



Watershed Financing - Moving Beyond Grants

October 17, 2007 Webcast

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In collaboration with the Environmental Finance Center University of Maryland

Welcome!

*This Webcast features watershed finance approaches – sources, instruments, and institutions -- that can help you and your partners build sustainable watershed organizations and implement watershed plans

Why are we interested in watershed financing?

- In 2000, water quality inventories show that approximately 40% of streams, 45% of lakes, and 50% of estuaries assessed in the United States remain too polluted for fishing, swimming, and other uses
- There are not enough grants to fully fund watershed protection and restoration



Today's Webcast

- ▼ Introduction to Watershed Finance
 - Sources, instruments, and institutions
- Watershed Financing Process
 - Assess sources and institutional capacity; implement strategies
- Effective Watershed Financing Strategies
 - Key elements
- ★ Watershed Finance Case Studies
 - Cacapon and Lost River Land Trust, WV
 - Montgomery County, MD



Charge to group

- Think creatively about finance mechanisms and approaches you may not have previously considered
- ★Use these ideas to develop innovative funding strategies

Introduction to Finance

What is financing?

- *Financing is an allocation process comprised of <u>acquiring</u>, <u>investing</u>, and <u>managing</u> fiscal resources
- *Ultimate goal of financing is to <u>maximize</u> return on investment
- Financing helps us determine how we should go about accomplishing a goal. It is the *how* and the *when*, not the *why*

Why finance?



- * Finance provides long-term solutions:
 - There are not, have never been, and never will be enough grants public or private to fully fund watershed protection and restoration
 - Moves us from funding to investing
- **☀** Effective financing results in efficiency:
 - Maximize return on the community's investment

Why finance? (cont.)



- Finance is a community process:
 - Multiple stakeholders, institutions, organizations, citizens
 - Requires the community to prioritize
- Watershed financing mirrors the resource:
 - Local problems resulting in local solutions

Why financing?



Financing is how things get done!

Core financing components



≱Revenue **sources**



≱Financing *instruments*



≱Financing *institutions*

Financing components: revenue sources

Financing is about MONEY!

- ★Revenue source: payers of costs
- **☀**Ultimately, <u>we</u> are sources:
 - Taxpayers, ratepayers, consumers, businesses, investors



Financing components: revenue sources (cont.)

Revenue sources are diverse

- Appropriate revenue sources are determined by many factors: efficiency, sufficiency, equity, market behavior, community and political will
- *Types of sources: taxes, fees, tolls, governments, foundations, organizations, marketplace, private *equity* (ownership) and wealth

Financing components: Instruments

The tools and programs necessary for allocating fiscal resources

- Financing instruments connect sources to costs
- *Effective financing instruments reduce costs, thereby <u>maximizing return on investment</u>

Choice of instrument is determined by many factors

- Efficiency
- Effectiveness
- Organizational structure
- Scale
- Community capacity and priorities



Debt

- An obligation to pay or do something: loans, bonds
- *Allows <u>leveraging</u> annual or consistent revenue results in lump sum
- *Why debt? <u>Taking action today is</u> <u>cheaper than taking action tomorrow</u>

Grants

Have served as the foundation for watershed restoration projects



- Excellent way to <u>seed</u> programs and projects
- Types: government (subsidies), private (foundations, corporations, individuals)
- <u>Wally</u> mot a long-term solution

Market-based programs

*Trading and offset programs



- Fiscal incentives (tax credits)
- Purchasing and transferring development rights
- Voluntary programs

Financing components: Institutions

*The organizations needed to implement the financing process







Critical component of community financing capacity





Financing components: Institutions

- Local, state and federal governments
- Utilities and authorities
- Non-profits and NGOs
- For-profit corporations and businesses
- Private citizens







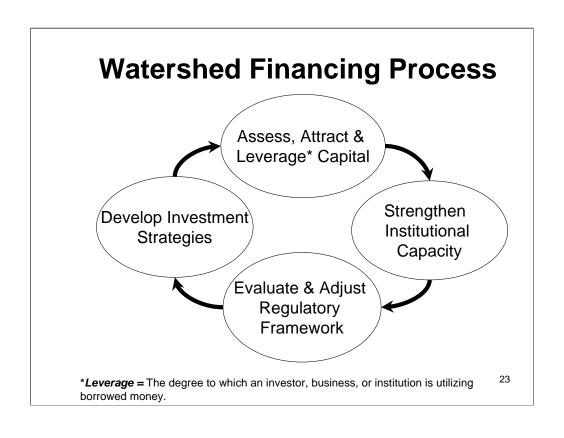


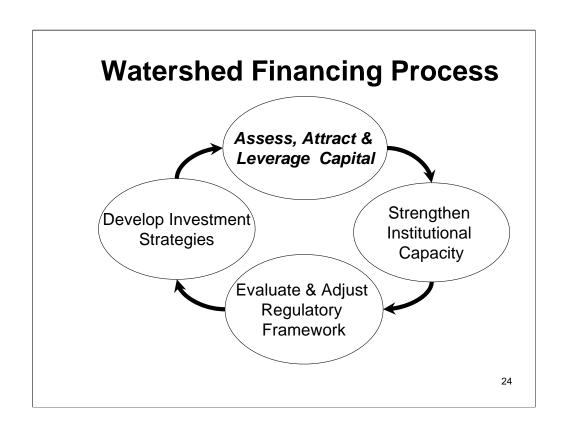
Questions?



Dan Nees, World Resources Institute

Process of Financing Watershed Protection





Assess, attract & leverage capital

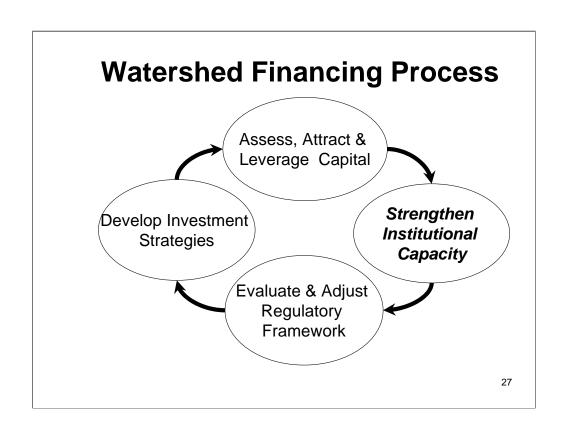
Key points on the process:

- Analyze capacity to attract capital, which includes assessing existing revenue streams and sources
- Evaluate and recommend new revenue sources and capital approaches
- Consider and involve key players (city, county, state, etc.) in the financing process

Assess, attract & leverage capital (cont.)

Key issues to consider:

- **▼Is current revenue capacity sufficient?**
- What types of revenue sources are most appropriate? Public or private?
- ➤ What are the associated legal barriers?



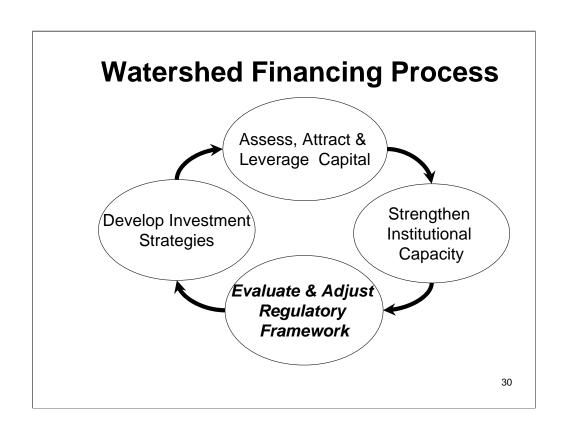
Strengthen Institutional Capacity

Key points in the process:

- ➤ Who has the financing obligation?
 - Public? (federal, state, local government)
 - Private? (businesses, citizens, consumers)
- Is the capacity in place to leverage and allocate fiscal resources?

Strengthen Institutional Capacity (cont.) Key points in the process:

- ★If institutional capacity is lacking, where do breakdowns occur?
- *How can capacity be strengthened?
 Are new institutions required?



Evaluate & adjust regulatory framework

Why law and regulation?

They correct failures in the marketplace

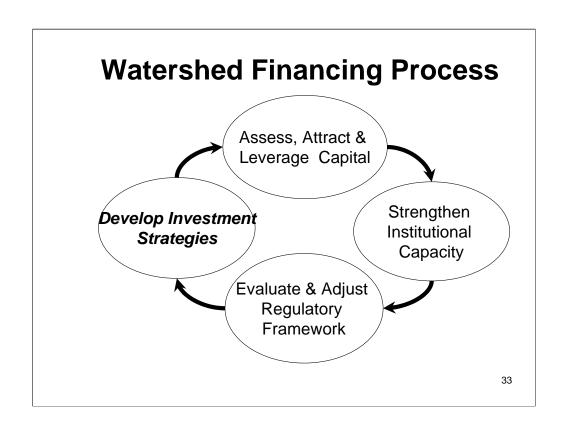


Reduce costs to the community by fostering innovation and compliance

Evaluate & adjust regulatory framework (cont.)

Key issues/questions to consider:

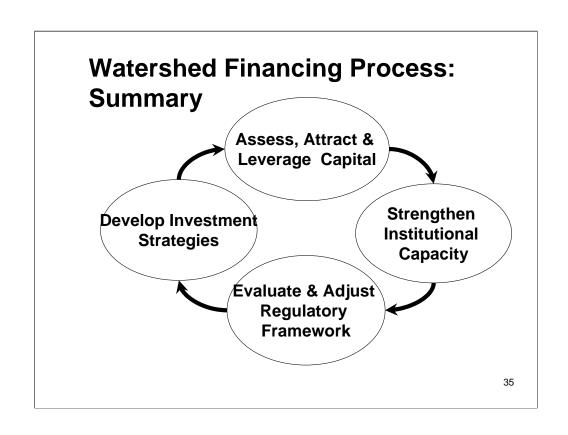
- ★ Are regulations even necessary?
- ➤ Who has regulatory responsibility?
- ➤ Will regulations improve efficiency?
- Will regulations shift costs, and if so, to whom?



Develop investment strategies

Key issues to consider:

- *Focus on performance, not programs
- Invest in future success: information, research, monitoring
- * Invest in incentives
- Coordinate with other community programs and priorities



Questions?



Dan Nees, World Resources Institute

Join us for our 28th Watershed Academy Webcast, November 28th, on...



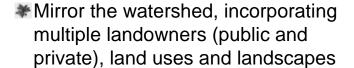
Smart Growth

Visit: epa.gov/watershedwebcasts for more information

Case Study Examples

Characteristics of effective financing strategies

- Community-based, incorporating multiple stakeholder groups
- Integrated, combining a variety of sources, instruments, and institutions



Two case studies

- ★Cacapon and Lost Rivers Land Trust, West Virginia: land protection strategy
- Montgomery County, Maryland: stormwater management

Two case studies (cont.)

Analysis criteria:

- **☀** Developing revenue sources
- **★**Establishing institutional capacity
- ★The role of regulations
- **☀**Key investment strategies

Cacapon and Lost Rivers Watershed, WV

★The Cacapon and Lost Rivers are actually one river



- **★625** sq mile watershed
- Located in Hampshire, Hardy and Morgan counties in West Virginia

Cacapon and Lost Rivers Watershed (cont.)

★ Cacapon River suffers from fecal coliform contamination



- Development pressures from Washington, DC metropolitan area
- New highway, Corridor H, bisects the watershed

Cacapon and Lost Rivers Land Trust: A strategic approach

Established in 1995 to protect the watershed and the area's rural heritage



- 2002: Healing Waters event prioritized lands for protection
- LAND TRUST
- 2005: Financing Charrette identified a financing strategy for land protection
- 2007: Strategic Planning Retreat laid out plan to improve organizational capacity, ensure sustainability, and implement Healing Waters conservation plan this costs \$\$\$

Cacapon and Lost Rivers Land Trust: A strategic approach (cont.)

- The Trust has set a goal of raising \$200,000 annually by 2010
- The associated financing strategy includes plans to:
 - Diversify funding sources
 - Consider cost-reducing measures
 - Identify sustainable revenue stream
 - Examine market-based opportunities
 - Effectively develop institutional relationships

Cacapon and Lost Rivers Land Trust: financing strategy (cont.)

- Diversifying funding sources
 - Avoids quick gains and quick declines
 - Organizational stability
 - Sustainable income despite changes in government budgets, funders' priorities, or market conditions

Cacapon and Lost Rivers Land Trust: financing strategy (cont.)

- **☀** Consider cost-reducing measures
 - Collaboration
 - Regulation
 - Leveraging community priorities



Cacapon and Lost Rivers Land Trust: Financing Strategy (cont.)

- ▼Identify sustainable revenue streams
 - Camp tuition surcharges
 - Management and monitoring fees
 - Mitigation monies
 - Major donor campaign
 - State and federal funds



Cacapon and Lost Rivers Land Trust: financing strategy (cont.)

- **☀** Examine market-based programs
 - Development rights program
 - Trade land programs
 - Tourism

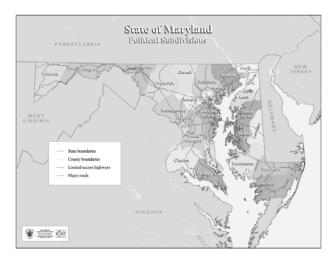


Cacapon and Lost Rivers Land Trust: financing strategy (cont.)

- * Revenue: diversifying to minimize changes in any one source of funds
- Institutional capacity: looking to improve internal capacity and develop mutually beneficial partnerships that fill institutional gaps
- * Regulatory framework: working with regulatory agencies to coordinate agendas and establish Trust as go-to for mitigation and enforcement \$\$
- Investment: parcel-based land preservation that has been strategically prioritized
 50

Montgomery County, MD Stormwater Utility

Montgomery County, MD



Montgomery County, MD

- **¥** Just north of Washington, DC
- ★Total population: almost 1 million (growing)
- ➤ Very affluent, very urban
- **★**Lots of urban stormwater runoff

Stormwater utilities

- ♣ Public enterprises developed to support urban stormwater programs
- Resulted from increased laws and restrictions: amendments to the Clean Water Act
- ★ More than 500 stormwater utilities exist across the United States

Montgomery County, MD

Multiple program goals

- **★Support required permit obligations**
- Create efficiencies/reduce redundancies
- **★**Establish and maintain fiscal capacity

Revenue source

- *All county citizens and businesses (taxexempt institutions are NOT exempt from fee)
- Revenue is collected as part of property tax bills

Revenue source

- * Rate is based on equivalent dwelling unit (EDU)
- ➤ EDU: one average single family unit
- ➤ EDU in Montgomery County: 2,400 ft²
- * Rate is established annually
- ✗ Current rate: \$25 per EDU

Institutional structure

- County established new institution to manage stormwater programs
- Created efficiency: reduced redundant County programs
- Program focuses on operations and maintenance of the system

Regulatory framework

- Stormwater is now regulated: NPDES permitting program
- Montgomery County is permited under the Municipally Separate Storm Sewer System (MS4) program
- ➤ Phase 1 community (big)
- ➤ Enforced by the state

Investment strategy

- Program pays for maintenance of stormwater facilities:
 - Inspection
 - Construction/reconstruction
 - Modifications
- Financing tools: program does NOT support debt financing (pay as you go)

- * Revenue: sustainable, dedicated
- *Institutional capacity: improved and expanded
- ** Regulatory framework: foundation of the entire process
- *Investment: focus on maintenance

Conclusions

- Finance is the process for success
- Watershed financing requires the entire community to participate
- Finance is how things ultimately get done

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Questions?

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http://www.clu-in.org/conf/tio/owwtrfin/resource.cfm

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