

CRESSIDA

BUILDING LOCAL COMMUNITY RESILIENCE FOR SUSTAINABLE DEVELOPMENT
IN INTERNATIONAL WATERSHEDS SUCH AS THE DRINI AND DRINA RIVER WATERSHEDS

Workshop Welcome

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US EPA

Watershed Stewardship

We all Live in a Watershed

Watershed stewards protect freshwater resources.

Stewardship helps keep streams healthy and builds resilience within the watershed.



Building Resilience

Resilience is about making people, communities and systems better prepared to withstand catastrophic events—both natural and manmade—and able to bounce back more quickly and emerge stronger from these shocks and stresses.

The choices we make now will impact the severity of future events and the ability of social and environmental systems to recover

Water is a Precious Resource

Surface Waters only
0.008% of all water

Increasing Global Needs

- Drinking Water demand 40% more than supply by 2030
- 70% more Food by 2050

Climate Change

Risk of Flood and Drought



Maintaining Resilience and Preserving Freshwater Resources

Challenge but also an Opportunity to transform water management practices in a way that builds resilience in the freshwater systems, and local communities.

- **Limited Use**
- **Adaptive Allocation**
- **Transparent Exchange**
- **Social Inclusion & Equity**
- **Environmental Integrity. *maintaining environmental functions necessary for good ecological status***

Ecological Status of Freshwaters

~50% Surface Waters Impaired

50-60% of Wetlands lost

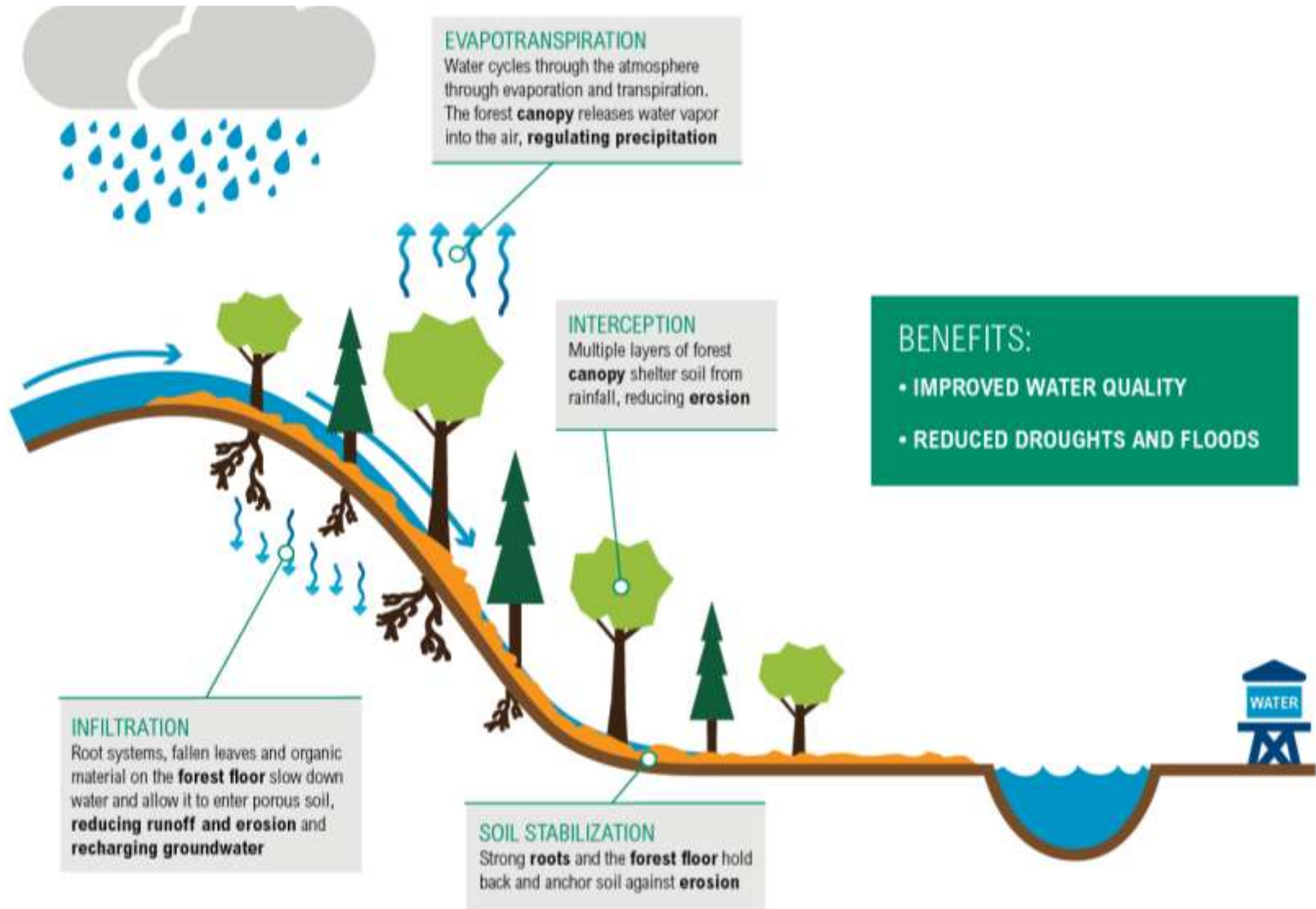
~90% of Floodplains Disrupted

€10-20 Billion Annual Flood Costs

Value of healthy streams and rivers Trillions of \$ annually



Benefits of Functional Watersheds



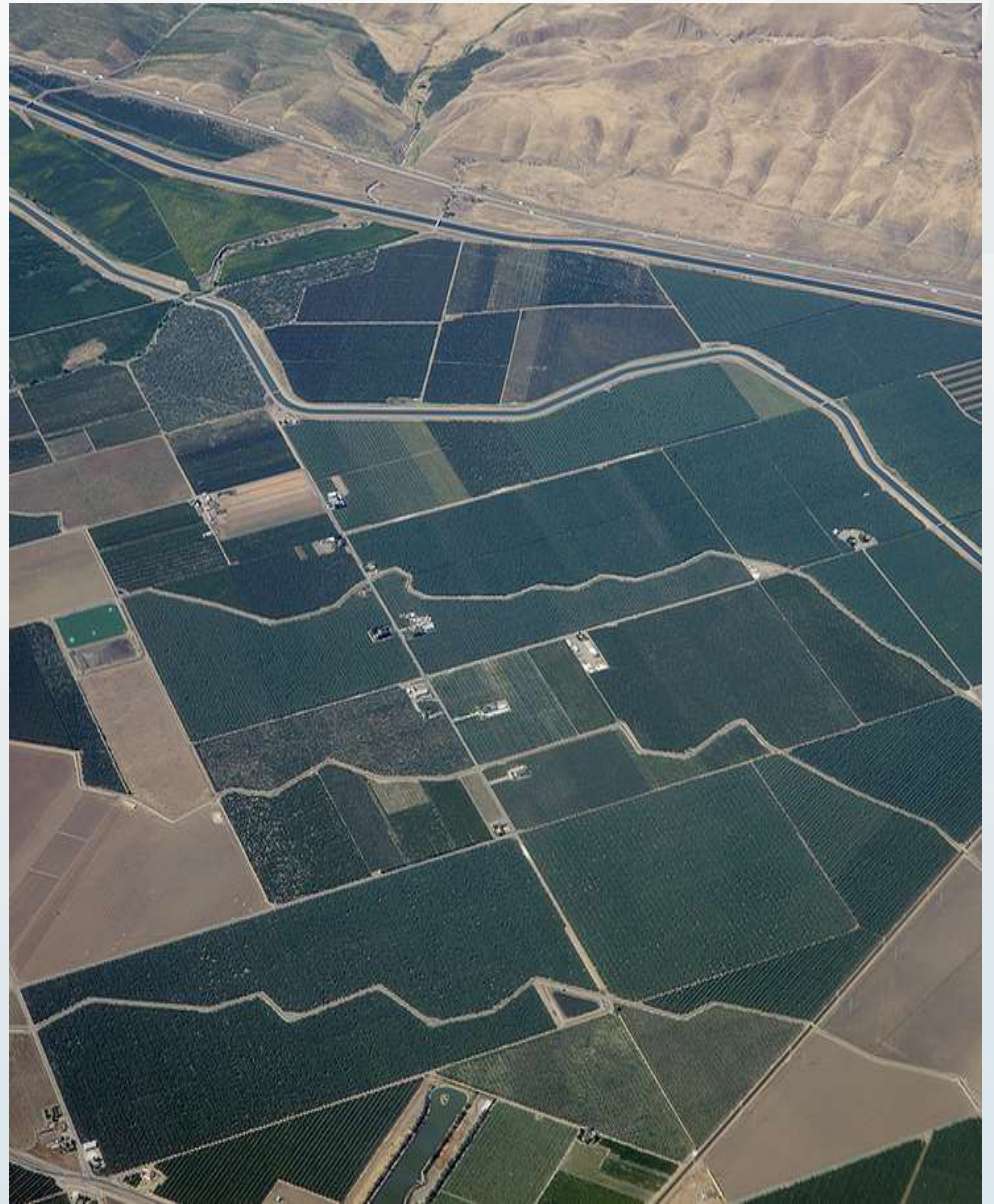
We Choose how we Live with Rivers

Natural



We Choose how we Live with Rivers

Natural
Or
Modified



We Choose how we Live with Rivers

Natural
Or
Modified
Or

A Compromise



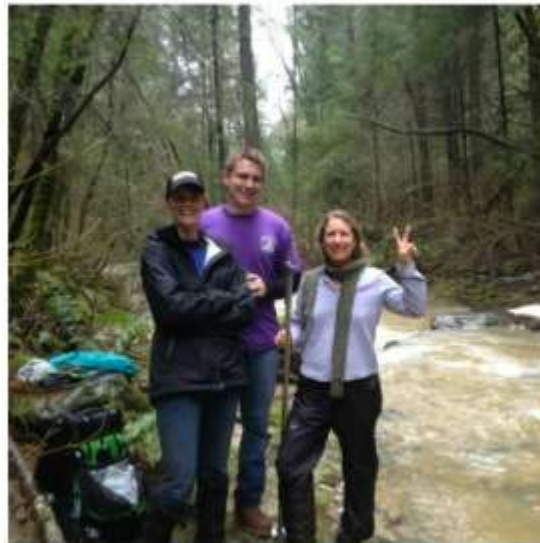
Community Monitoring

Healthy watersheds depend on

- an Informed Public
- the Right Decisions
- Community Action

Monitoring helps Communities

- Address their Interests
- Make Informed Decisions
- Improve Stream Health
- Build Resilience



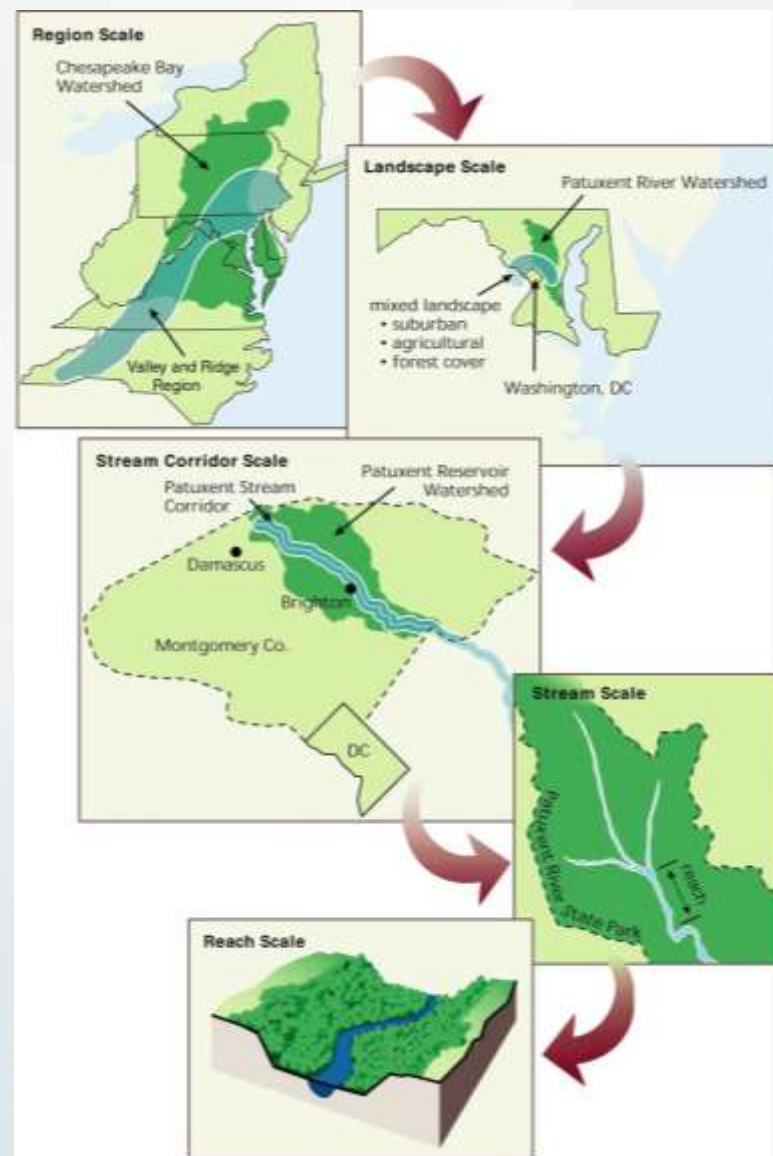
Local Actions- Big Impact

Monitoring at local
"Reaches"

Improvements in
local "Catchments"

Benefits entire "River
Basins"

IMPACT



Value of Partnerships

Sustainable Watershed Management Requires:

- Governance
- Balance of Uses
- Quality
- Protected Areas

Partnering

- Increases Capacity
- Magnifies Impact
- Leverages Resources



Water Monitoring Partners

Thanks to our partners who help make our Citizen Water Monitoring Program a success!

City of Arcata's Environmental Services Department
City of Eureka's Stormwater Division
Coast Seafoods Company
Humboldt County Department of Environmental Health's Ocean Monitoring Program
Humboldt County Department of Public Works
North Coast Laboratories
North Coast Stormwater Coalition
North Coast Regional Water Quality Control Board
Pacific Watershed Associates
Salmon Forever
State Water Resources Board's Clean Water Team

Thank You!