



# **Watershed Financing - Moving Beyond Grants**

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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 <u>funding</u> to <u>investing</u>
- \* 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)
- \* Usually not 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







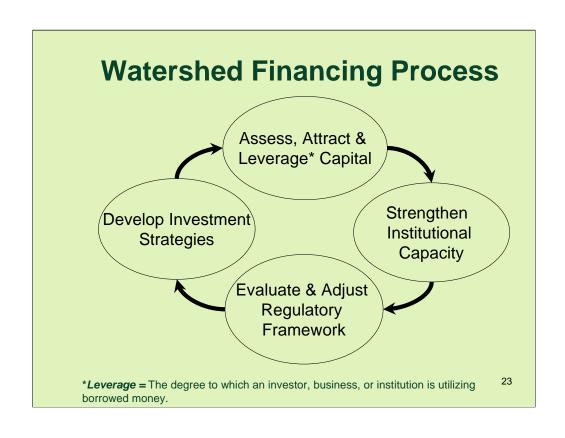


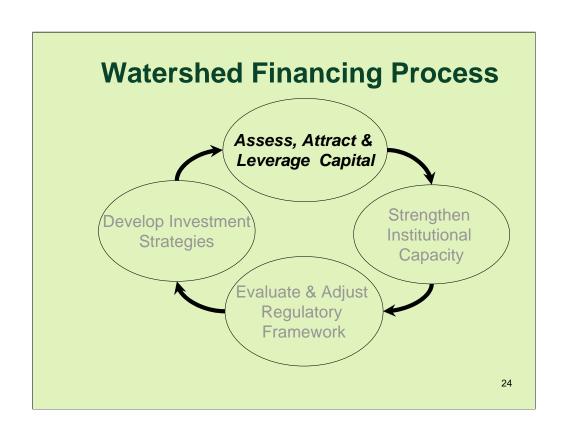
### **Questions?**



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# Process of Financing Watershed Protection





## Assess, attract & leverage capital

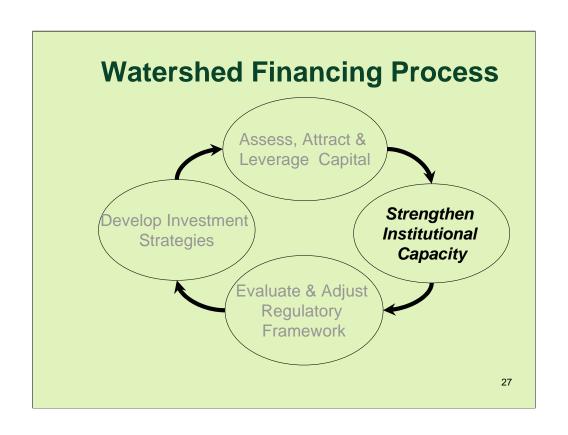
#### Key points on the process:

- \* 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?



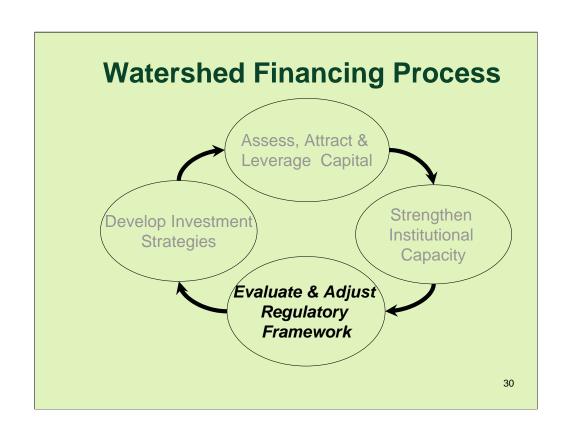
#### **Strengthen Institutional Capacity**

#### 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

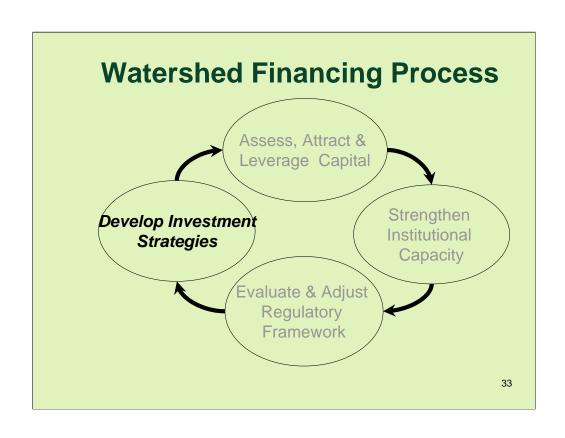


★Reduce costs to the community by fostering innovation and compliance

## Evaluate & adjust regulatory framework (cont.)

#### Key issues/questions to consider:

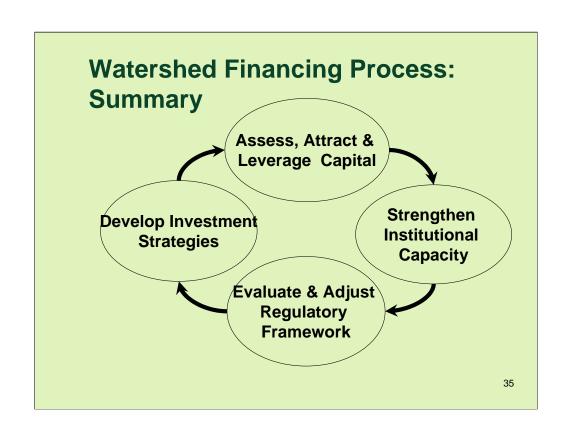
- \*Are regulations even necessary?
- ➤ Who has regulatory responsibility?
- ★ Will regulations improve efficiency?
- ★ Will regulations shift costs, and if so, to whom?



#### **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?**



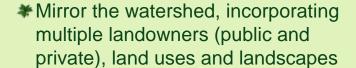
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## Case Study Examples

## **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
- Pennsylvania

  West Virginia

  Virginia
- **\***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



- 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.)

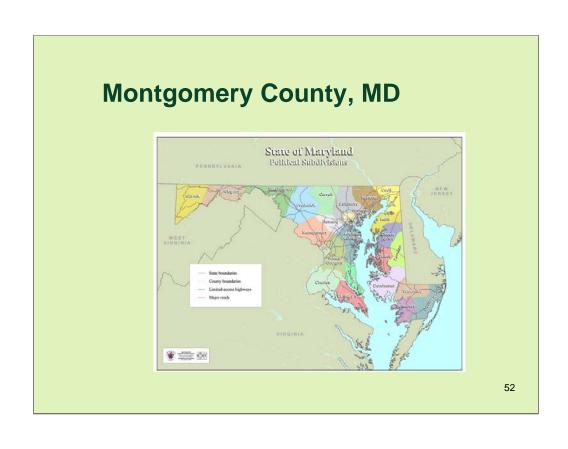
- **★**Examine market-based programs
  - Development rights program
  - Trade land programs
  - Tourism



#### 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
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## Montgomery County, MD Stormwater Utility



### **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 ft<sup>2</sup>
- \* 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

#### For more information:

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## **Questions?**

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

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