Green Infrastructure Implementation: Planning for a Sustainable Future

July 27, 2017
Meeting Agenda

- Introduction & Survey Distribution
- Project Overview
- Theme Discussions & Reports (20 minutes each)
  - Theme 1: Familiarity with GI Discussion & Report
  - Theme 2: Barriers to GI Implementation Discussion
  - Theme 3: Financing of GI Discussion & Report
- Final Q&A and Summary Discussion
Project Leadership

- Principal Investigator: Dr. Donald D. Carpenter, Lawrence Technological University
- Co-Investigator: Dr. Sanjiv Sinha, Environmental Consulting & Technology, Inc.
- Co-Investigator: Dr. Avik Basu, University of Michigan
- Leadership Team:
  - Michelle Selzer, MDEQ (Policy Contact)
  - Mark Breederland, MSU Extension
  - Mary Bohling, Michigan Sea Grant
  - Todd Marsee, Michigan Sea Grant
Policy Relevant Core Research Question

What are they long-term sustainable strategies that will enable Michigan’s communities to begin the widespread implementation of green infrastructure and reap triple bottom-line benefits?

BARRIERS
Another Framing

If green infrastructure is indeed “superior” to grey infrastructure, why isn’t it more widely adopted?

BARRIERS
Theme Discussion
Theme 1: Familiarity with GI

- How prevalent is GI in the communities you serve? In the communities you live?
- Are you interested in using more GI instead of traditional SW management techniques?
- What resources are at your disposal to implement GI?
- What resources might you need to implement GI?
Theme 2: Barriers to GI Implementation

- Do you feel GI is appropriate for your community?
- What are the barriers to GI implementation (finance, maintenance, design tools, community acceptance, trust, etc.)?
- What issues, if any, have you had with maintenance?
- What regulations you are aware of that help or prohibit GI implementation? In your community, what ordinances do you have that encourage or discourage GI?
Theme 3: Financing of GI

- What do you perceive as being the cost/benefit ratio of GI? Any justification for those perceptions?

- What financial resources have you (or your clients) put towards the implementation of GI in the past three years (this could be relative amount)?

- What financial resources do you see being put towards the implementation of GI in the near future?

- What mechanisms do you employ (or are you aware of) for financing GI implementation?
Impacts of Green infrastructure

- **Social Impacts:**
  - Socioeconomic/quality of life improvements
  - Community engagement
  - Recreational opportunity
  - Property value increases
  - Aesthetic improvements
  - Mental health

- **Environmental Impacts:**
  - Water quantity and quality improvements
  - Increased habitat
  - Climate change mitigation
  - Air quality improvements

- **Economic Impacts:**
  - Life-cycle cost savings
  - Energy savings
  - Job creation
  - Economic development
Conclusion