

Financing Watershed Conservation:

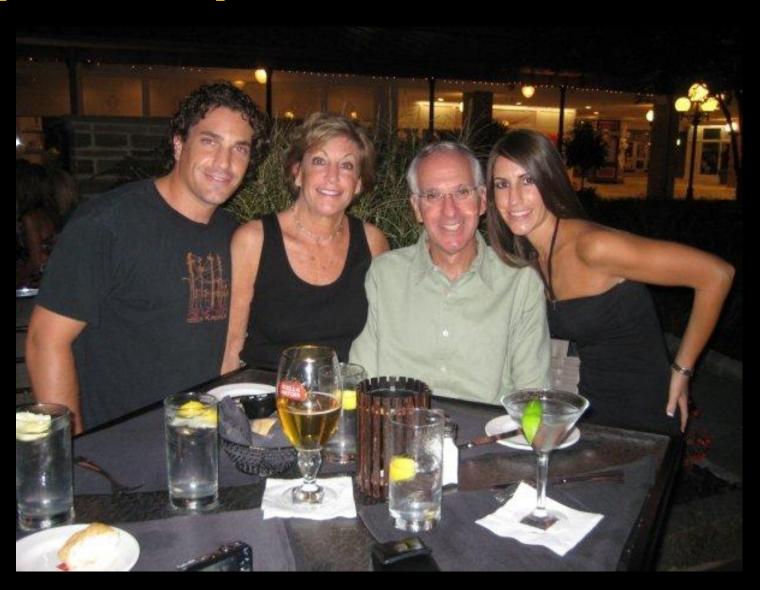
Using Incentives to Connect Forests, Water & Communities

Ecosystem Restoration Conference August 4, 2011

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Help Me Impress Them!



The World Resources Institute has four programs











Future of US Forests Rests in the Hands of Private Landowners



Remembering Aldo Leopold

"Conservation will ultimately boil down to rewarding the private landowner who conserves the public interest."

"Emerging markets....will provide landowners with expanded economic incentive to maintain and restore our forests"







Payments for Nature's Benefits...

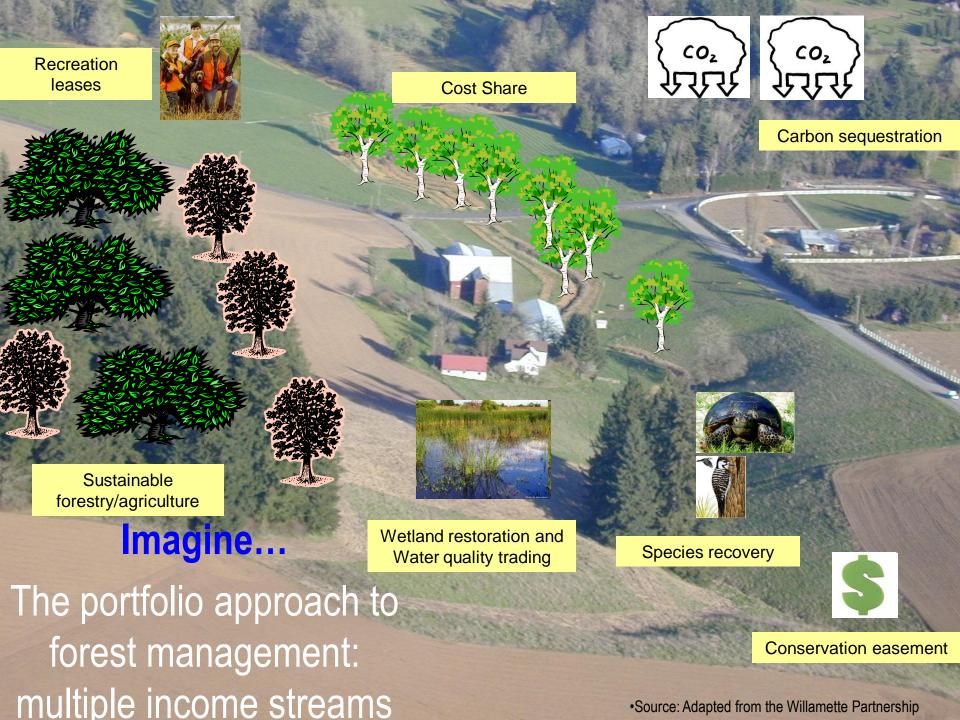
Arrangements for placing economic value on natural assets normally "outside the market"

Environmental services not properly valued → systems become degraded

Forests becoming recognized as an asset (monetarily); provide clean air, water, habitat

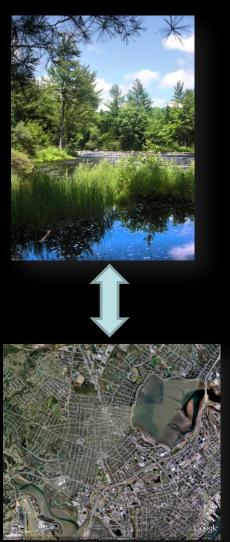
Financial systems that enable people who produce products and services to be compensated by those who benefit





"The water we drink and utilize may be our most important connection to the forest."





Vision of a Watershed Services Marketplace

Users

- Water District/Utility
- Rate Payers
- Industry
- Recreation

Sellers





Products



- Restoration
- Improved **Practices**
- Preservation

Government

- EQIP
- Dedicated Pool

Buyers/ \$ Sources

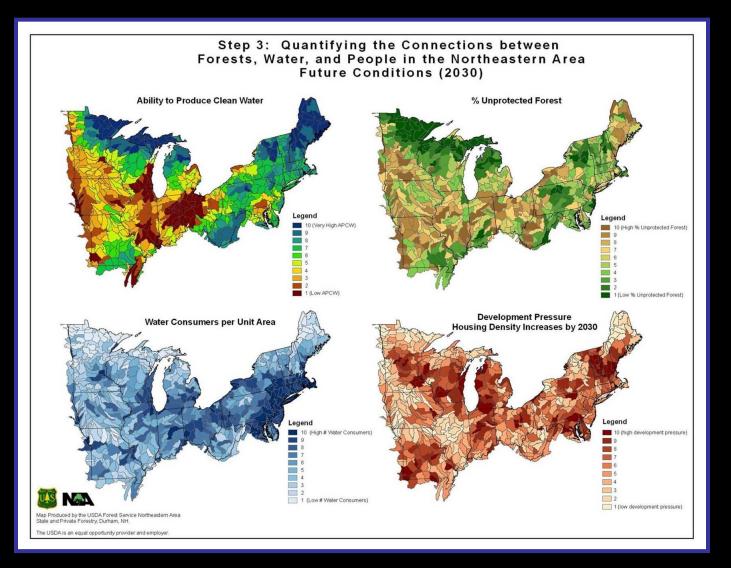
Land Use **Planning**

- Current Use Tax
- Zoning/TDR
- Easements

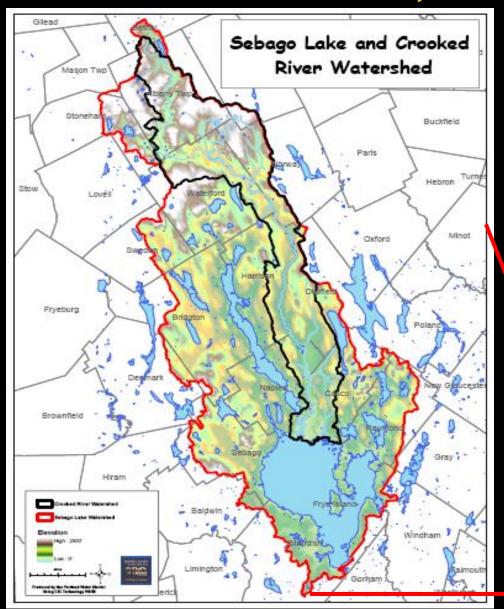
Philanthropy

- Program related investment
- Grants
- Revolving Loans

GIS Threat Assessment Watershed Prioritization



Crooked River Watershed, Portland, ME









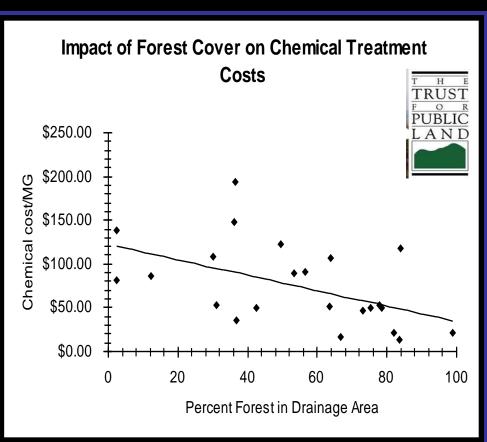
◆THE WESTERN FOOTHILLS LAND TRUST







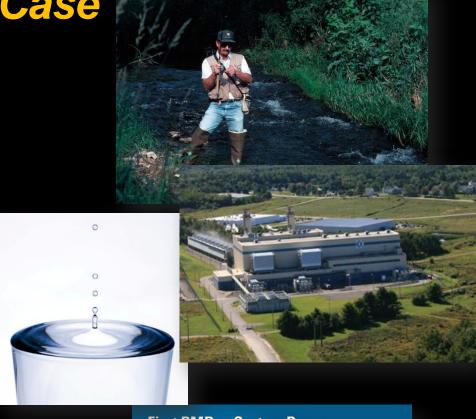
Less Forest Cover = Higher Treatment Costs





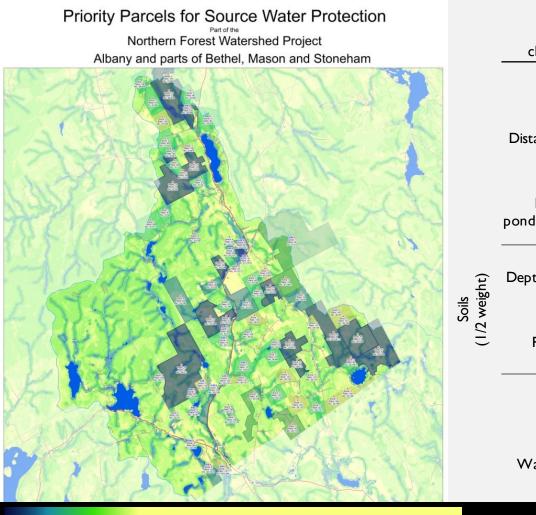
Beneficiaries Making the Business Case

- Demand
 - created by law/regulation
 - voluntary drivers (business case)
- ID Beneficiaries
 - Who uses the water
 - How they use it
 - How they benefit from "clean" water
 - Opportunities & Risks
- Green vs. Grey Infrastructure Analysis
- Engage Beneficiaries





Where should we focus our \$ and effort?



Landscape characteristic

Land use

Distance to streams (feet)

Distance to ponds/wetlands (feet)

Depth to water table

Permeability

Slope

Water – Forest – Roads Conservation Priority Index (CPI) -Prioritization of parcels

Conducted By -

- Bill VanDoren, Craig Nicolson, and Paul Barten, Umass
- AMC



What can we do on the ground?

Riparian Buffer

Culverts and Drainage Improvements

Vegetative Cover

Road Retirement

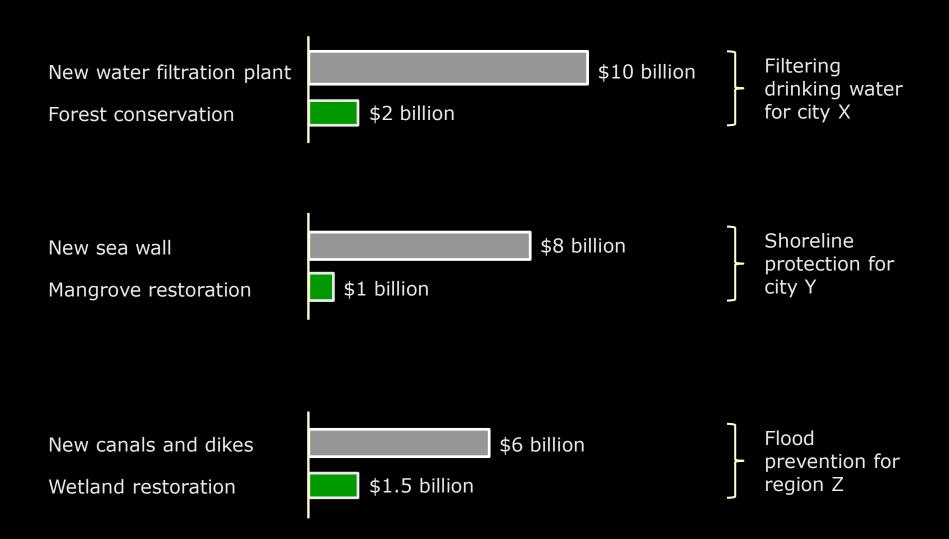
Silvicultural Practices

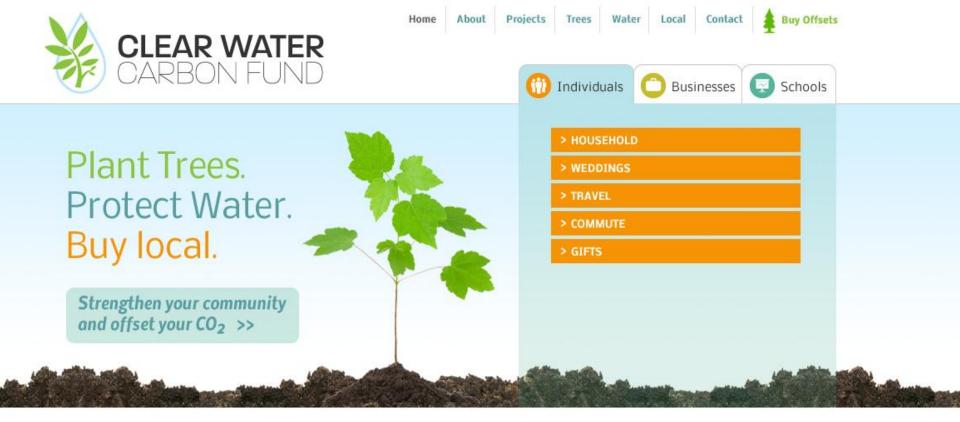
Road Network





Figure 1. Illustrative example of green vs. gray





Clear Water Carbon Fund brings you offset options in the form of local reforestation and water restoration projects. Our local projects allow you to offset your activities in a way that benefits your local community and economy, giving you the ability to buy local and reduce your carbon footprint. We have offset options for individuals, businesses and schools, as well as calculators to help you determine the emissions you want to offset.







\$1 for Tap Water?



Online Marketplace & Landscape Auction



ioby brings environmental projects to life, block by block.



STATUS: UNDERWAY

Urban Meadow Compost Project

Purchase composters to recycle garden waste into compost, reduce waste we throw out from the Meadow, pilot a household waste composting program

> project leader project leader

SHARE THIS PROJECT [7] 2 4 7

TOTAL FUNDING NEEDED: \$862

Sponsored by Partnership for Parks! Gifts up to \$200 will be matched dollar-for-dollar until June 1, 2011 or \$1,120 is paid out, whichever comes first.

Corner of President St. and Van Brunt St. oklyn (Red Hook) latest update 🔝

NEARBY PROJECTS

longer collecting donations.

funded!

No updates yet.

the project

From many years of neglect and dumping, the soil in the Urban Meadow is poor. The most natural way to improve the soil is by using compost; rich organic matter that provides the right nutrients for plants. Currently we throw out bags of garden scraps and end up buying mulch to improve the poor soil in the Meadow. In addition, as in most communities, too much household waste is dumped into the garbage.

the steps

We would begin our project by composting garden waste including weeds, leaves, debris from the winter, etc. After a learning period using garden waste, we will begin a pilot program with 10 households who can recycle their household food scraps (fruit and vegetable waste mainly) in the composters. This would reduce the waste thrown out by households in the community and reuse organic materials for the garden. We will install the composters and begin using them this spring. We will have sessions where members learn to use the composters properly, and we will begin educating











Orange County Headwaters



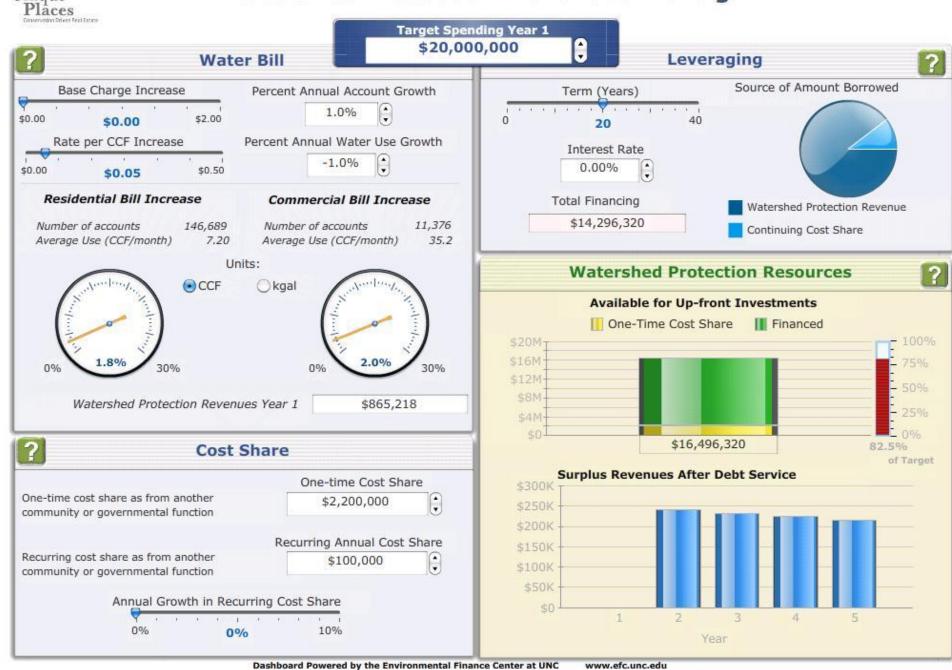


COMMITTEE FOR CLEAN WATER

VOTE **Yes** on Ballot Question 2A!

Unique + Places

Watershed Protection Revenues: Raleigh



Thanks!





TOYOTA







Questions and Discussion



To contact me after my presentation, text GON to INTRO (46876)

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