



# CSSI Framework: Computational and data innovation implementing a national community hydrologic modeling framework for scientific discovery

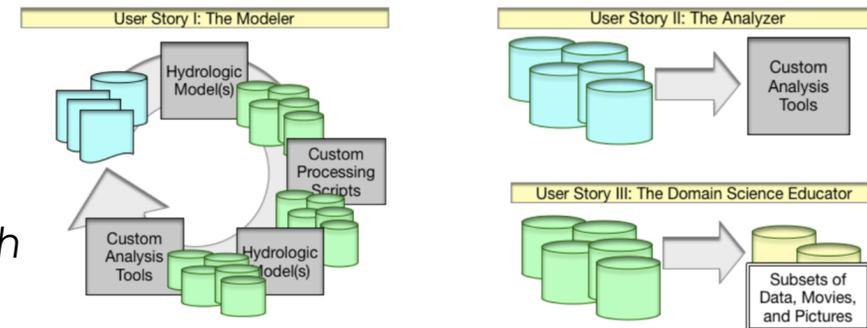
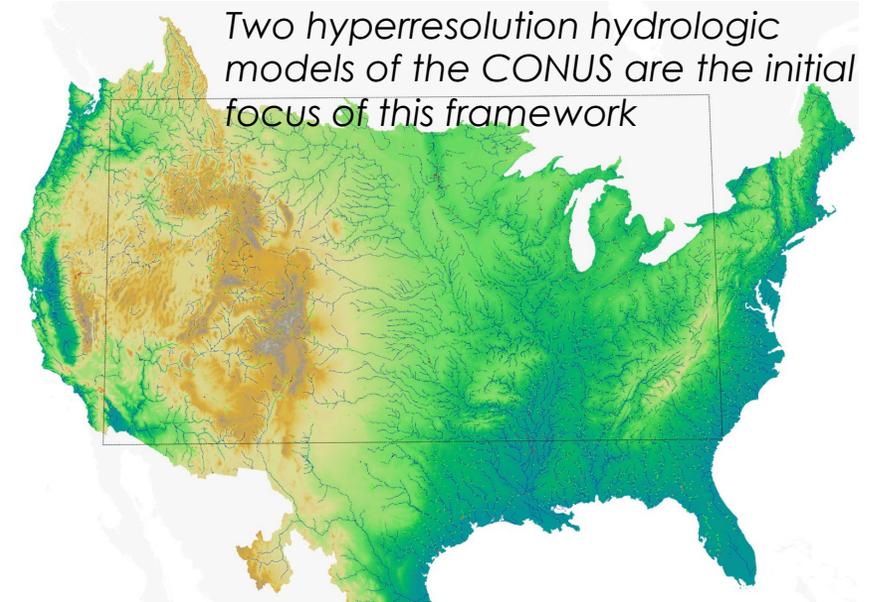
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Award #: 1835903

This project blends **hydrology, computer science, education and outreach** to accelerate simulation, adoption and engagement of continental scale simulation of the flow of water through rivers, streams and groundwater.

- Leverage advances in computer science to transform simulation and data-driven discovery in the Hydrologic Sciences and beyond
- Conduct decadal, national scale simulations which will be an unprecedented resource for both the hydrologic community and beyond
- Remove computational barriers of entry to provide seamless access to what will be almost 10 PB of simulated outputs
- Engage with users from hydrologic modelers to scientists
- Develop K-12 educational modules on different hydrologic systems



**User stories illustrate workflows for interacting with hydrologic models**

Our framework, **HydroFrame**, will provide novel approaches for users to interact with massive datasets and stakeholder outreach will propel the understanding of the hydrologic cycle.



<https://www.hydroframe.org>