US EPA ARCHIVE DOCUMENT

Funding Strategies for Adaptation: Examples from the Water Sector

U.S. EPA's Adaptation Webcast #3

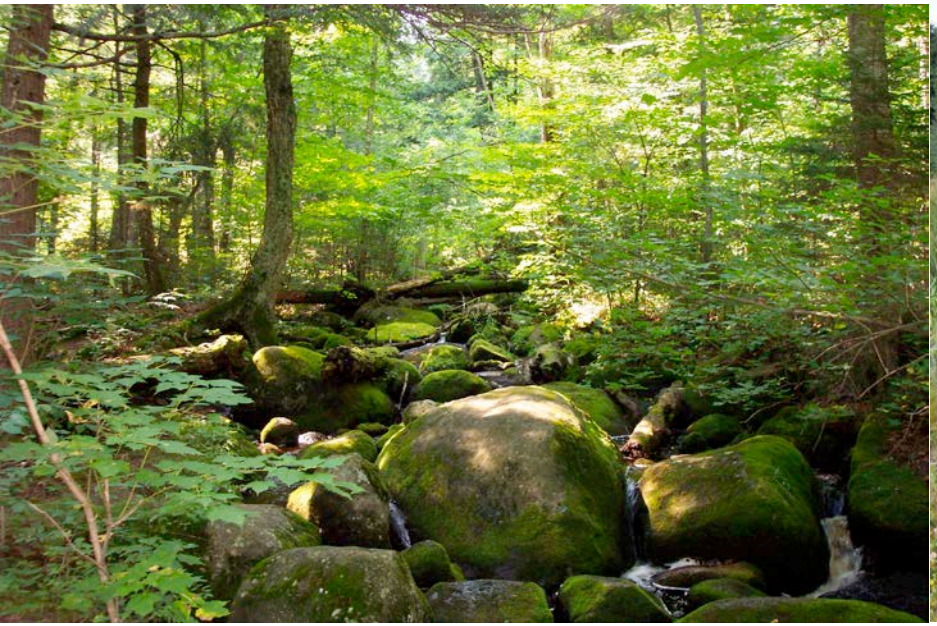
1 May 2013

Lynn Broaddus, The Johnson Foundation at Wingspread

Charting New Waters

The Johnson Foundation AT WINGSPREAD

What does adaptation mean in a water context?



Green Infrastructure

Rainwater Harvesting

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Balancing Act

Phases:

- Planning
- Execution
- Maintenance

Sources of Financing

- Cash reserves
- Loan
- Grant

Scale

Site ⟷ City ⟷ State

Ways to Pay

- Tax Levy (property tax, sales tax, TIF, etc.)
- Ratepayer Fees (water, sewer, or stormwater fees)
- OPM (Other People's Money)

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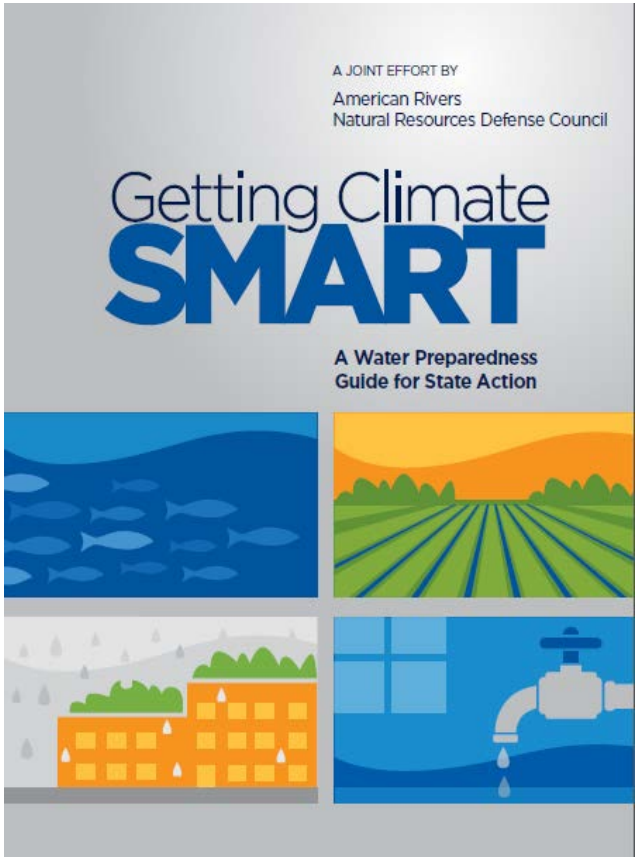
Released 22 April 2013: It says it all

- Appendix II: 22 pages of funding resources



http://www.americanrivers.org/newsroom/resources/climate-change/getting-climate-smart.html

or

http://www.nrdc.org/water/climate-smart/

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State Revolving Fund loans

- EPA's Green Project Reserve, CWSRF set aside for green infrastructure, water efficiency, energy efficiency, and more
- http://water.epa.gov/grants_funding/cwsrf/Green-Project-Reserve.cfm

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Look to Foundations and NGO partners

- Potential source of matching funding
- *E.g. Cleveland Foundation awarded $400,000 to 'green' the region's sewer plan*
  http://blog.cleveland.com/architecture/2012/06/cleveland_foundation_awards_40.html
- Convening ability
- Source of different skill sets, different perspective
- *E.g. TNC and NRDC piloting novel financing tool for stormwater retrofits*
  http://www.slideshare.net/CWAA/nrdc
- Source of volunteers
- Connection to private sector

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Stormwater Fees

e.g. Philadelphia's Parcel-based stormwater fees

- Fee structure based largely on amount of impervious surface
- Developed with citizen input
- Replaced fees that were based on water use
- http://www.phila.gov/water/Stormwater_Where.html

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Partner with other agencies, share costs

- Transportation
- Housing
- Sidewalks
- Parks and Recreation
- Urban Forestry
- Extension, Community Gardens
- Schools
- Private sector
- E.g. NYC's plan: http://www.nyc.gov/html/dep/html/stormwater/nyc_green_infrastructure_plan.shtml

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Tax Incremental Financing District
Menomonee Valley, Milwaukee WI
Shared Stormwater Park

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Additional Resources

- Financing Sustainable Water Infrastructure
  http://www.johnsonfdn.org/aboutus/water-infrastructure
- Disclosure Framework for Water and Sewer Authorities (Ceres)
  http://www.ceres.org/resources/reports/disclosure-framework-for-water-sewer-enterprises/view
- The Value of Green Infrastructure for Urban Climate Adaptation (CCAP)
  http://ccap.org/media-center-item/new-ccap-reports-find-local-climate-adaptation-and-green-infrastructure-efforts-enhance-resilience-and-economic-performance/
- Creating Private Markets for Green Stormwater Infrastructure
  http://www.nrdc.org/water/stormwater/green-infrastructure-pa.asp

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