

Drought Tournament for the Apalachicola-Chattahoochee-Flint (ACF) River Basin?

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ACF Stakeholders (ACFS) and USACE

- Initiated through ACFS contact with Deputy Commanding General for Civil Works (MG Jackson)
- ACFS plus Mobile District, South Atlantic Division and IWR
- USACE is supportive of ACFS concept and work
- Need to avoid Water Control Manual update process & lawsuit
- Focus on drought



Presidential Memorandum: Building National Capabilities for Long-Term Drought Resilience

Section 4(d) (Drought Resilience Actions - Coordination of Federal Drought Activity) states “The Secretaries of the Interior, Agriculture, Commerce, and the Army shall coordinate the implementation of the activities described in section 4(d)(i) of this memorandum,” which are

“(A) coordinate and use Federal programs and investments to better support drought resilience through improved information sharing and collaboration, building on existing place-based and program coordination efforts; and

(B) develop tools, guidance, and other relevant resources to ensure drought-related support to State, regional, tribal, and local officials occurs in an effective and efficient manner.”



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Project Objectives

1. To support an interagency effort in the ACF basin to improve drought management and resilience.
2. To begin evaluating specific recommendations on drought indicators, triggers, and drought forecasts given in the ACF Stakeholders (ACFS) Sustainable Water Management Plan.



Purpose of Multi-hazard Tournaments (MHT)

- To bring diverse stakeholder groups together to help enhance system wide planning, support collaboration, and to support decision making in a fun and competitive way.

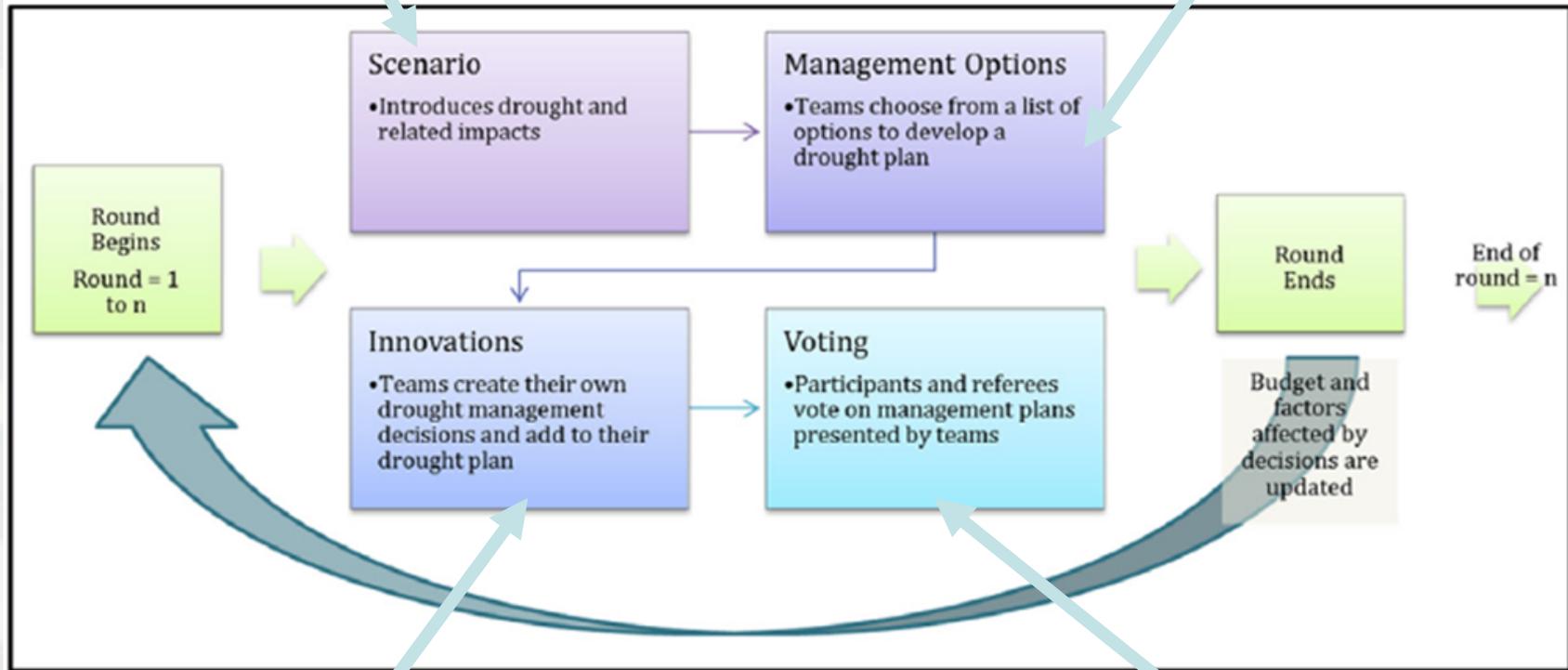
So how are MHTs different?

- The approach differs from shared vision planning as it is more participatory, intense and engaging.
- It captures the cross training of a workshop with the additional focus generated by competition.
- It challenges people to think systematically about adaptation tradeoffs within constraints.
- The MHT utilizes existing technical work, but it can also expose existing unmet modeling needs and deficiencies.

Game Process

1. Scenario introduced

2. Teams choose from a list of risk reduction options

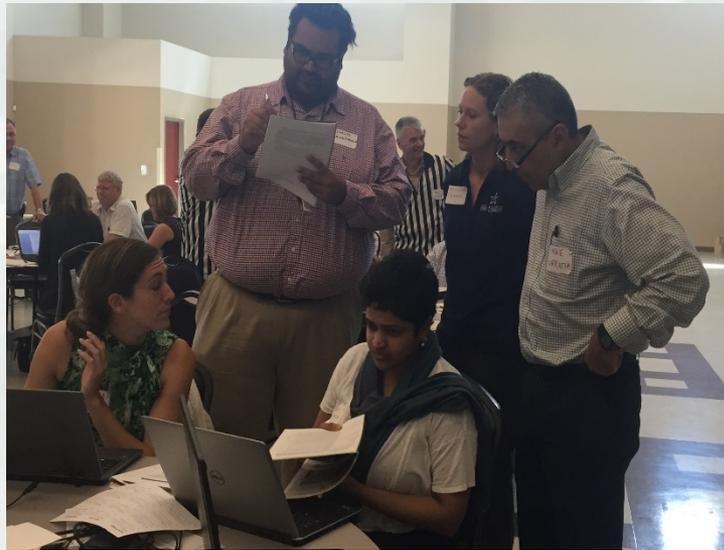


3. Teams can also create innovations if the referees accept them as feasible

4. Teams and referees then score the teams based on their presentations



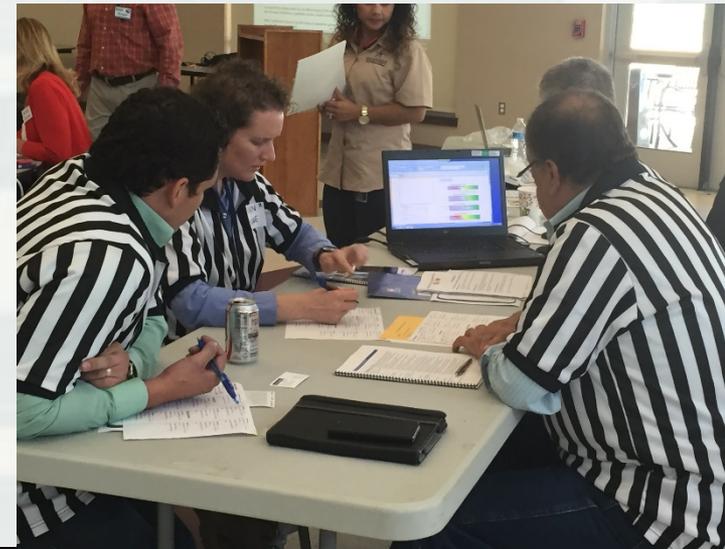
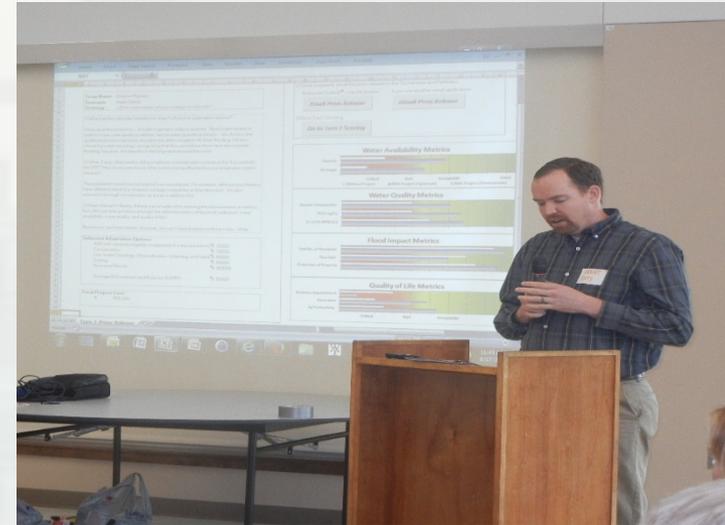
San Antonio River Tournament



▶ Communicating different basin interests

▶ Learning together

▶ Creating new knowledge

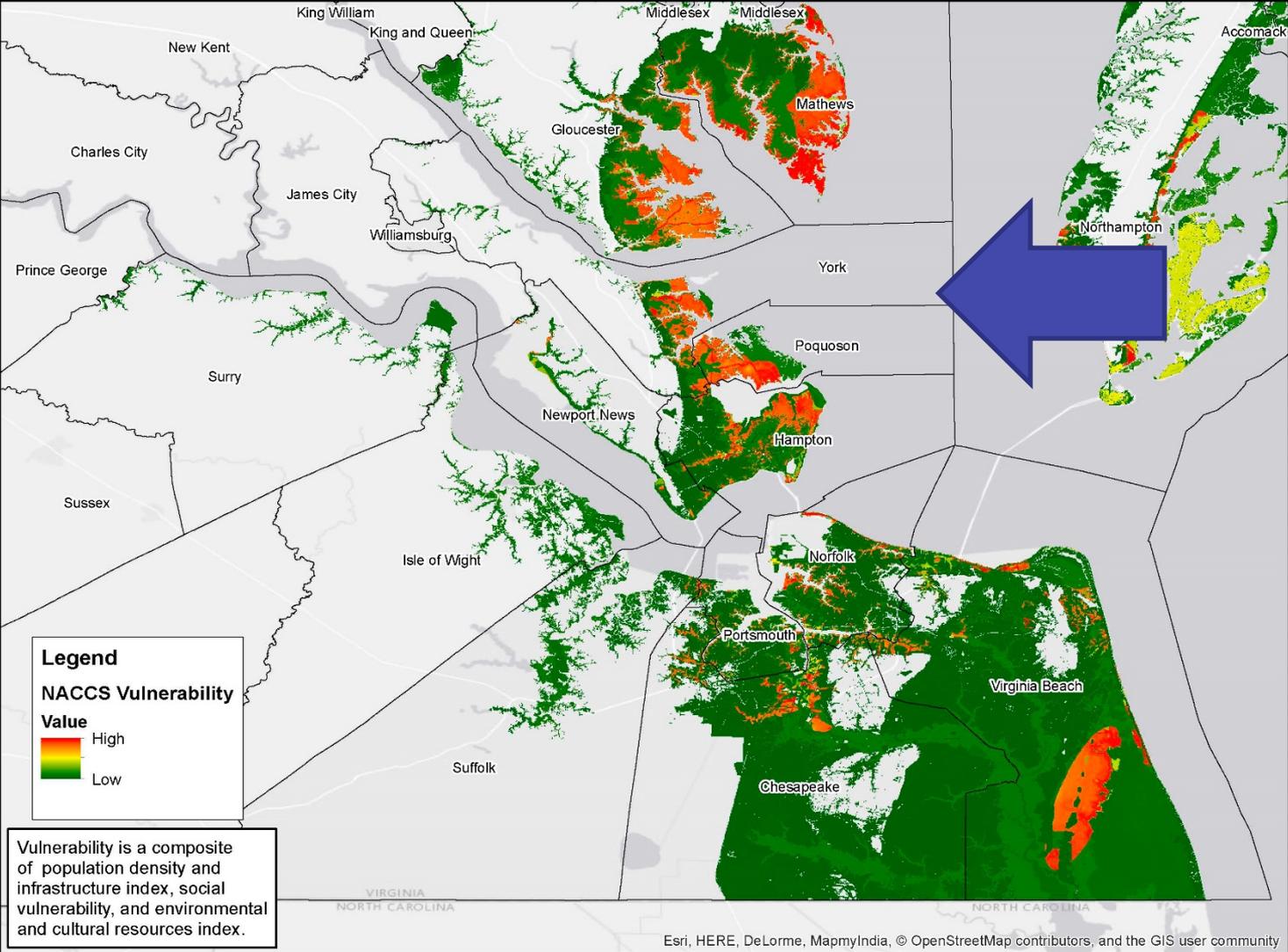


Cedar Rapids Tournament

- Cedar River Flooding
 - ▶ Homes and Businesses
 - ▶ Water, Waste Water, and Power Plants
- Cedar River Drought
 - ▶ Threatens Water Supply
 - ▶ Nuclear Power Cooling Water
- Nitrate Concentration
 - ▶ Threatens Water Supply



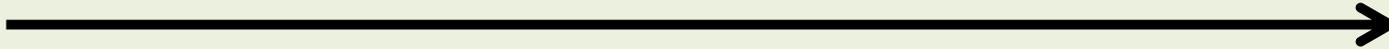
Virginia Peninsula Tournament



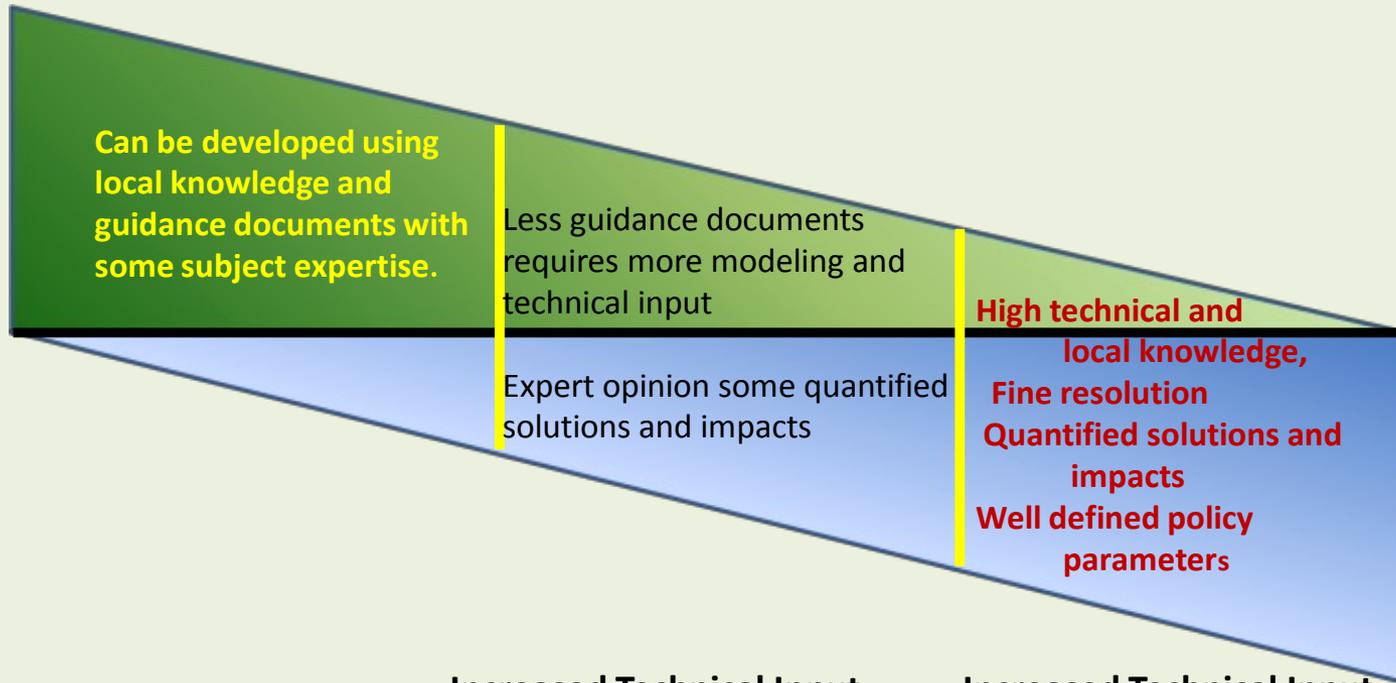
Applications in the ACF Basin

- Community, State and Interstate Levels
 - ▶ Sensitization and training
 - ▶ Exploration of drought management options and alternative triggers within credible economic, technical, environmental and social constraints
 - ▶ Improve Communication
 - ▶ Policy Development

Progressively more complexity for increasingly specific issues



Increasing quantification of Risks, Solutions, Impacts and Costs.



Low Technical
Risk and Risk Mitigation
Sensitization
Systems Thinking

Increased Technical Input
Systems Thinking
Better quantified risks,
impacts, and risk mitigation
options, costs , constraints,
tradeoffs and feedbacks.

Increased Technical Input
Highly quantified risks,
impacts, and risk
mitigation options, costs,
constraints, tradeoffs and
feedbacks.



Thank You

For more information: www.iwr.usace.army.mil/



BUILDING STRONG®

Tournament Phases

Scoping Phase

- USACE District Champion Identification,
 - Stakeholder Identification,
 - Problem and Objectives definition
 - Resource Identification

Technical Development and Logistics,

- Scenario development,
 - Describe the impact of the hazard,
 - Definition of the types of adaptation options,
 - Identify the effects, tradeoffs and synergies of alternation adaptation choices by eliciting expert opinion or modeling,
 - Develop the decision support tool,
 - Create workbook
- Complete the logistics (Invitations, recruit referees, etc.)
 - Design of agenda

Testing and Implementation

- Dress rehearsal,
- Actual tournament,
- Post tournament evaluation

Documentation

- Post tournament reports,
 - Articles

