

Map Layers

Science &  
Uncertainty

Policy Implications

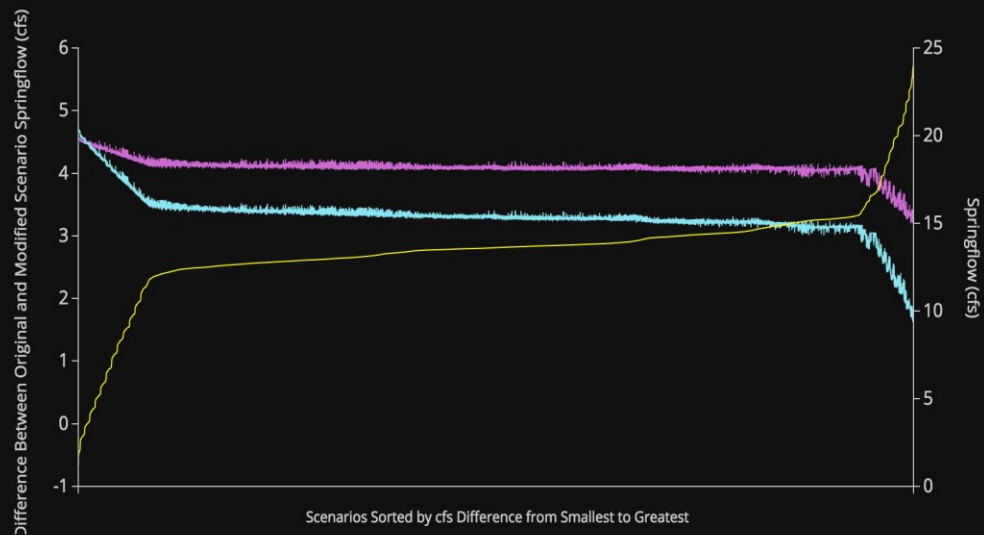
Management  
Implications

Topical Modelling

Watermark



## Policy Implications



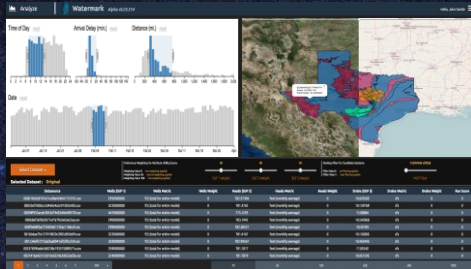
Watermark: Barton Springs Case Study

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TACC



# Watermark | DSS Development



## Interactive Workspace

- Dashboard Builder
- Integrated Jupyter notebooks
- Advanced AI and DSS Scenario Ranking
- Basic Machine Learning support

Stage Four

## Decision Design & Ranking

- Problem setup and formulation tools
- Select attributes and link for relationships
- Parameter and graph configuration tools
- Simple modeling to define relationships

Stage Three

## Information Ecosystem

- Filter time series data
- table and graph views
- Discover interlinked events via data exploration

Stage Two

## Basic Build and Display Tools

- Web-enabled application
- Data loading and transformation tools
- Map Slider for comparisons across scenarios
- Basic data format conversion from SWAT

Stage One



- ▶ This Phase I work serves as a proof of concept effort
- ▶ Extend to evaluate sustainable aquifer yield and related topics
- ▶ Understand connectivity within network relationships
- ▶ Identify network motifs, Recurring circuits in topology & overall dynamics
- ▶ Modularity of analysis identifies structural organization
- ▶ New tool to generate dialogue and create cognitive dissonance
- ▶ Linking the social contexts with biophysical knowledge

## Anticipated Outcomes of Watermark

