Summary of Carlet, 2015 Understanding attitudes toward adoption of green infrastructure: A case study of US municipal officials April 24, 2015

Carlet, F. (2015). Understanding attitudes toward adoption of green infrastructure: A case study of US municipal officials. Environmental Science and Policy 51, 65-76

- This is a survey study of 256 local government engineers, planners, and other municipal officials
- The goal of this research was to identify attitudes that engineers, planners, and other local government staff have toward adopting GSI strategies in municipalities

Main points

- 1. For a municipality to adopt GSI BMPs, they need to think that it is useful to them to achieve its objectives and meet its performance goals.
- 2. If a municipality feels confident about possessing the skills (education and training) and resources to adopt the BMP, they are more likely to adopt it.
- 3. Perceived ease of use and compatibility with the city's goals and values influence their attitude about usefulness, but does not directly affect attitudes for adoption.
- 4. GSI is relatively new with little research to back up its performance
 - a. Cities prefer well-established engineering practices
 - b. Trust systems that have been tested and used
- 5. Stormwater management is a very conservative discipline
 - a. Resistance to change is a barrier to adopting GSI
 - b. Adopting GSI entails risk
- 6. Younger stormwater managers, planners, and city officials appear to be willing to accept the risks of GSI

Potential strategies to promote expansion of urban forestry as a GSI BMP

- 1. Promotion of high profile projects demonstrating UF as a viable strategy
 - a. Comparing stormwater runoff volume in paired-catchment studies
 - b. Comparing runoff volume between newly developed and undeveloped parcels
- 2. Develop education and outreach programs clearly articulating advantages of UF
 - a. Include co-benefits of UF along with stormwater benefits
 - b. Emphasize triple-bottom line
 - i. Environmental reduced pollution, energy conservation
 - ii. Economic increased business revenue, tax revenue
 - iii. Health increased exercise, reduced human health impacts
 - c. Identify and recruit younger professionals to champion UF as a GSI BMP
 - i. Increase their awareness and knowledge of the benefits of UF as BMP
 - d. Increase public awareness and knowledge of
 - i. Issues facing stormwater management
 - ii. Benefits of GSI to manage stormwater
 - 1. Emphasize triple-bottom line



Eric A. Kuehler Technology Transfer Specialist Urban Forestry South 320 Green St., Athens, GA 30602 706-559-4268 <u>ekuehler@fs.fed.us</u> www.urbanforestrysouth.org

