The VCRWS Infrastructure Data Model (IDM)

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Data, Data Everywhere
How to Manage an Abundance of Data?

Harnessing the Data Revolution (HDR), NSF (2019)
Data through Time and Space

Community Observations Data Model (ODM) Version 1.1 Design Specifications, CUAHSI (2008)
CUAHSI’s Observations Data Model (ODM)

Observations Data Model Schema, CUAHSI (2009)
VCRWS HydroServer
Database Features

• **Data Uploads**
  • 8,000,000 values/minute
  • Data upload log

• **Data Retrieval**
  • 30,000,000 values/minute
  • Retrieves data through a Query Builder
    • Provides plots on the fly
    • Provides summary statistics
    • Allows user to download data as a .csv file

• **Data sharing**
  • Different levels of users
  • Able to share limit ranges of data
Using VCRWS HydroServer
Querying the IDM
Querying the IDM
Querying the IDM
So?
Questions

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