







COLLEGE OF AGRICULTURE & LIFE SCIENCES

# What is a Stakeholder?

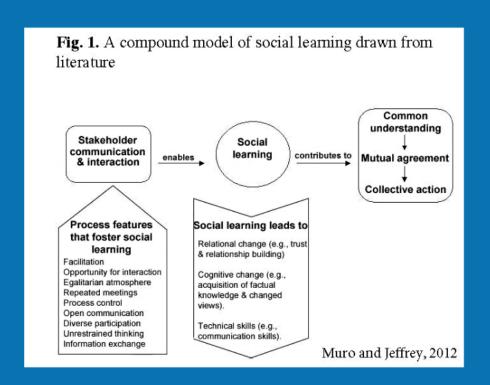
- Person or group who has a "stake" in the outcome
- Different process design concerns for different stakeholders

**Public** 

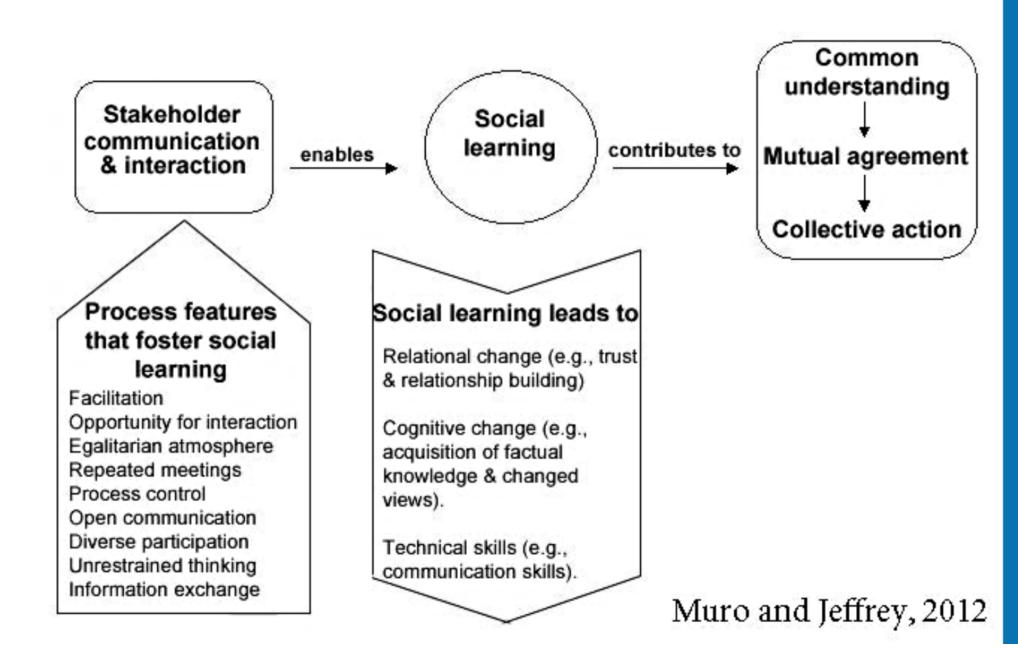
**Expert** 

# Why Engage?

- Impact or influence on decisions
- Social license
- Social learning



**Fig. 1.** A compound model of social learning drawn from literature



# What is Process Design?

- Steps in engagement process
- Many different variations with common themes
  - Set a goal
  - Understand stakeholders
  - Think about engagement aka Plan
  - Engage!
  - Implement
  - Evaluate







## **Methods - General Project Process**

 Projects were not designed to study effective process design. Rather framework is result of lessons learned and drawing from engagement literature.

Problem and Goal

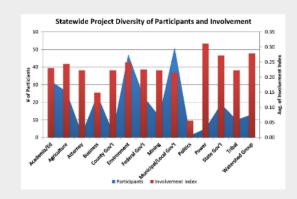
Steering Committee

**Engagement Activities** 

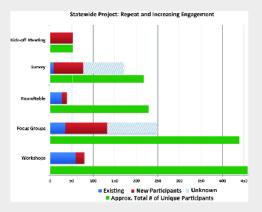
**Action Items** 

## How can we measure effectiveness?

 Inclusiveness - How good is the process at including a broad array of interests?



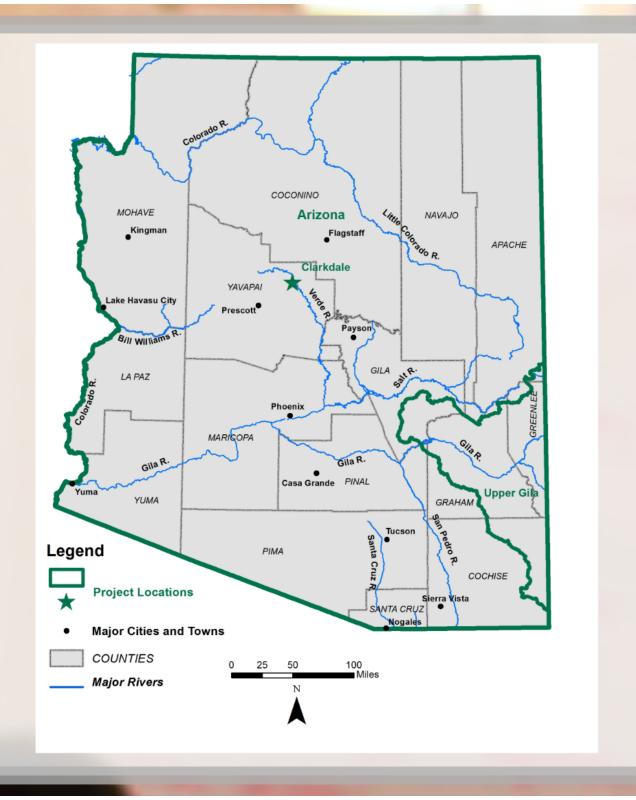
 Interactiveness - Does the process use multiple avenues for engagement and are stakeholders engaging repeatedly?



 Flexibility - Does the process adapt to changing conditions and stakeholder concerns?

Low Flexibility: Project Implemented as Originally Proposed

High Flexibility: Project Adapted Throughout Based on Stakeholder Feedback

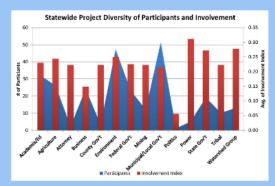


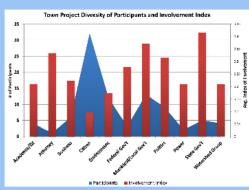


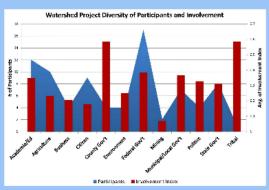


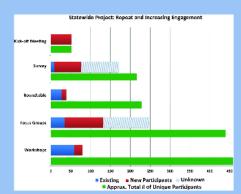


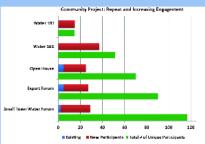


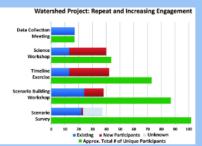














# Connecting the Environment to Arizona Water Planning



- 3-year project
- Statewide scope
- Over 1,000 participants
- Roadmap for considering water for the environment in water planning and management



## Gila River Participatory Watershed Assessment

Upper Sha Rece Shateshed Study Print

- 2-year project
- Southeastern Arizona ~15,000 sq. mile watershed
- Rural Population 45,000
- 100 participants
- Baseline assessment of watershed resources
- Scenario planning for the future of the watershed



## Town of Clarkdale Water Resources Management Program



- Town of 4,000 people
- Along Verde River in Central Arizona
- 115 participants
- Funding to create recommendations for water management program that protects the river and encourages economic vitality

#### Problem and Goal



Clarkdale provides a water resources management program that meets the needs of residents, businesses and our natural environment equitably in order to be a robust and resilient community.



low do we:

provide reliable long-term water supplies for a resilient community.

preserve the rural, agricultural life style, sustain and phance the health of the Upper Gila Watershed in the face of uncertain physically and legally positions under supplier.



Identify voluntary, stakeholder driven options for addressing water needs of natural areas.

#### Steering Committee

EnWaP Project	Gila Project	Clarkdale Project
State agency	State agencies	State agency
Microcopal water utility	Memorpal water utilities	Minnerpal water multy
Agriculture	Agriculture	Water resources engineer
Tribal	Tribal	Water conservation appointed
Rederal agency	Federal agencies	Water-energy nexts special at
Cooperative Extension	Watershee pertnership	Water attorney
Mining	Counties	
Engligemental Non-		
Covernmental Organization		

#### **Engagement Activities**



- water 101, water 102, and Public Ope
   House
- Expert Meeting and Small Town Water



- Science Coordination Workshop and Shared History Timeline Exercise
- Scenario Planning Workshop



- Presentations (37 over 1 year
- Survey
- Roundtable Assess Barriers
- Focus Group Understand Perspective

### **Action Items**



- 7 action items
- Long term: take a regional approach to water management through formal cooperation with other jurisdictions.
   Short term: Develop a comprehensive water loss control program and identity optimal use of high quality reclaimed water.



- 1 action item

scenarios to develop coordinated water and land agement plans across jurisdictions for the watershed.



10 action items

 Long term: Set priorities for water for the environment through a localized process to promote cooperation and collaboration.

Short term: Conduct a statewide survey to assess and rank public values for water and natural areas.

# Problem and Goal



Clarkdale provides a water resources management program that meets the needs of residents, businesses and our natural environment equitably in order to be a robust and resilient community.



#### How do we:

- provide reliable long-term water supplies for a resilient community,
- preserve the rural, agricultural life style, sustain and enhance the health of the Upper Gila Watershed
- in the face of uncertain physically and legally available water supplies.



Identify voluntary, stakeholderdriven options for addressing water needs of natural areas.

# Steering Committee

EnWaP Project	Gila Project	Clarkdale Project
State agency	State agencies	State agency
Municipal water utility	Municipal water utilities	Municipal water utility
Agriculture	Agriculture	Water resources engineer
Tribal	Tribal	Water conservation specialist
Federal agency	Federal agencies	Water-energy nexus specialist
Cooperative Extension	Watershed partnership	Water attorney
Mining	Counties	
Environmental Non-		
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# **Engagement Activities**



- Water 101, Water 102, and Public Open House
- Expert Meeting and Small Town Water Forum



- Science Coordination Workshop and Shared History Timeline Exercise
- Scenario Planning Workshop



- Presentations (37 over 1 year)
- Survey
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## rs Perspectives

# Action Items



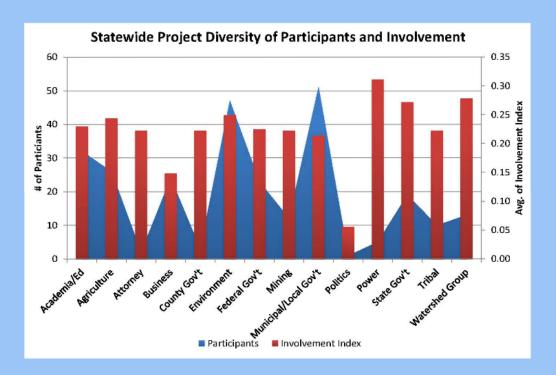
- 7 action items
- Long term: Take a regional approach to water management through formal cooperation with other jurisdictions.
- Short term: Develop a comprehensive water loss control program and identify optimal use of high quality reclaimed water.

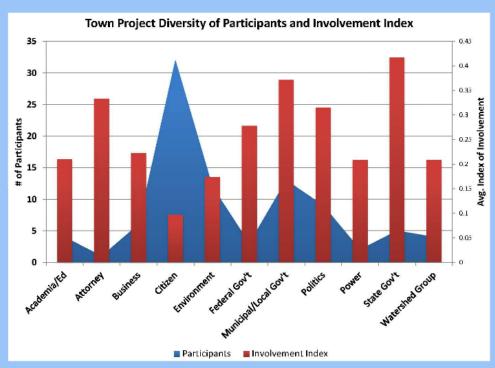


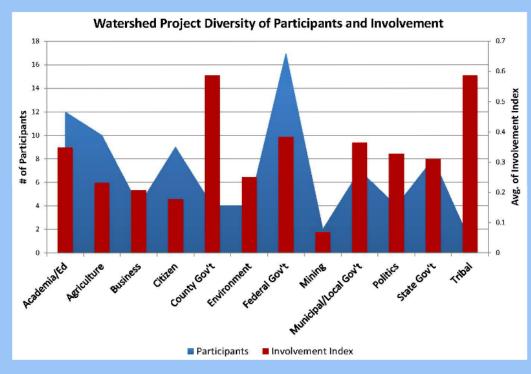
- 1 action item
- Use scenarios to develop coordinated water and land management plans across jurisdictions for the watershed.



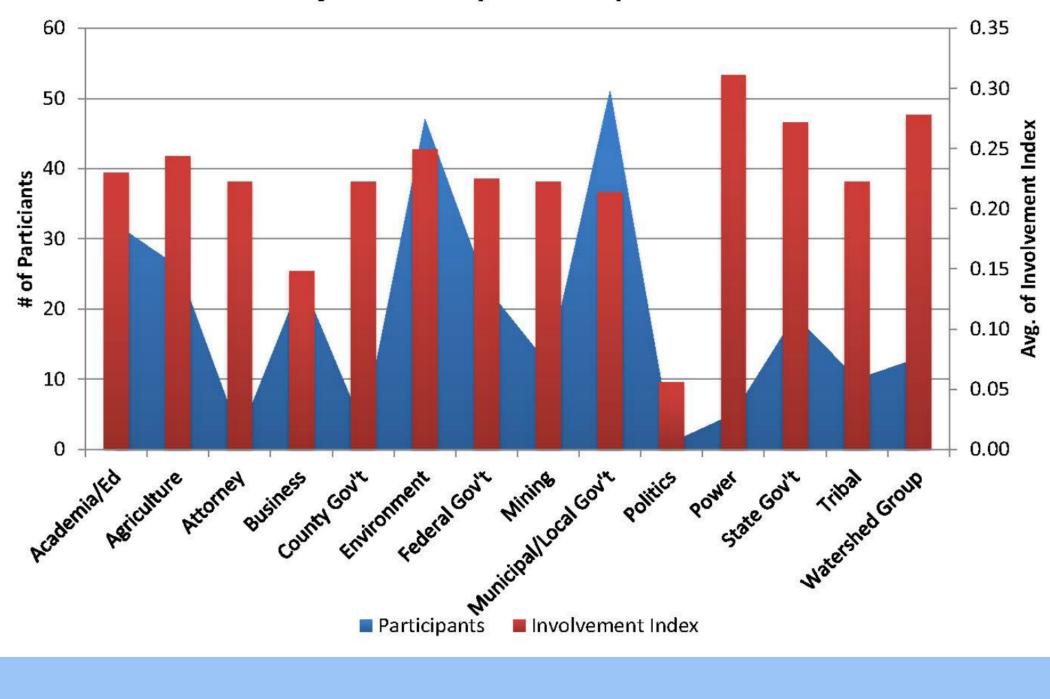
- 10 action items
- Long term: Set priorities for water for the environment through a localized process to promote cooperation and collaboration.
- Short term: Conduct a statewide survey to assess and rank public values for water and natural areas.



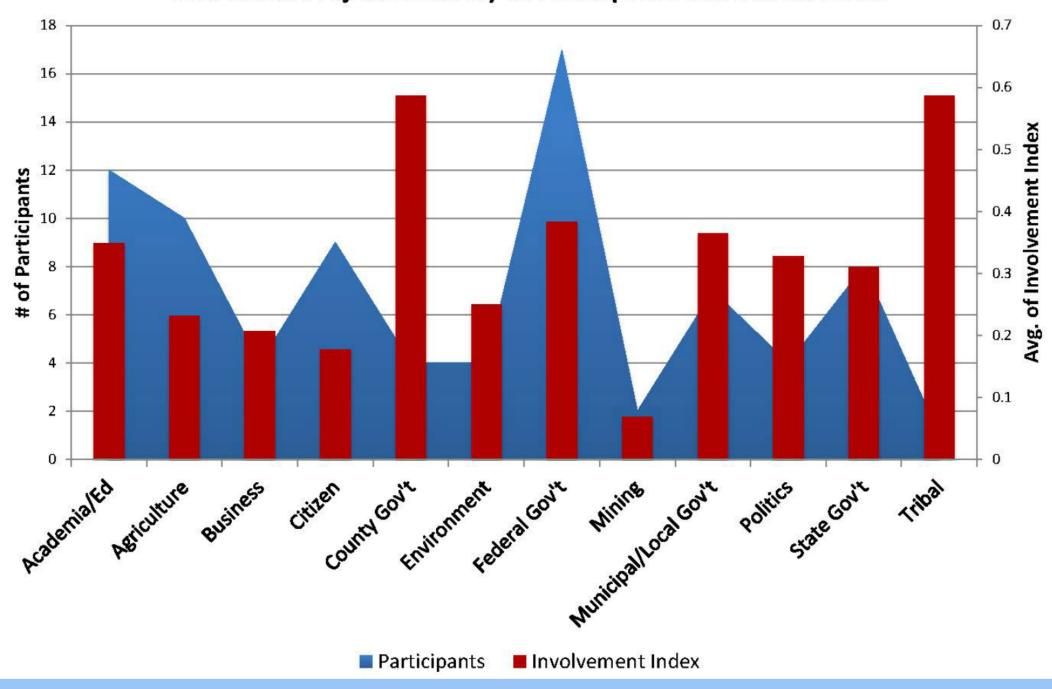




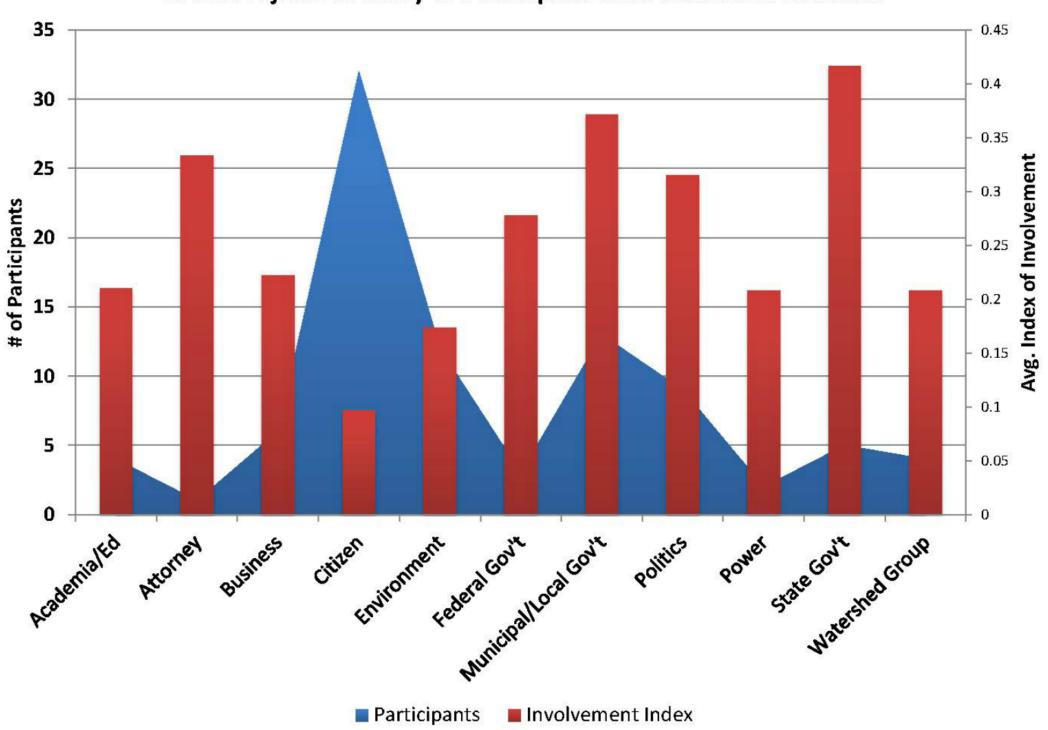
### Statewide Project Diversity of Participants and Involvement

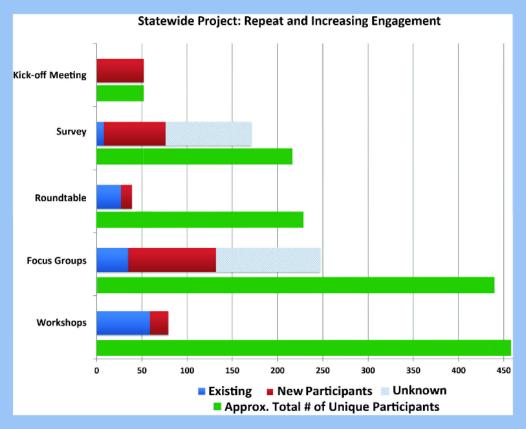


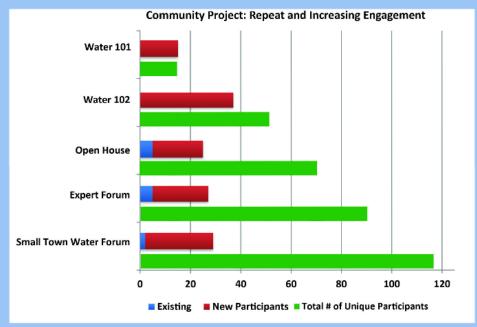
### **Watershed Project Diversity of Participants and Involvement**

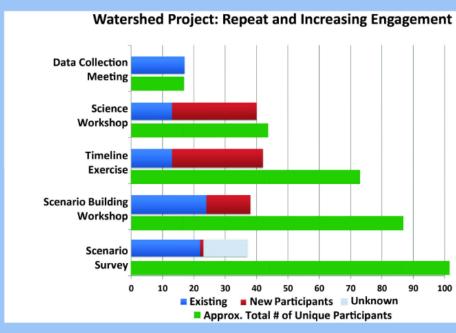


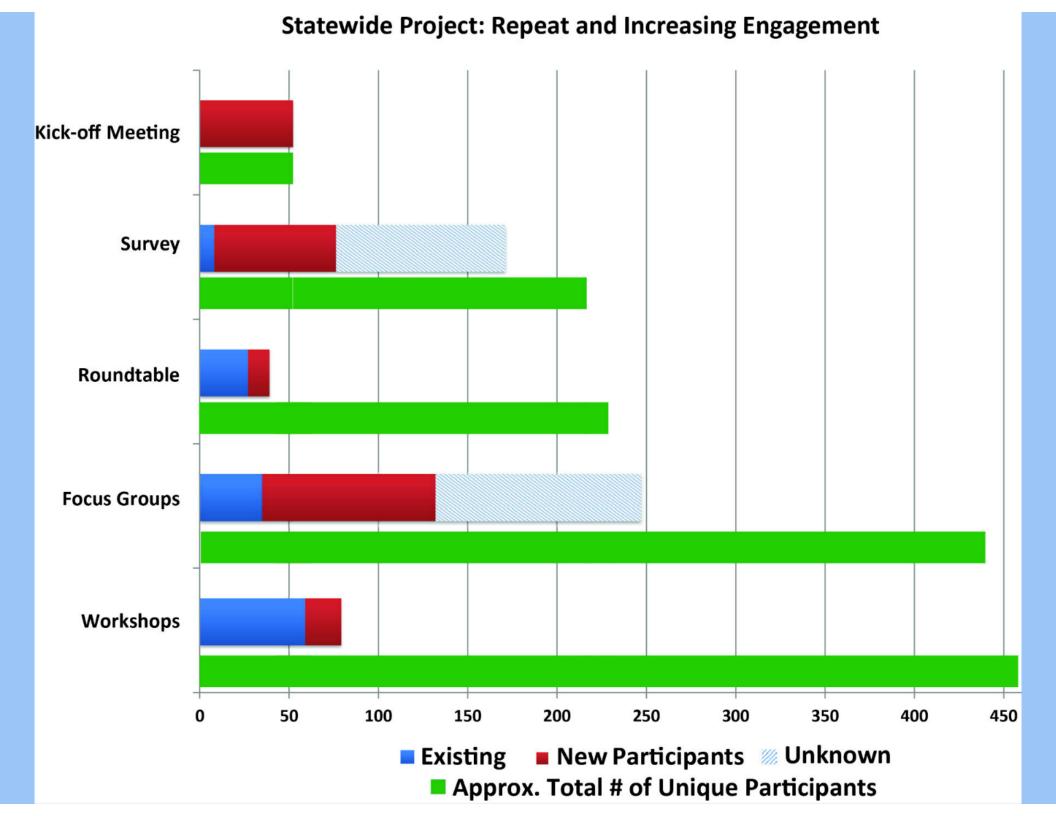
### **Town Project Diversity of Participants and Involvement Index**



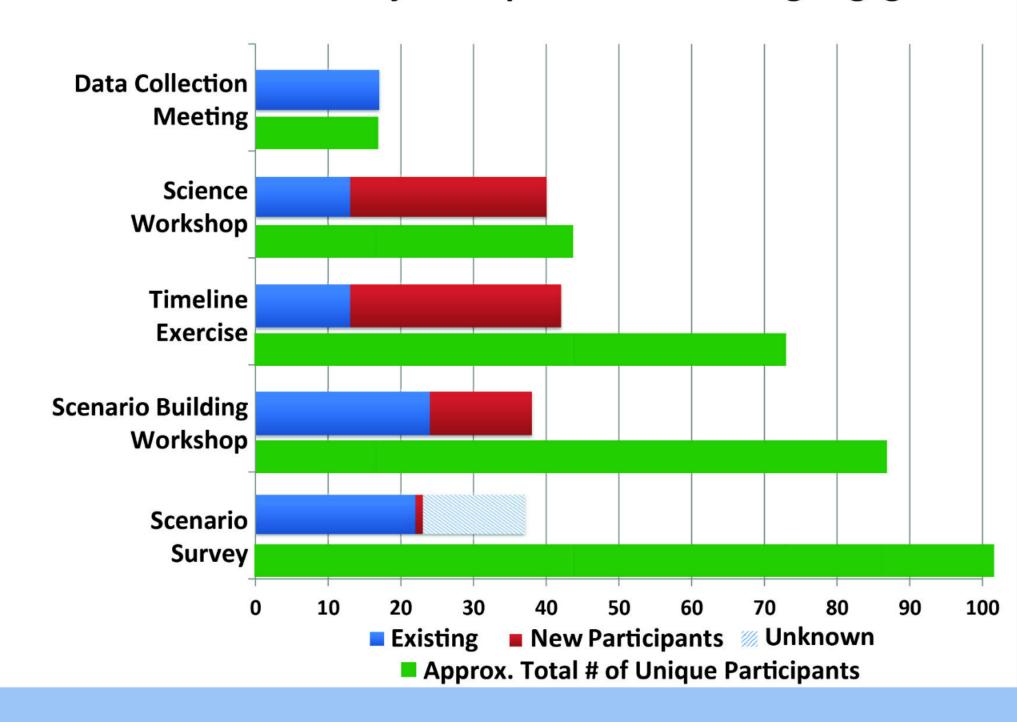




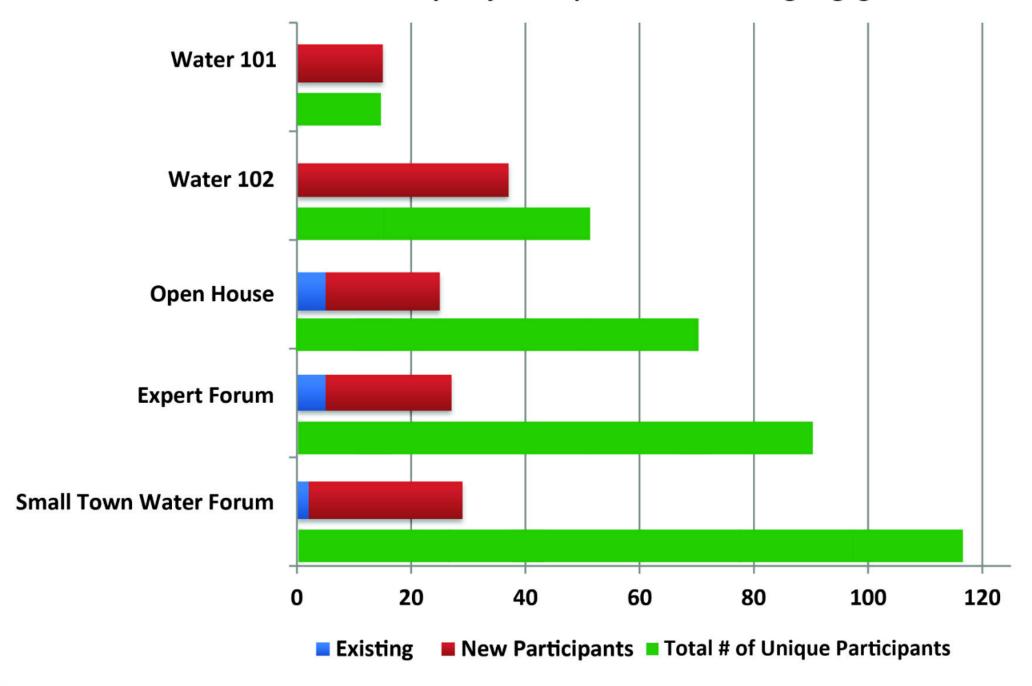


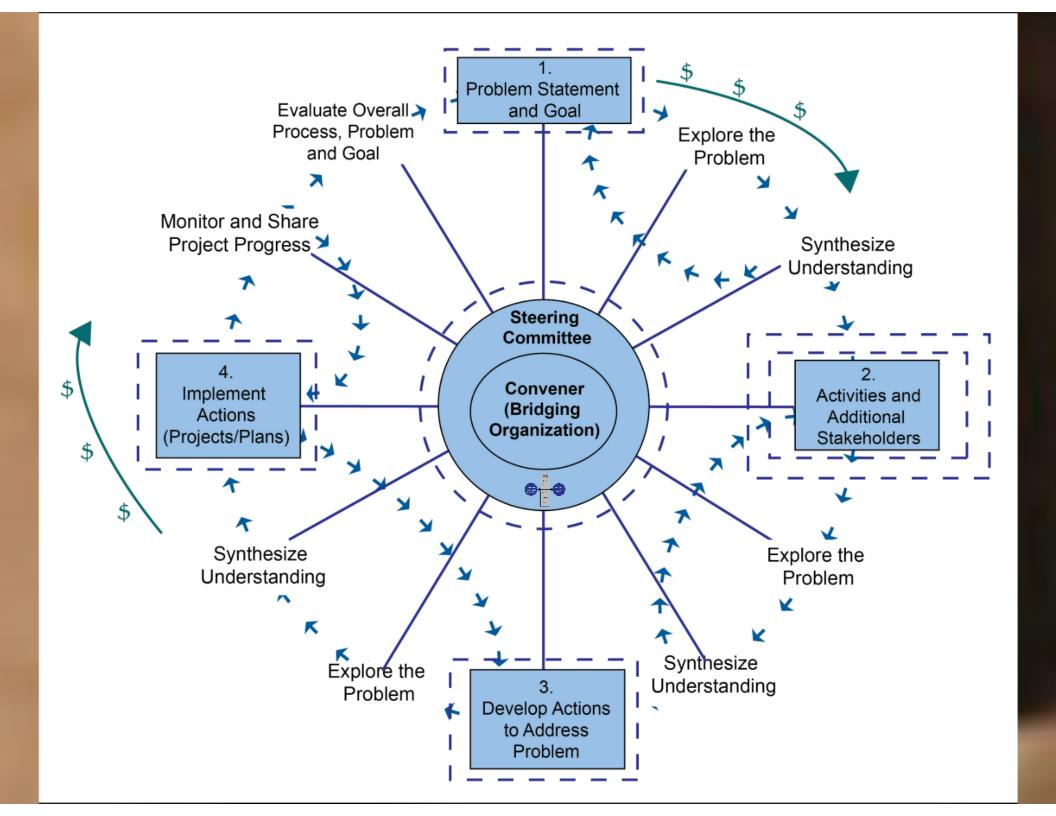


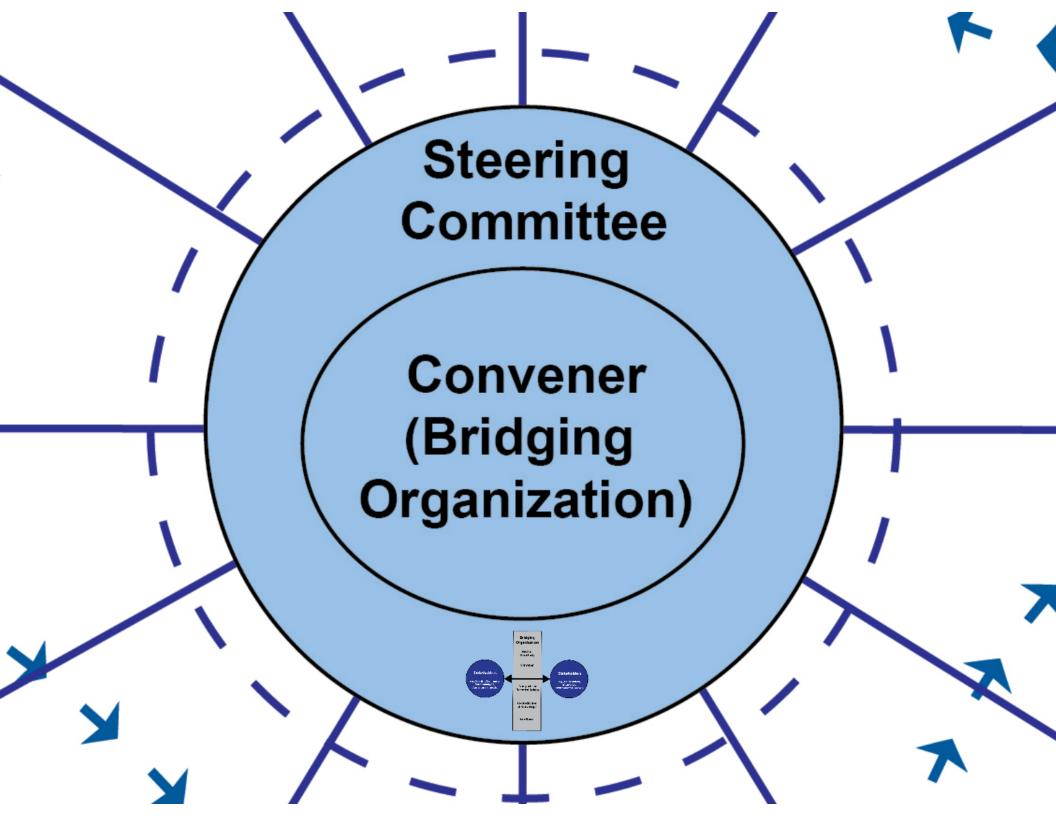
## Watershed Project: Repeat and Increasing Engagement



### **Community Project: Repeat and Increasing Engagement**







# Bridging Organization

Neutral Third Party

Convener

#### Non-partisan Technical Advice

Co-production of Knowledge

**Safe Space** 

### **Stakeholders**

e.g., Policy Makers, Water Users, Environmental Interests

### Stakeholders

e.g., Scientific Community, Water Managers, Agricultural Interests

