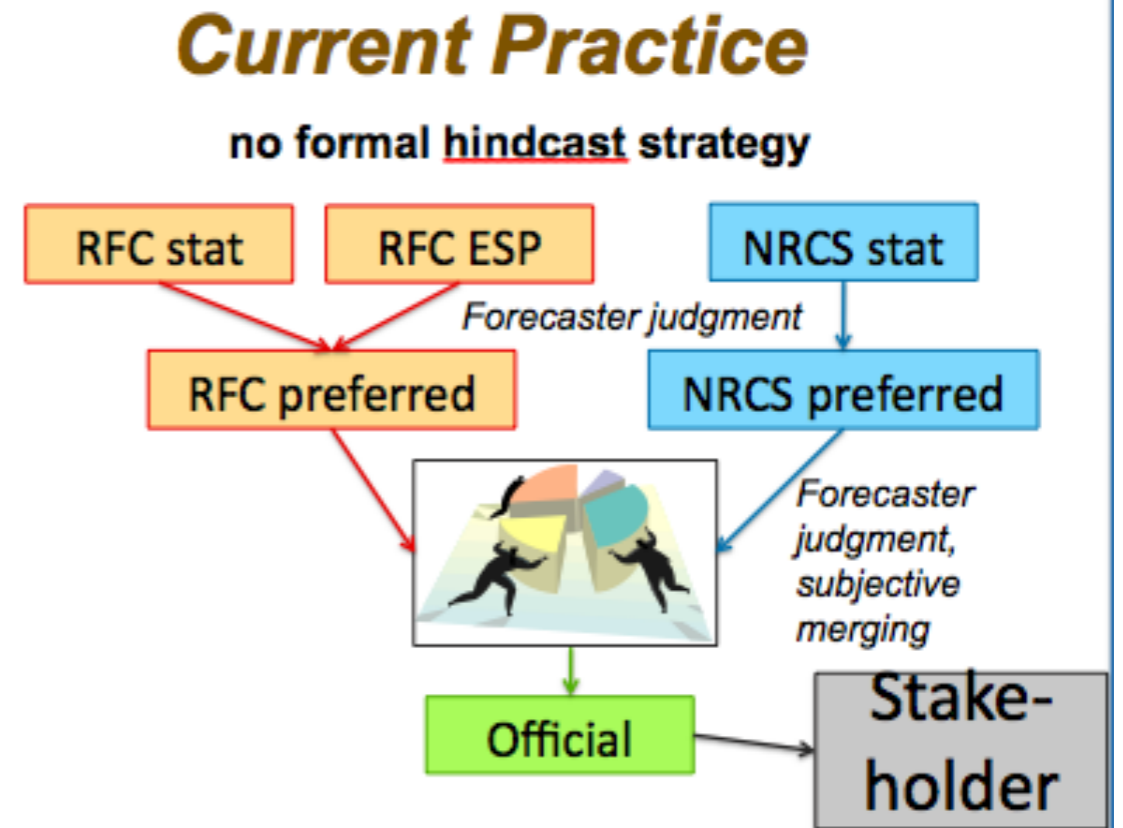


# Future of Water Supply Coordination

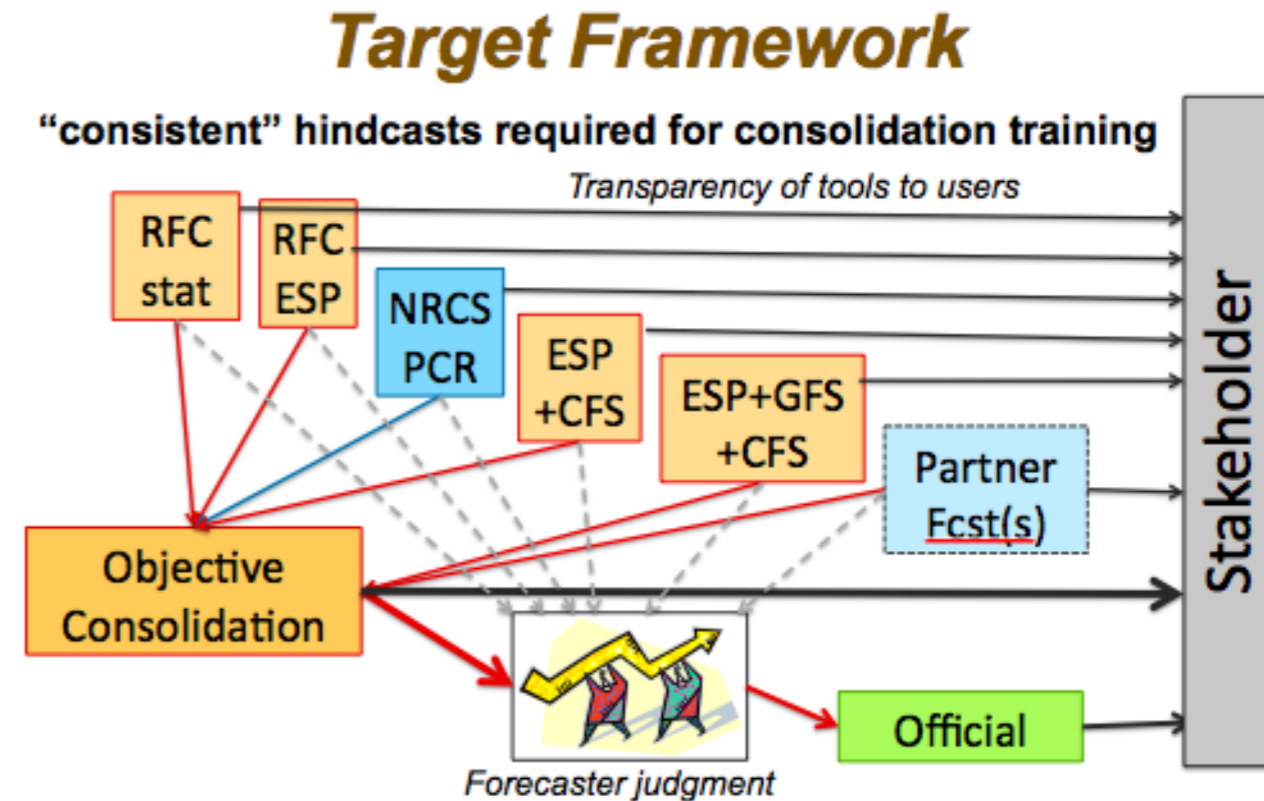
# Past CBRFC Methods

- Official forecasts coordinated each month with NRCS/NWCC
- Skill primarily from accumulating snow pack
- Updated monthly or semi-monthly
- Probabilistic but not ensemble based
- Not repeatable
- Subjective
- Forecaster Role:
  - Monitor forecast process and system
  - Add judgement to forecast process



# Future CBRFC Methods

- Objective, repeatable ensemble forecasts
- Integrate skill from weather and climate predications
- Tailor to stakeholder thresholds and concerns
- Forecaster role:
  - Monitor forecast process and system
  - Apply judgement (less frequently?)
  - Decision support
  - Work to improve forecast system and processes based on objective standards
  - Follow best practices identified by CPC





# New Paradigm

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## Coordination becoming obsolete

- Slows down the process
- Not feasible with frequent updates
- Verification does not clearly show benefit

## Use Objective Combination Method

- Ability to bring in new models
- Reproducible
- More scientifically sound
- Still need hydrologists input



# Official NWS Forecast

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- Users will have access to all model output - ESP, SWS, NRCS, etc.. new ones?
- NWS (CBRFC) will also provide an official forecast:
  - Objective Combination Methodology with forecaster oversight, approval, and explanation.





# Timeline

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- 2012 - old forecast method (coordination with NRCS), and skeleton of new methods in parallel, accessible by stakeholders
  - Explanation when Objective Combination not acceptable
  - Ongoing development during water supply forecast season
  - Goal: Combination method and component forecasts accessible to forecasters and stakeholders
- 2013 - New method only