Chesapeake Governance Study: Report of 2021 Decision Maker Interview Results

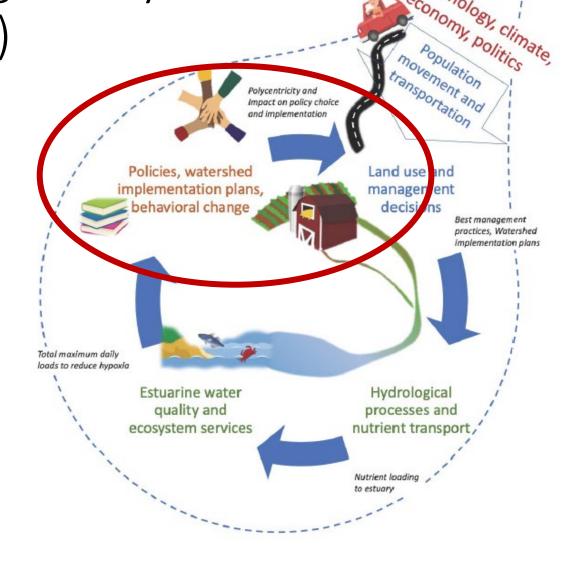
D.G. Webster Associate Professor Dartmouth College Modeling the dynamics of human and estuarine systems with regulatory

feedbacks (NSF #2009248)

Understanding Connections/Feedbacks

Projecting Future Scenarios

Leverage Points to Improve Governance



Big Picture

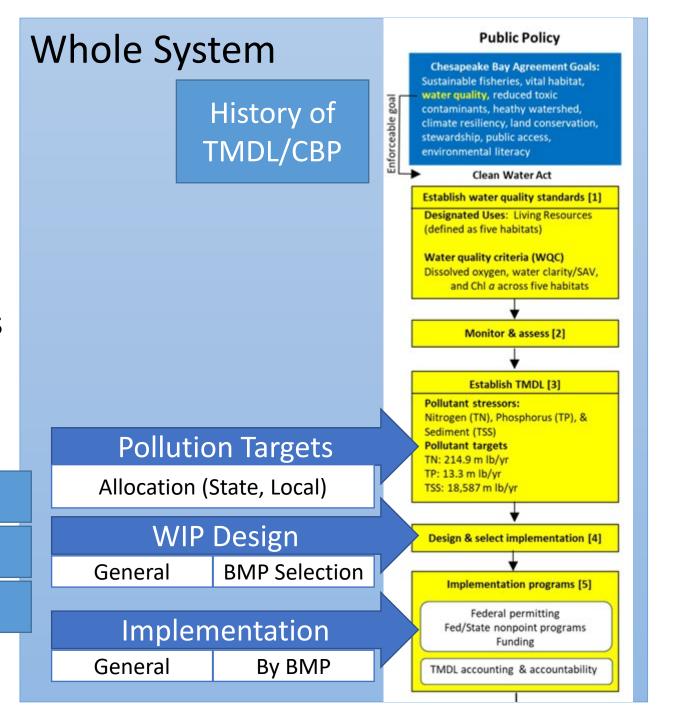
- Methods/Data
- Effectiveness
- Challenges & Opportunities
- Equity & Legitimacy
- Compare w/ CESR

CESR = GREEN

Funding

Modeling

Lawsuits



Methods/Data

- 59 Open-ended interviews
 - Decision makers in CWS governance
 - Stratified snowball sampling
 - June-December 2021
- Analysis (Atlas.ti)
 - Blocks → Codes
 - Number of Mentions (M)
 - Co-occurrences (CC)

M = 118 for "Effectiveness"

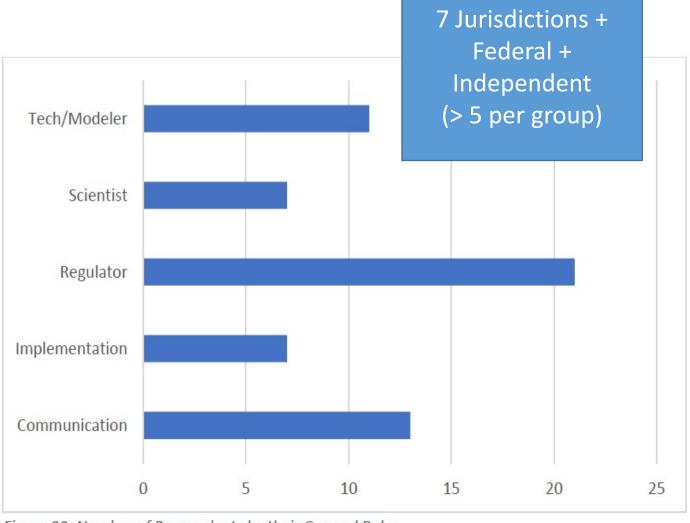
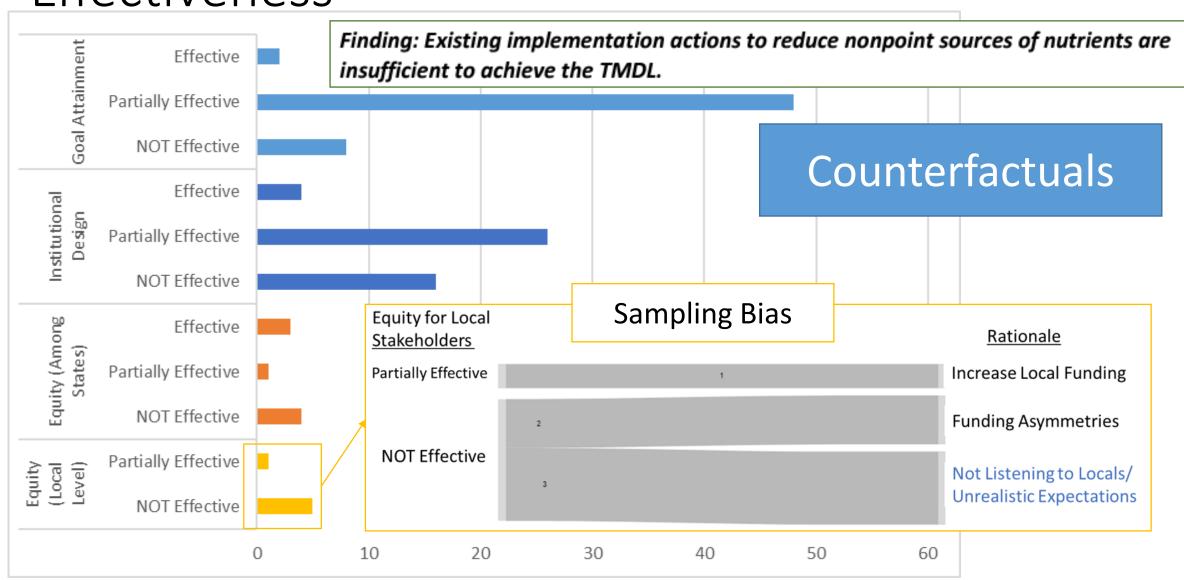
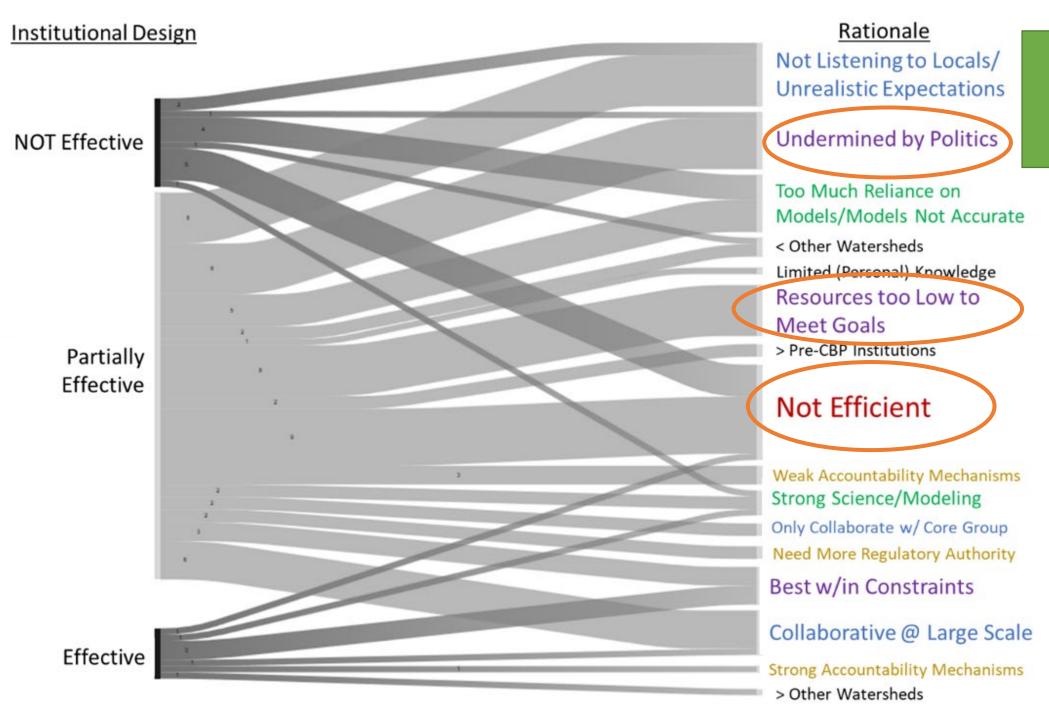


Figure 90: Number of Respondents by their General Roles

Effectiveness





More Inclusive Processes

Challenges and Opportunities

Challenges

114 detailed \rightarrow

42 types \rightarrow

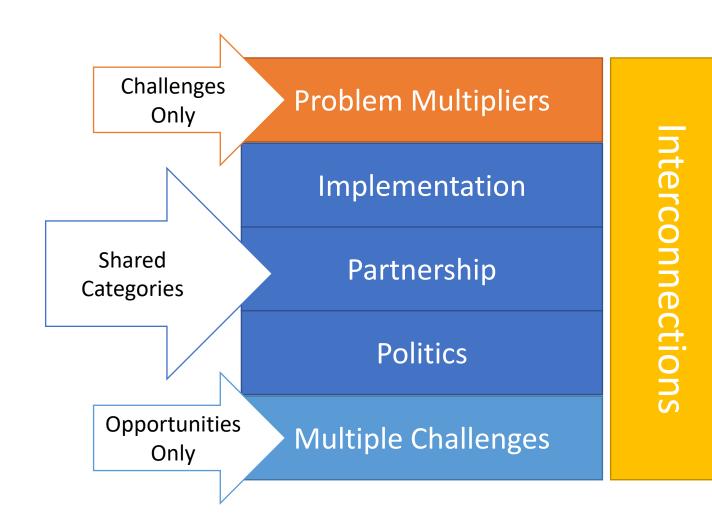
4 categories

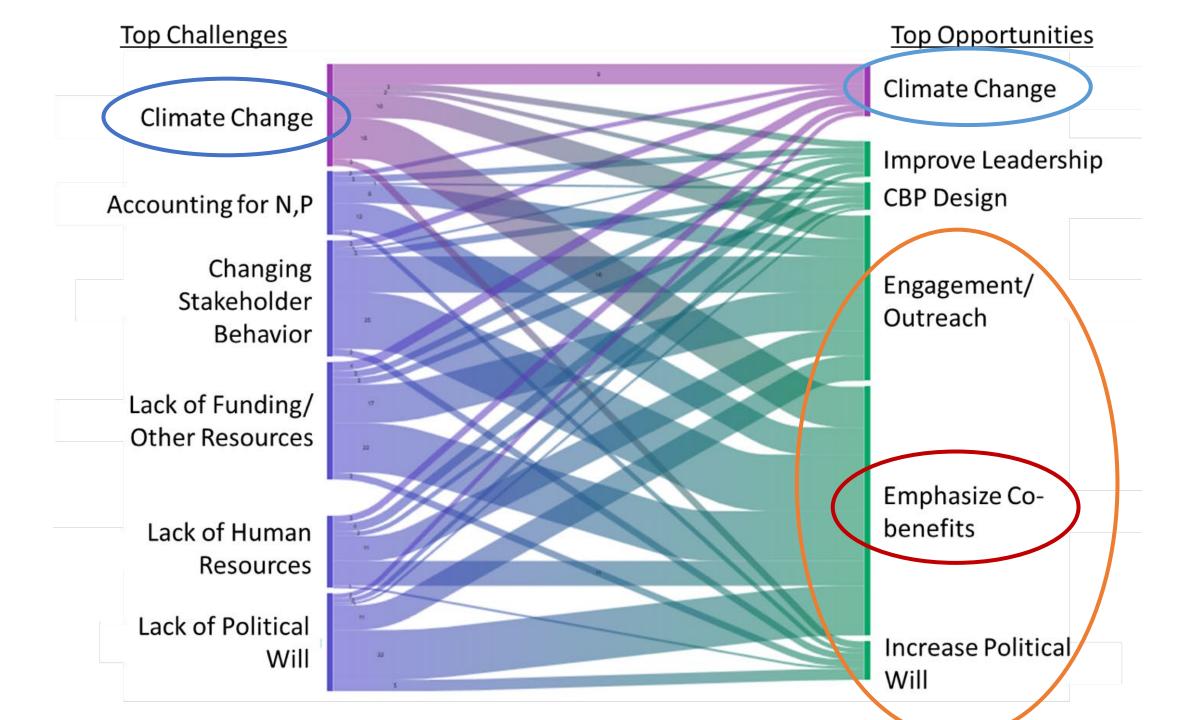
Opportunities

77 detailed \rightarrow

26 types \rightarrow

4 categories



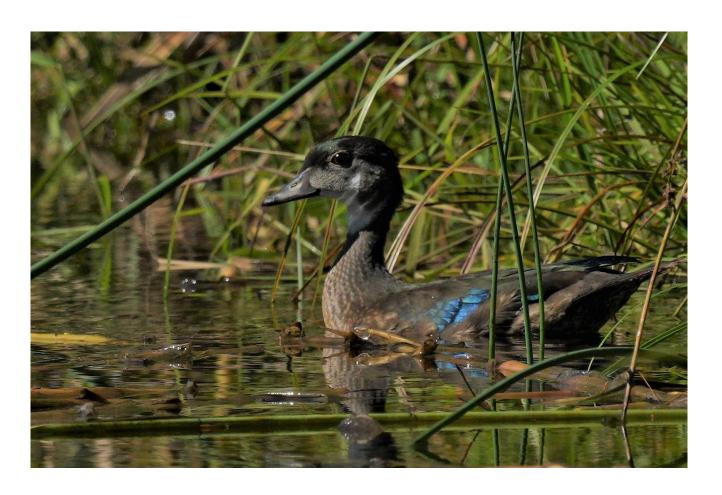


Top 3 Co-Benefits

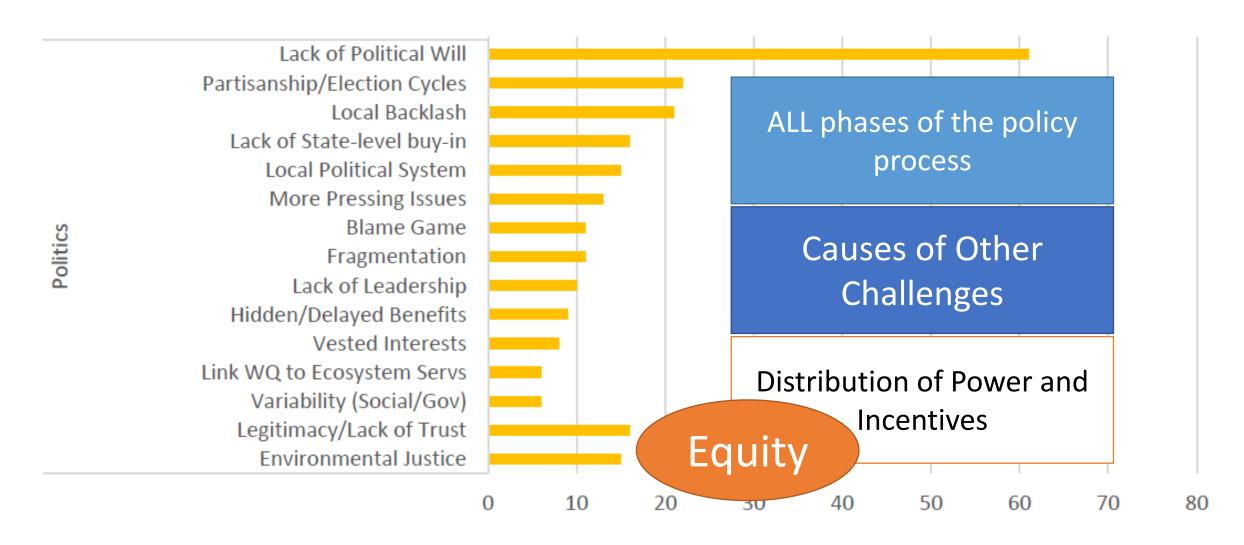
From 15 Types of Co-beneifts

- Reduce flooding
- Improve local water quality
- Increase profits for agriculture

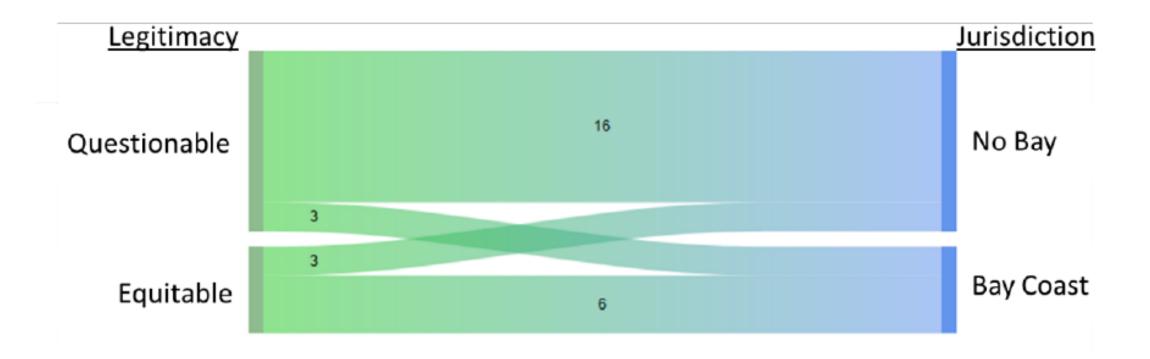
Species/Ecosystems are on the list, but not at the top



Political Challenges

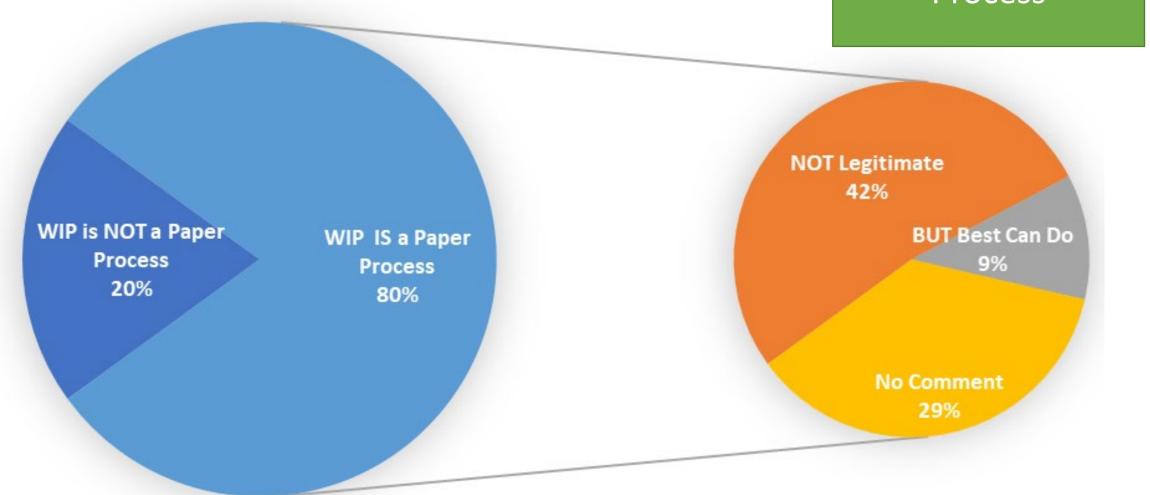


Legitimacy: State-Level Equity

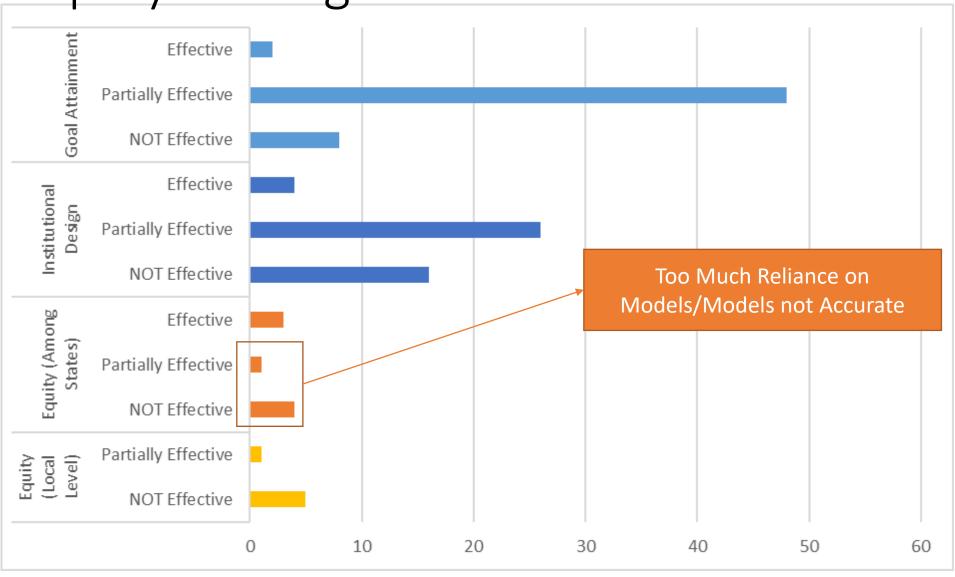


Legitimacy: WIP Design (M = 44)

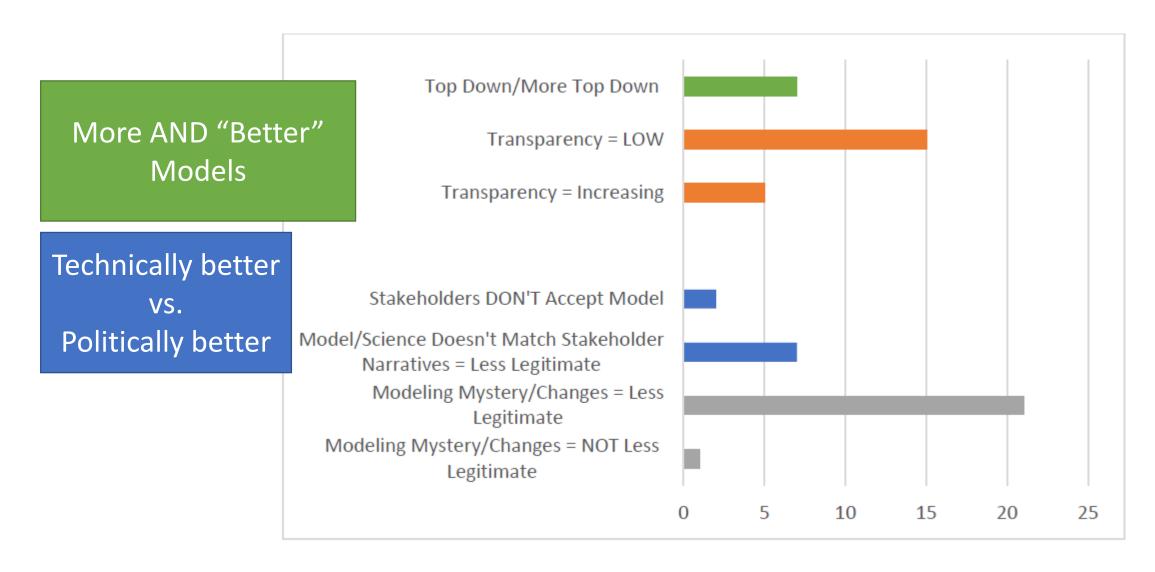
Change Accounting Process



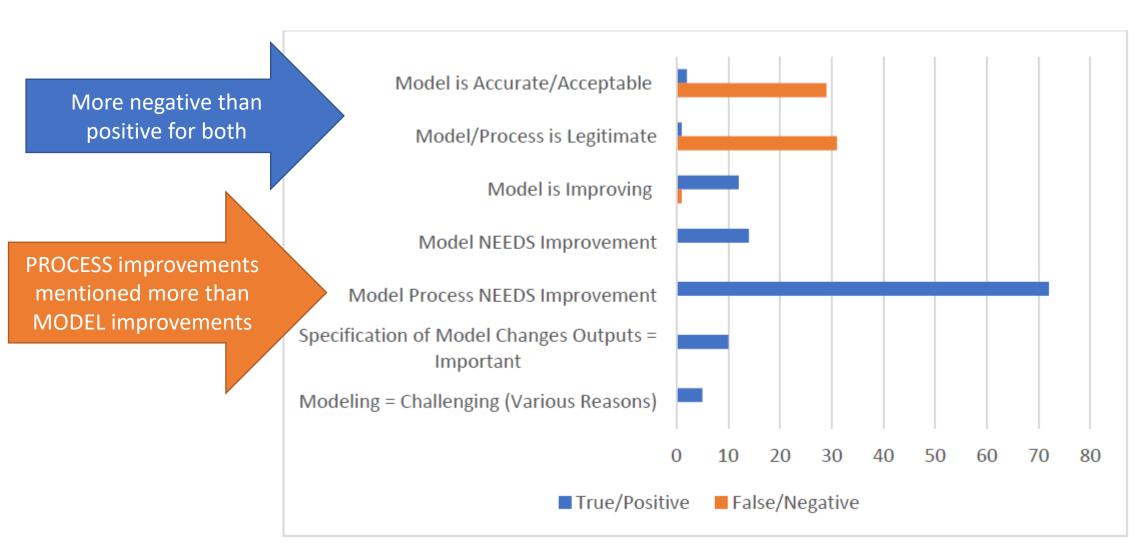
Equity Among States and Models



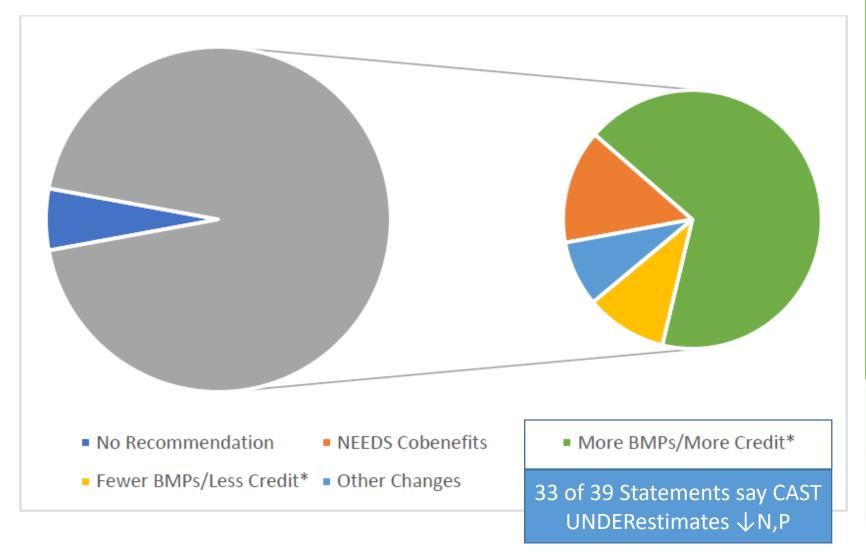
Legitimacy: Models

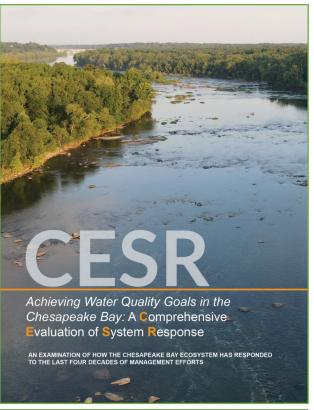


Models vs. Modeling Process



Proposed Changes to Model(s)



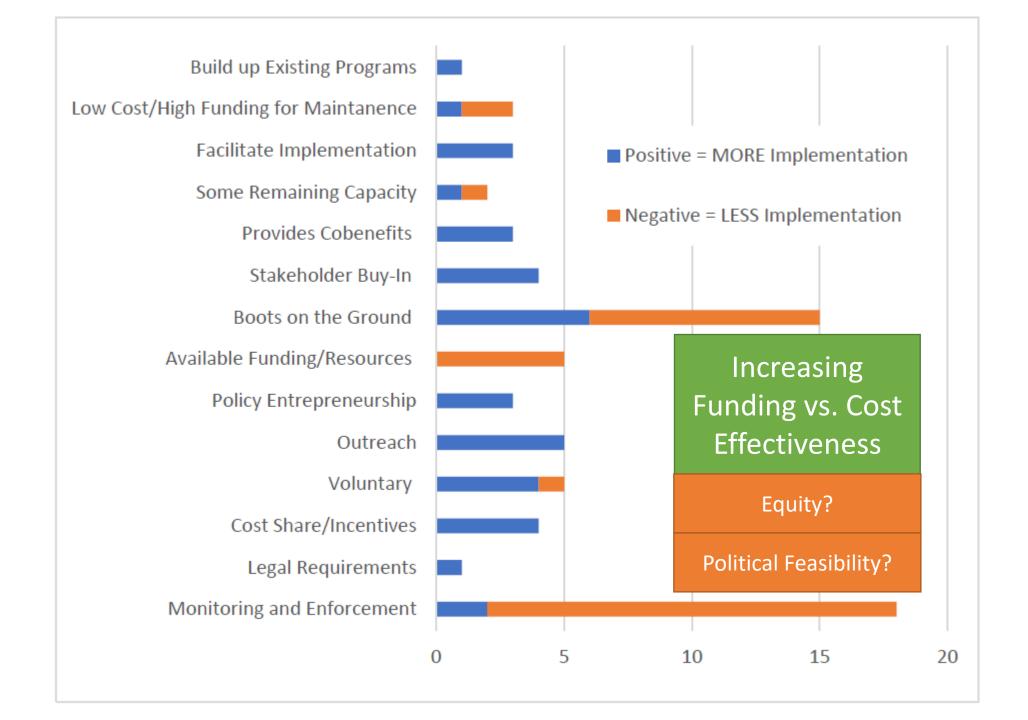


Response Gap

Implementation Gap

Legitimacy: Local-level Equity **Goal Attainment** Effective Partially Effective NOT Effective Effective Institutional Partially Effective NOT Effective Convincing the Unwilling Equity (Among Effective Partially Effective NOT Effective Partially Effective (Local Level) Equity **Building Coalitions of the Willing** NOT Effective 10 20 30 40 50 60

(General)



Acknowledgements



Colleagues who started the snowball sample

59 People who answered my questions!