Fostering Green Infrastructure through Public-Private Partnerships

A State Perspective

September 26, 2013
What is ahead of us?

- From 2012, we need to reduce approximately 9 million pounds of nitrogen and 0.37 million pounds of phosphorus.
- We need to maintain equity and strive for more cost effective solutions in reaching our water quality and habitat goals.
- We must also plan for beyond 2025 and find solutions to maintain the cap, given increase in population and a changing landscape.
The Stormwater Challenge

Retrofit Acres
2012-2017

SWM Total Retrofit (acres)
SWM Annual Retrofit (acres)
The New Maryland Economy

Green Jobs

- Potential for 144,000 to 326,000 jobs from clean tech industries
- Up to $5.7 Billion in wages and salaries
- $973 Million boost in State and local tax revenues
- Maryland well-positioned to attract clean tech businesses
- States investing now are reaping benefits of $50B annual worldwide clean tech industry

Green Infrastructure
The New Paradigm
Small Scale Practices
New Technologies & Innovation

Permeable Pavement

Environmental Site Design
Fostering New Approaches
How Do We Make This All Work?

- Strengthening relationships with Locals.
- More Outreach, Communication, Information Sharing
- Highlighting what works, doing more of it.
- Fixing what doesn’t work.
- Better standards, faster adoption
- Fostering Innovation
- Addressing resource limitations
- Breaking Old Habits
- Marketing
Supporting Local Communities

- Financing for Green Projects
- Identifying institutional Impediments
- Weighing Financial Risk and Capacity
- Leveraged Funding Approaches: It Takes A Village to Build a Green Town
- Stormwater Utilities Fees
"IT IS THE PUBLIC POLICY OF THE STATE TO UTILIZE PUBLIC–PRIVATE PARTNERSHIPS, IF APPROPRIATE, TO:

- DEVELOP AND STRENGTHEN THE STATE’S PUBLIC INFRASTRUCTURE ASSETS
- APPORTION BETWEEN THE PUBLIC AND PRIVATE SECTORS THE RISKS INVOLVED WITH DEVELOPING AND STRENGTHENING PUBLIC INFRASTRUCTURE ASSETS
- FOSTER THE CREATION OF NEW JOBS; AND
- PROMOTE THE SOCIOECONOMIC DEVELOPMENT AND COMPETIVENESS OF MARYLAND"
Baltimore City School Greening: Impervious area reduction
Rooftop disconnection to rain garden
Public – Private Partnership

WQ treatment of **85 acres** of existing impervious

Martin Plaza Redevelopment
Baltimore County and Martin Financial Assoc.
Regulatory Framework

Phase I MS4 Permits:
  – Draft permits submitted to EPA for review
  – Phase I Tentative Determinations:
    Baltimore City, Prince George’s County, Baltimore County, Anne Arundel (in process)
  – Revised Schedule

Phase II MS4 Permits:
  – State & Federal Facilities
  – Municipal

MS4 Retrofit Guidance Revision
ACCOUNTING FOR STORMWATER WASTELOAD ALLOCATIONS AND IMPERVIOUS ACRES TREATED
GUIDANCE FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER PERMITS
JUNE (DRAFT) 2011

MARYLAND DEPARTMENT OF THE ENVIRONMENT