



# On Demand Data Reordering for Remote Data Processing and Exploration

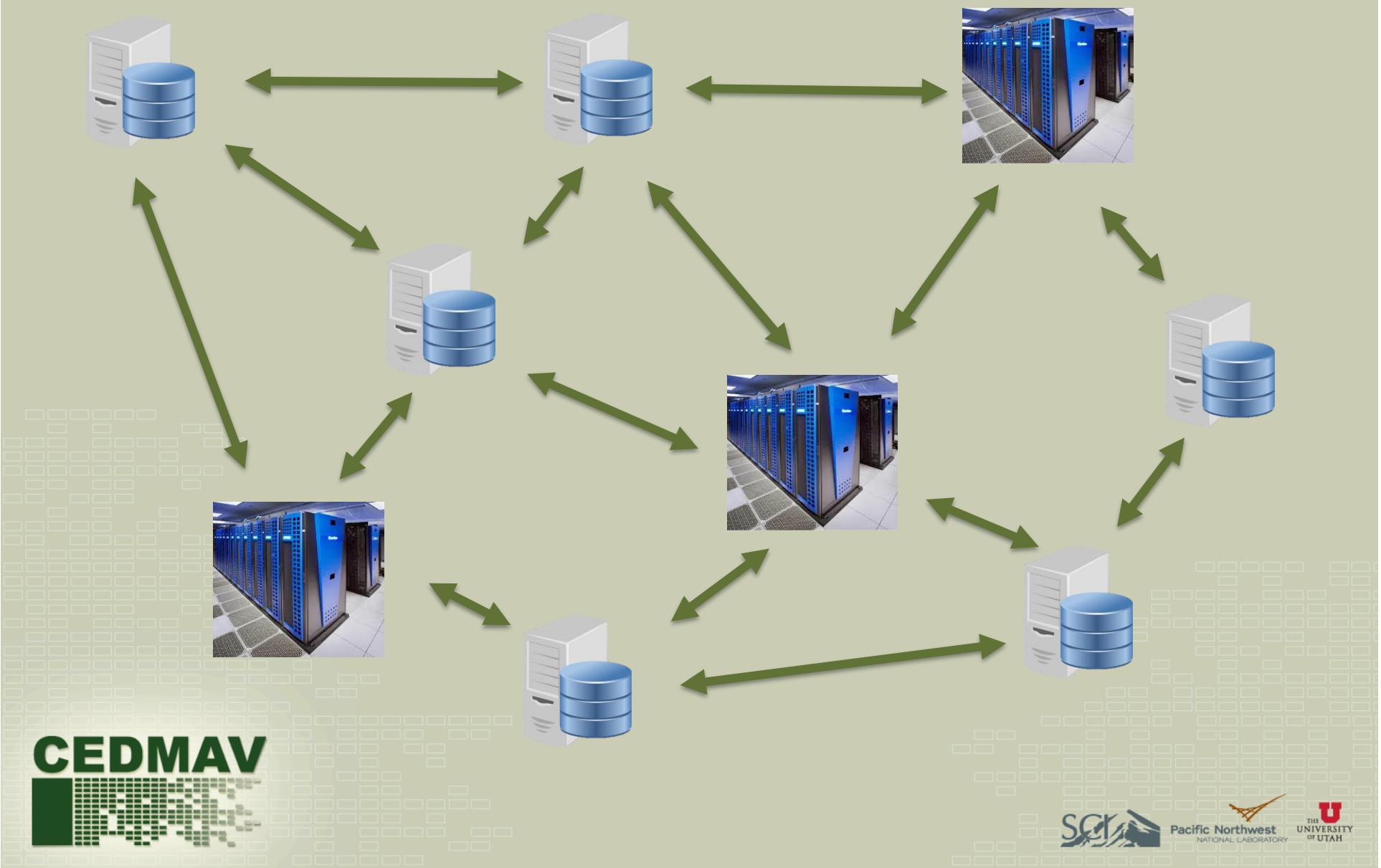
**Peer-Timo Bremer Cameron Christensen**

Center for Applied Scientific Computing (LLNL)

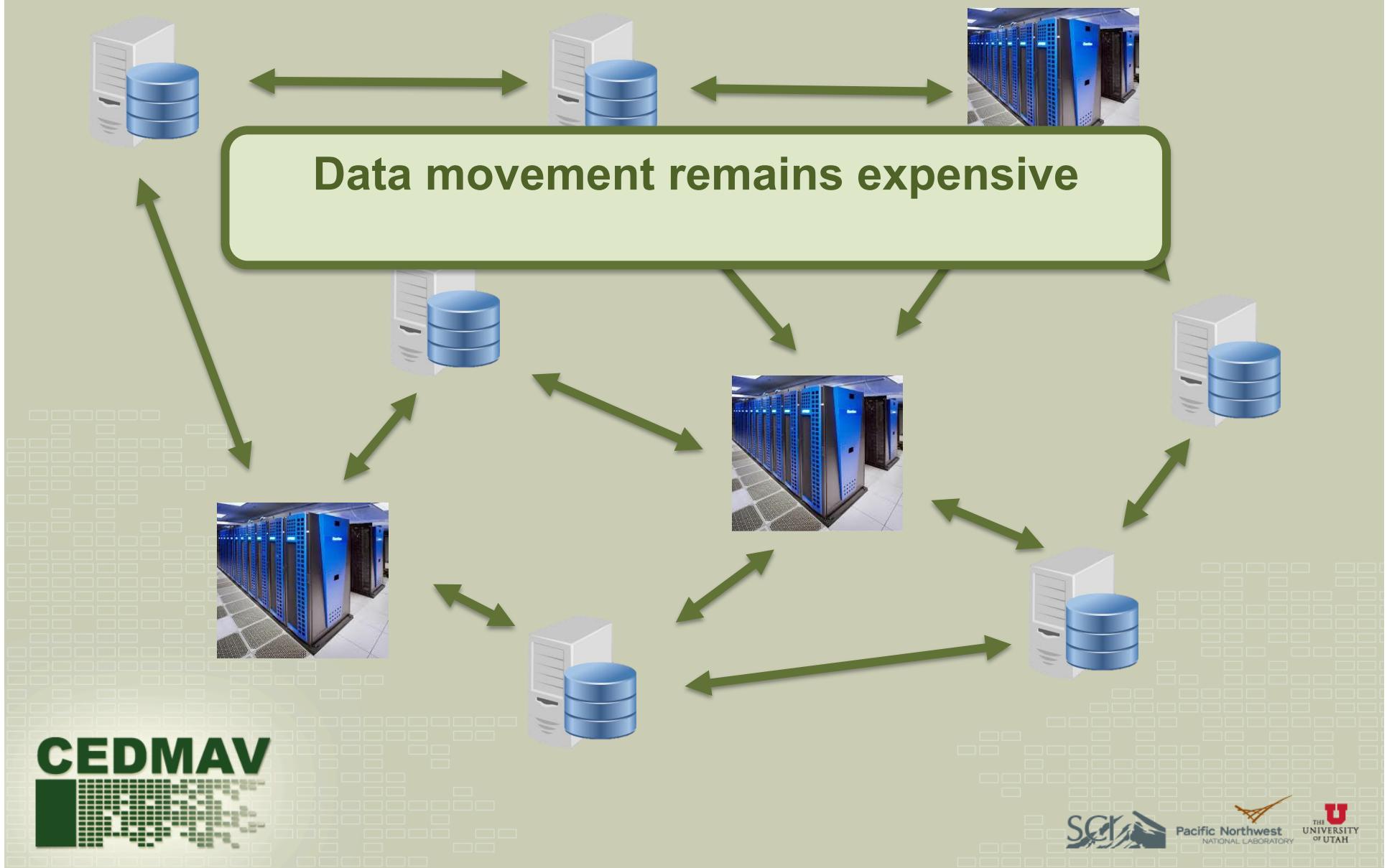
Center for Extreme Data Management Analysis and  
Visualization (U. of Utah)



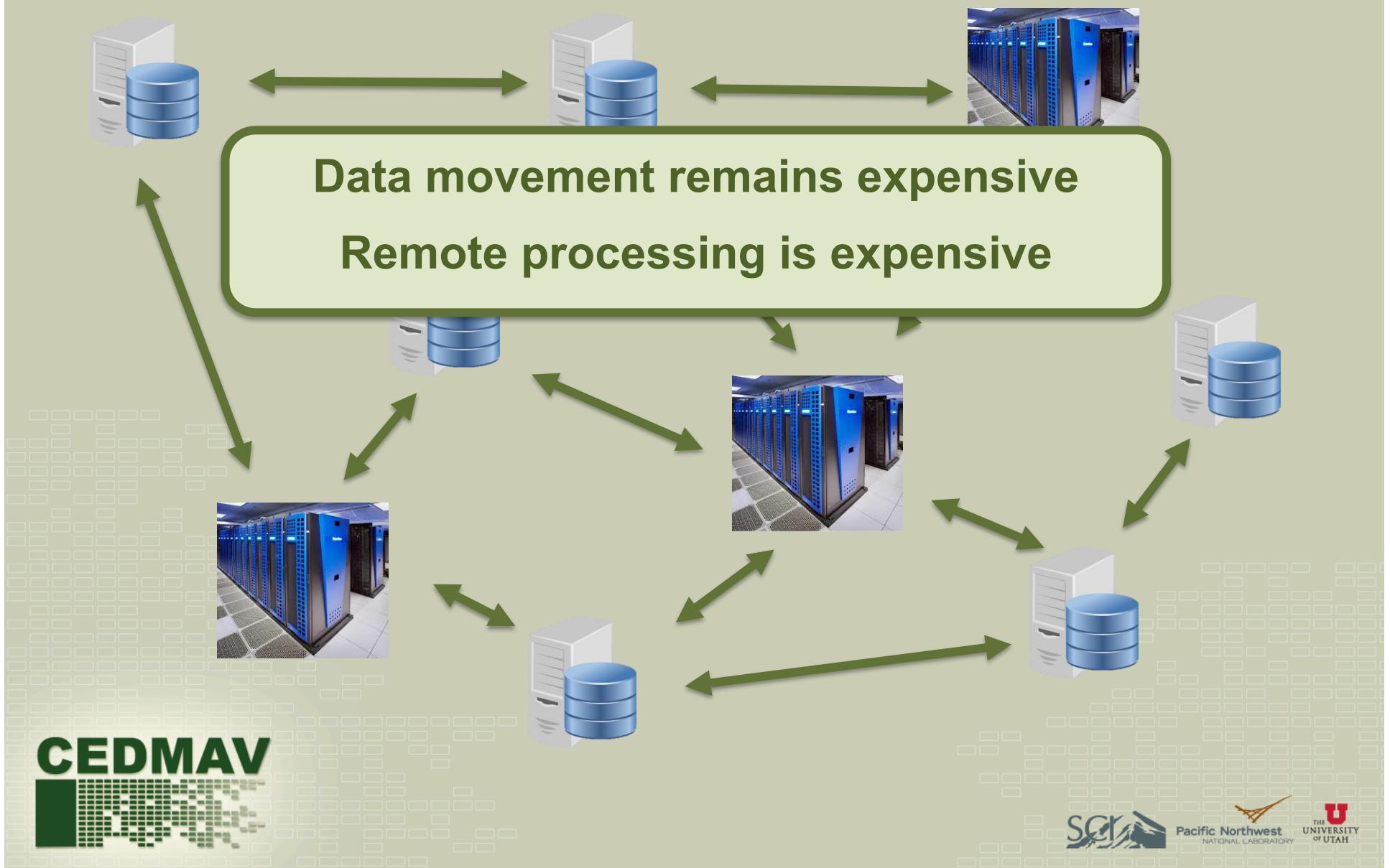
# Through ESG Data and (Soon) Computational Resources are Federated and Widely Accessible



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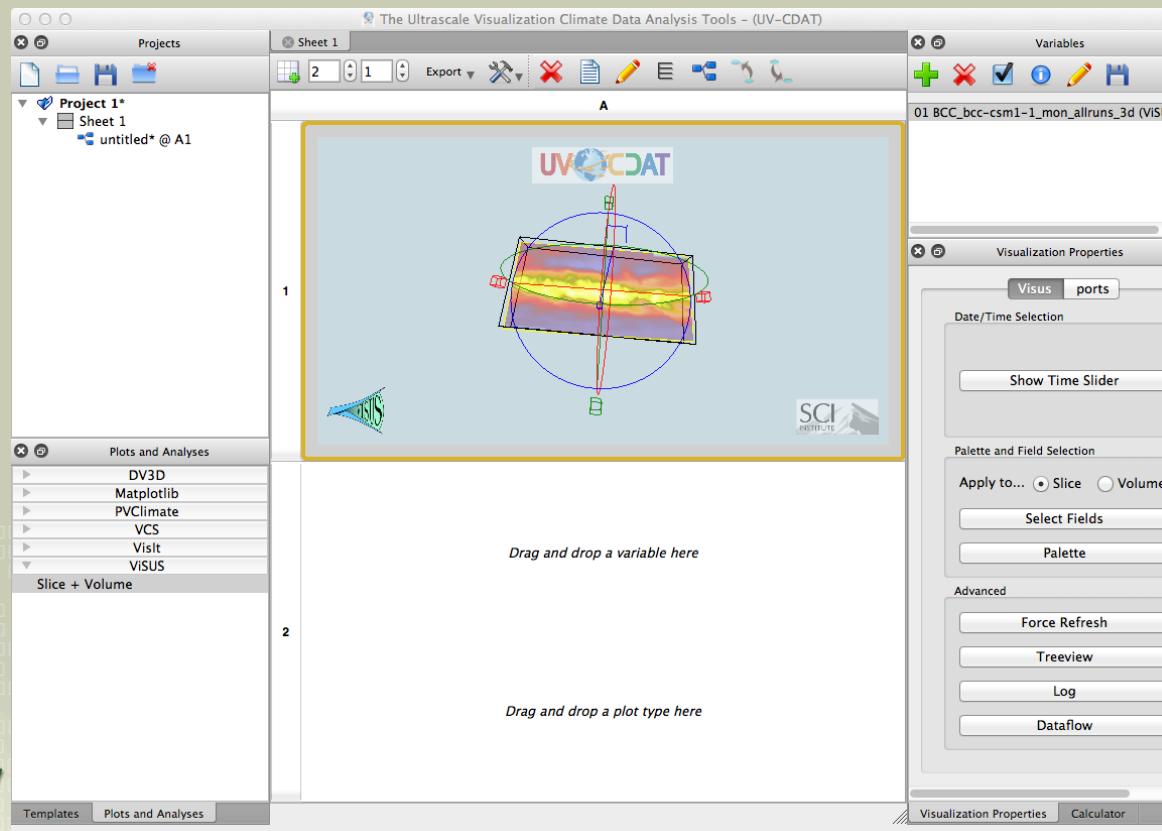


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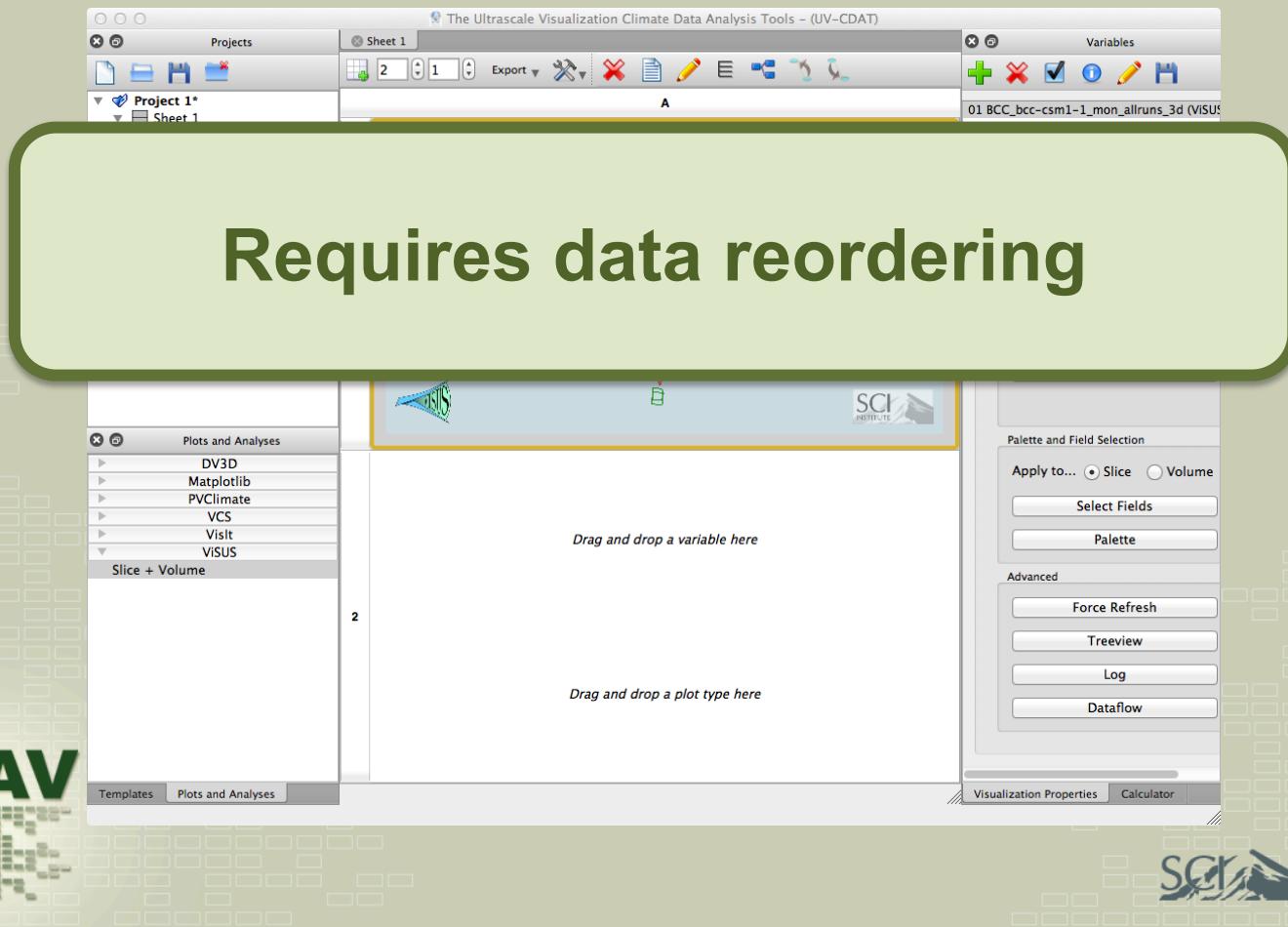
# The ViSUS Infrastructure Enables Interactive Remote Previews of Many Common and Expensive Operation

- Progressive, streaming visualization
- Spatial and temporal statistics, e.g. mean, stddev, etc.
- Flexible ensemble processing



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# Direct Integration with ESG Will Provide On-Demand Data Reordering with Persistent Caches



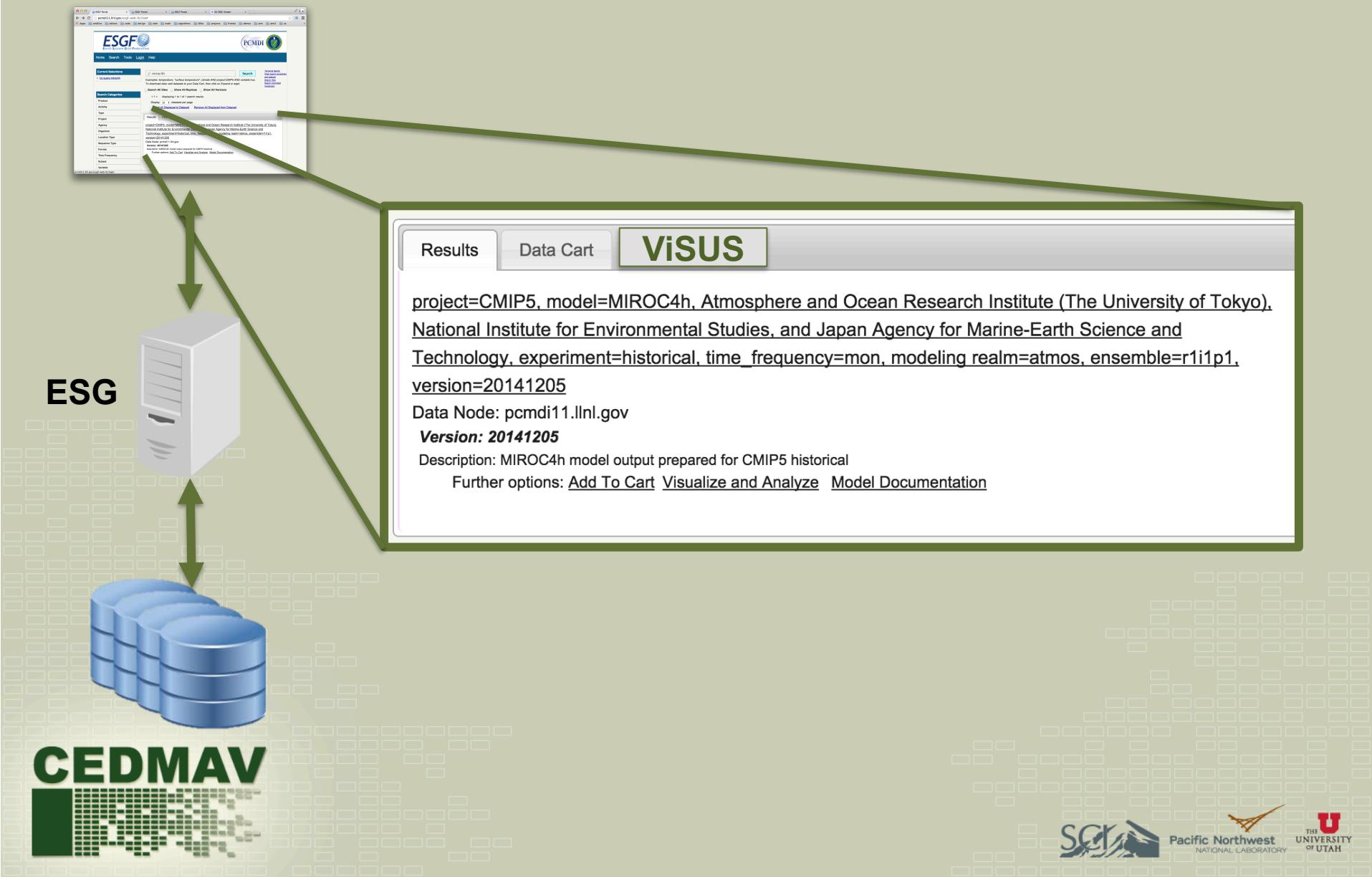
**ESG**



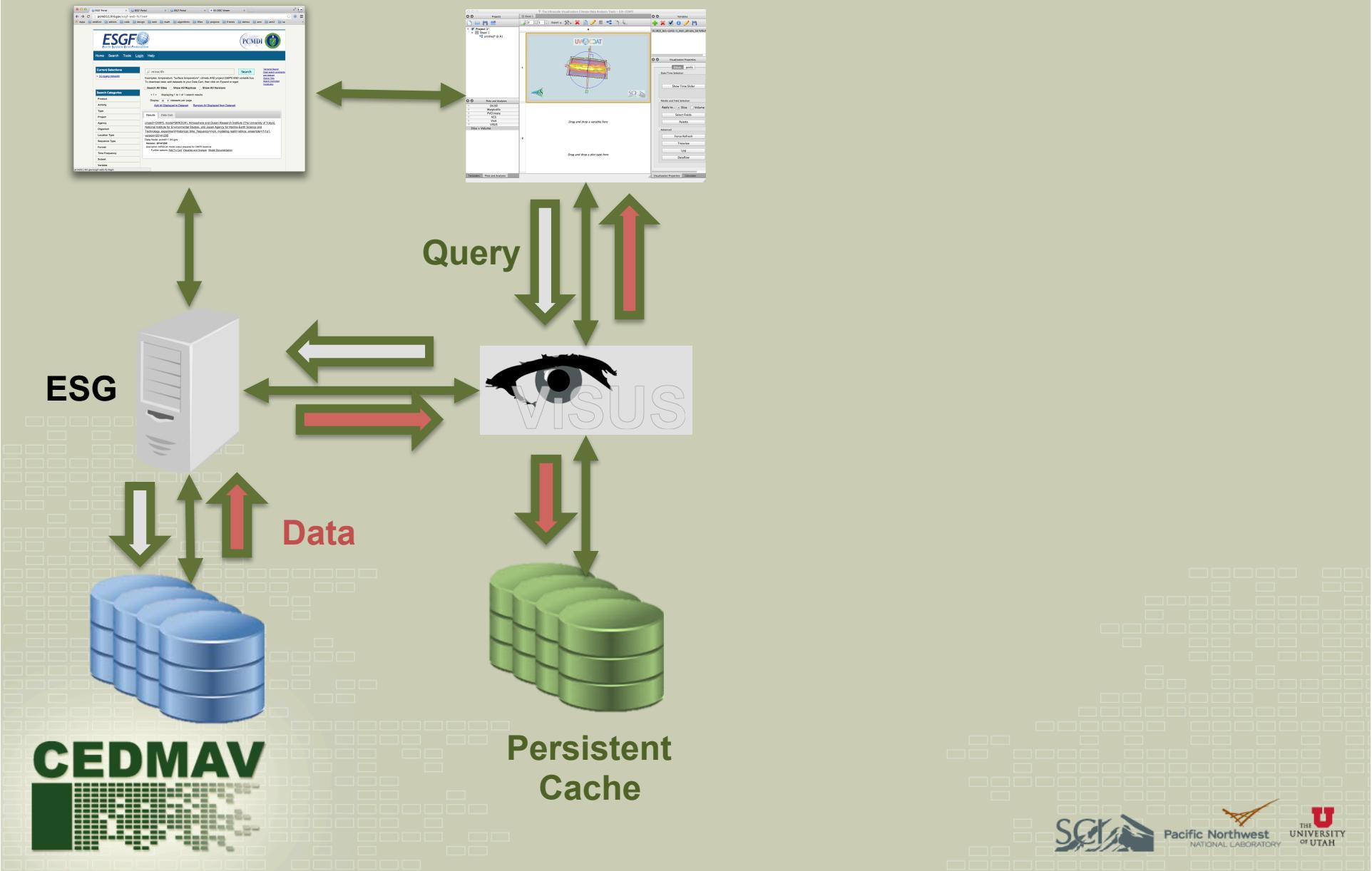
**CEDMAV**



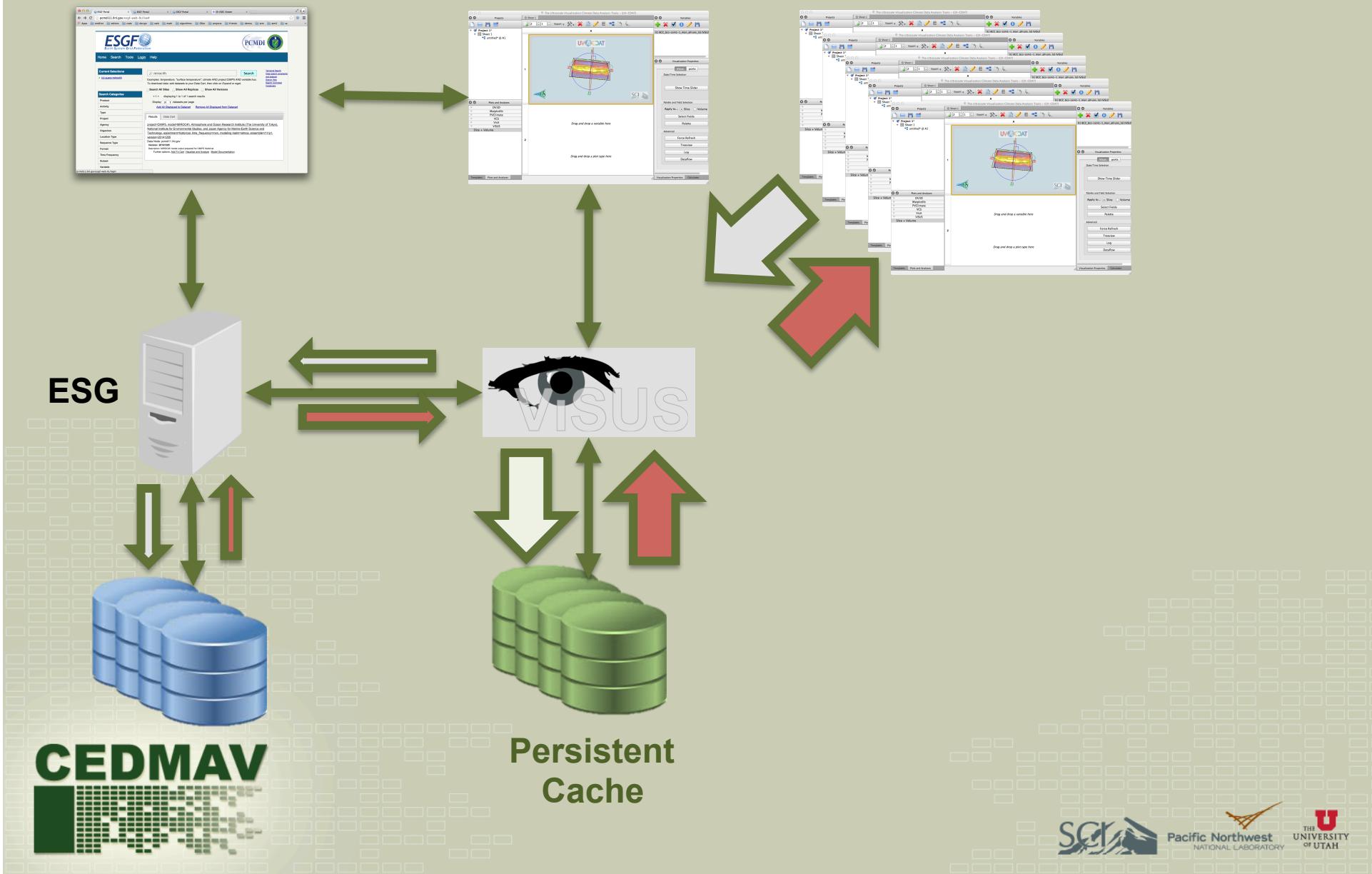
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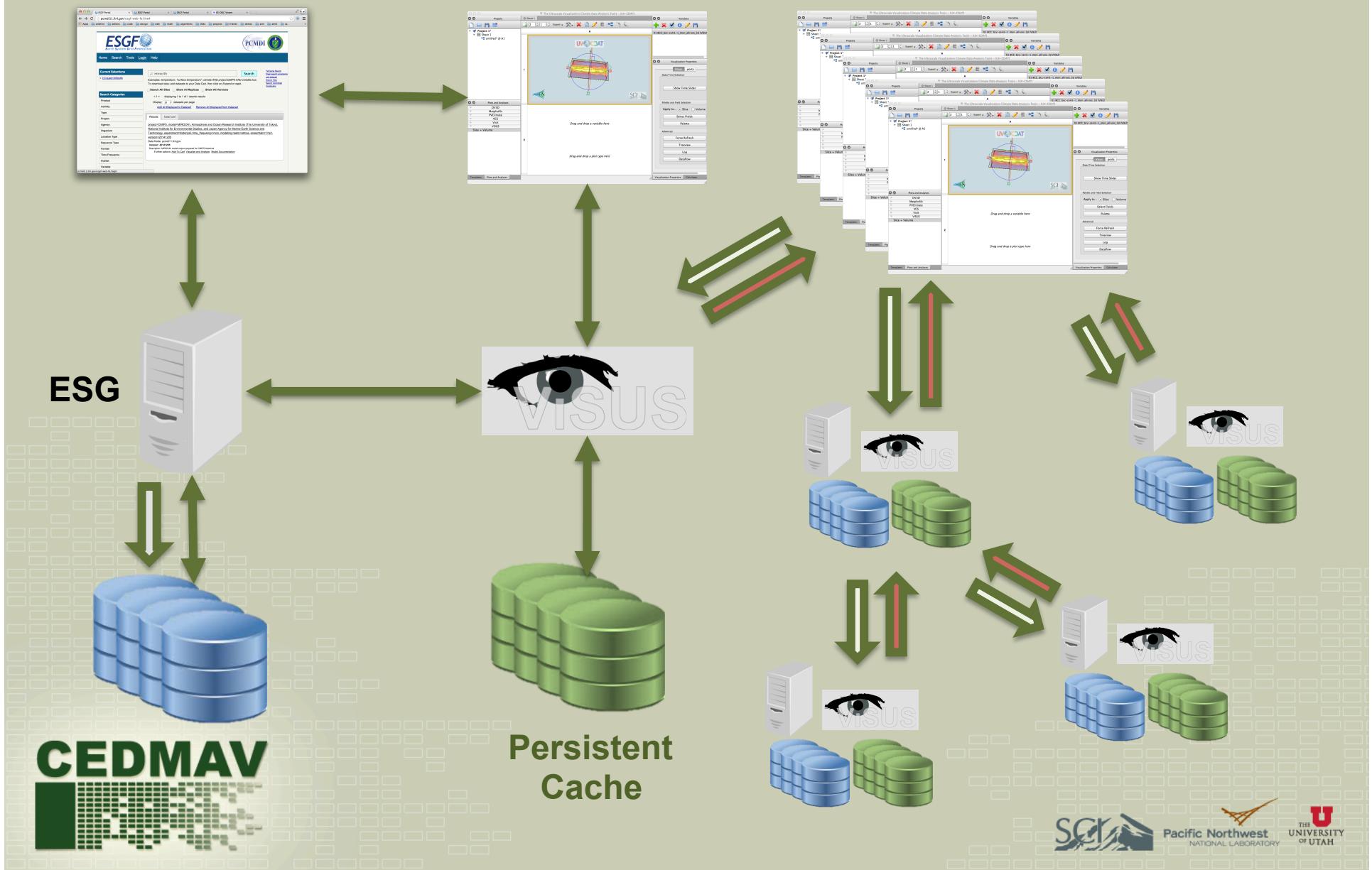
# Direct Integration with ESG Will Provide On-Demand Data Reordering with Persistent Caches



# Direct Integration with ESG Will Provide On-Demand Data Reordering with Persistent Caches



# Direct Integration with ESG Will Provide On-Demand Data Reordering and Processing with Persistent Caches



Pacific Northwest  
NATIONAL LABORATORY

