GHHIN Master Class – Innovating in Urban Planning and Governance for Heat Health Part C

Community participation in heat governance

David Hondula, Arizona State University

Ryan Winkle, RAIL CDC

With thanks and credit to Melissa Guardaro, David Crummey, and the rest of the Nature's Cooling Systems project team







"I think the biggest hurdle is that mitigating heat is nobody's responsibility, yet it's everybody's concern"

SCIENTIFIC AMERICAN. How Phoenix Is Working to Beat Urban Heat



Local governments can learn to manage heat, but need to unlearn decades of institutionalized practices

















CENTRAL ARIZONA CONSERVATION ALLIANCE















Workshop II:

Workshop I: Discover our major concerns and potential actions

Invite designers and decision-makers to hear our concerns and determine feasible actions

Workshop III:

Make decisions about our priorities for implementation

Nature's Cooling Systems Methodolog Design Process



Criteria for Selection of Neighborhoods

Heat

Low vegetation coverage

Low vegetation index

High surface temperature

Usage

High use of public spaces

High transit use

History & Opportunity

High % vacant lots

Invitation from community

Slated housing, renovation, or capital improvement projects

Community

Strong sense of community identity

Potential for mutual learning (residents:stakeholders)

Previously surveyed

Health & Vulnerability

High rate heat deaths / heat-related illnesses

Low-income

High rates of self-reported heat concerns

Lack of A/C



Nature's Cooling Systems Community Engagement

CBO: Community-based Organization

Heat Action Planning Guide MESA CARE NEIGHBORHOOD

Creating Urban Heat Solutions in the Valley of the Sun





This guide was created for the Nature's Cooling Systems Project, a partnership of The Nature Conservancy, Arizona State University's Urban Climate Research Center and Urban Resilience to Extremes Sustainability Research Network, Maricopa County Department of Public Health, Central Arizona Conservation Aliance, Phoenin Revitalization Corporation, RAILMesa, Puente Movement, and Center for Whole Communities.

Heat Action Planning Guide

Developed by:

- The Nature Conservancy
- Arizona State University
- Maricopa County Department of Public Health
- RAIL Community Development Corporation
- Residents of the Mesa CARE Neighborhood

Available at: <u>repository.asu.edu/items/54600</u> <u>RAILCDC.org</u>











WHO SHOULD BE INVOLVED IN ADVOCACY AND IMPLEMENTATION?				
TYPE	EDISON-EASTLAKE	MESA CARE	LINDO-ROESLEY	
Government	City of Phoenix Housing	City of Mesa Housing & Community Development	Municipality - Village Planning Committee	
	City of Phoenix Streets	City of Mesa Transit	State	
	City of Phoenix Parks & Rec	City of Mesa Transportation	City Council	
	Phoenix transit/Valley Metro	City of Mesa Engineering	Valley Metro	
	MAG Heat Relief Network	City of Mesa Parks & Recreation		
	County Hospital	Maricopa County Health Improvement District		
	AZ Dept of Health Services	Mesa Public Schools / Charter Schools in the area		
		City of Mesa Electric / SRP / APS		
Community Organizations	Salvation Army			
	Senior Center	Community Bridges / Center of Hope	Comité de Madres (CHISPA)	
	Phoenix Revitalization Corporation	RAILMesa	Spaces of Opportunity	
	Trans Queer Pueblo	Catholic Charities Care Campus	Puente	
		A New Leaf / Mesa CAN	Unlimited Potential	

Mesa Care Neighborhood/ Water Tower Improvement District Heat Action Plan



Water Tower Improvement District - CARE Neighborhood





Why In The World Would We Participate With THESE People?





What Worked in Mesa

- Involve residents from the beginning
- Understand issues of the community itself
- Develop social capital not extractive
- Collecting neighborhood stories
- Two-way, level communication with academic and neighborhood experts
- Understanding neighborhood context where to meet, how to communicate
- Working with kids
- Food & Childcare





Understanding the Context

- Before even starting interaction, understanding the community
- Sunbelt city disconnection
 - Geography and social networks not well-linked
- Who is already organized in the neighborhood, where are natural connections and partners?
- Day of the week and time of day
- Meeting location
 - Eagles Community Center Not what we hoped





Meaningful Involvement

- Design of the program included collaborative - and iterative engagement. Collaboration to meet, and respond to, the needs of the community
- Involve community members at the earliest stage
- Be flexible





Mapping Hot & Cool Spots





Scales of Problems and Assets







Leave it Better than You Found It





Frequent, Meaningful Contact

- Usual stuff:
 - Knocking doors
 - Leaving flyers
 - Talking with people door-todoor
- Collecting stories
- Texts & phone calls
- Paying for participation
- After-school program
- Zine survey (Minneapolis)





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Image: Comparison of the symmetry of the symme

Urban Heat in the Valley - What does it mean to cope?



Asset Sharing

- Two-way, level communication with academic and neighborhood experts
- Setting norms that everyone is learning
- Not "top down" education, but bringing knowledgeable people together
- Fishbowl





Return Anything Gathered

- Any data gathered in the community is owned by the community
- Commitment to return, in meaningful way, anything collected





Resident Concerns

- 1. The need for shade, especially along routes to school or during long wait times at traffic lights
- 2. Lack of access to drinking water
- 3. Connectivity from community to broader transportation routes
- 4. Safety for children and elderly, especially for those living alone
- 5. Need for advocacy for urban heat solutions





Solution Story – one example

MORE, BETTER SHADE

- Install shade on hot walking routes, especially along Broadway to school
- Reduce wait times at traffic lights; stop in all directions, diagonal crossing
- Use vertical shading at bus stops and corners
- Community fund for tree maintenance and planting
- Plant trees in retention areas





✓ Community-based organizations are an essential part of the process



✓ Solutions were generated by bridging grassroots wisdom and evidencebased urban heat solutions.



✓ Community heat awareness and heat action building is a slow build

Dealing with "The Collective Shrug"



✓ Taking the time to build trust resulted in expanding participation and interest



 ✓ Need to be flexible as the process unfolds



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Community heat awareness and heat action building is a slow build

- Taking the time to build trust resulted in expanding participation and interest
- \checkmark Need to be flexible as the process unfolds

Lessons Learned

Disclaimer!

"Replicating this: you can't take this and hope to replicate elsewhere, readymade. The approach is something that works because it is developed organically based on the team and its context"

-Core team member in exit interview

Whole Measures for Urban Heat



Justice and Fairness CONSERVATION FOR ALL

Community Engagement







Objective 1.01: Prioritize heat solutions that provide environmental benefits for under-resourced communities

MEASURES (OF SUCCESS) or METRICS			
NEGATIVE (-3)	NEUTRAL (O)		
Projects with known possible negative impacts are given high priority despite knowledge of impacts (for example, decreased access to public transportation, job loss, loss of housing, increased flood impacts).	The potential negative impacts of projects on the community are considered, but projects the provide clear benefits are not prioritized.	at	
	MODEST (+3)	STRONG (+5)	HIGHEST IMPACT (+10)
	Projects that result in some direct quality-of-life improvements are given additional weight when prioritizing strategies.	Projects that are likely to result in clear, measurable, positive impacts on health and other components of well-being are prioritized.	 Highest priority is given to projects targetic problems in under-resourced communities. Projects are designed and implemented in response to the community's self-identified needs and priorities. Projects are successful in creating measurable improvements in health and well-being.

Questions?

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