern service	ssist in to continue inmental es during encies will maximize public safety opportunities		compliar potential is neces continua governm		outes to mandatory ance OR will prevent al injury to staff OR ssary to assure tance of mental services emergencies
3 Funding	O Has no potential funding	Has unc funding s (e.g., Sp Assessn General	source(s) ecial nent,	Funding a from star City fund sources (utility rate millage, e	ndard ing (e.g., es, road	from low-interest loan source (e.g., DWRF, SRF, Energy Fund, etc.) OR partial project		e ct	receiving substantial (>80%) project funding	
4 Coordination with Other Projects	planned projects	There are no other planned projects that should be coordinated Costs can be modes reduced by performing project with another		estly ning r			10 Schedule is driven by other high-priority improvements that must be completed within the next two fiscal years			
5 Master Plan Objectives	meeting any of the City's master plate other strategic plate	O Does not contribute to meeting any of the City's master plan or other strategic planning document goals 3 Modestly of meeting or City's mast other strated document goals		one of the aster plan o ategic plan	meeting one of the City's or master plan or other strategic		of the City's or other strategic ument goals OR tributes to or more of the plan or other	10 Significantly contributes to meeting two or more of the City's master plan or other strategic planning document goals		

6	User Experience (Level of Service)	Will reduce the quality of the User Experience (Level of Service)		Will not affect Level of Service		4 Modestly improves existing Level of Service		10 Significantly improves existing Level of Service OR provides a new service which is requested by the community	
7	Innovation	O Does not include any innovative measures of items	or incorp knowr techni strate	Modestly promotes or incorporates multiple known innovative techniques, funding strategies, materials or BMP's		7 Significantly promotes or incorporates multiple known innovative techniques, funding strategies, materials or BMP's on a small scale		Significantly promotes or incorporates multiple known innovative techniques, funding strategies, materials or BMP's on a large scale	
8	Economic Development/Retention	Will not have any effer economic development/retention	mic developmen					ve significant effect on economic ment/retention	
9	Partnerships	Does not provide opportunity for partnerships		planning an	3 Promotes regional or interagency planning and coordination OR public/private partnership			10 Promotes regional or interagency planning and coordination OR public/private partnership AND provides for shared staffing resources	
10	System Influence/Capacity	O Does not contribute to larger system network or user demand		d Addresses immediate use demand that benefits a potential the user population			Addresses immediate user on of demand that benefits entire user population		
11	O&M (Operations & Maintenance)	increase in O&M ef	2 Has a neutral effect on D&M costs	contribution to O&M cost reduction opportu- operati- of tech		Makes modest contribution to O&M cost reduction AND creates opportunities to improve operational flexibility/use of technology, or extends asset life		Makes significant contribution to O&M cost reduction AND creates opportunities to maximize operational flexibility/use of technology, or extends asset life, or utilizes materials or techniques that provide lowest overall lifecycle costs	
12	Energy	increase in ef	2 Has a neutral effect on energy costs	contributio	Makes modest contribution to energy cost Makes modest contribution to energy cost		rgy cost ates prove ty/use	Makes significant contribution to energy cost reduction AND creates opportunities to maximize operational flexibility/use of renewable energy	

Increase Awareness

SUSTAINABLE



ANN ARBOR FORUMS | 2012

This series brings together University of Michigan faculty, representatives from community organizations, Ann Arbor city commissioners, city staff, and the public to discuss local sustainability concepts and efforts—past, present and

Join this community forum at the Ann Arbor District Library in downtown Ann Arbor (343 South Fifth Ave.) from 7:00 p.m. to 8:30 p.m. on the second Thursday of each month from January through April, 2012.

future.

Sponsored by the City of Ann Arbor and the Ann Arbor District Library.



JANUARY 12, 2012 RESOURCE MANAGEMENT

including natural areas, waste reduction, recycling, compost, urban forestry, water and air quality.

FEBRUARY 9, 2012 LAND USE AND ACCESS

including transportation designs, infrastructure, land uses, built environment, and public spaces.

MARCH 8, 2012 CLIMATE AND ENERGY

including an overview of Ann Arbor's climate action plan, climate impacts, renewable and alternative energy, energy efficiency and conservation.

APRIL 12, 2012 COMMUNITY

including housing, public safety, recreation, outreach, civic engagement, and stewardship of community resources.

For more information, check www.a2gov.org/sustainability and Ann Arbor's State of Our Environment Report at www.a2gov.org/soe.





Why Create an Action Plan?

- Connect Sustainability
 Framework goals to targets and actions
- Mechanism to track progress
- Increase staff accountability and collaboration
- Connect staff and city commissions
- Communicate current projects to the public



Climate and Energy



Community



Land Use and Access



Resource Management

Action Plan Organization

Goal

Target

Action

Indicator

Sustainable Energy

Improve access to and increase use of renewable energy by all members of our community



Target CE 1: Use 30% renewable energy in municipal operations by 2015 (Energy Challenge)

Actions

- Maintain and expand solar projects within municipal facilities and properties (new)
- Install solar and geothermal projects at public housing sites (Housing Commission)

Indicators

- Renewable Electricity Generation
- Number of Renewable Energy Projects

Engaged Community

Ensure our community is strongly connected through outreach, opportunities for engagement, and stewardship of community resources



Target CM 1: Increase effectiveness of communication and service delivery (Administrator's Office Budget Goal)

Actions

- Evaluate Citizen Participation Ordinance and implement resulting recommendations (new - Planning and Development)
- Identify communication tools to use within neighborhoods (new -Communications)
- Launch an improved and redesigned City website with enhanced information architecture and search by June 30, 2014 (IT Budget Goal)

Indicators

- Visits to City Websites
- Members Registered on A2 Open City Hall

Targets and Actions

Where did they come from?

- Budget goals
- Staff one-on-ones
- Existing plans and resolutions

raiget source(s)
Energy Challenge Resolution (R-11-142), Climate Action Plan,
Housing Commission, City Council Resolution (R-13-283), new
Climate Action Plan, Budget Goals, new

Solar Roofs Resolution (R-342-7-06), Downtown Zoning Incentives, Climate Action Plan, Washtenaw County Sustainable Communities Challenge Grant, new

Budget Goals, new

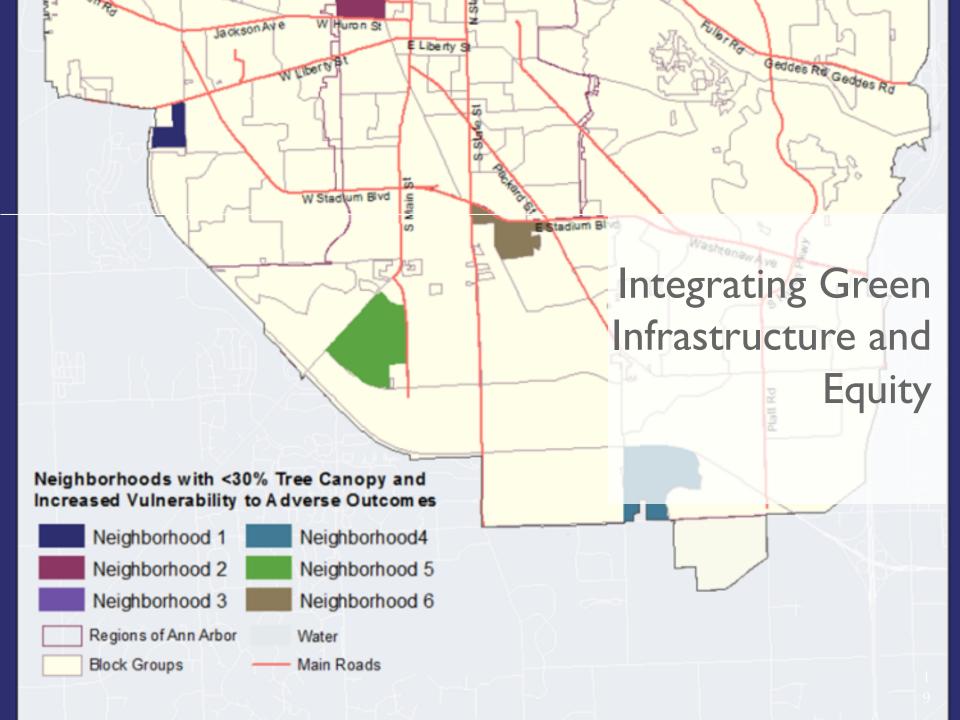
Housing Commission, Budget Goals

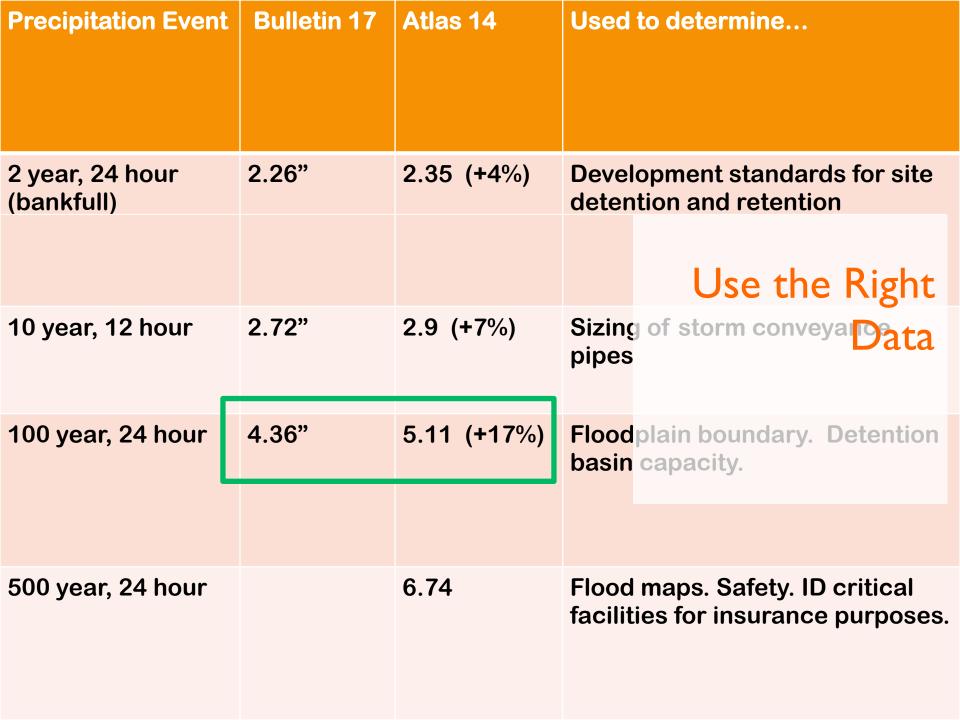
Housing Commission, Budget Goals











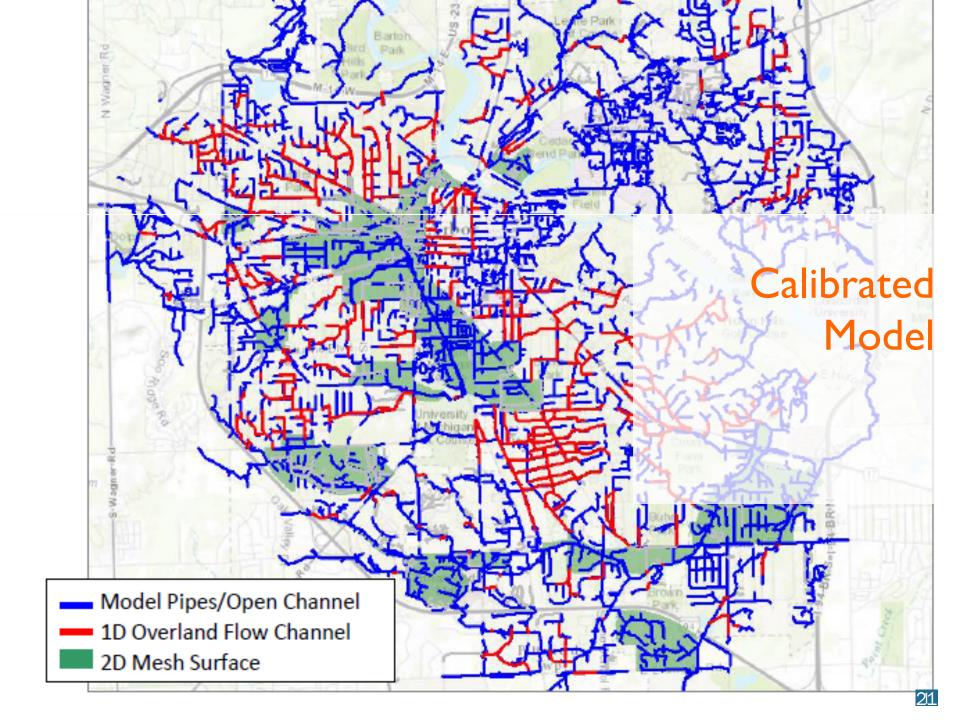
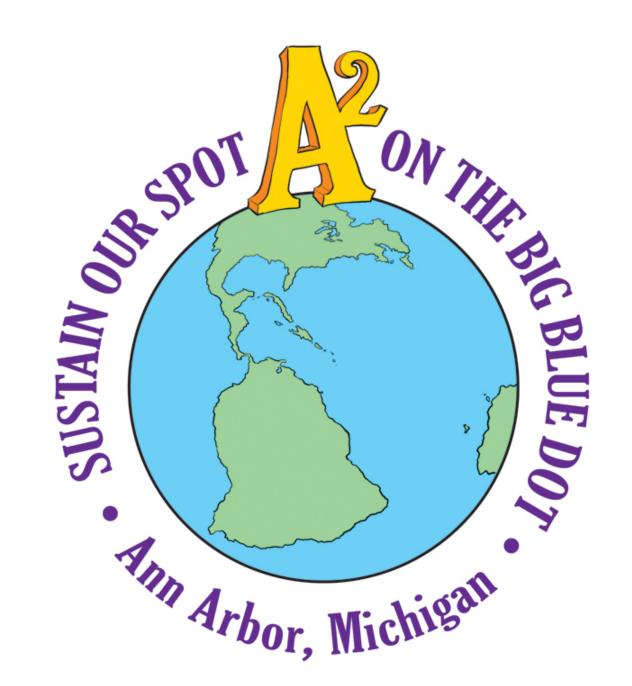


Figure 5-1 – Potential Infiltration for Green Street Application



Table 5-2 – Future Scenarios Assumptions for Stormwater Management Strategies

Future Scenario	2040	2065	2115
Green Streets	25%	50%	100%
Residential Rain Gardens	50%	100%	100%
University Redevelopment	50%	100%	100%
Downtown Storage and Infiltration	25%	50%	100%
Commercial and Multi-Family Redevelopment	45%	85%	100%



Matthew Naud mnaud@a2gov.org

www.a2gov.org/storm www.a2gov.org/sustainability www.a2energy.org/climate