

New Mexico Water Dialogue

23rd Annual Statewide Meeting

January 12, 2017

Components of Good State Water Plans

John Leeper Amec Foster Wheeler



FOR MY INTELLIGENT VIEWERS, I HAVE DATA, AND FOR THE MORONS, I HAVE MANIPULATIVE ANECDOTES.

What are the Components of Good State

Water Plans?



You are now expecting a list of components! Let's talk about some principles instead.

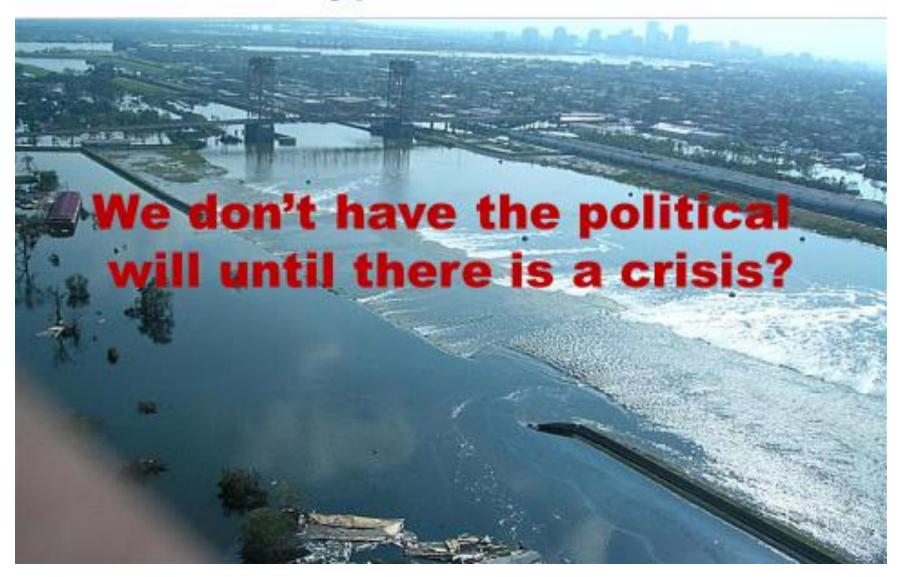
Is there Political Will to Avoid Train Wrecks?





The Katrina Hypothesis?



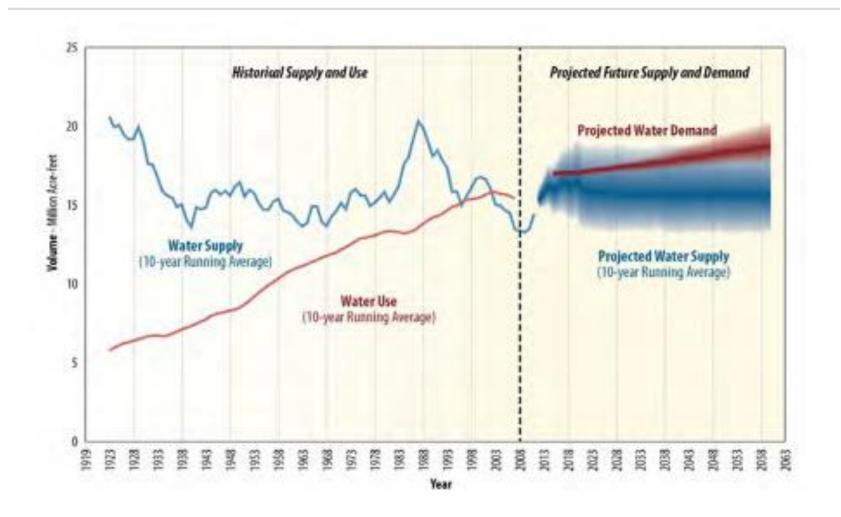


IS THERE A LOOMING CRISIS? amec



IS THERE A LOOMING CRISIS?





Are we ready for the unexpected?



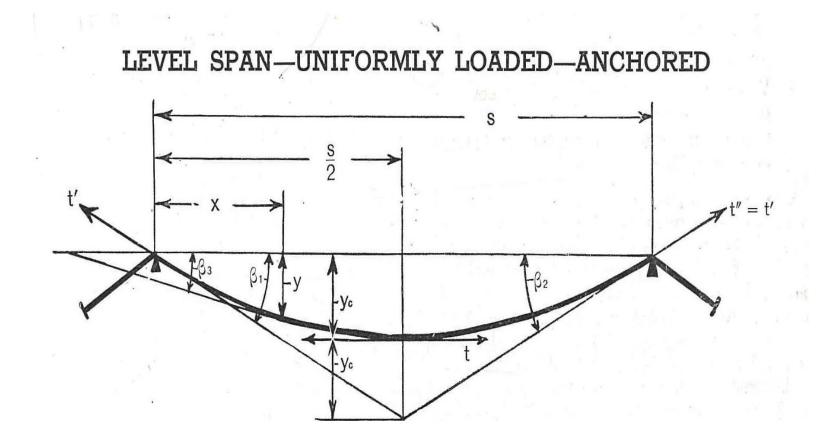
A Principle – Two Types of Knowledge

- Nomothetic Knowledge based on abstract universal principles.
 Generalization.
- Idiographic Knowledge based on individual cases.
- The trick is combining the two.

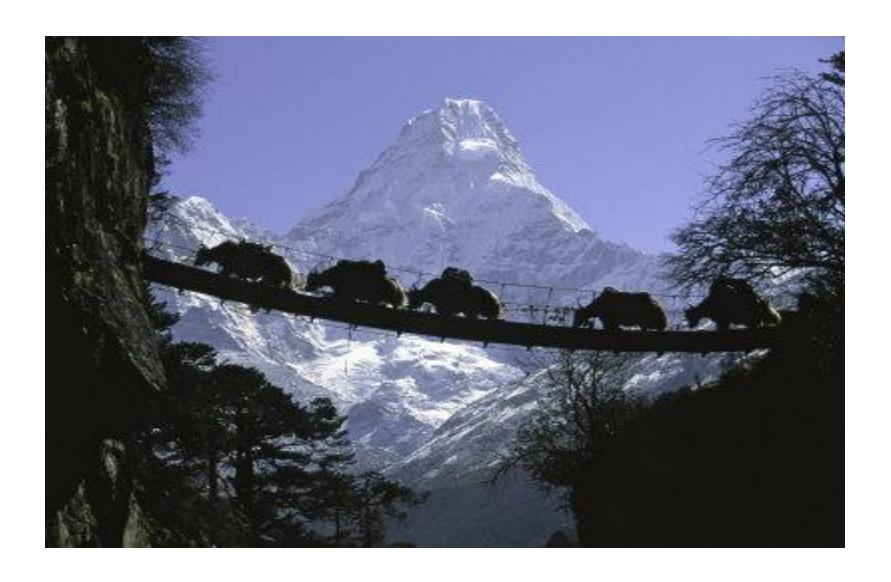


An Example: Suspension Bridges in Rural Nepal

Tension = (Weight x Length^2)/(8 x Sag)



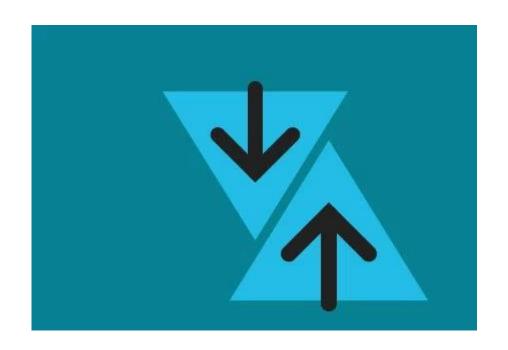
How much sag is too much, or too little?



This guys knows exactly how much slope his water buffalo will walk across. But the engineer doesn't.



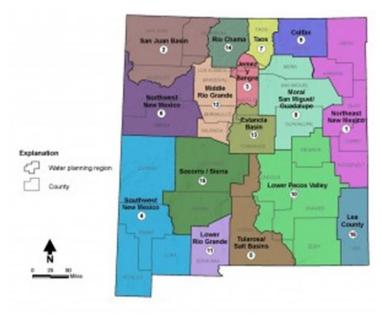
Integration is not a choice between either Top Down and Bottom Up Planning, or between Public Good vs. Private Good.



The Engineer is not wrong!

Let's talk about some principles instead.

Optimizing Water Plans at the State Level may have different results than Optimizing Water Plans at the Regional Level



Your are now expecting a list of components! The Trick is combining the two.

Does the current planning process do that?

"Uniquekieness"

What are the Costs of Poor State Water Planning?



You are now expecting a list of costs!
This audience already knows.

They are Katrina enormous!

The San Juan Basin Lessons Learned?

- The Planning Process and Settlement Process were closely aligned.
- It was not, and it still is not, easy. Some might say it is painful.

 We all had to learn new tricks.





It is about the People. It is worth it.





