Clean Water Partnership (CWP)

EXISTING CONDITIONS:
POLLUTED RUNOFF

EXISTING CONDITIONS:
POLLUTED RUNOFF

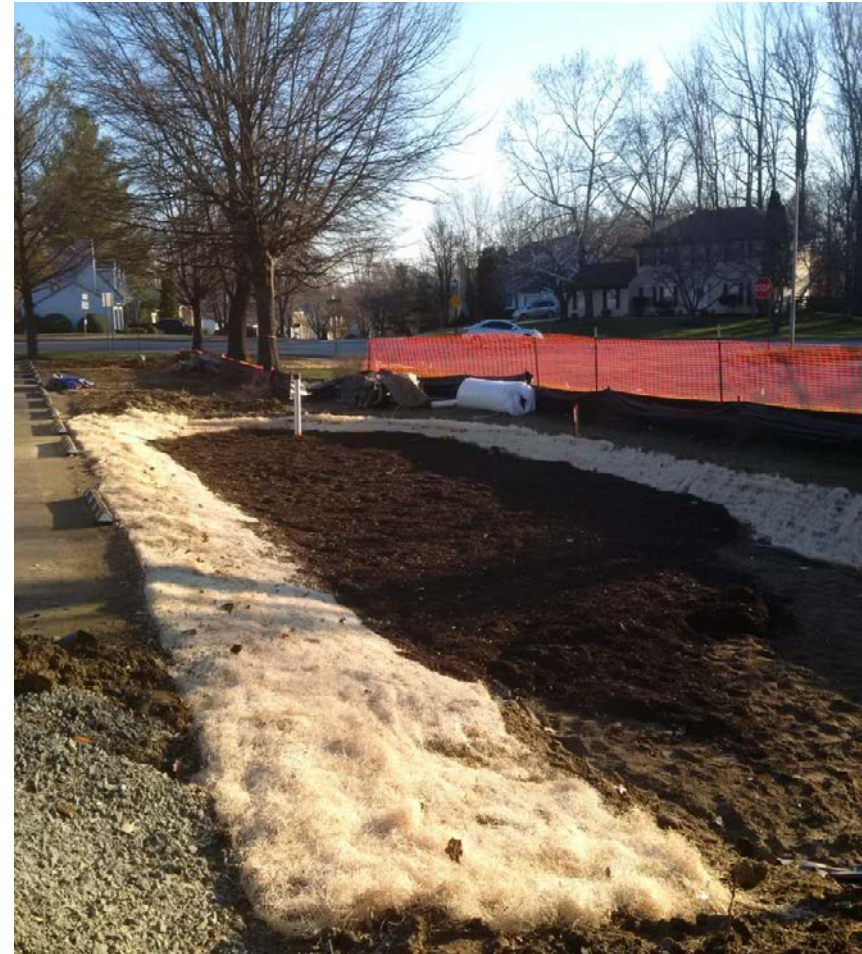# N NEW CLEAN WATER ACT MANDATES
EPA SETS AMBITIOUS GOALS

Mandate for Prince George's County

- Build filters to treat 15,000 impervious acres by 2025
  - Approximately 46,000 stormwater filtration devices
  - Will cost approximately $1.2 billion
- Pay for this with a dedicated funding source (Clean Water Act Fee)

The Prince George's Model: *Make this mandate work for us*

- Clean our waters
- Revitalize older communities
- Lead with innovation
- Grow local economy
- Partner as much as possible

ADMINISTRATIVE SERVICES DIVISION

Clean Water Partnership

Local investment, jobs, business, development, and community wealth

- Partner: Corvias Solutions
- Construction: 3 years to retrofit 2,000 acres
- Maintenance: 30 years to maintain 2,000 acres
- Manage $100 million in contracting
  - Paid up to 10% fee if performance goals are met:
    - Time, budget, procurement targets, business development
    - Ramps up to 40% County-based spending

STORMWATER MANAGEMENT DIVISION

PRINCE GEORGE'S COUNTY | CORVIAS SOLUTIONS

CLEAN WATER PARTNERSHIP
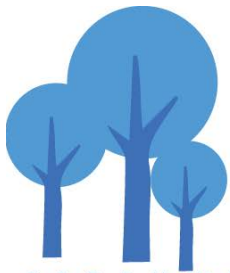
Major Economic Driver

$1.2 Billion Projected Spending by 2025

15,000 Retrofitted Acres:

46,000 stormwater devices

Job opportunities:

- Design, engineering, project management, construction, landscaping, maintenance

- Supply chain and support

- Research

STORMWATER MANAGEMENT DIVISION

Key Partnership Participants

Public Partner

– Oversight & Review of Program Activities

– Performance Assessments & Benchmarking

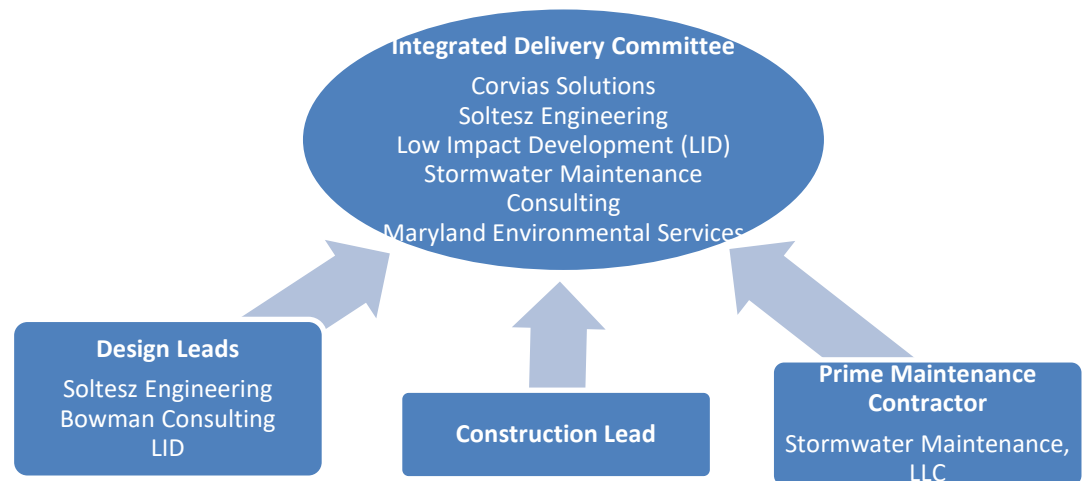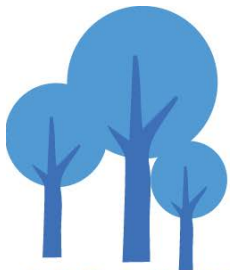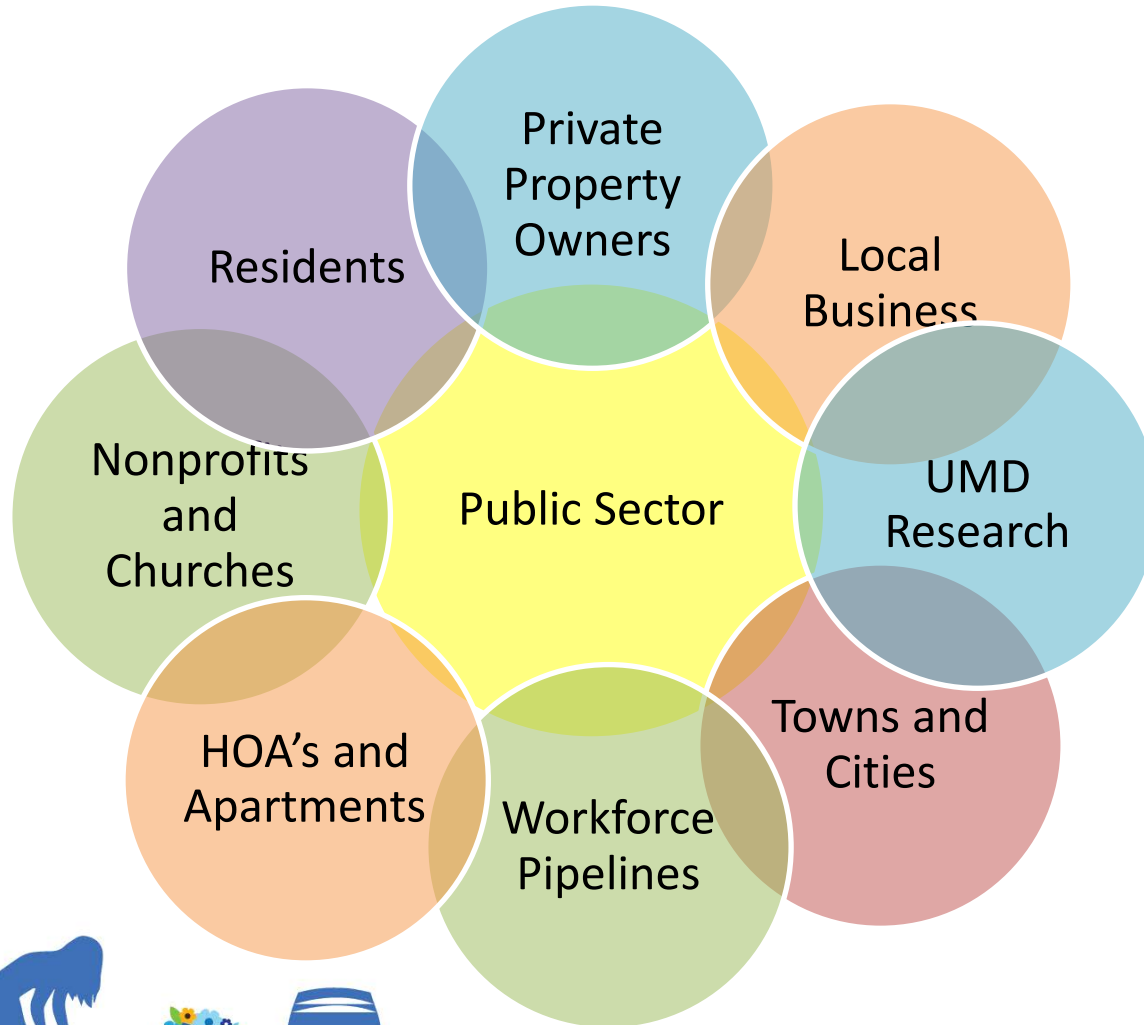– Revenue / Funding

– Project Prioritization

Private Partner

– Master Planning (1 to 3 yr. / Annual / Projects)

– Construction and Long-Term Asset Management

– Local Economic Development and Community Outreach

– Identification of Alternative Financing

– Ensuring Proper Implementation and Management of Assets

– 100% Guaranteed Budget Book Scope

3rd Party Completion Certifier

Maryland Environmental Services

Integrated Delivery Committee

Corvias Solutions
Soltesz Engineering
Low Impact Development (LID)
Stormwater Maintenance Consulting
Maryland Environmental Services

Design Leads

Soltesz Engineering
Bowman Consulting
LID

Construction Lead

Prime Maintenance Contractor

Stormwater Maintenance, LLC

We must partner

Private Property Owners

Local Business

UMD Research

Residents

Public Sector

Towns and Cities

Nonprofits and Churches

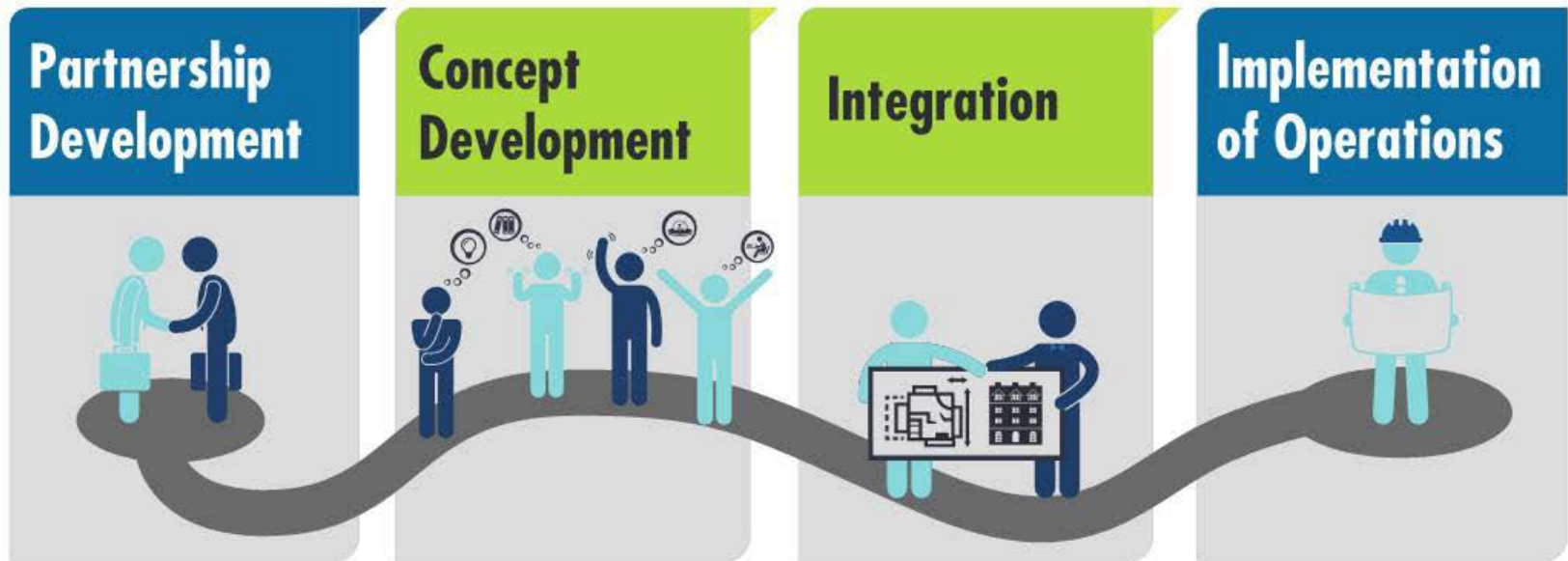Workforce Pipelines

HOA's and Apartments

STORMWATER MANAGEMENT DIVISION

P3-Aligning Your Interest and Defining Goals

- Partners invest in defining goals and aligning interests
- Partners integrate through shared goals and aligned interests

The Clean Water Partnership – Prince George's County, Maryland

Overview

- Retrofit 4,000 impervious acres

- 30 year full life-cycle partnership

- Design, Build, Operate, Finance, and Maintain whole-system solution that will deliver better, more efficient services through every phase

- Commitment to utilization of local, small, and minority-owned businesses performing 30-40% of work

- Community and social economic development through alternative compliance with faith based groups, mentor protégé program, and workforce development

Clean water Partnership (CWP)

"Advocates for P3s say they make sense for four reasons. First, the contractors are involved in the engineering stage of a project, which means they can design features that will promote savings over a project's lifetime. Second, investors have their own money in the game, so they have a major incentive to come in on budget since every overrun eats into their profits. Third, because the deals include long-term maintenance components, they remove the temptation of governments to defer upkeep when times get tough. Fourth—and perhaps most important—governments can transfer risks to the private sector, such as the possibility that construction costs are higher or toll revenue is lower than expected."

<div align="right">

Governing
[**Public-Private Partnerships Are Popular, But Are They Practical?**](#)
By Ryan Holeywell
November 2013

</div>

"Successful P3s around the world show that private investment in infrastructure, if done properly, can have positive results for governments, investors, and ordinary citizens."

<div align="right">

Politico
[**Case for private-public partnerships**](#)
By Christopher H. Lee and Sean. A. Medcalf
March 22, 2013

</div>

Launching Public Private Partnership (P3) Model for Efficiency to build our clean water infrastructure and green infrastructure economic cluster

- Provide mechanisms to effectively mange scope, schedule, and costs and develop risk mitigation strategies for the delivery of program goals and objectives.
- Efficiencies in procurement, permitting, design, construction, maintenance, and operations.
- Economic development requirements
  - Expand capacity of local businesses
  - Attract and develop new businesses
    to County

Program Execution

- CONSTRUCTION ACTIVITIES ARE SEASONAL (SPRING, SUMMER, AND FALL).
- THE FIRST FULL CONSTRUCTION SEASON COMMENCED IN SPRING 2016; SECOND SEASON IS COMMENCING NOW

ADMINISTRATIVE SERVICES DIVISION

PERFORMANCE METRICS & TRANSPARENCY

PUBLIC SCHOOLS	MUNICIPAL SITES	PONDS	PRIVATE PROPERTY	OUTFALLS
43	**1,606**	**844**	**65**	**3**
ACRES	ACRES	ACRES	ACRES	ACRES

WORKFORCE DEVELOPMENT

30%

TOTAL HOURS WORKED BY COUNTY RESIDENTS
TOTAL HOURS WORKED

8,017

Year 1	Year 2	Year 3
15%	30%	51%

COMMUNITY IMPACT

$460,000
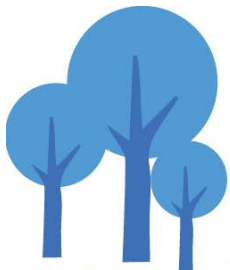INVESTMENT IN STUDENT INTERNSHIPS

MORE THAN 50 OUTREACH EVENTS
IN THE BUSINESS COMMUNITY

SMALL CHURCHES
CONNECTING WITH CONGREGATIONS AS PART OF OUR CWP PARTNERSHIP WITH FAITH-BASED AND 501(c) NON-PROFIT GROUPS

STORMWATER MANAGEMENT DIVISION

PERFORMANCE METRICS & TRANSPARENCY

TARGET CLASS PERFORMANCE			
Amount	**Target Class Category**	**Percent**	
$ 9,548,468	CBE	42%	
$ 4,492,268	CMBE	20%	
$ 2,473,294	Dual Certification CBE & MBE	11%	35 %
$ 879,435	MBE	4%	Requirement
$ 17,393,465	Target Class Total	77%	
$ 5,192,399	Non-Target Class	23%	
$ 22,585,864	TOTAL EXPENDITURES	100%	
$16,577,143	Local Expenditures	95%	50% Requirement (of Target Class)
HOURS WORKED PERFORMANCE			
Month Ended February 2017			
2,405.00	County Resident Work Hours	30%	30%
8,017.00	Total Hours Worked		Requirement

PERFORMANCE METRICS & TRANSPARENCY

CLEAN WATER PARTNERSHIP P-3 PROGRAM

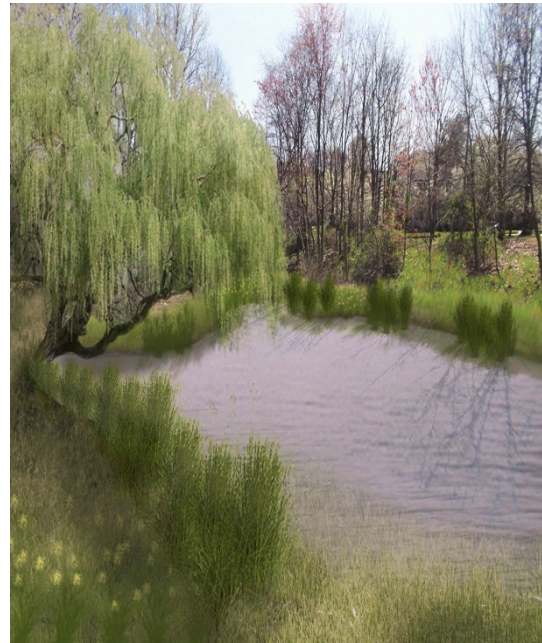| ACRE DELIVERY STATUS					ACRES BY PROGRAM				
Phase	Project Count	% of Total	Total Impervious Acres	% of Total	Sub-Program	Project Count	% of Total	Total Impervious Acres	% of Total
Planning & Concept	20	11.43%	60.63	2.39%	Schools	29	16.57%	43.18	1.70%
Design	115	65.71%	1,877.23	73.88%	Production & Production Ponds	104	59.43%	1,606.64	63.25%
Construction in Progress	13	7.43%	239.37	9.42%	Ponds	5	2.86%	843.70	33.22%
Completed	27	15.43%	363.67	14.31%	Outfalls	3	1.71%	3.00	0.12%
					Alternative Compliance/Churches	34	19.43%	43.57	1.72%
TOTALS	175	100.00%	2,540.90	100.00%	TOTALS	175	100.00%	2,540.09	100.00%

Revised: March 6, 2017

STORMWATER MANAGEMENT DIVISION

Green Belt Lake

Before

After

Greenbelt Lake:
Before and After
Install, upgrade, and maintain two forebays that treat a minimum of 10 percent of the lake volume with a drainage area of 507 acres with **337 impervious acres treated.**

Construction Start: July 2016
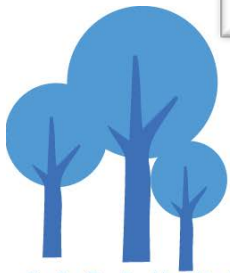**Completion: Fall 2016**

Municipal Outreach

Diligently worked with Municipalities of PGC to ensure transparency and gain buy-in for projects, during the early stages of planned projects:

- o **Seat Pleasant**
- o **Riverdale Park**
- o **District Heights**
- o **Riverdale Park**
- o **College Park**
- o **Laurel**
- o **New Carrolton**
- o **Hyattsville**
- o **University Park**
- o **Berwyn Heights**
- o **Greenbelt**

ADMINISTRATIVE SERVICES DIVISION

Key Partners: Schools

Our 200 school properties can help us meet our retrofit acreage goals while we help them meet their environmental literacy goals, turning rain gardens into outdoor classrooms.

STORMWATER MANAGEMENT DIVISION

Completed Project:
Junior achievement

- A massive bed of natives plants that process stormwater and provide habitats and food for nearby wildlife;

- Plants that includes pollinators to feed butterflies and hummingbirds; and
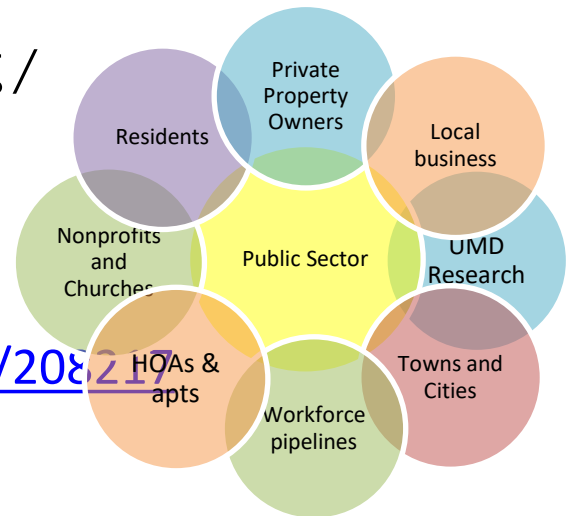
- A walkway consisting of permeable pavers

ADMINISTRATIVE SERVICES DIVISION

BMP Maintenance Program

- BMPs installed in the program will be maintained by CWP for 30 years per the CWP

STORMWATER MANAGEMENT DIVISION

Lessons Learned

(SO FAR….)

- Have "interdisciplinary" approach

- Market and communicate

- Engage broad coalition of partners

- Invest in program planning / predevelopment

- Little risk in taking risk

https://vimeo.com/prr/review/208217558/00cd18b3ff

Thank You!