



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 the 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

◎ **Economic Impacts:**

- Life-cycle cost savings
- Energy savings
- Job creation
- Economic development

◎ **Environmental Impacts:**

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

Conclusion