

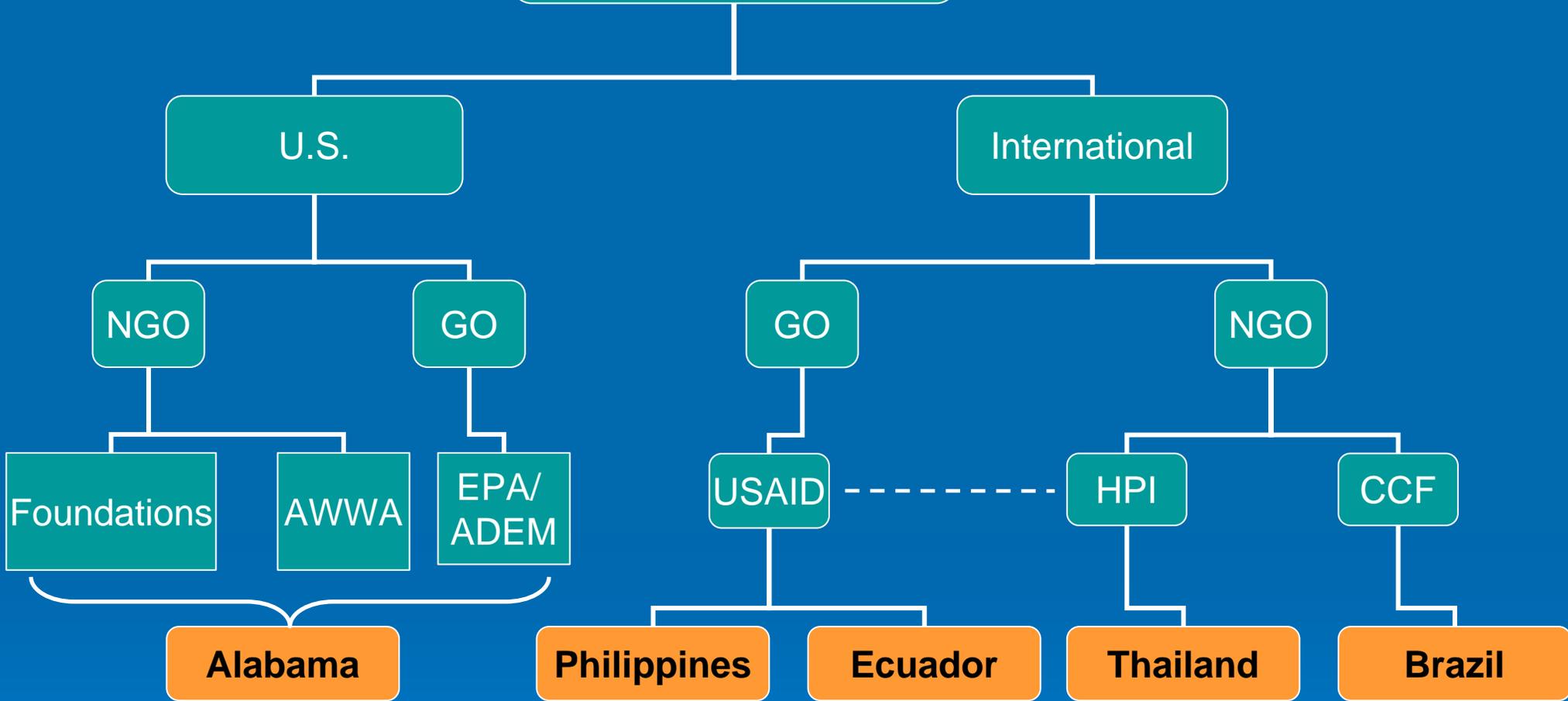
Community-Based Water Monitoring: A Decade of Global Experiences

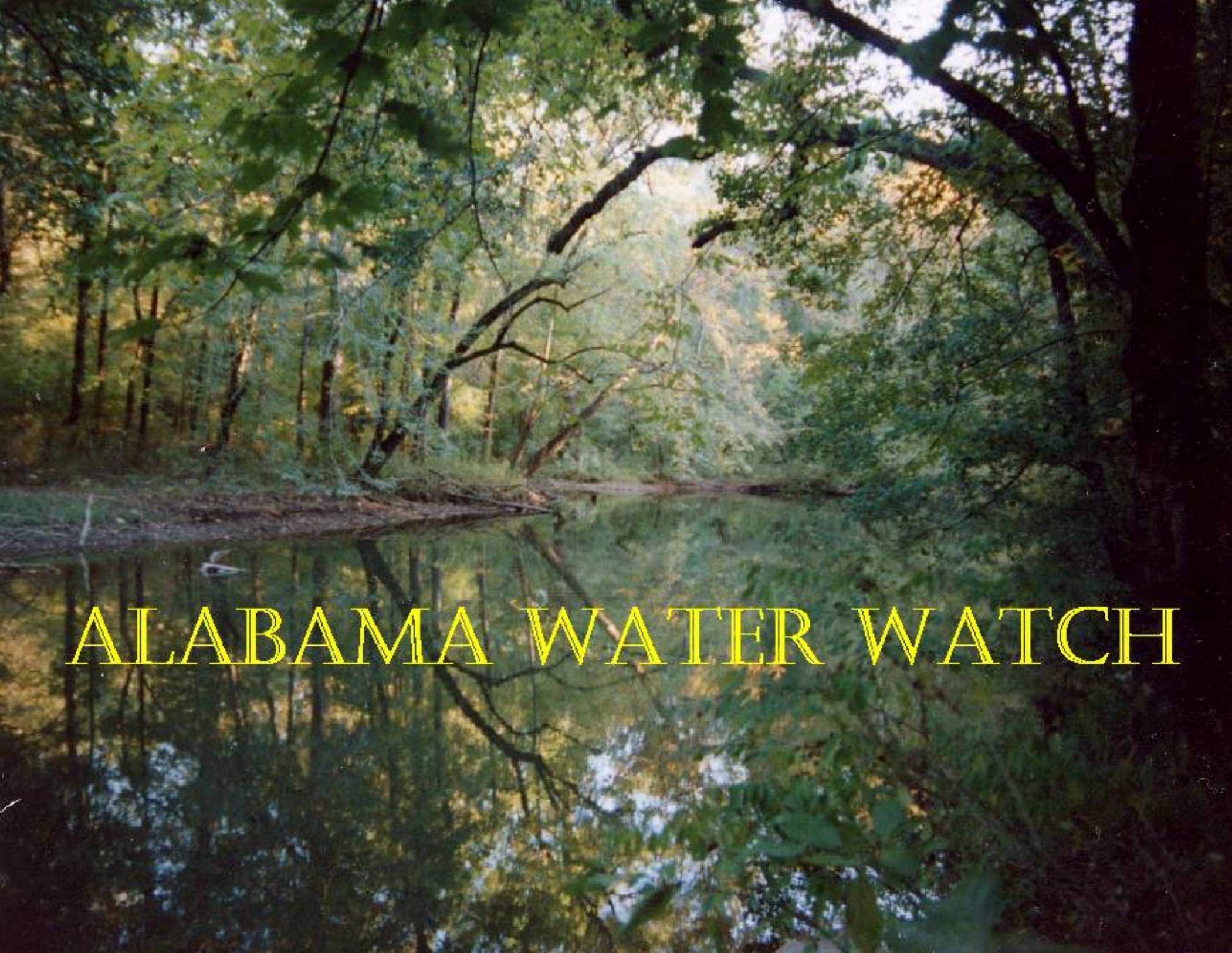
Dr. Bill Deutsch
International Center for Aquaculture and Aquatic Environments
Auburn University

National Water Quality Monitoring Conference
Chattanooga, TN
May 17-20, 2004

The background of the slide is a solid blue color. In the lower right quadrant, there are several concentric white circles of varying sizes, resembling ripples on water. These ripples are centered around the text of the second block.

CBWM Projects



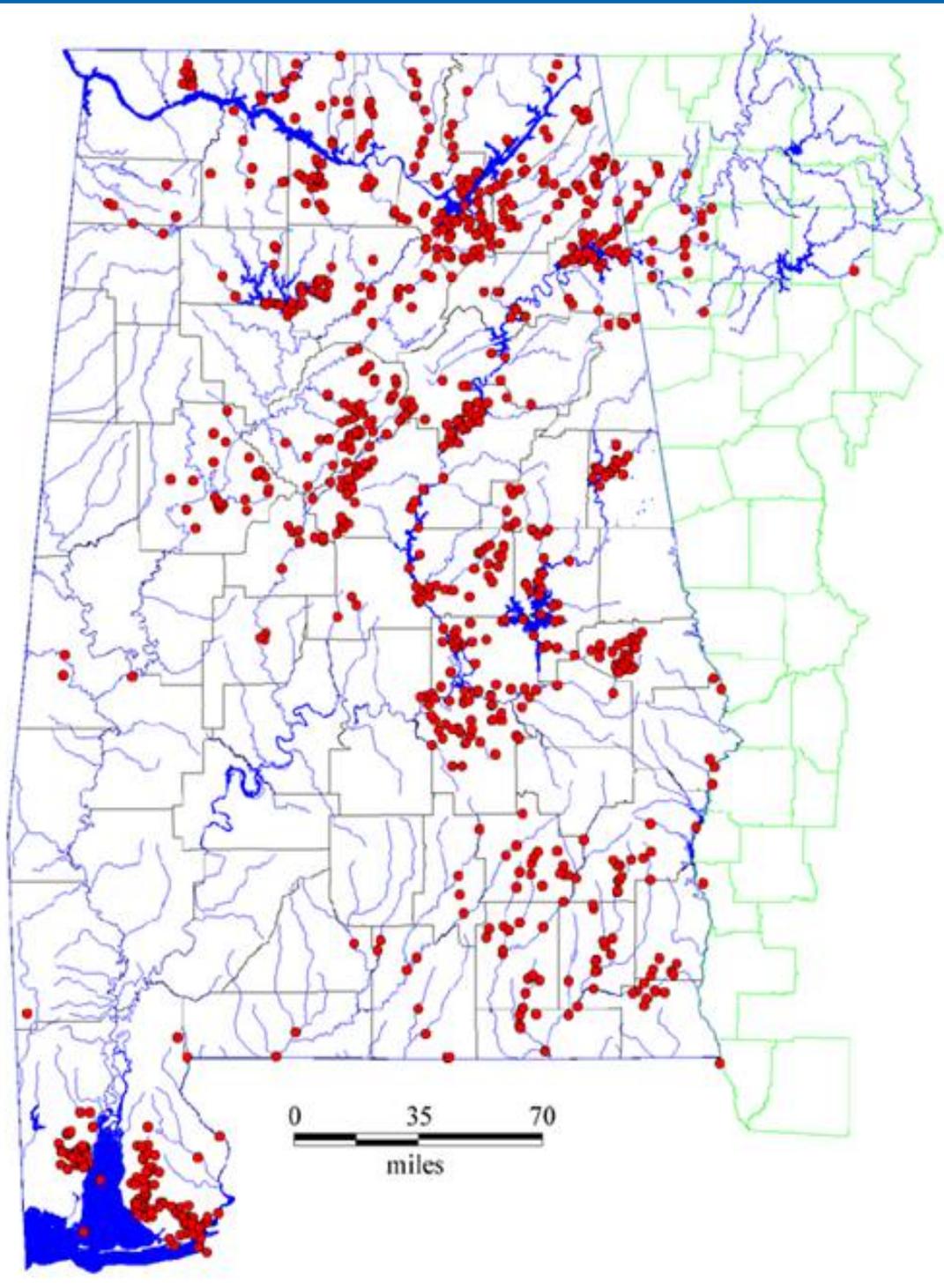
A photograph of a forest stream with trees reflected in the water. The scene is a dense forest with a narrow stream flowing through it. The water is calm, creating a clear reflection of the surrounding trees and foliage. The lighting is soft, suggesting a dappled sunlight filtering through the canopy. The overall mood is serene and natural.

ALABAMA WATER WATCH



AWW Workshops





Cumulative 1993 - 2003

200 Citizen Groups

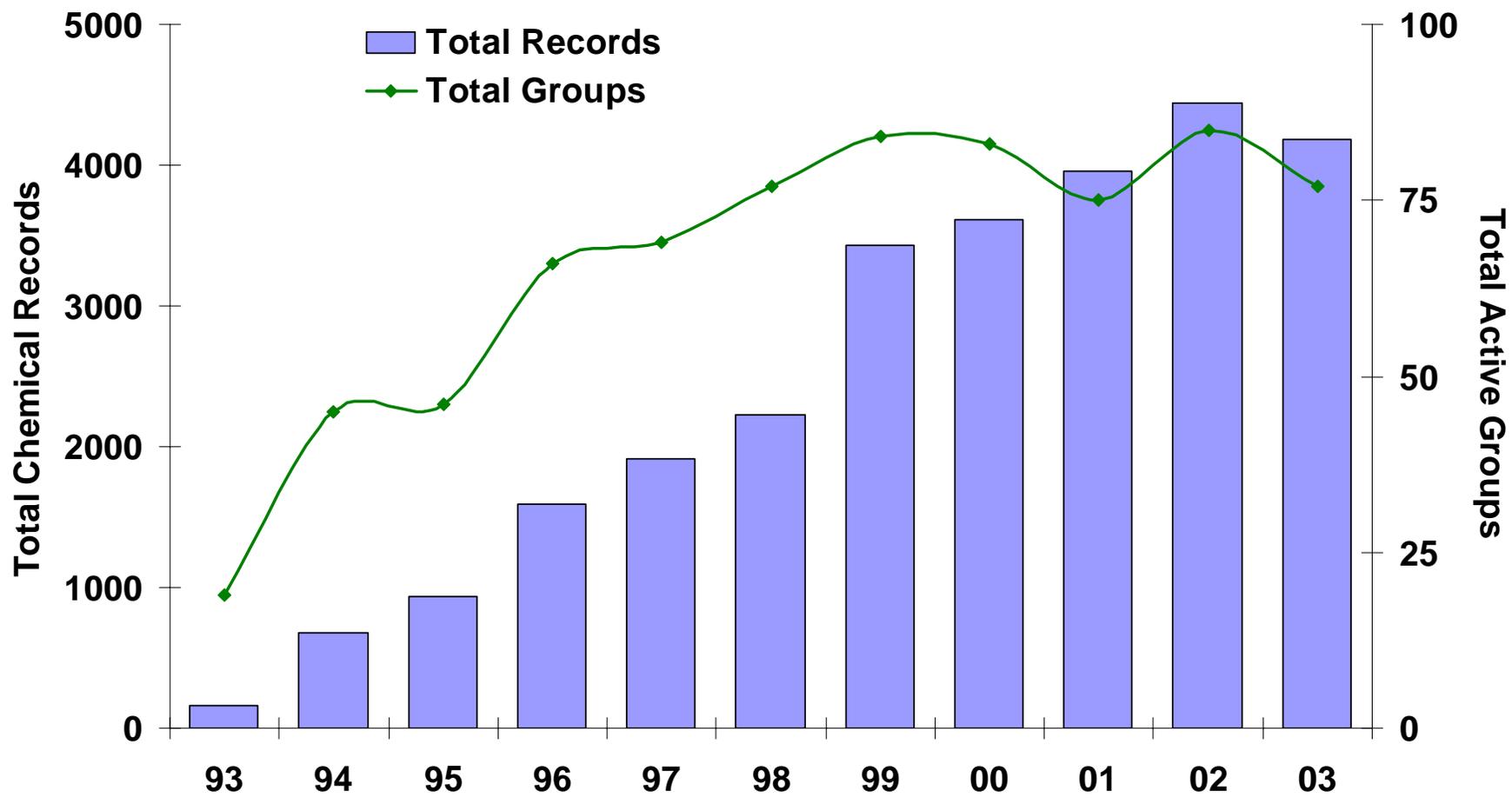
4,000 Certified Monitors

1,600 Sites

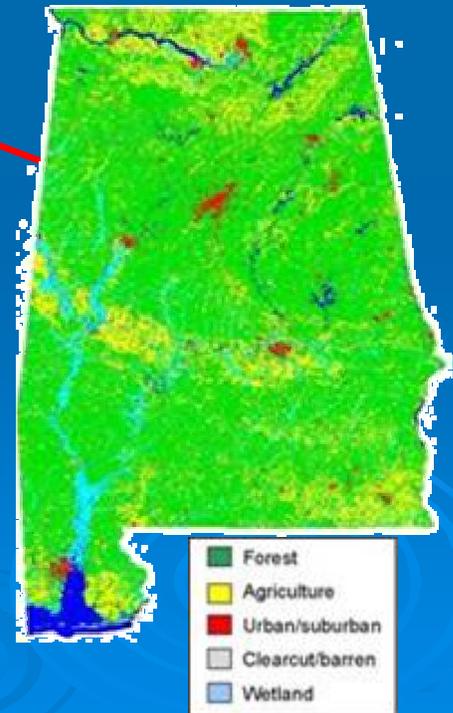
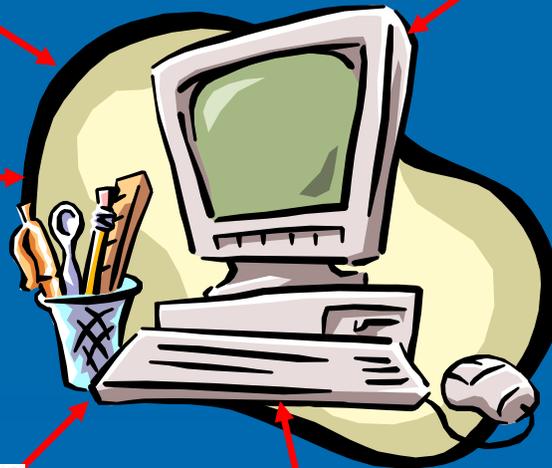
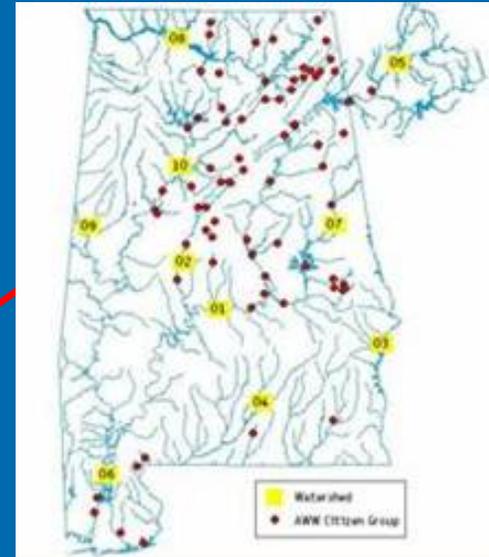
580 Waterbodies

150,000 Measurements

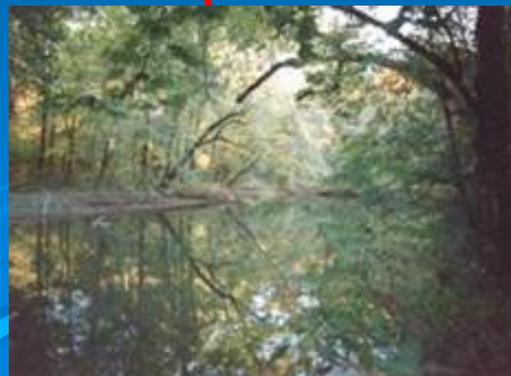
35 Active Citizen Trainers

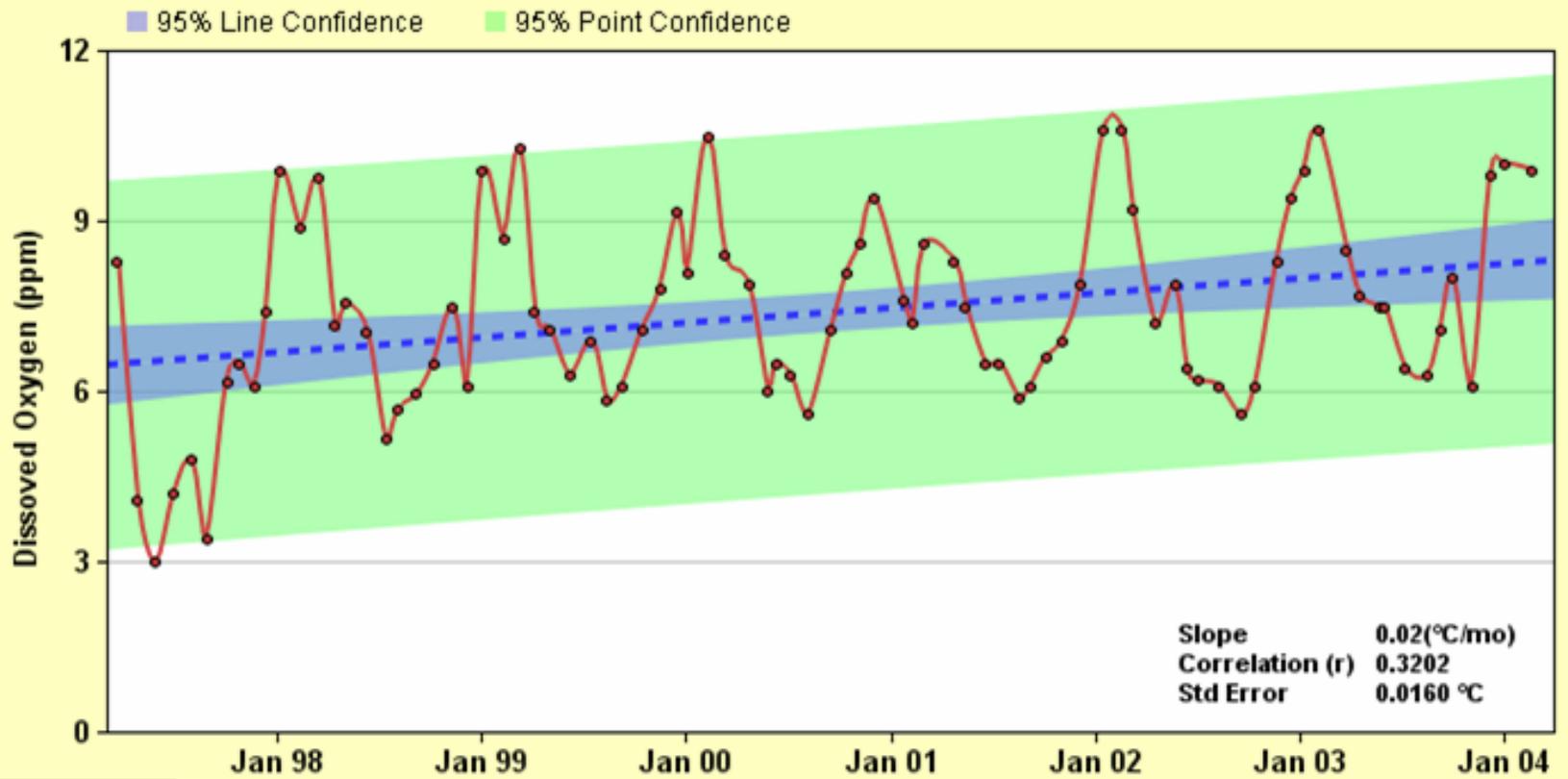


The AWW Database



Record #	Citizen's I	Month	Day	Year	Sex	AWW No Code	Watershed	Water Temp	pH
01-0001	Greeningham, Dale	7	2001	1200		04210006	Carroll		
01-0002	Hughes, Jeff	8	2001	1220		04011001	Tennessee		
01-0003	Hughes, Jeff	8	2001	1220		04011001	Tennessee		
01-0004	Straggins, Ian	8	2001	0819		04010006	Carroll		
01-0005	Gemmons, Calvin R	4	2001	0315		04010001	Carroll		
01-0006	Gemmons, Calvin R	4	2001	0415		04010002	Carroll		
01-0007	Wentworth, Valerie	3	2001	0220		04000002	Walker		
01-0008	Smith, Mary Lee	8	2001	0315		07140006	Tennessee	7.3	8.0
01-0009	Smith, Mary Lee	8	2001	0420		07140007	Tennessee	7.3	8.0
01-0010	Smith, Mary Lee	8	2001	0330		07140008	Tennessee	7.3	8.0
01-0011	Davis, Lee	7	2001	1140		07000004	Tennessee		
01-0012	Davis, James T	16	2001	0420		04010004	Carroll	8.3	8.0
01-0013	Wade, David	8	2001	0300		05011017	Tennessee		
01-0014	Wade, David	16	2001	0445		04010004	Walker	8.0	8.0
01-0015	Wade, James	16	2001	0318		04010001	Walker	8.0	8.0
01-0016	Hong, Jim T	14	2001	0430		07017004	Tennessee		
01-0017	Wentworth, Nancy	14	2001	0420		04047004	Tennessee	7.5	8.0
01-0018	Gatlin, Andrew	8	2001	0341		04017004	Carroll	7.5	7.5
01-0019	Davis, Steven	8	2001	0115		04017001	Carroll	7.5	7.5
01-0020	Dunbar, Bill	13	2001	0115		07010001	Tennessee	7.5	7.5
01-0021	Wentworth, David	23	2001	0226		07011002	Tennessee	7.5	7.5
01-0022	Mal, Ed	16	2001	0430		04044001	Tennessee		
01-0023	Mal, Ed	16	2001	0915		04044002	Tennessee		
01-0024	Hughes, Jeff	20	2001	1120		07000002	Tennessee		
01-0025	Hughes, Jeff	20	2001	1120		07000003	Tennessee		
01-0026	Allen, Jack	24	2001	0800		07004001	Tennessee	8.0	8.0
01-0027	Straggins, Ian	26	2001	0119		07016003	Tennessee	8.0	8.0
01-0028	Om-Rudgers, Betty	13	2001	0410		02027001	Carroll	7.1	8.0
01-0029	Om-Rudgers, Betty	14	2001	0230		02027002	Carroll	7.1	8.0
01-0030	Om-Rudgers, Betty	14	2001	0230		02027003	Carroll	7.1	8.0
01-0031	Om-Rudgers, Betty	14	2001	0340		02027004	Carroll	7.1	8.0
01-0032	Om-Rudgers, Betty	14	2001	0430		02027005	Carroll	7.1	8.0
01-0033	Om-Rudgers, Betty	14	2001	0410		02027006	Carroll	7.1	8.0
01-0034	Seaver, Don	18	2001	0300		04012001	Carroll	8.0	8.0





Oxygen at site 07011002 in Lee County, AL
 Saugahatchee Creek (Tallapoosa Watershed) 84 samples
 Latitude: 32.6425 N, Longitude: -85.50413 W Hydrologic Unit Code (HUC11): 03150110030



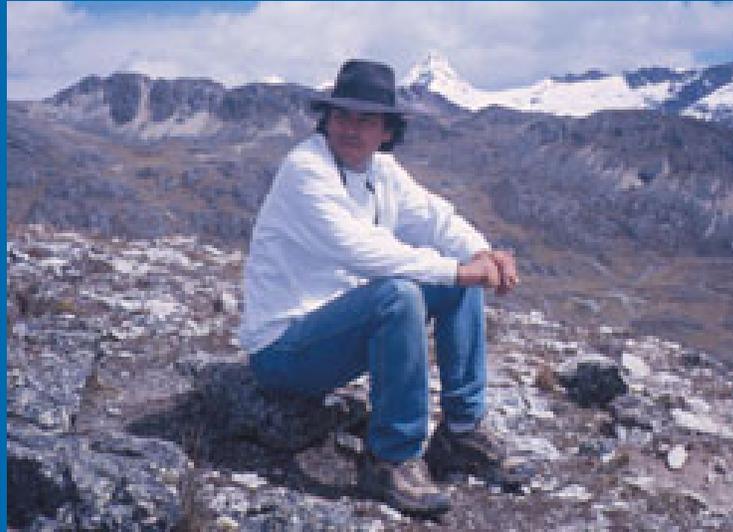
International Projects in CBWM



Philippines



Ecuador



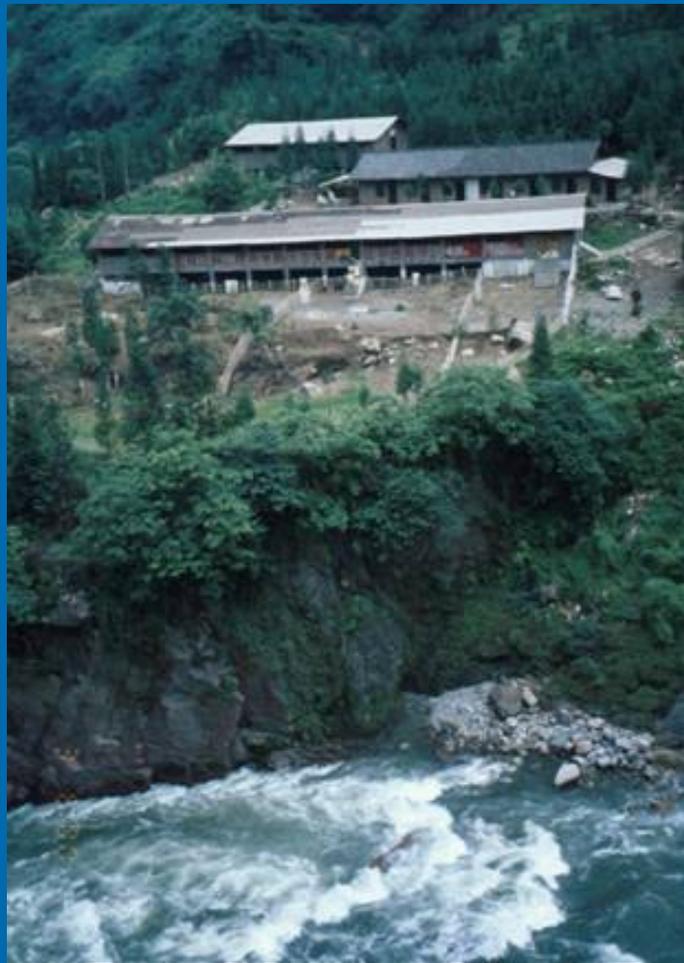
Brazil



Thailand



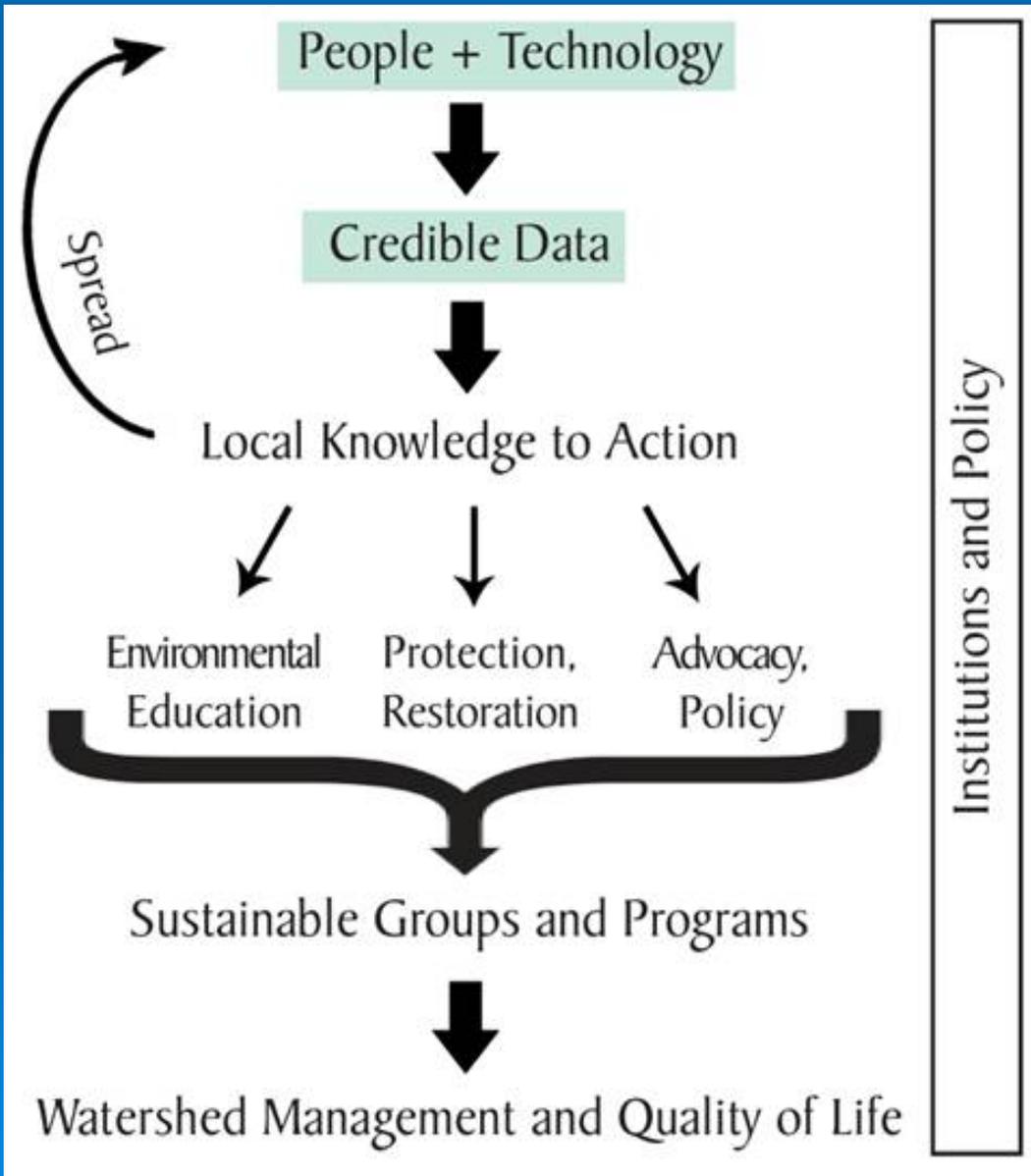
China



Sampling Parameters

	Water Chemistry	<u>E. coli</u> and Coliform Bacteria	Stream Bioassessment	Total Suspended Solids	Stream Discharge
Alabama	💧	💧	💧		
Philippines	💧	💧	💧	💧	💧
Ecuador	💧	💧			
Brazil	💧	💧			
Thailand	💧	💧		💧	

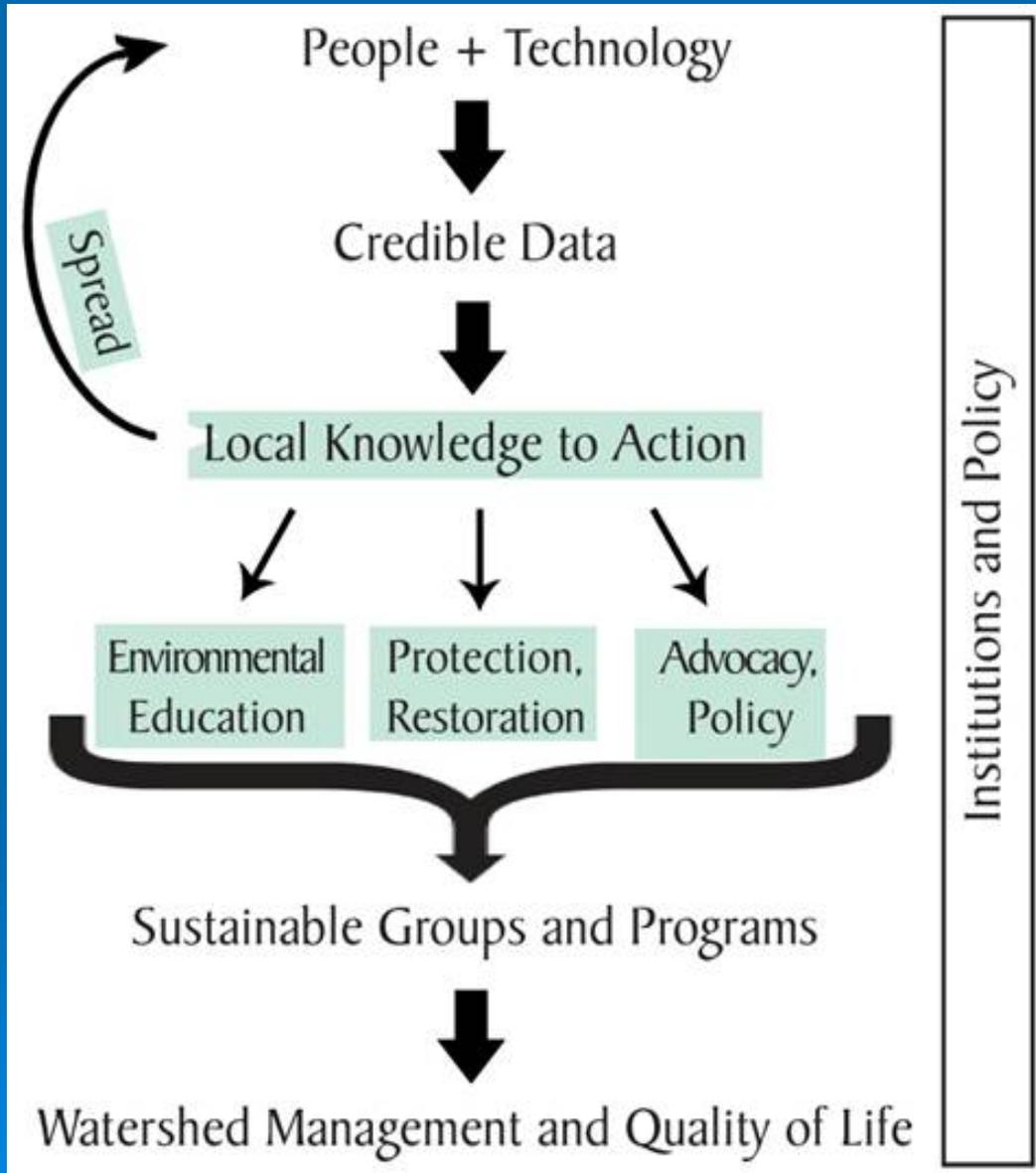
CBWM - Part I



Lessons Learned

- *A successful CBWM program requires much more than technology transfer of test kits.*
- *Building trust and capacity are essential complements to technical training.*

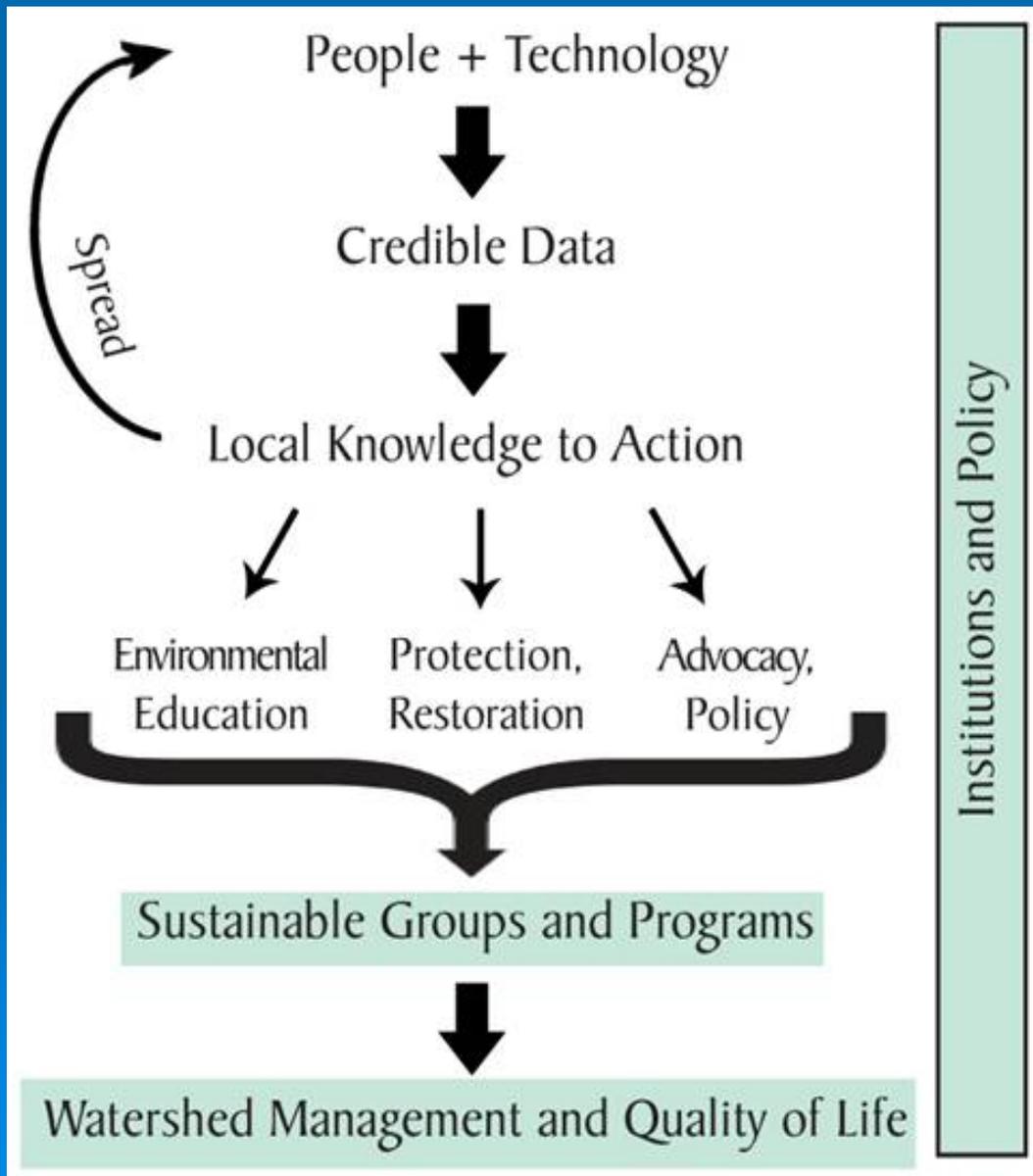
CBWM - Part II



Lessons Learned

- *Community groups with relatively little formal education can understand the basics of complex watershed processes.*
- *Spread of CBWM programs cannot be orchestrated or forced, and is sometimes impossible regardless of effort and incentives.*

CBWM - Part III



Lessons Learned

- *It is important to have a general understanding of existing institutions that may support or oppose a CBWM effort.*
- *There is no precise formula for a successful CBWM group.*

GLOBAL WATER WATCH

A worldwide network of community-based water monitoring groups



Global
Water
Watch



Global
Water
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A worldwide network of community-based water monitoring groups

[Who We Are](#) [What We Do](#) [Where We Work](#) [Partnerships](#)

Global Water Watch

There is a growing interest among community groups to participate in watershed management and become personally involved in water monitoring. Global Water Watch (GWW) provides a support network for groups who agree to use standardized monitoring techniques that are accurate yet relatively simple and inexpensive.

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Thailand, Southeast Asia

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Counter goes here

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