



GREEN STREETS | GREEN JOBS | GREEN TOWNS INITIATIVE

The Green Streets, Green Jobs, Green Towns Partnership (G3) aims to stimulate the green jobs market and enable families to work where they live and play. Small to mid-sized communities can boost their local economies and protect water resources through the use of watershed planning, design and construction of stormwater best management practices.



3 publications produced with 200 print copies distributed

4 workshops with 470 attendees



storm & stream
SOLUTIONS

NATIONAL MUNICIPAL STORMWATER ALLIANCE (NMSA)

Support for Promotion and Refinement of Community-Based Public-Private Partnership (CBP3) Program Approach, Recognition of MS4s Employing High-Value Green Infrastructure Programs; Support for NextGen Redevelopment Technologies and Approaches Through Works

In this project, NMSA leveraged its membership network that includes state-level MS4 organizations within the Chesapeake Bay watershed and outside of the Bay watershed and developed and supported vehicles and venues for information dissemination regarding the project focus areas as well as received input from the NMSA network on these critical issues.

The organization hosted online and in-person meetings and workshops that gathered MS4 leaders from across the country to share information the project areas noted above and received input/feedback on the challenges and opportunities to engage in implementation of project area elements. In addition, NMSA engaged in sector research to develop white papers to describe sector challenges in grant element areas as well as coordinate with other organizations to share information related to grant element areas. Specific topic areas and project activities included:

Engaged municipalities and other

regulated entities throughout the stormwater sector through the NMSA network, within and outside of the Chesapeake Bay watershed, to promote the Community-Based Public-Private Partnership (CBP3) program approach and gained insights through these engagements on barriers, key messaging factors, and technical challenges related to this emerging and non-traditional approach to delivering large-scale integrated green stormwater infrastructure. Engagement took the form of interviews, workshops, web-based engagements or similar forums. Outputs were publications that outlined event findings.

Hosted and facilitated events focused on NextGen redevelopment in ultra-urban areas. These events took the form of a design-charette that gathered a variety of stakeholders together to explore new and emerging ways to capture, infiltrate or otherwise retain stormwater runoff through biophilic or nature-based approaches as well as cutting edge technologies in the stormwater sector.

PROJECT ELEMENTS

- **Green Infrastructure Certificate and Course Delivery** – To support University of Maryland Eastern Shore, NMSA provided course delivery support with the goal to pilot two courses to gain input from students on the material developed and the delivery of the courses provided. Surveys were created for both courses, and adjustments to the material and delivery are expected to be made based upon this feedback
- **NextGen Workshops** – NMSA identified a number of leaders from across the country in NMSA membership (which includes Washington, D.C. and Virginia) to share their thought leadership on difficult stormwater issues, which included true source control, physical and economic resilience in the face of climate change, and stormwater capture and use. Workshop 1 focused on problem framing and identification while the second workshop focused on ideation and idea selection. A roster of approximately 20 stormwater practitioners, technologists, and thought leaders were identified and assembled to participate in both workshops.

MS4 SECTOR SUPPORT

To support the MS4 sector, the following 4 topics were addressed through various mediums:

- **Recognition of Green MS4 Leadership**– NMSA developed and launched the Green MS4 Ambassador program, which is working to grow a peer-to-peer support system for stormwater program managers to unleash this strengthened peer-based influence. Those candidates who are selected will allow their name, position, and their community's name to be listed along with other Green MS4 Ambassadors on the NMSA [webpage](#) dedicated to this program, which will be a resource for those who may wish to reach out and inquire on ways to overcome local challenges on growing GI implementation within their own communities.
- **National-Level Report Card for the Stormwater Sector**– Historically, the drinking water and wastewater sectors, as well as inland waterways, have been well represented in the Report Card, but the stormwater/MS4 sector has been conspicuously left out. There has been interest by the ASCE Committee on America's Infrastructure (CAI), who decides on the inclusion of new infrastructure sectors into the Report Card effort, on including stormwater, but there has been a lack of data/metadata in the sector in critical areas. NMSA worked separately as well as with other partner organizations to address the needs for information cited by the CAI that would enable ASCE to finally include stormwater into the Report Card.
- **Public Outreach, Engagement and Messaging to the MS4 Sector**– The MS4 sector is a dynamic and highly evolving field as it is relatively less mature than other infrastructure sectors. Due to the fast-paced nature of the stormwater sector, it may be difficult for MS4s to remain engaged on a variety of topics. In the context of this effort NMSA engaged in the topics of stormwater capture/use (SCU), stormwater and trash, and economic valuation of green infrastructure investments.
- **Economic Analysis: Quantifying the Business Case for Stormwater Investments** – A significant MS4 sector need is the quantification of the economic value in investing in stormwater infrastructure. One way to address this need is to perform an input-output economic analysis using IMPLAN, the industry standard software for this type of economic analysis, in order to quantify the economic benefits associated with investments in stormwater management from an input-output viewpoint. Additionally, other economic valuation approaches can also capture the value of stormwater and green infrastructure, such as cost avoidance of flood controls and hedonic impacts to increase property values. The use of these valuation efforts can provide both a consistent valuation of stormwater infrastructure investments as well as contextually based approaches that enhance the valuation efforts. To learn more, view the report findings [here](#).

Year Awarded: 2019

Award Amount: \$249,700



THE VALUE OF STORMWATER INFRASTRUCTURE INVESTMENTS: A NATIONAL SCALE INPUT- OUTPUT ECONOMIC ANALYSIS FOR GREEN INFRASTRUCTURE

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For additional information: visit epa.gov and cbtrust.org

Project Partners: Chesapeake Bay Trust,
National Municipal Stormwater Alliance,
Storm and Stream Solutions, LLCU.S.
Environmental Protection Agency