

City of Franklin

Integrated Water Resources Plan

February 22, 2010

Public Forum



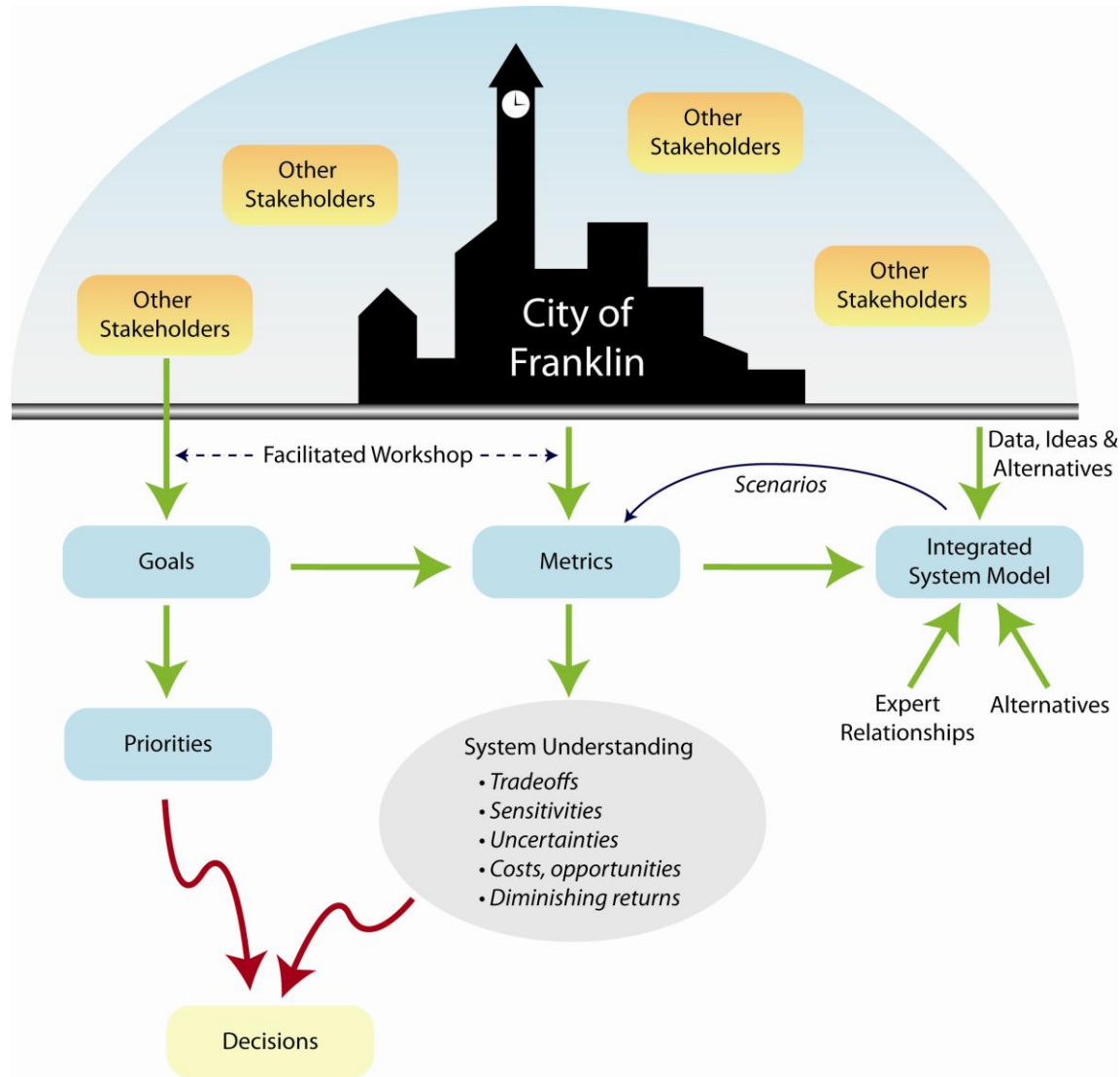
Meeting Agenda

- ◆ **Definition of Integrated Water Resource Planning (IWRP)**
- ◆ **Why does Franklin Need an IWRP?**
- ◆ **Regional Aspects of the IWRP**
- ◆ **Roles of the Stakeholders and Who They Are**
- ◆ **Overall Process Overview**
- ◆ **Draft Objectives from Workshop #1**
- ◆ **Question and Answer**

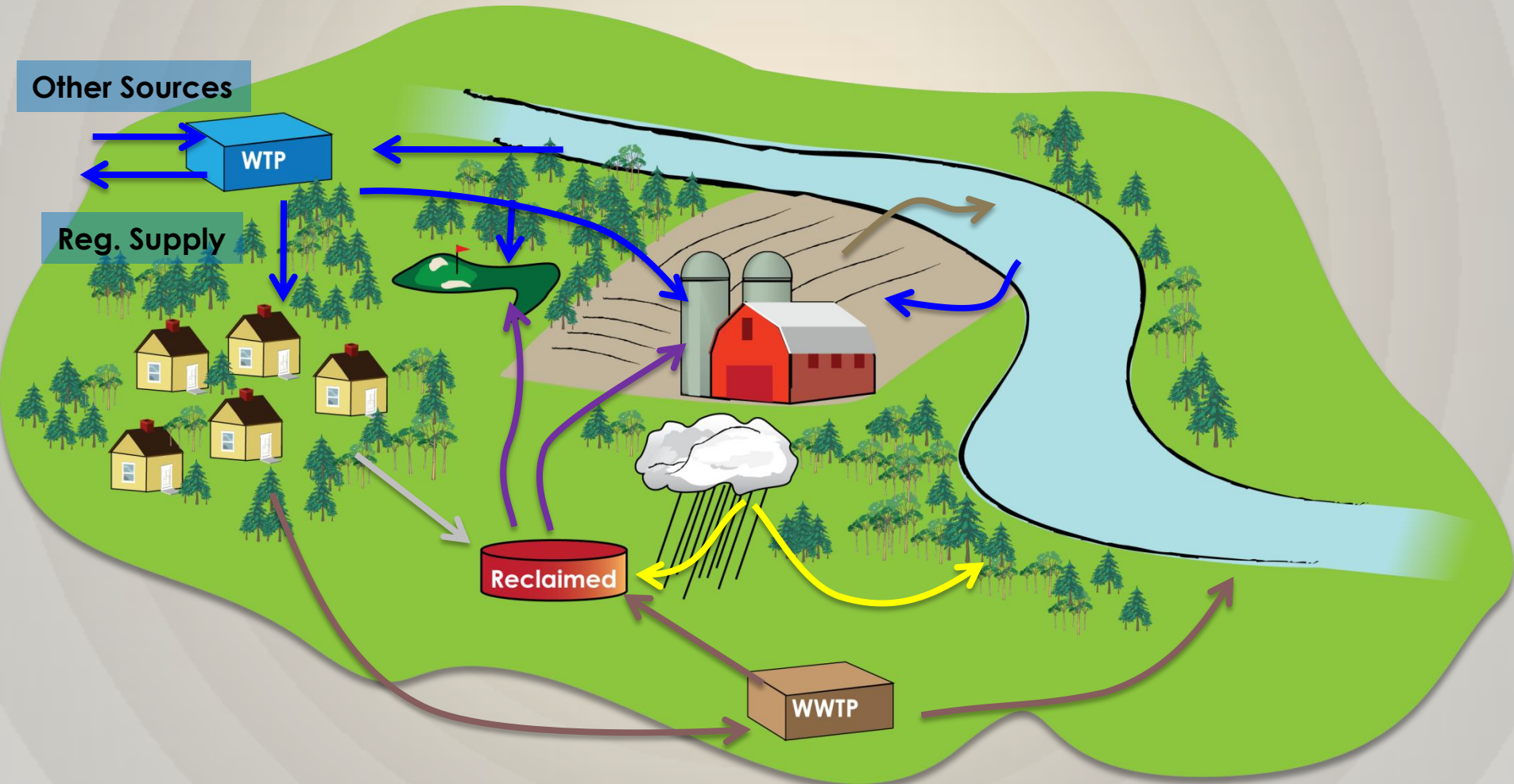
What is IWRP?

- ◆ Integration of:
 - Water resources and infrastructure
 - Different levels of government collaborating on decisions
 - Multiple interests and values of stakeholders
- ◆ Interactive workshops
- ◆ Technical analysis
- ◆ Decisions that are based on common goals

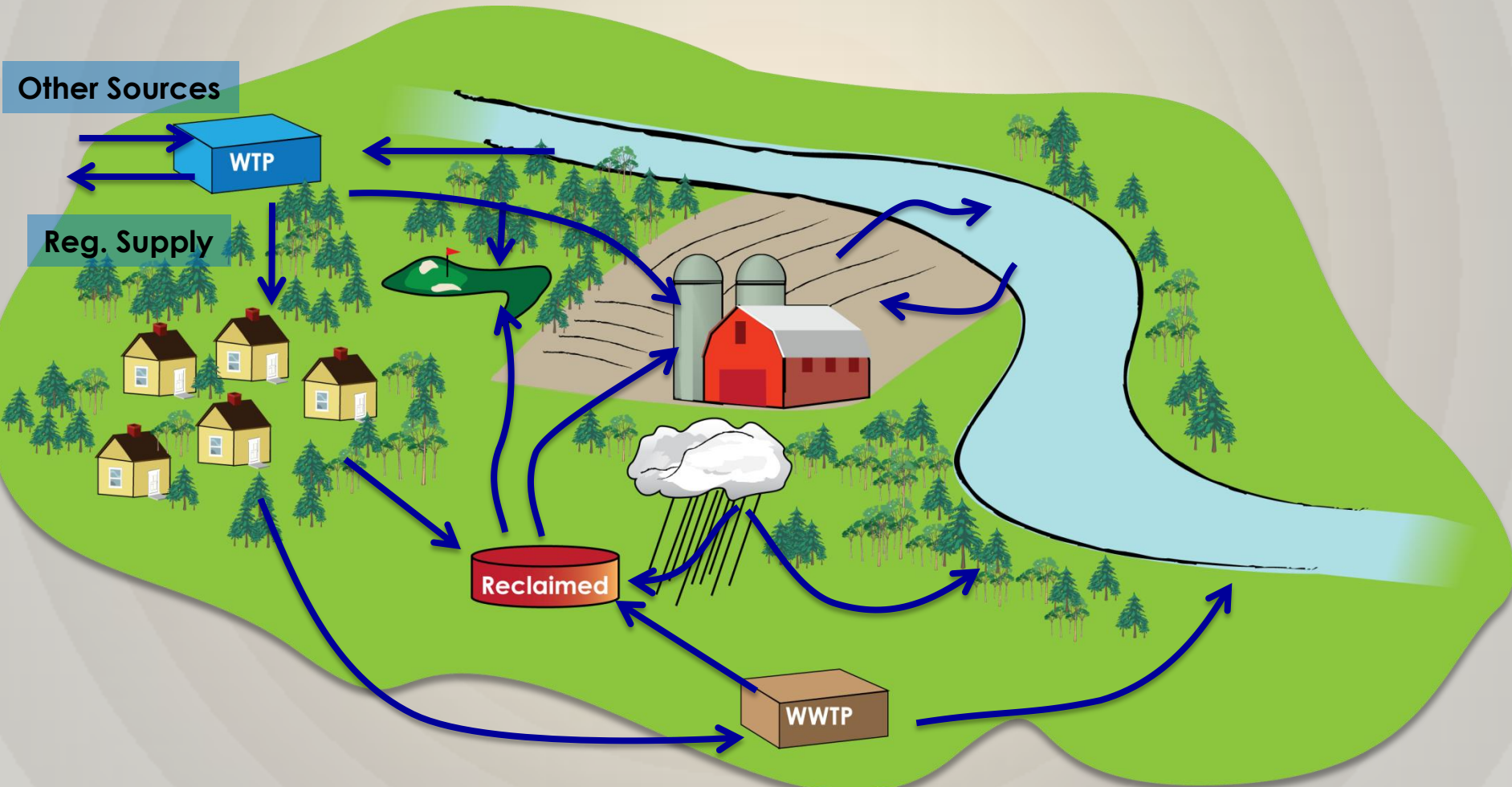
HOW Integrated Planning Works



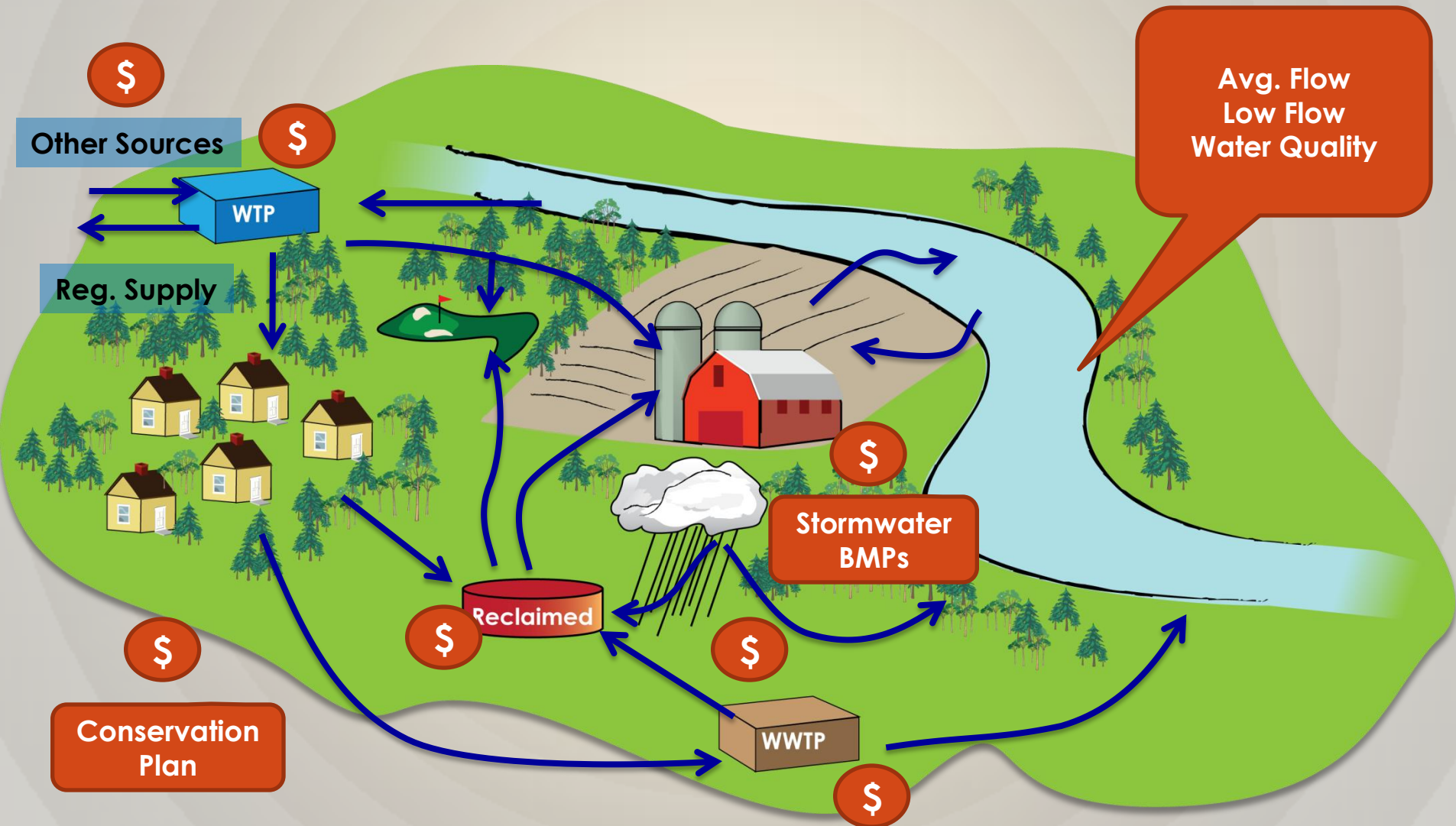
Understanding the Interconnected System



Understanding the Interconnected System



Understanding the Interconnected System



The Value of Integrated Planning

◆ Implementation:

- Because of broad stakeholder participation, IRPs are more broadly accepted and implementable.
- Broader set of interests can be addressed

◆ Cost Savings:

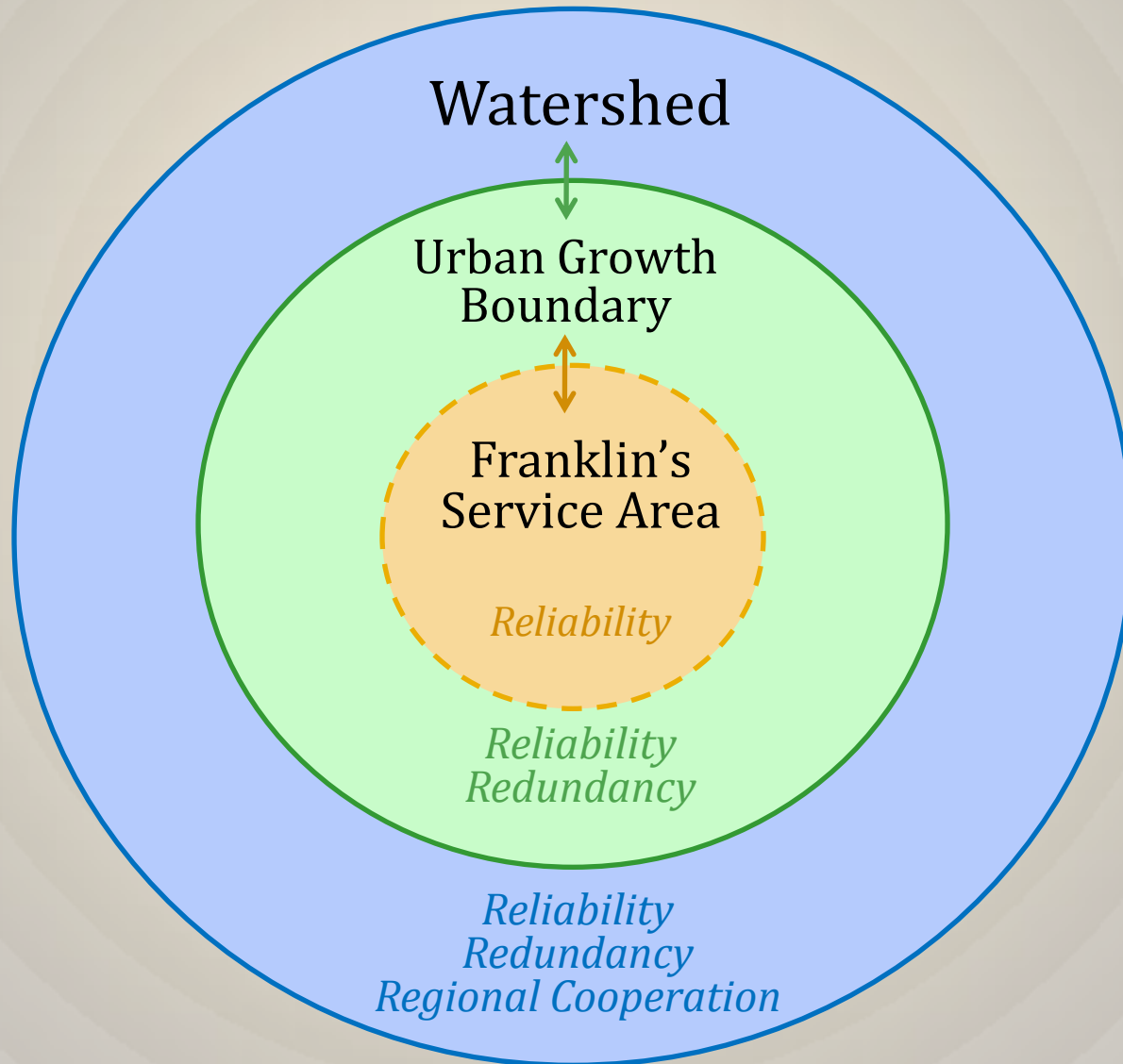
- Integrated alternatives **less than half the cost per family** compared with non-integrated plans.
- Integrated pollution abatement would yield **4 times the value** over traditional pollution controls (river improvements per dollar)
- **IRP saved equivalent of twice the annual operating budget** compared with non-integrated alternative

Why does Franklin need an IWRP?

- ◆ Population Growth
- ◆ Major infrastructure decisions to be made
- ◆ Individual utility plans all affect the river



Regional Aspects of the IWRP



Roles and Responsibility of Participants



Different Roles and Participants

◆ Steering Committee:

- **Between workshops:** Scope and process guidance
- **During workshops:** Answer questions, offer suggestions
- **After workshops:** Help distill information into recommendations to BOMA

◆ Stakeholder Advisory Group

- Participate in workshops
- Recommend to Steering Committee:
 - Objectives
 - Performance Measures
 - Alternatives
 - Preferred Plans

◆ Public Citizens

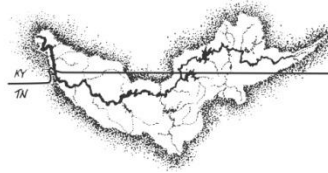
- Receive reports on project progress
- Provide ideas, information, values to Advisory Group



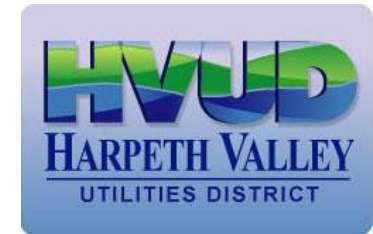
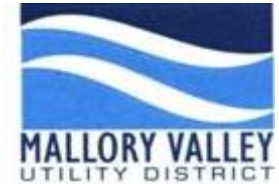
Steering Committee

- ◆ Dr. Ken Moore, Franklin Alderman
- ◆ Dr. Eugene LeBoeuf, Vanderbilt University
- ◆ Eric Stuckey, Franklin City Administrator
- ◆ David Parker, Franklin City Engineer
- ◆ Eric Gardner, Franklin Director of Engineering
- ◆ Mark Hilty, Franklin Director of Water and Sewer

Stakeholders Represent broad interests of Franklin and Beyond



Cumberland River Compact



Stakeholder Advisory Group

◆ Participate actively in workshops

- Define objectives and performance measures
- Help define alternatives
- Identify preferred plans

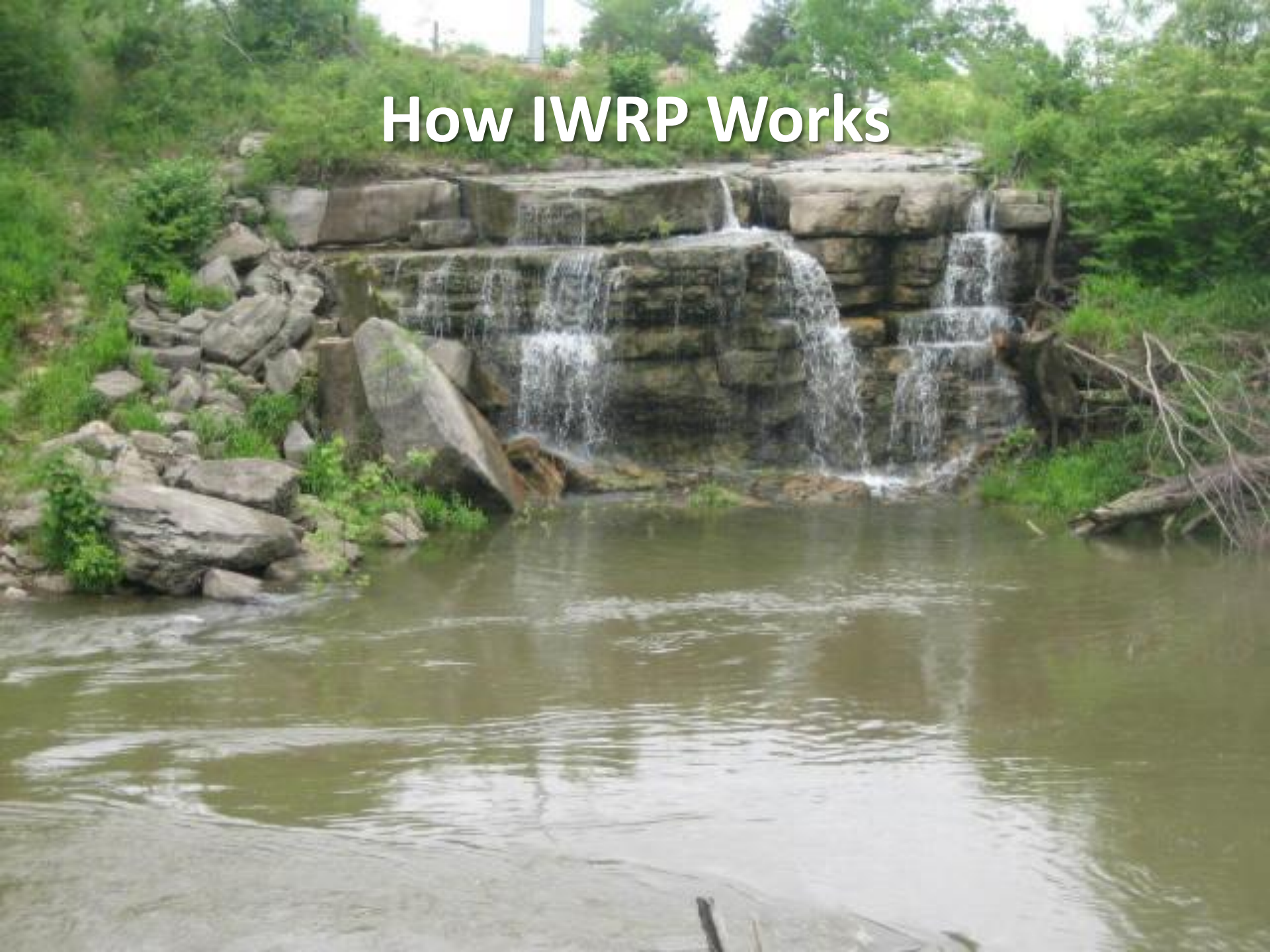
◆ As Individuals:

- Represent the interests and concerns of affiliated organization
- Act as ambassadors to the general public

◆ As a Group: address broad needs:

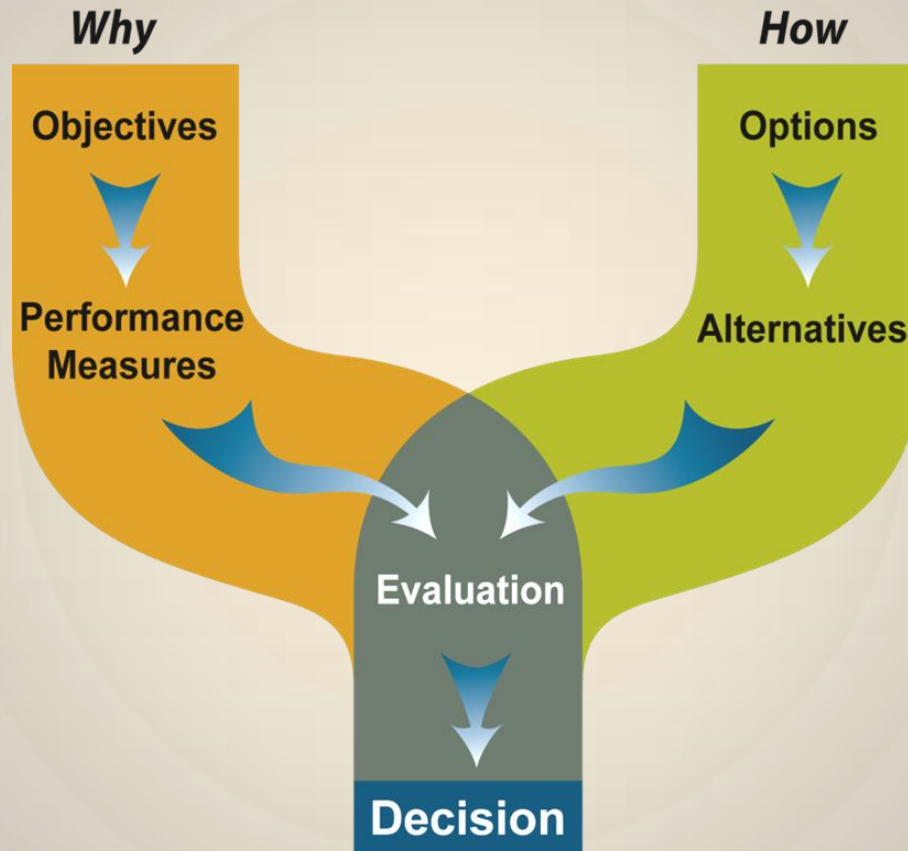
- City of Franklin
- Regional Water Resources

How IWRP Works



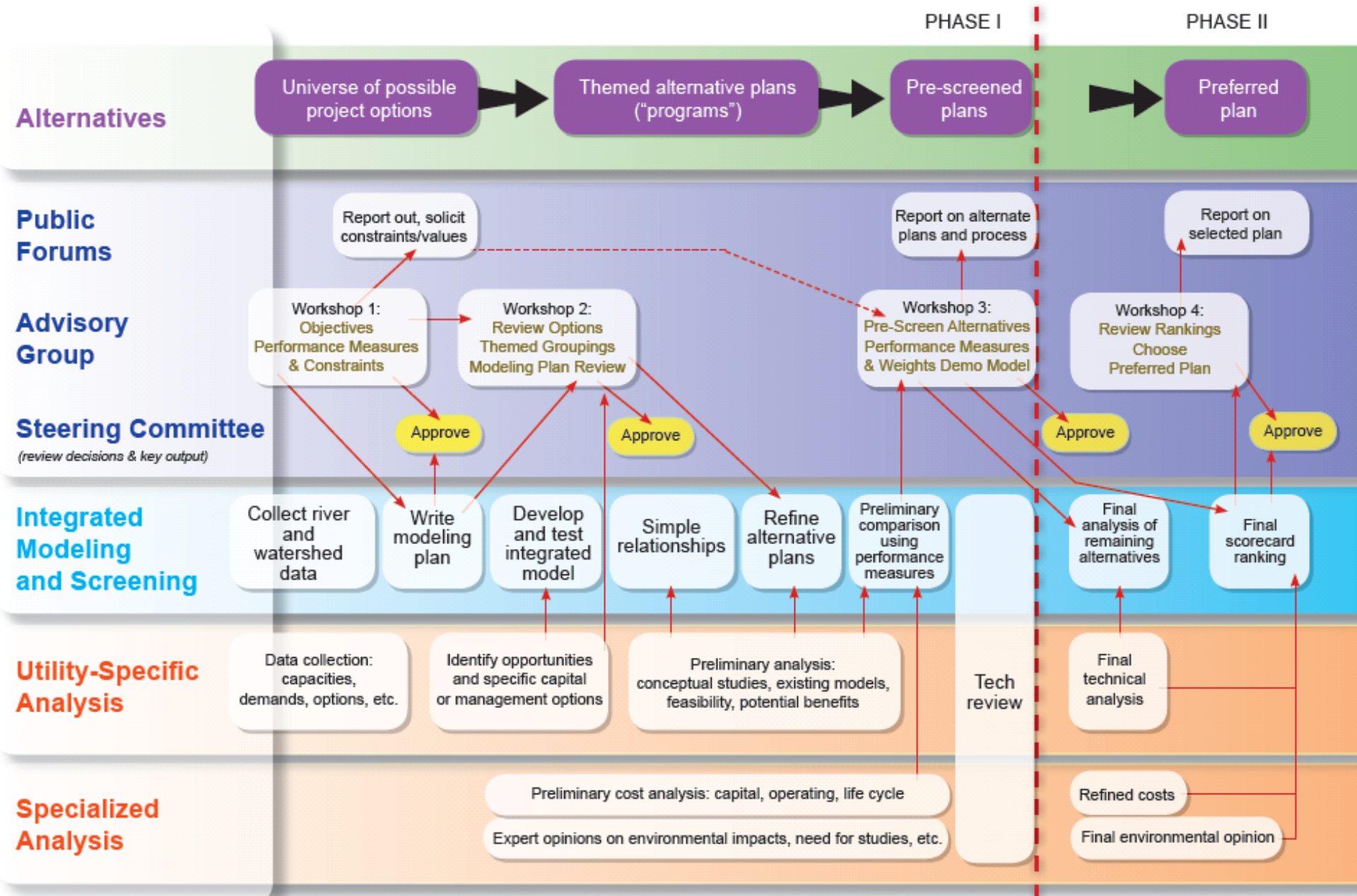
Fundamental IWRP Concept

The most important thing to remember!



Blending the two tracks of water resource planning enables us to move from technical needs to "interest-based" solutions.

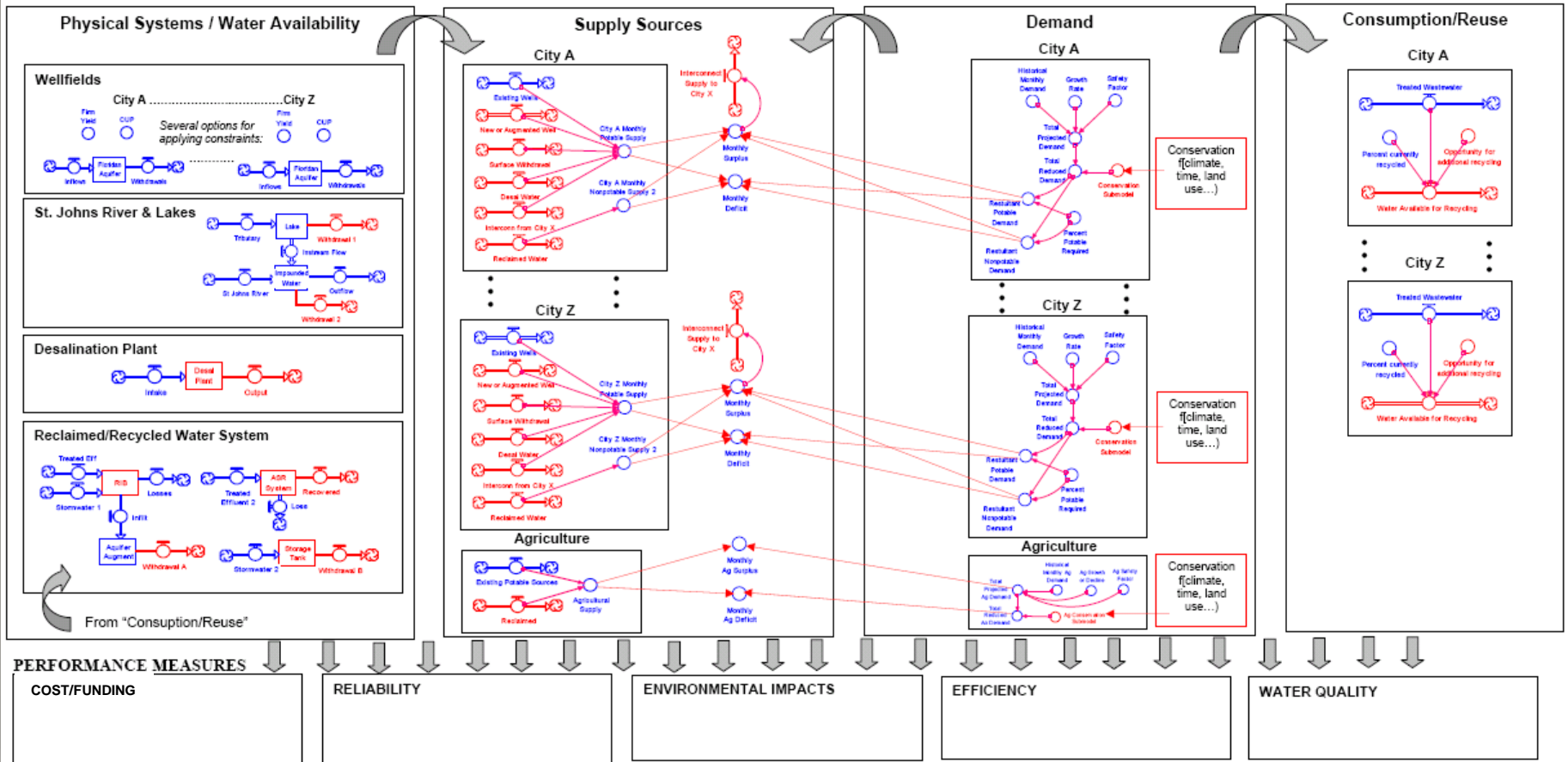
Franklin IWRP Work Plan



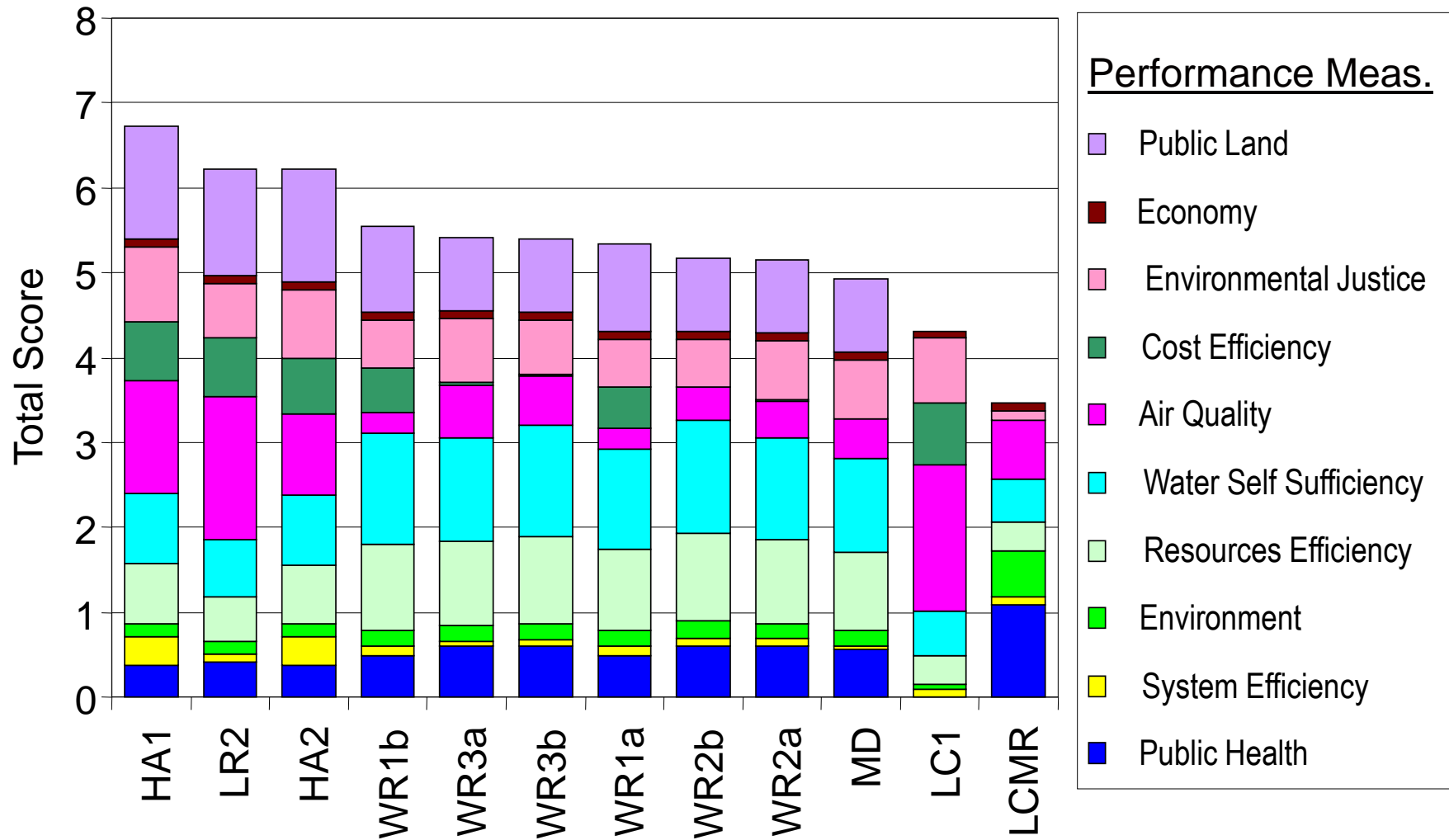
Integrated Modeling Based on Objectives

WAV Conceptual Systems Model – ORIGINAL PLAN Detailed Schematic

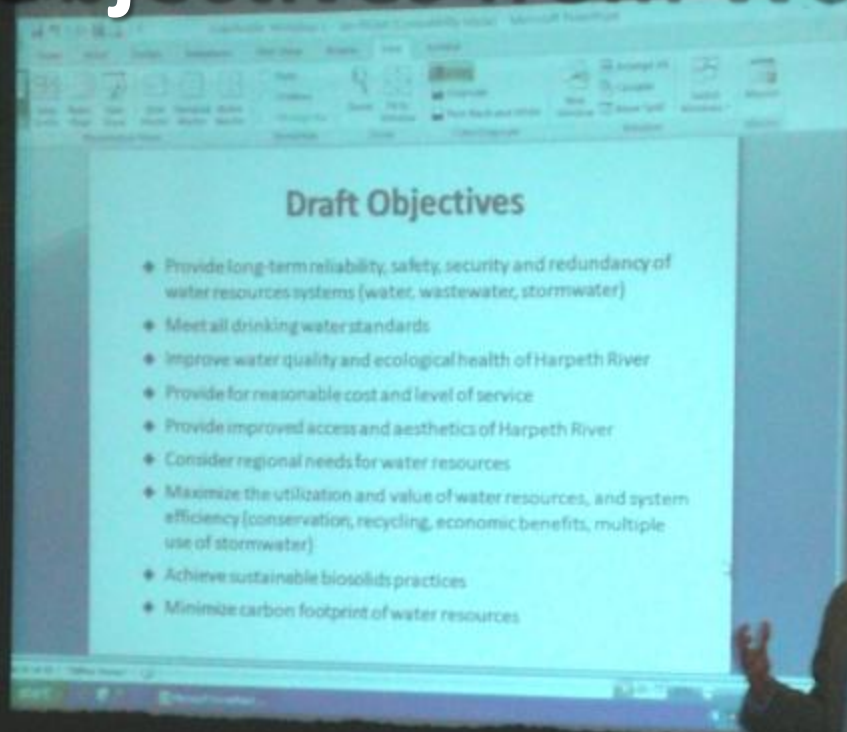
Note: this diagram represents the **original** roadmap for the WAV STELLA model. Details evolved during model development (See Appendix A) but the basic linkages and structure were preserved.



Example Comparison of Alternatives

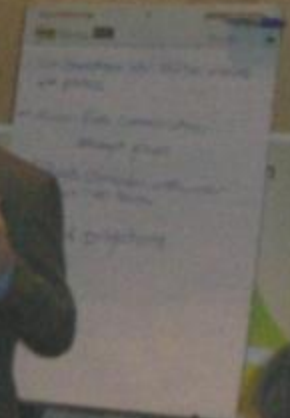


Draft Objectives from Workshop #1



Draft Objectives

- ◆ Provide long-term reliability, safety, security and redundancy of water resources systems (water, wastewater, stormwater)
- ◆ Meet all drinking water standards
- ◆ Improve water quality and ecological health of Harpeth River
- ◆ Provide for reasonable cost and level of service
- ◆ Provide improved access and aesthetics of Harpeth River
- ◆ Consider regional needs for water resources
- ◆ Maximize the utilization and value of water resources, and system efficiency (conservation, recycling, economic benefits, multiple use of stormwater)
- ◆ Achieve sustainable biosolids practices
- ◆ Minimize carbon footprint of water resources



Draft Objectives

1. Meet current and future demands for water and wastewater reliably
2. Provide safety and security of water resources systems
3. Maximize efficiency of water use and value of water resources
4. Improve water quality and ecological health of Harpeth River and watershed
5. Provide improved access and aesthetics of Harpeth River
6. Minimize carbon footprint of water resources operations
7. Achieve sustainable biosolids management
8. Achieve regional acceptance
9. Provide excellent level of water/wastewater utility services at reasonable cost