So, You say you want to manage stormwater.

Now, let's chat about how to pay for it.

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WHEN YOUR PET GOES ON THE LAWN,

REMEMBER IT DOESN'T JUST

GO ON THE LAWN.



When our purh lower titles little surprours, such auditor off that per questr and loaderin into our planted balos, and their pullates our waterways. So what to ske? Emplo. Eligible of its property Epochesisty on the Enthol. There that fittle coupons gots booked this is about a

When you direct water to a ditch Remember it doesn't just stay in the ditch



When it rains, it pours.

Help us help you not to make it a flood.











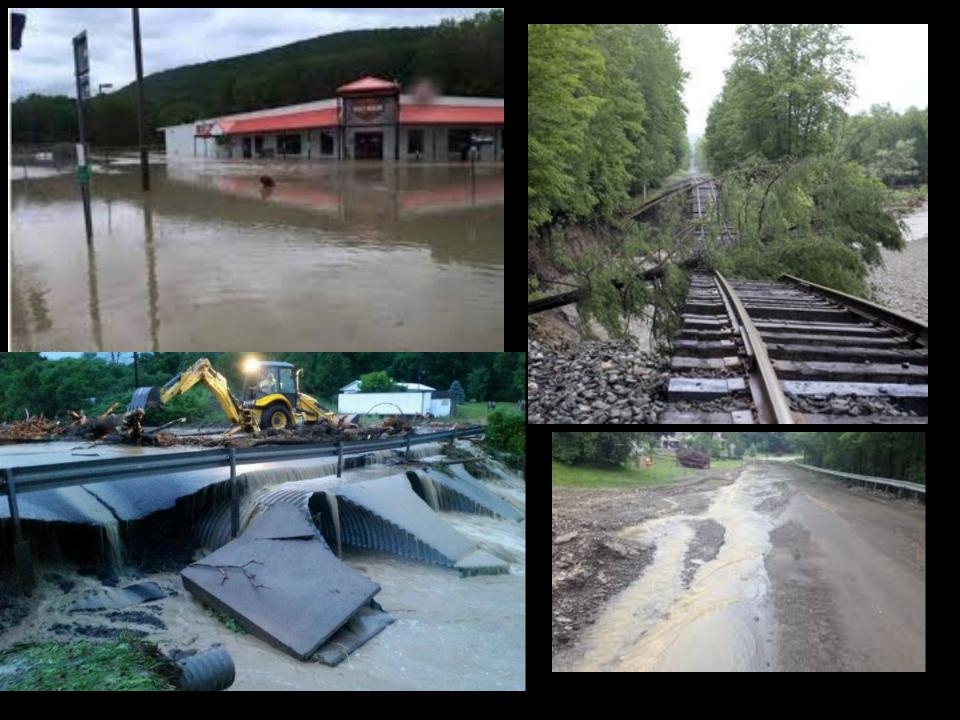
What's the cost of not?







Hurricane Irene: \$16.6 billion





2 inches, 30 minutes, \$50 million in damages

Who Cares?



 Flood damage – homes, property, cropland, etc.

- Flood damage homes, property, cropland, etc.
- Landowner complaints

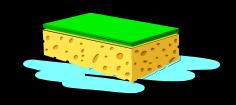
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- Landowner complaints
- Groundwater quality & quantity

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- Jobs & Quality-of-life issues

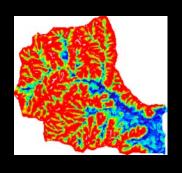
- Flood damage homes, property, cropland, etc.
- Landowner complaints
- Groundwater quality & quantity
- Jobs & Quality-of-life issues
- MUNICIPAL COSTS



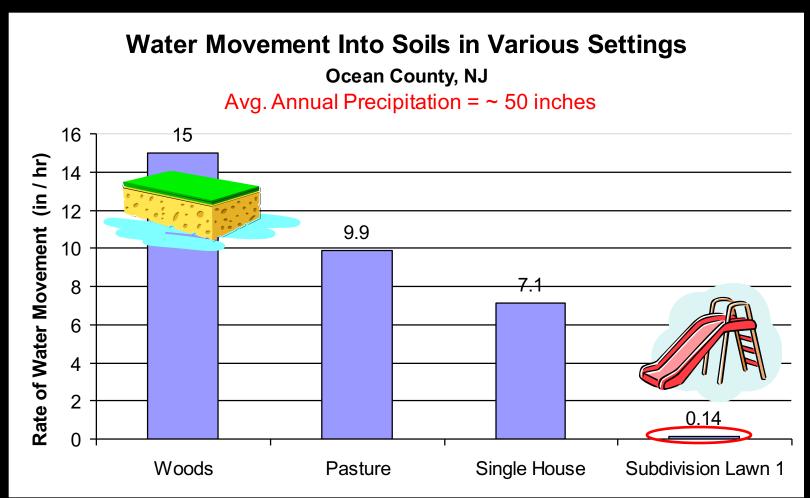
WATERSHEDS—THE FUNNEL, THE SPONGE, AND THE SLIDE







Compaction Effects



Who's 'in-charge' -- of watershed management?



Who's 'in-charge' -- of watershed management?

- No One
- Mayors / Supervisors
- Business Owners
- Conservation Groups
- Planning / Zoning
- Highway Departments
- NYS DEC
- Private Landowners
- All Of The Above



What the heck is Green Infrastructure?



Re-forestation/ Re-vegetation



Vegetated Swales







Rain Barrels

Rain Gardens





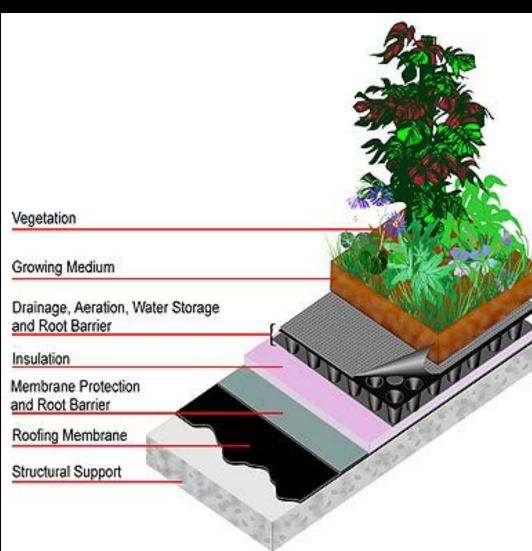
Tree Trench



Green Roofs



Walters Hall, SUNY ESF



Jamesville Correctional Facility



Cistern







Porous/Permeable Pavement Materials







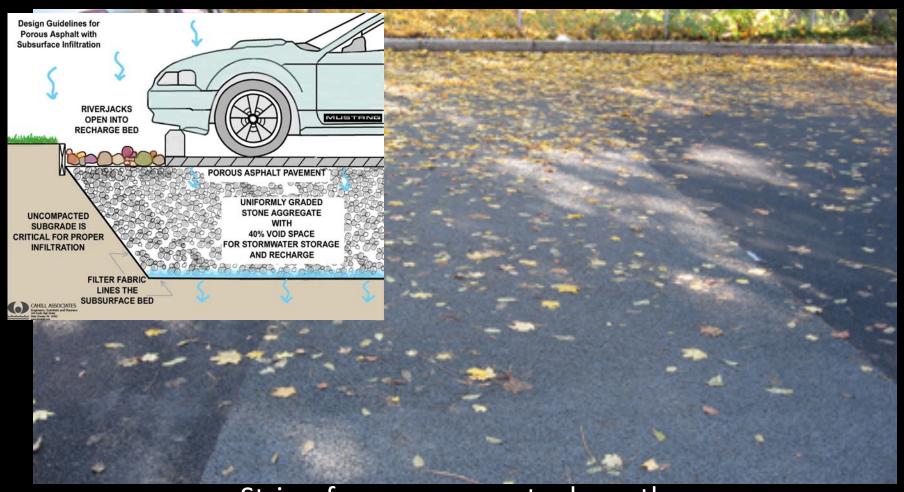




Porous Pavements







Strip of porous concrete down the middle of an asphalt lot in Syracuse

The benefit(s) of a GI approach

The ancillary benefits may outweigh the stormwater benefits!

- Improved streetscapes
- Increased capacity, or upgraded infrastructure
- Inter-departmental 'co-funding' (combining Parks, DPW, and other funding streams to create a mutually beneficial project)
- Increased property value and/or investment

Um I thought we were talking about 'how to pay'!?



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From: Amy Cornett [suny@easypeasy.com]

To: jezter@email.unc.edu

Cc:

Subject: FREE Grant Money For You

Qualifying for a free cash grant is easy!

- \$10,000 to over \$500,000 in FREE Grant Money is Available NOW!
- Never Repay
- No Credit Checks
- No Interest Charge

To see if you meet the requirements, please visit our web site: CLICK HERE NOW!

With best regards,

The Grant Giveaway Team

Not a good source of funding!!!

Also not recommended...



Financing Strategies

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



Effective Financing Strategies



- Community-based
- Integrated
- Mirror the resource

Components of a Financing Strategy

Cost Reducers

Revenue Generators

Market Based
Approaches



Cost Reducers

- Planning
- Effective, enforced policies and regulations
- Coordination with other community priorities
- Asset management
- Collaboration



Revenue Generators



- Grant and loans
- Bonds
- Sustainable, dedicated funding

Ithaca Stormwater Fee Chautauqua County Bed Tax

Incentivizing the Private Sector

 Upper Susquehanna Coalition: berm removal, constructed wetlands, buy-backs, streambed

restoration...



Image courtesy Alliance for the Bay Flickr



SCENARIO A:

Development Proposal:

- 20 New Homes 20 acres
- All within the same watershed
- Constructed in 2015

Triggers:

- SEQR
- NYS DEC SWPPP

- Wastewater Management
- Emergency Services, etc.

A U

Cumulative Effects

SCENARIO B-1 (2015):

•10 Existing Homes – 10 acres



SCENARIO B-2 (2017):

•10 Existing Homes – 10 acres

No Proposal:

- •3 Additional Homes 3 acres
- •All within the same watershed

Triggers:



SCENARIO B-3 (2020):

•10 Existing Homes – 10 acres

No Proposal:

- •4 Additional Homes 4 acres
- •All within the same watershed

Triggers:



SCENARIO B-4 (2023):

•10 Existing Homes – 10 acres

No Proposal:

- •3 Additional Homes 3 acres
- •All within the same watershed

Triggers:

Public-Private Partnerships

Onondaga County Save the Rain Green Improvement Fund (GIF)





130 applications since March 2010

83 projects completed; 35 projects under contract or in implementation phase

40+ million gallons to be captured annually from projects



Skiddy Park B-ball courts with the Boeheim Foundation Courts 4 Kids program



Connective Corridor

Policy-based Tools

- New York Public Infrastructure Policy Act
- Watershed Protection Improvement District
- Complete Streets Act

What is your role and what can you do?

Stormwater Management Plan

- 1. Inventory ditches, culverts, bridges, drainage, pipes and outlets
- 2. What condition are they in?
- 3. How critical are they?
- 4. Rank & Prioritize
- 5. Capital Improvement Plan
- 6. Asset Advisory Committee
- 7. Educate-Educate-Educate

Take-Aways

- Effective financing strategies tend to be
 - Community based
 - Integrated
 - Mirror the resource



- Green infrastructure approach
 - Makes sense from a resource management perspective
 - Makes sense from a financing perspective
- Asset Management and Regionalization
 - Can create efficiencies and reduce implementation costs
 - Can occur at multiple depths and scales