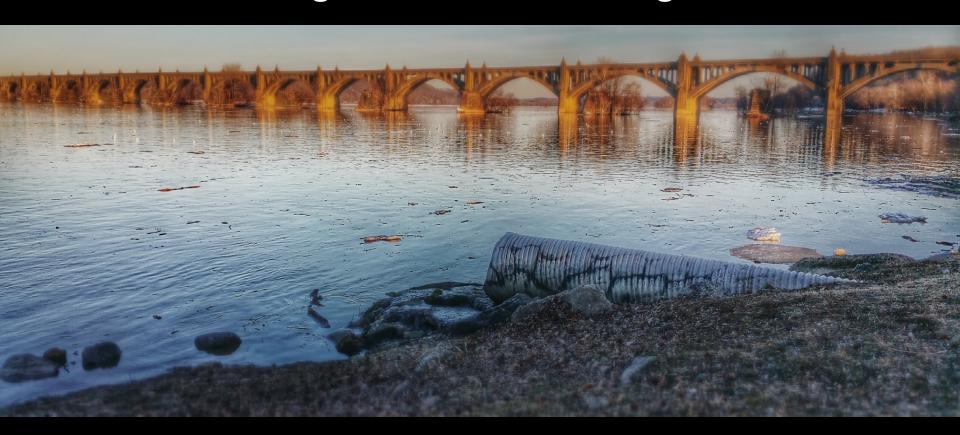
Who's going to pay for this?!?

Financing Water Resource Management







The Mid-Atlantic Region



Water Resource Financing

- Tools and resources
- Policy analysis
- Direct technical assistance

Water Resource Management Drivers

- Chesapeake Bay TMDL
- MS4 Permits
- Flooding
- Local Priorities





Our Approach

Apply a financing lens in a way that is:

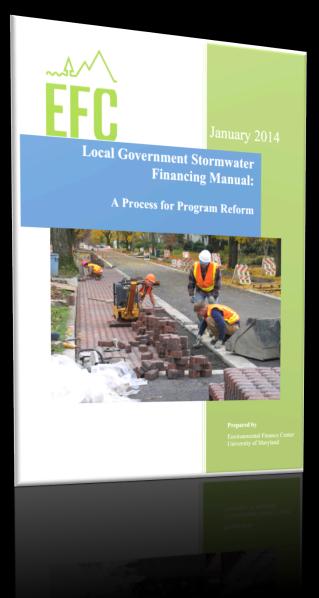
- Community-specific
- Bridges visions
- Encourages communities to think beyond grants

And looks to:

- Reduce implementation costs
- Deliver benefits that serve multiple community priorities
- Engage the private sector and spur behavior change
- Provide return on investment to local economies

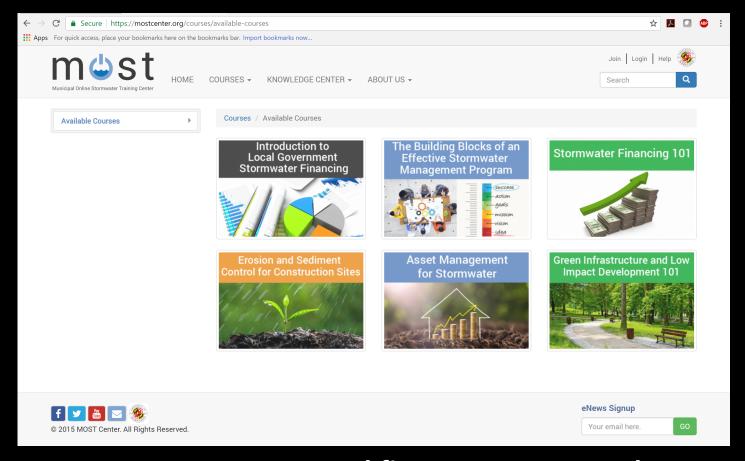


Resources: EFC's Stormwater Financing Manual



- Created as a resource and framework that mirrors our process when working with communities
- Reference guide for communities who have capacity/political will to take this up on their own
- Each community is different but there is a framework for implementation

Resources: Municipal Online Stormwater Training Center



Stormwater management and finance courses and resources Free, self-paced, online

Replicating good practices and improving water quality.

Policy Analysis: State Level Financing Strategies

Options for Financing Chesapeake Bay Restoration in Pennsylvania

Environmental Finance Center, University of Maryland

November 2016

- Tailored to each state
- Assess the capacity of existing revenue streams and financing mechanisms
- Recommend additional strategies



Direct Technical Assistance: Financing Strategy Development

Water resource management is complicated!

- Responsibilities dispersed
- Large capital costs and evolving landscape
- Long term maintenance
- Need for better data and tracking to inform decisions
- Requires staff capacity
- Need for stakeholder education and engagement



Why does financing matter?

- Provides backbone for implementation plan
- Resonates with decisionmakers
- Lends credibility with funders
- Your plan cannot become a reality with out it!



ELEMENTS OF A SUCCESSFUL FINANCING STRATEGY

Components of a Financing Strategy

Tend to interweave multiple elements

- Cost reduction strategies
- Revenue generators
- Engaging the private sector



Cost Reduction Strategies

- Planning
- Effective, enforced regulations
- Asset management
- Integrated approach
- Partnerships



Cost Reduction Strategies: City of Scranton

- Integrate all water-resource related activities
- Incorporate more green infrastructure
- Develop asset management program
- Develop partnerships





Revenue Generators

Grants, bonds, and dedicated fees



Open Space Bond: Warrington Township, Pennsylvania

Stormwater Fee: Berlin, Maryland





Bed Tax:

Chautauqua County, New York

Chautauqua County Bed Tax



- 3% for economic development in 2004
- Raised to 5% to include water resource management projects in 2008
- 2% capitalizes Lakes & Waterways grant fund
- Public agencies, private organizations, Chautauqua residents

Engaging the Private Sector

Incentivizing behavior change

- School systems
- Corporate campuses
- Private property owners
- Faith-based community
- Homeowners Associations



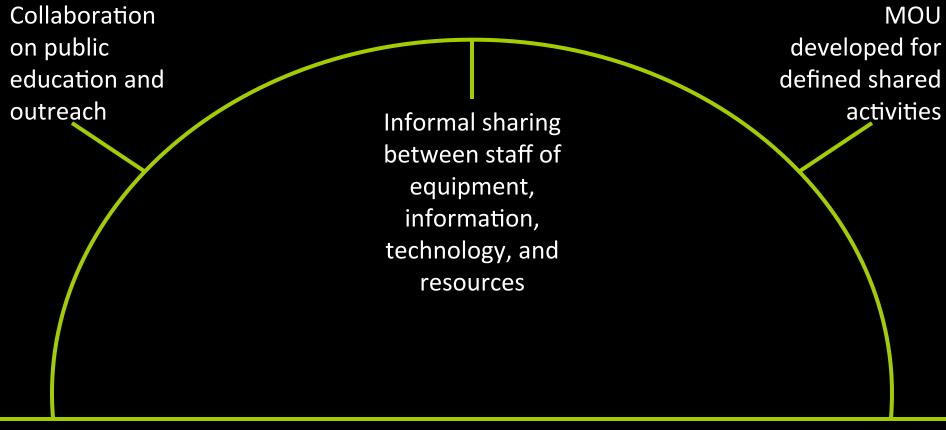
COLLABORATION FROM A FINANCING PERSPECTIVE

Benefits of Collaboration

- Create efficiencies
- Fill resource and capacity gaps
- Tap into existing resources and capacity
- Become more attractive and competitive to funders



Spectrum of Collaboration



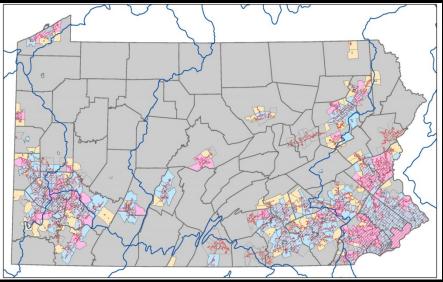
Informal collaboration through peer-to-peer sharing

Formal regional entity created/adapted to manage stormwater

COLLABORATIVE APPROACHES: BLAIR COUNTY, PENNSYLVANIA

Collaboration within the Context of Pennsylvania

- More than 1,000 regulated entities
- Opportunity varies by
 - Geographic location
 - Existing relationships
 - Political will
- Greatest opportunity for collaboration is through education, outreach, training
- Watershed-scale leads to more robust partnerships



Map of Pennsylvania's NPDES MS4 Permitting Program, Pennsylvania Department of Environmental Protection,

http://files.dep.state.pa.us/Water/BPNPSM/StormwaterManagement/MS4 2010 UA.pdf.

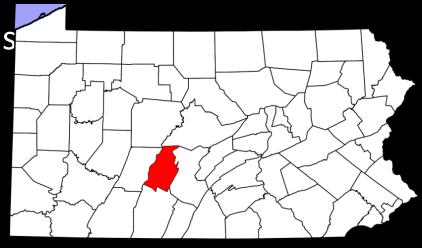
www.efc.umd.edu

Stormwater Program Finance Analysis and Development



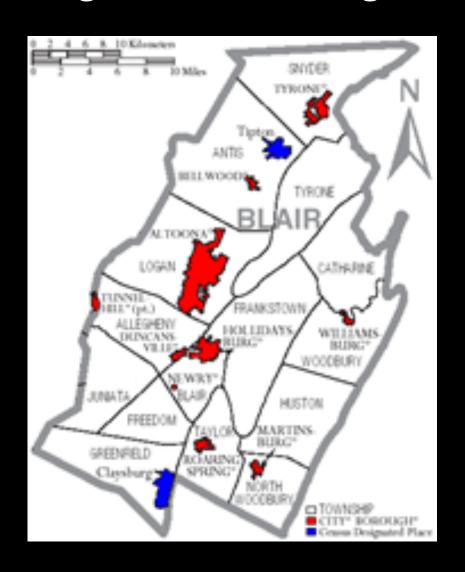
Blair County Demographics

- 24 municipalities:1 city, 15 townships, 8 boroughs
- 527 square miles
- 65% Forest/Game Lands
 20% Agricultural
 Residential





Building a collaborative green infrastructure program



- 13 MS4s
- MS4 obligations
- CBPRP obligations
- TMDL obligations
- Local WQ goals

1

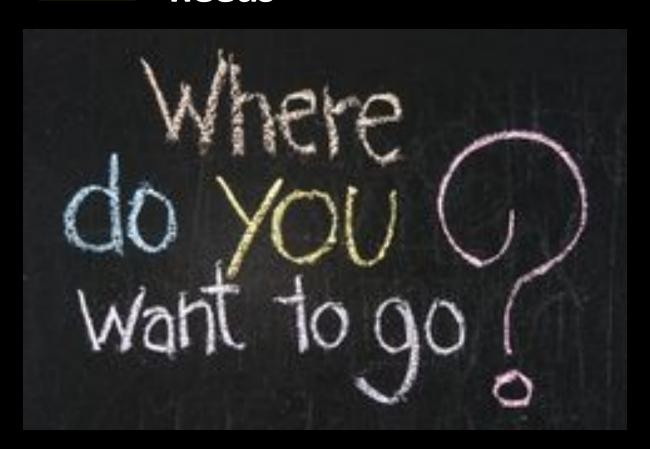
Assess current program

Bring together stakeholders, and identify:

- Community sentiment
- Political landscape
- Organizational capacity
- Regulated activities
- Local drivers
- Existing resources
- Existing relationships and partnership

2

Identify gaps and evaluate future needs





3

Identify budget needs



LABOR

Existing staff
Hire additional staff
Contractors

OPERATIONS & MAINTENANCE

Software Supplies Equipment maintenance

CAPITAL

Equipment
Project identification
Land acquisition

.umd.edu



Determine associated costs

- 90 CBPRP projects: \$2.675 million
- Estimated O&M: \$12,428 annually
- Shared MS4 Manager: \$134,431 annually

Total annual program costs: \$326,781





Develop a financing strategy to support budget needs

Identify appropriate funding sources for budget items

GENERAL FUND

- Staff
- Engineering
 - Monitoring
- Asset management
- Training and technology

GRANT

- Pilot projects
- Early support for shared staff

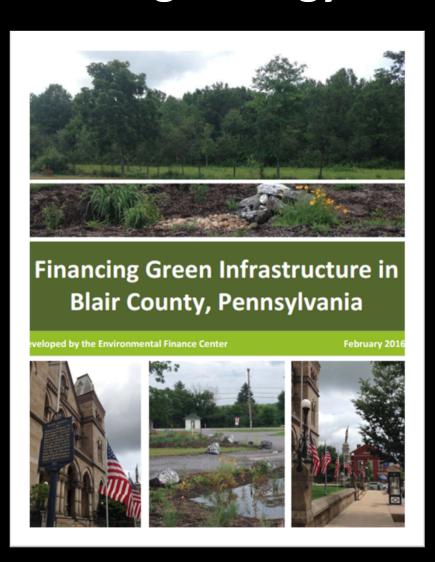
Partnership

- Education and outreach
- GIS services

Fee System

- CBPRP projects
- Long-term support for a shared SW Manager
- 0&M

Financing Strategy Recommendations



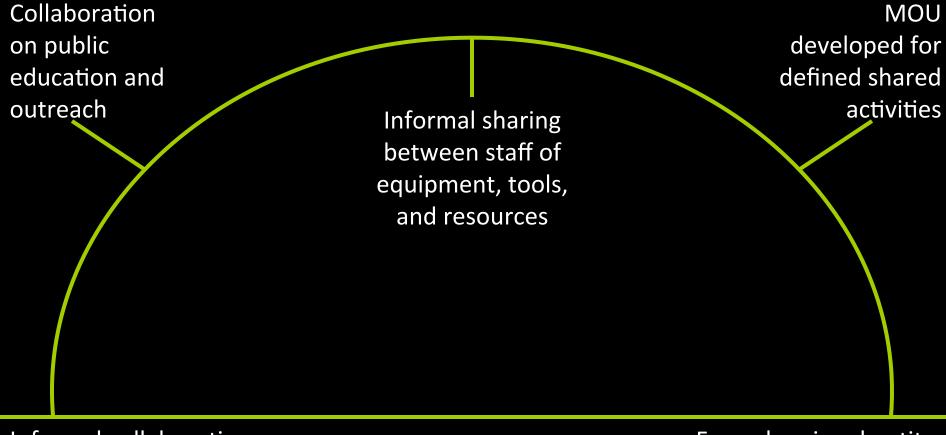
Cost saving strategies

- Collaboration
- Green infrastructure
- Grant programs

Shared revenue stream

- 20:30:50 weighted scenario
- Stream length, population, impervious surface

Spectrum of Collaborative Approaches

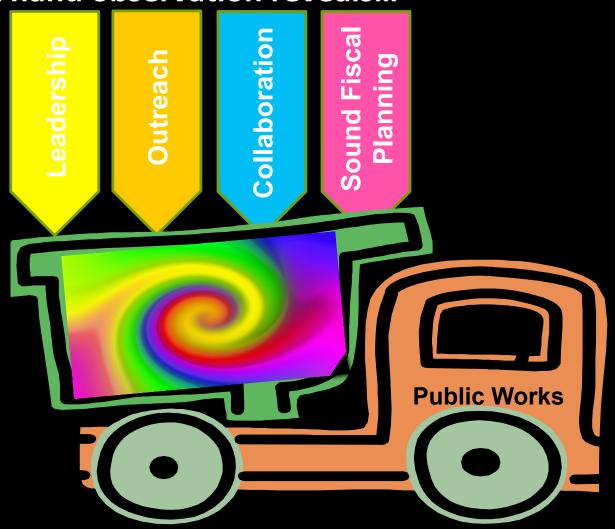


Informal collaboration through peer-to-peer sharing

Formal regional entity created/adapted to manage stormwater

Creating a solution: Thinking long term

First hand observation reveals...



QUESTIONS?

