

Oklahoma Instream Flow Advisory Group *Advancing the Dialogue*

ERDC Facilitation Webinar – February 4, 2015

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John Rehring – Carollo Engineers

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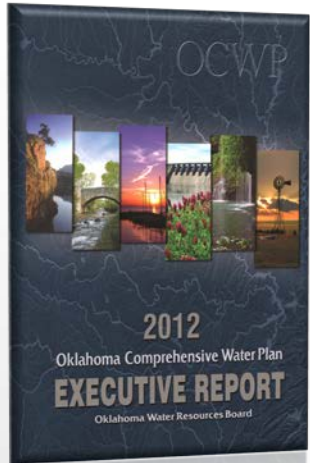
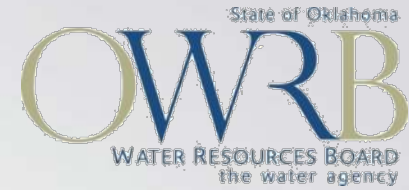
State of Oklahoma
OWRB
WATER RESOURCES BOARD
the water agency

Discussion Overview

- **Project Background**
- **USACE and Facilitators' Roles**
- **Brief Discussion of Water for 2060 Advisory Council Process**
- **Instream Flow Advisory Group**
- **Instream Flow Pilot Study**

Project Background

2012 Oklahoma Comprehensive Water Plan

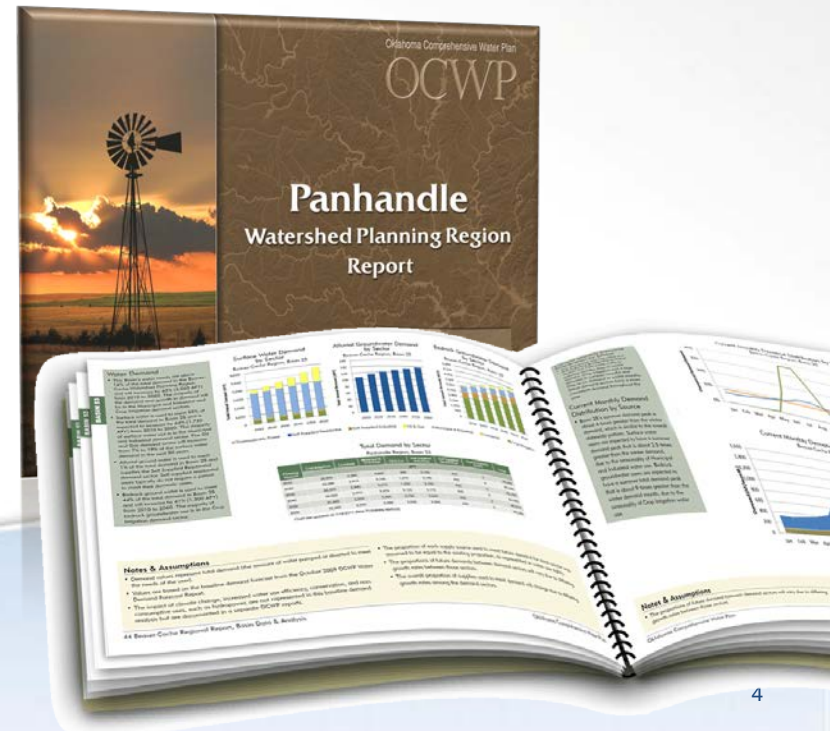


Executive Report:

- Synthesis of OCWP technical studies and results
- Water policy recommendations

13 Watershed Planning Region Reports:

- Results of OCWP technical analyses, including options to address identified local water shortages



OCWP “Big 8” Priority Recommendations



Infrastructure Financing



Conservation, Reuse, Recycling



Monitoring



Supply Reliability



Instream Flows



Excess/Surplus



State/Tribal Resolution



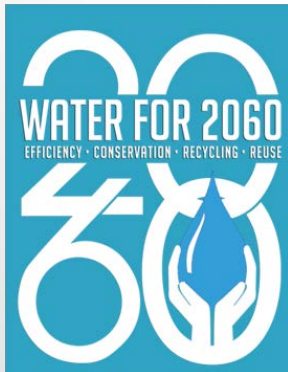
Regional Planning

USACE and Facilitators' Roles

Implementation of Two Priority Recommendations Supported by USACE Tulsa District



Conservation, Reuse, Recycling



New
15-Member
Advisory
Council

Recommend measures to
Governor and Legislature
to enhance conservation
and efficiency in all water
use sectors



Instream Flows

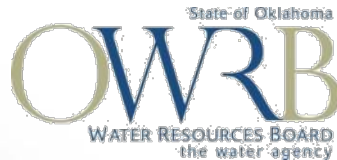
Continued Dialogue:
24-Member ISF
Advisory Group

Implement “Next Steps”
from Initial OCWP ISF
Dialogue

ISF Pilot Study in
Northeast Oklahoma

USACE and Facilitators' Roles

- USACE providing support via Planning Assistance to States agreement with OWRB
- Organizational Roles



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- Individual Roles



Bryan Taylor



Anna Childers



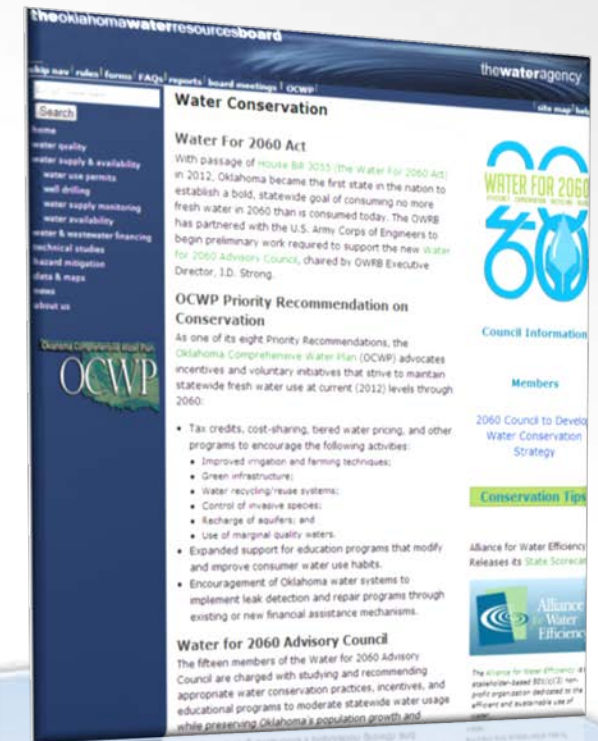
John Rehring

Water for 2060 Advisory Council

Water for 2060 Goals and Advisory Council Mission



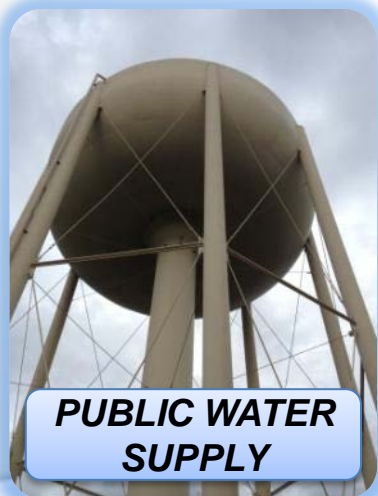
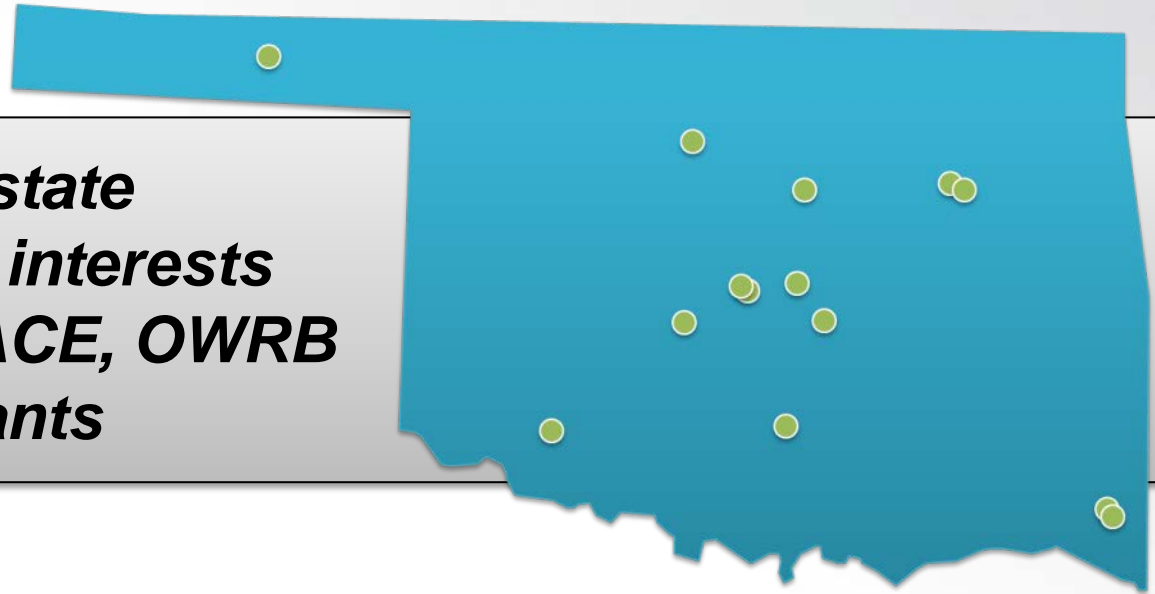
- Water for 2060 Act sets statewide goal of consuming **no more fresh water in 2060** than we consume today.
- Created through passage of HB 3055 in 2012.
- Advisory Council appointed to recommend incentives and voluntary initiatives to the Governor and Legislature in 2015.



www.owrb.ok.gov/2060

Water for 2060 Advisory Council Members

- *All regions of the state*
- *Diverse water use interests*
- *Supported by USACE, OWRB staff, and consultants*



**PUBLIC WATER
SUPPLY**




**CROP
IRRIGATION**



**ENERGY &
INDUSTRY**

Facilitation of Advisory Council Recommendations

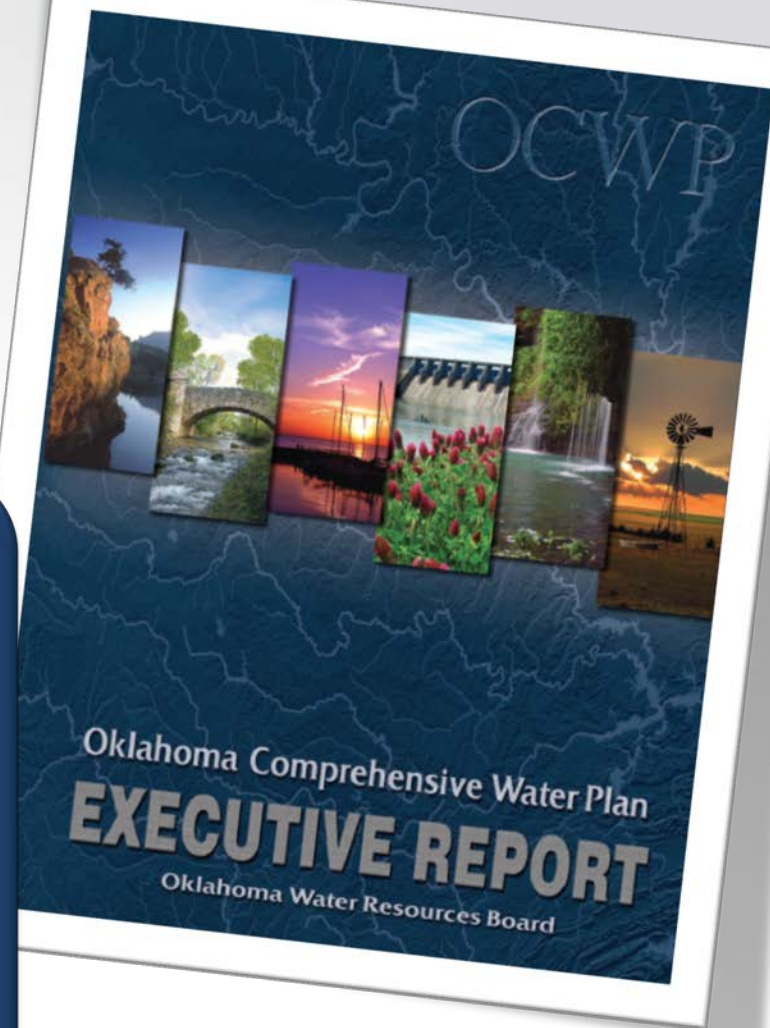
- **Group dynamics** 
- **Engaging the group**
- **Push/pull approach to information sharing and decision making**



Instream Flow Advisory Group

Instream Flow Advisory Group: Background and History

“The process developed by the OCWP Instream Flow Workgroup should be implemented and followed to ascertain the suitability and structure of an instream flow program for Oklahoma, with such process commencing in 2012 and concluding by 2015, as outlined by the Workgroup.”



J.D. Strong (Chair)

- OWRB

Tom Creider

- Oklahoma State Parks

Mark Derichsweiler

- ODEQ

Tom Elkins

- Cherokee Nation

Mike Fuhr

- The Nature Conservancy

James Gammill

- Oklahoma Rural Water Association

Bud Ground

- Public Service Company of Oklahoma

Charlette Hearne

- ORWP

Arnella Karges

- State Chamber of Oklahoma

Michael Kelsey

- Oklahoma Cattlemen's Association

Mike Mathis

- Continental Resources

Diane Pedicord

- Oklahoma Municipal League

Marla Peek

- Oklahoma Farm Bureau

Tyler Powell

- Office of the Sec. of Energy & Environment

Marsha Slaughter

- OKC Water Utilities Trust

Kevin Stubbs

- US Fish & Wildlife Service

Jeff Tompkins

- Bureau of Reclamation

Brooks Tramell


- Oklahoma Conservation Commission

Brian Woodard

- Oklahoma Independent Petroleum Assoc.

Support

- OWRB Staff
- CH2M Hill
- Carollo Engineers



**We need a
formal ISF
Program in
Oklahoma!**

**Things are
fine as-is!**

OCWP Workgroup: Path Forward for Assessing Instream Flow



Address the legal and policy questions.



Study other mechanisms for protecting instream flows.

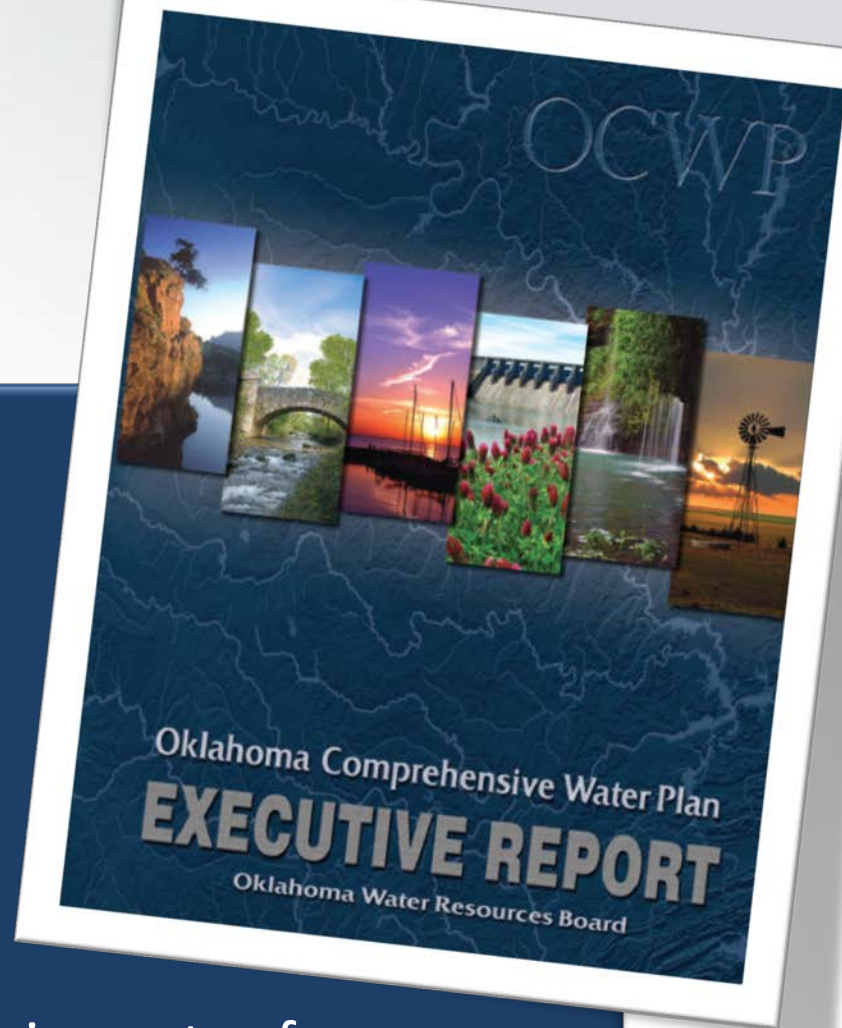
3. Develop a draft methodology for instream flow studies in Oklahoma.

4. Conduct a study on the economic impacts of instream flows in Oklahoma.

5. Perform an instream flow pilot study in a scenic river.



Preserve the Instream Flow Workgroup.



Clarifying the Questions Helps Define a Path Toward Answers

Authority: Are statutory changes needed?

- Scenic Rivers
- Other watersheds

Purpose, goals, need for ISF?

Do existing programs provide sufficient flow?

- Domestic Use Set Aside
- Interstate Compact compliance
- Recreation/Fish & Wildlife permits
- Endangered Species Act compliance

What would happen (good and bad) if...

- We had an ISF program?
- We didn't have an ISF program?

Instream Flow Advisory Group Workshops: Information & Dialogue

1

Overview

- Workgroup Goals and ISF Issues

2

Supporting Info

- OWRB Stream Water Availability Calculations
- Excess & Surplus Water
- How Do Other States Handle ISFs?

3

Barren Fork ISF History

- OWRB Permitting for Recreation/Fish & Wildlife
- History of the Barren Fork Creek ISF Provisions
- Review of ISF Methods and Application to Barren Fork

Some Themes Emerged through the Dialogue (though not pure consensus...)



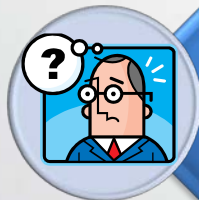
Existing consumptive water rights should have priority



“One size fits all” won’t work across Oklahoma



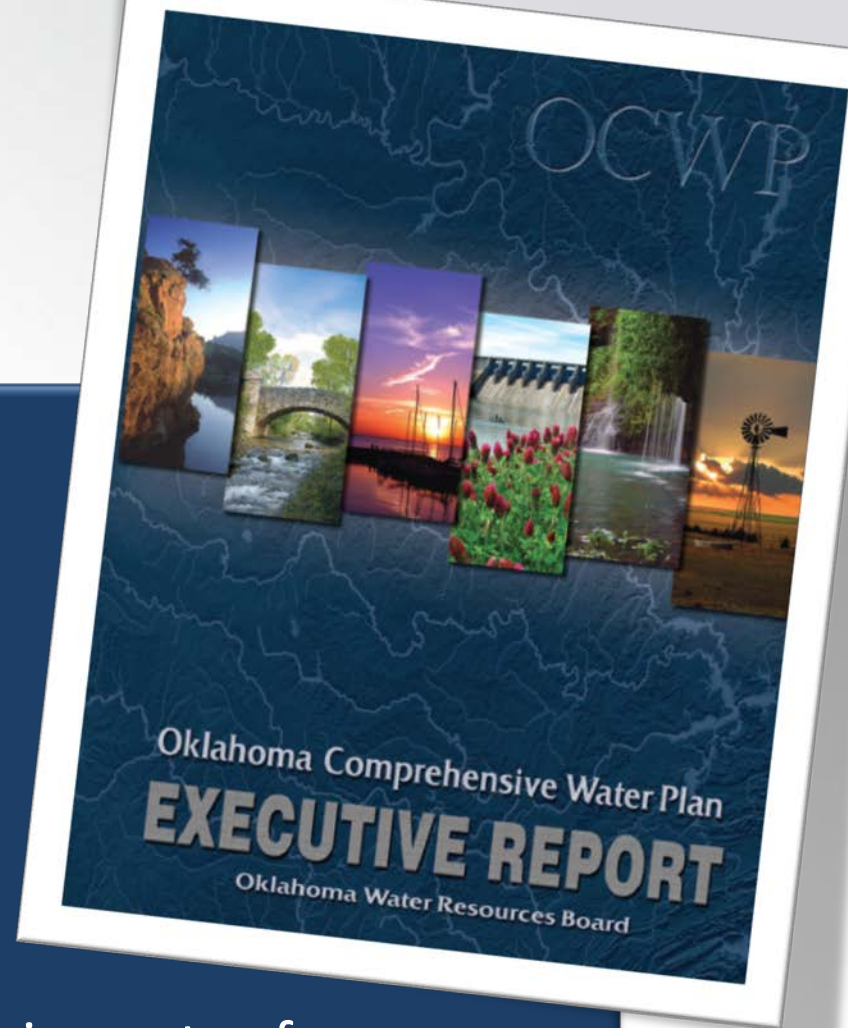
Science supports policy decisions



Our questions can’t be answered hypothetically

OCWP Workgroup: Path Forward for Assessing Instream Flow

1. Address the legal and policy questions.
2. Study other mechanisms for protecting instream flows.
3. Develop a draft methodology for instream flow studies in Oklahoma.
4. Conduct a study on the economic impacts of instream flows in Oklahoma.
5. Perform an instream flow pilot study in a scenic river.
6. Preserve the Instream Flow Workgroup.



Tools and Strategies Employed to Make Progress

- **Clearly defining the questions**
- **Multiple avenues for input**

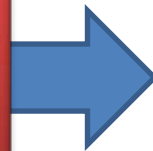
1 In-person workshops

2 Web-based questionnaire

3 Offline feedback to facilitator

- **“One size fits all” concerns**

RESULTS of a pilot study
would not apply to
dissimilar watersheds



We can design a
PROCESS that would
reflect local conditions



- **Both sides agree we can't answer questions in the abstract. We need “real” conditions in a local basin to assess pros and cons.**

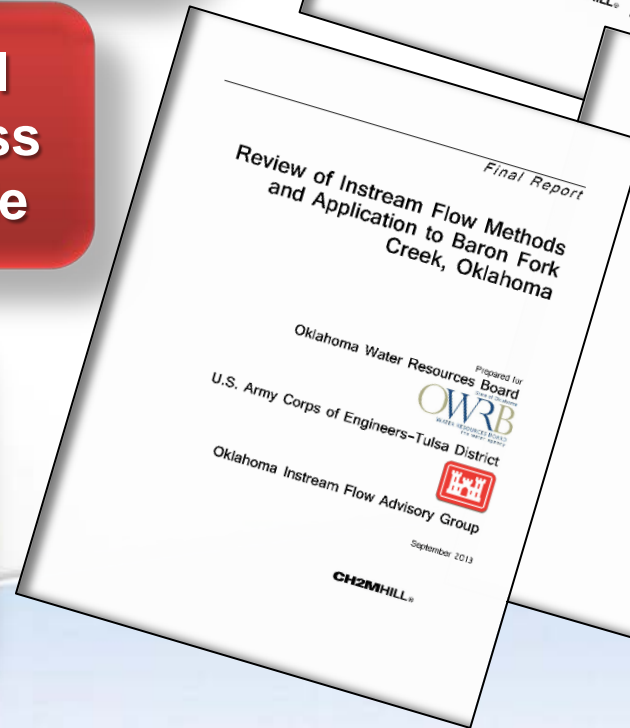
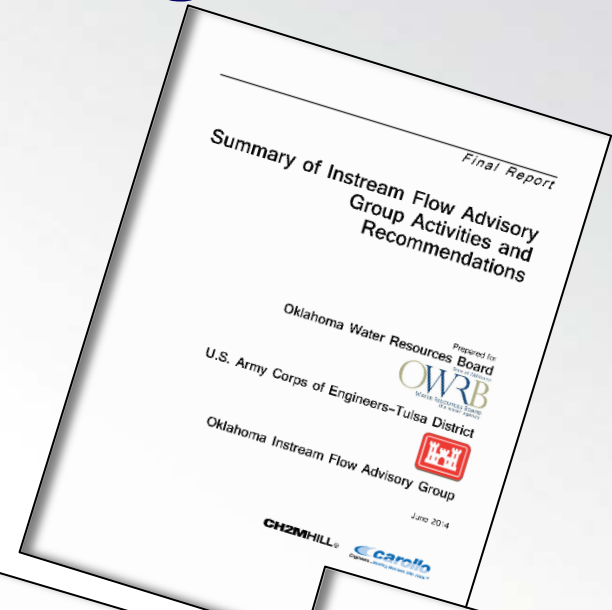
Instream Flow Pilot Study

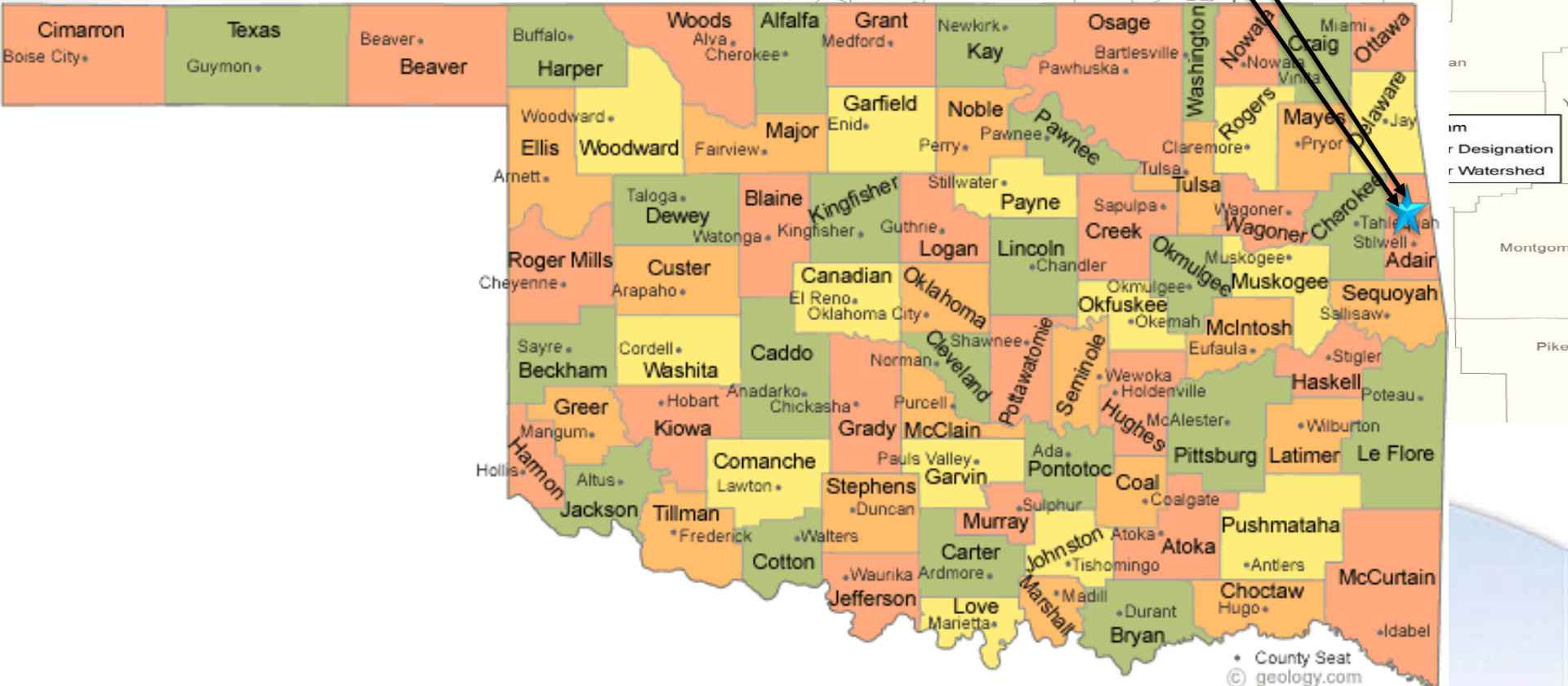
Shifting from Statewide Dialogue to Local Basin Issues

“Gain a better understanding of the implications of a process to deal with instream flow issues consistent with the overall goal of managing water resources in Oklahoma for multiple uses.”

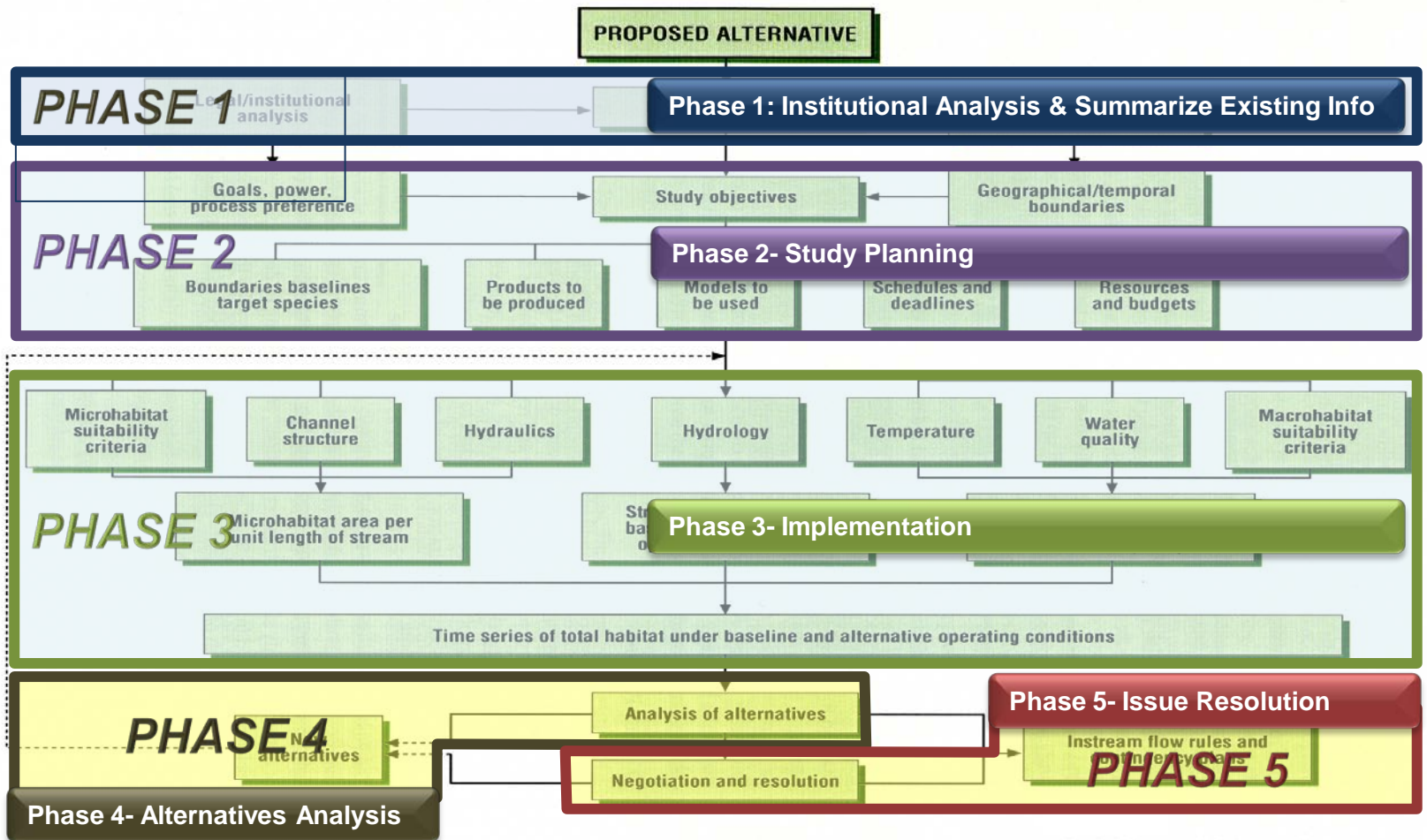
Help to define a conceptual framework and study process that could be used statewide

Develop seasonal instream flow recommendations for the Illinois River Including Barren Fork and Flint Creeks



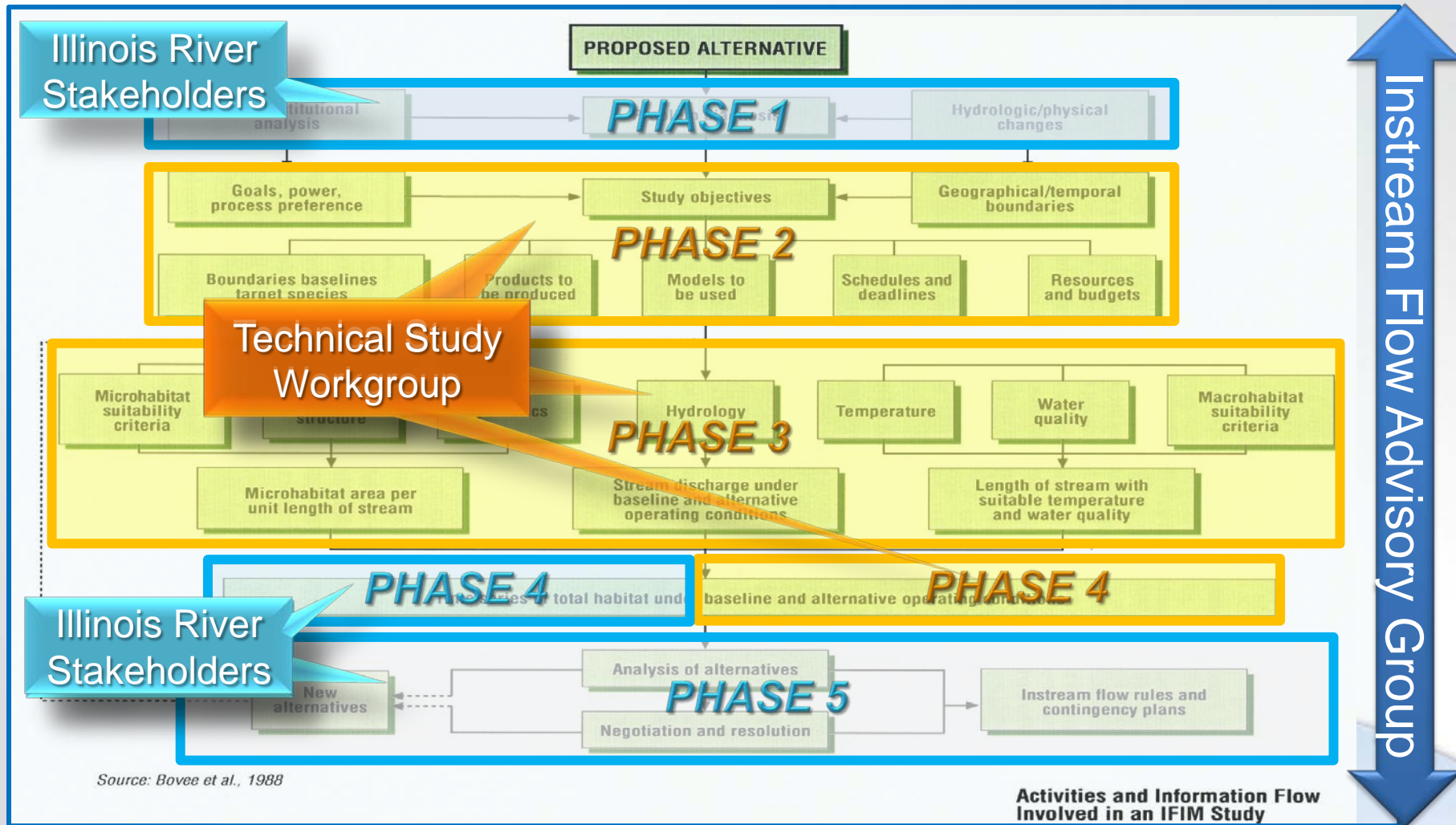


Phased Approach to Answering the Technical Questions and Addressing Local Priorities



Activities and Information Flow Involved in an IFIM Study

Breaking Up the Work and Engaging the Right People



Source: Bovee et al., 1988

Activities and Information Flow Involved in an IFIM Study

Illinois River Watershed Stakeholders

Planning

- Identify stakeholders and affected parties

Public Meetings

- Conduct outreach to affected parties (stakeholder meetings)
- *Inform & engage & build trust*

Output

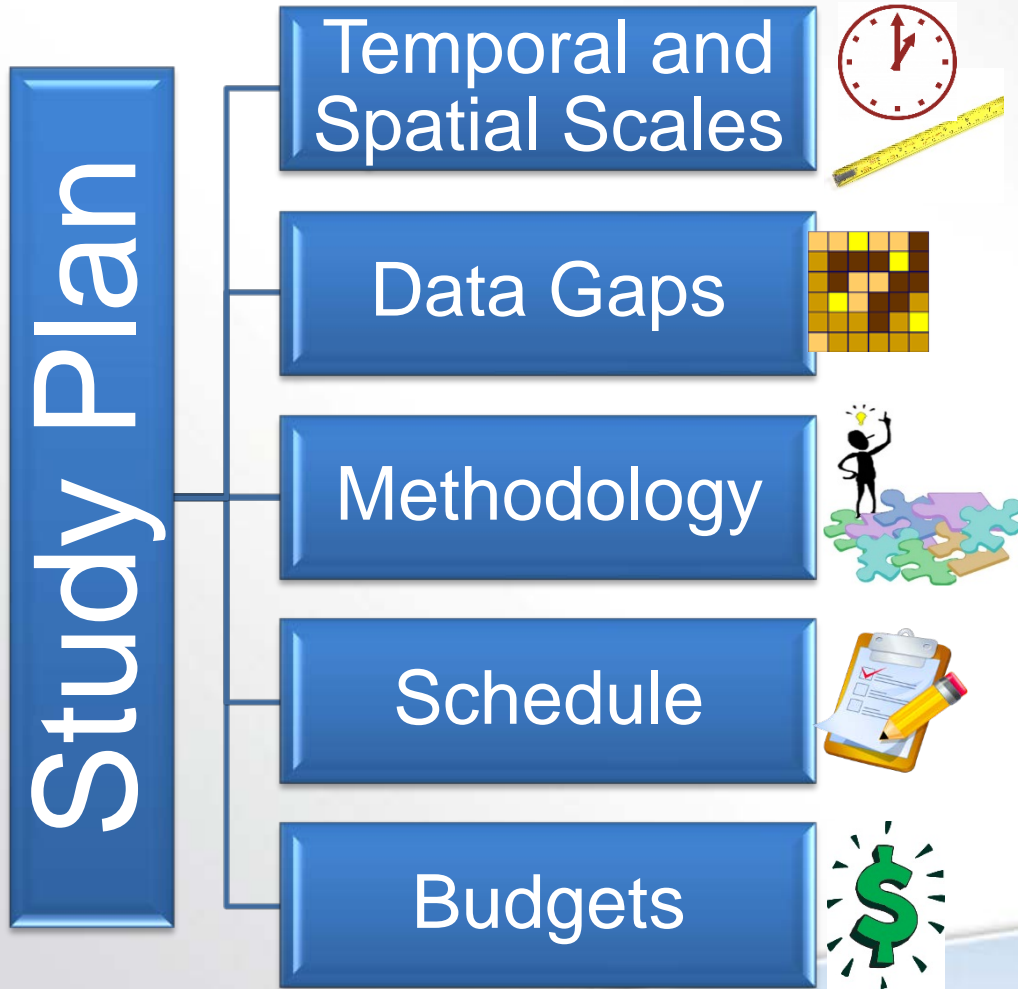
- Identify and document concerns and issues of affected parties and provide responses to those issues

Inform

- Outline a preliminary decision process to be used to recommend instream flow criteria



Technical Study Workgroup





US Army Corps
of Engineers®



OK Scenic Rivers
Commission



The Nature
Conservancy



Technical Study Lead
CH2MHILL

Anticipated Results and Next Steps

- Develop seasonal instream flow recommendations for the Illinois River including Baron Fork and Flint creeks.
- The IFIM is not designed to produce the “one best answer”. The best answer is the consensus of the stakeholders.
- All phases of the IFIM include some negotiation:
 - Objectives and scope of the study plan, the layout of the study sites, which simulation options to use, what habitat metrics to include in the analysis etc.
 - Start early!
- Next steps:
 - Develop the Study Plan for a focused data collection to address the issues and concerns
 - Initiate data collection

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