Rob and Melani Walton Sustainability Solutions Initiatives

Benefits and complications of involving stakeholders and community in the design, implementation and communication of evaluations to create real-time program improvement and contextual change

Michael S. Dalrymple, Arizona State University, Tempe, AZ

IEPPEC 2014 Berlin, Germany September10,2014

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Global Sustainability Solutions Services

Our goal: create customized and actionable solutions to local and global challenges for businesses, governments and communities

Overview of Energize Phoenix

A \$25MM partnership program funded by the USDOE Better Buildings Program and led by the City of Phoenix to:

- Ramp-up Energy Efficiency Efforts
- Target Commercial, Residential, and Public Properties
- Create Green Jobs
- Provide Education, Outreach, Marketing
- Establish Sustained Investment
- Transform Community Behavior







Partners

City of Phoenix

 Public Works, Neighborhood Services, Community & Economic Development

Arizona State University

 Technical analysis, marketing, customer education, behavior modification (dashboard monitors)



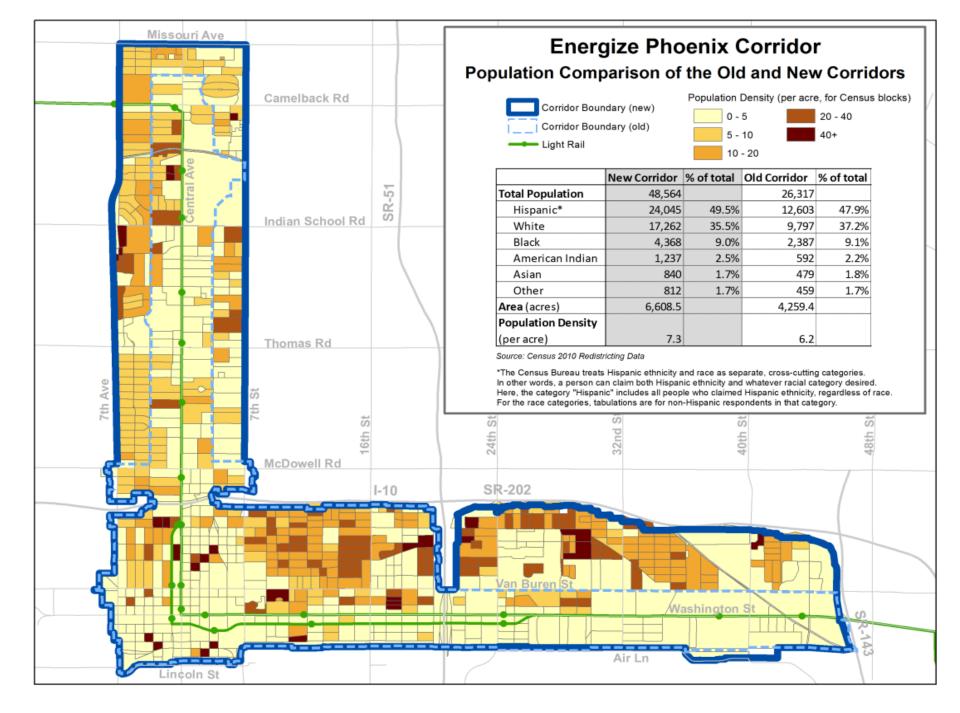
Arizona Public Service

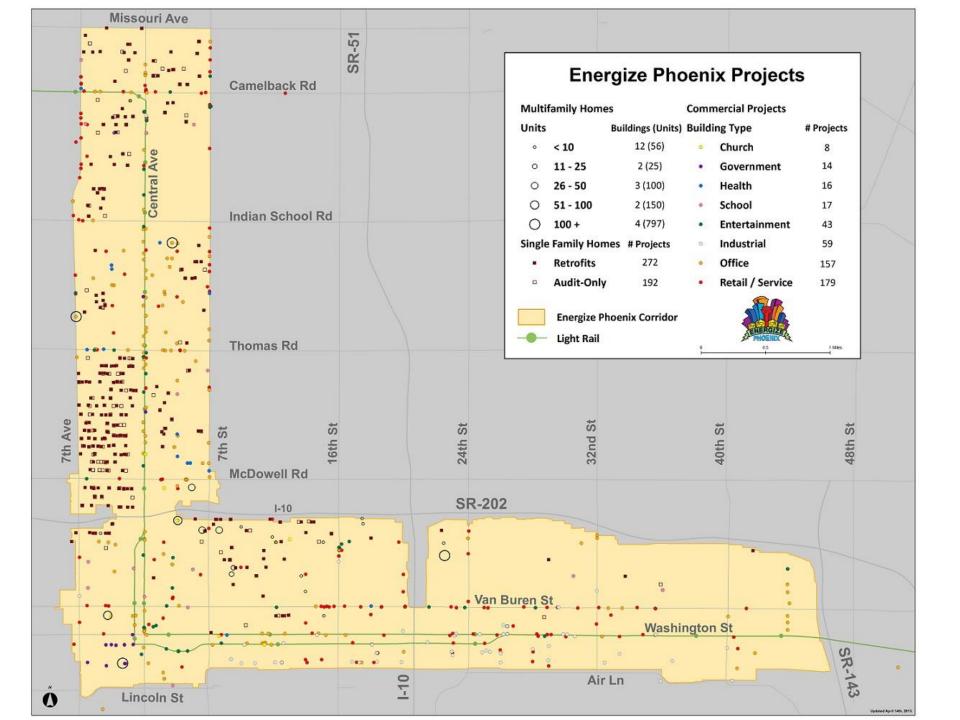
 Existing incentive program, smart meters in the corridor, robust contactor network

Goals

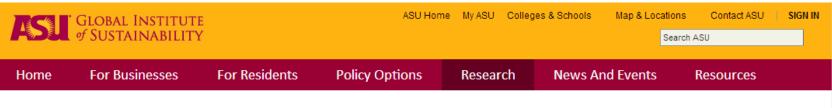
- Upgrade 30MM sqft. of commercial space
- Upgrade to 1700 residential units
- Create 2000 direct and indirect jobs
- Save \$11 million of utility costs annually
- Reduce 50,000 metrics tons of GHGs annually
- Reduce energy use
 - 18% in non-residential sector
 - 30% in residential sector
 - Over 100 million kWh







Energize.asu.edu

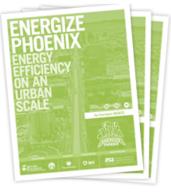


Energize Phoenix

What if the United States could develop a "new" supply of energy?

The nation's commercial and residential buildings currently consume 40% of the nation's primary energy supply, but much of that energy is lost due to inefficiency. Preventing that energy loss makes more energy available to supply other needs.

Founded through a 2010 grant from the U.S. Department of Energy, Energize Phoenix aims to eliminate up to 50,000 metric tons of carbon emissions a year, create up to 2,000 green jobs, and transform energy use along a 10-mile stretch of the Metro Light Rail system designated as the Energize Phoenix Corridor.



COMING FALL 2013



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Full Appendices

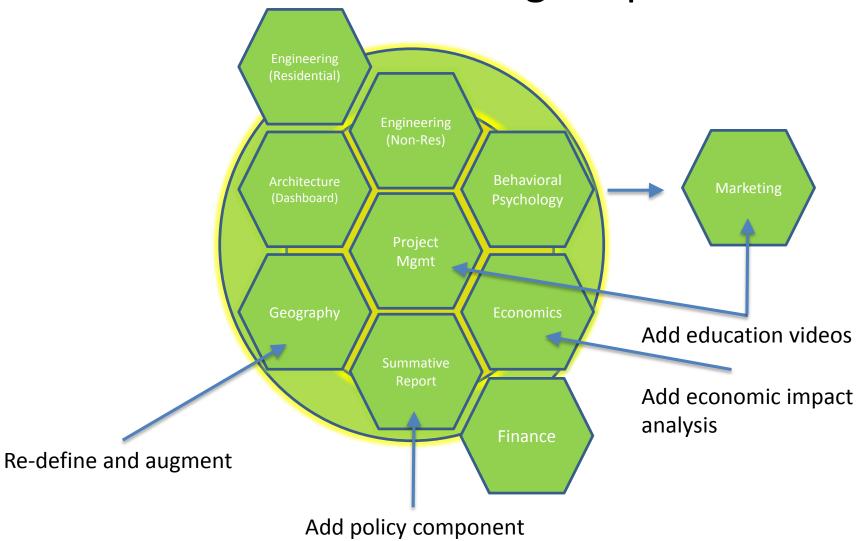
Multiple ASU Roles

- 1. Institutional partner that substantially drove the grant proposal
- 2. "Third-party" program evaluator
- 3. Contractual sub-awardee to the City of Phoenix on a U.S. federal grant.





Evolving Scope & Team



Socio-Behavioral Factors Rule

- 1. Individual behavior (social norms)
- 2. Business and contracting norms
- Inter- and intrainstitutional culture
 Dublic policy
- 4. Public policy





Operationalizing the research agenda

What: Orient to stakeholder needs

- 1. Stakeholder relevance / "buy-in"
- 2. Researcher tentativeness
- 3. Institutional partner relationships





Engaging Contractors in Evaluation Process

What: Quid pro quo

- 1. Much larger data set
- 2. Results to those who can most use it







Engaging Non-Profits

What: 25 meetings with diverse groups

Impacts:

- 1. Landmine avoidance
- 2. Program/messaging improvements
- 3. Enlist program evangelists
- 4. Culture change at City







Rogue Green



ARIZONA STATE UNIVERSITY

Leveraging Community Surveyors

What: Communicate program after surveying and track survey process

- 1. Build goodwill
- 2. Change of attire
- 3. Reduce wariness / skepticism
- 4. Spanish media intensified
- 5. Single family rental program





Dashboard Lessons

What: Field experiment with challenges



- 1. Revealed real estate status
- 2. Insight into illiteracy
- 3. Education change
- 4. Tech influence on results



Engaged Evaluation Report Process

What: Involve stakeholders extensively in report editing process

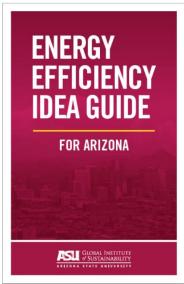
- 1. Contractor insight into results
- 2. Pave the political landscape
- 3. Tension with partners
- 4. Change to utility program
- 5. Better report





The Trade-Offs of Multiple, Engaged Roles

- Role versatility
- Timely program feedback
- Input vs. Authority
- Opacity of role
- Evaluator objectivity





Recommendations for Evaluators

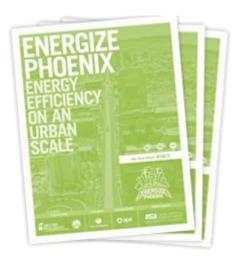
- Make roles clear
- Create independence from administrator
- Signal intent and follow through
- Involve stakeholders in evaluation design
- Involve stakeholders in evaluation review
- Understand influencers and enlist
- Add value / Be helpful
- Listen and communicate. Repeat



Thank you!

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