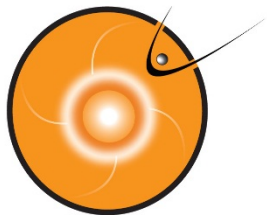


# CCMC Information Architecture and Interactive Archives

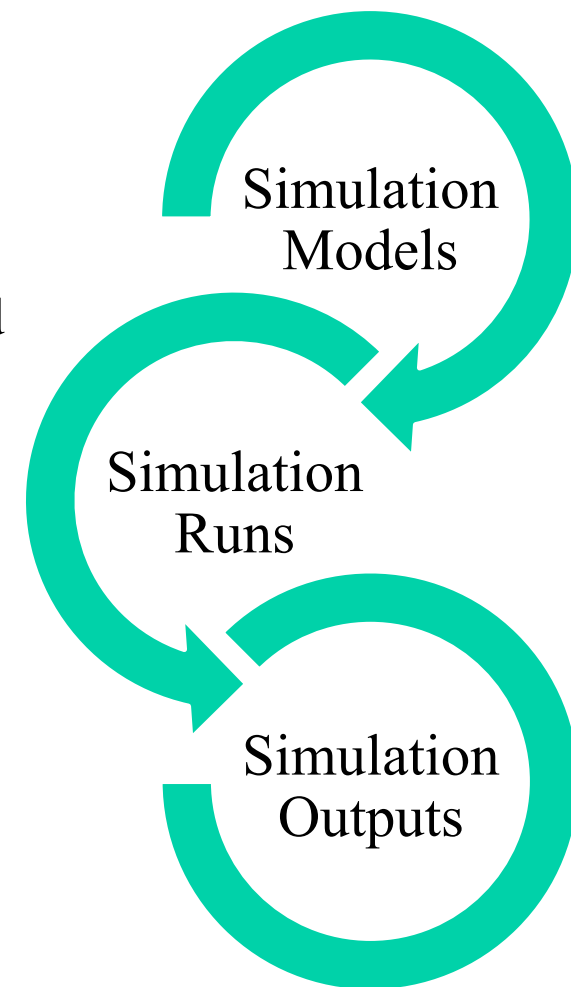
Chiu Wiegand

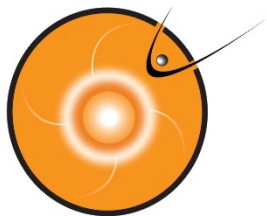


# Model Metadata: models, runs, and output

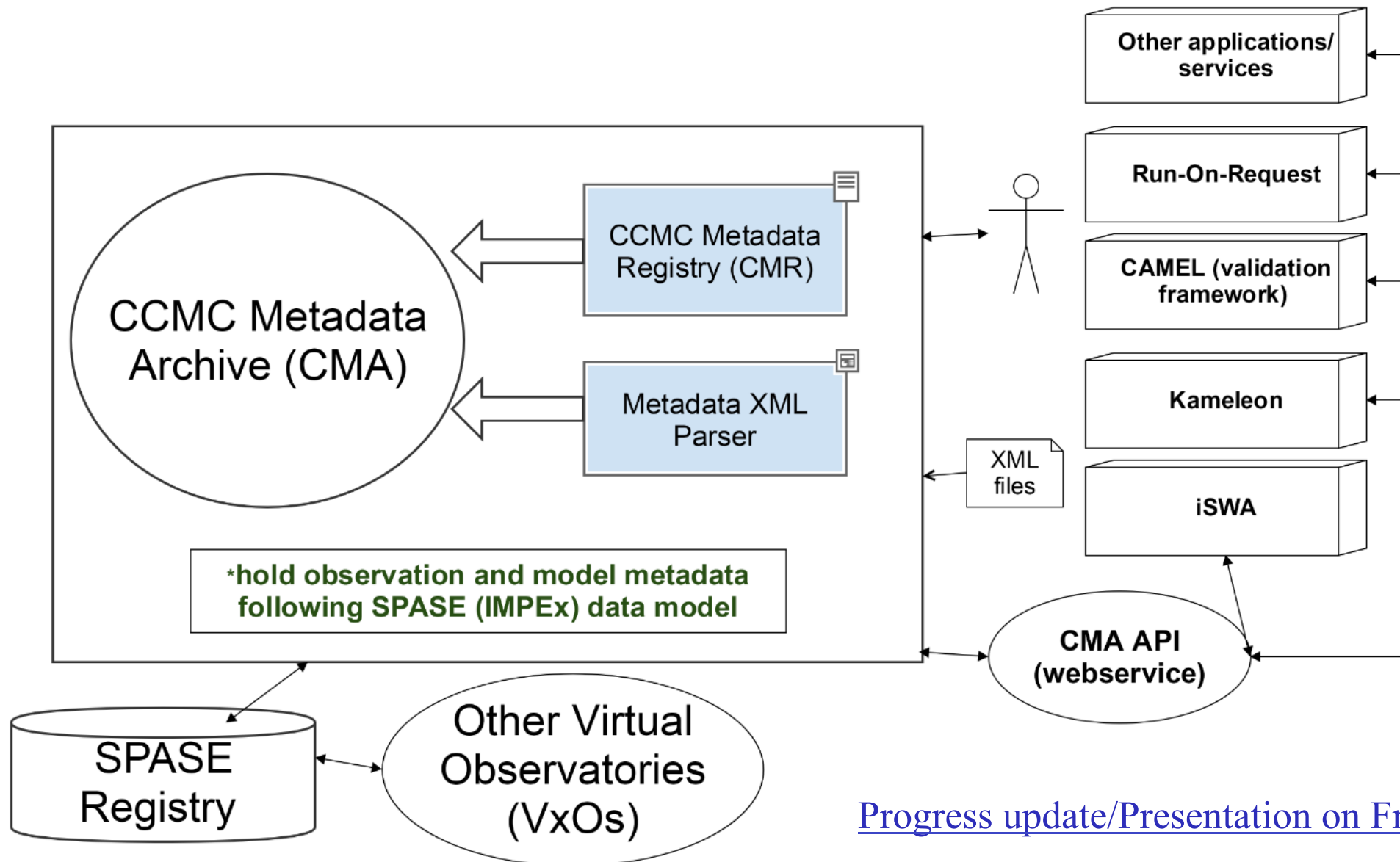
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- **GOAL: Enable and Improve the use of our models for the community!**
  - Centralized CCMC Metadata database store metadata on:
    - Simulation Model:
      - Track all model info and versions
      - Help in implementing the submission interface if input parameters are included
    - Simulation Run:
      - Track all runs info
      - Improve search functionality on our ROR archive
      - Before new run for a model is submitted, check database for an existing or similar run. Provide option for users to view/download a similar run instead of submitting a new run
    - Simulation Outputs
      - Provide API and locations to obtain run outputs for users
- **Focused on providing APIs/webservice for other applications to obtain/exchange metadata/data**

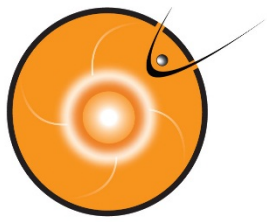




# Using metadata: models, runs, and output



[Progress update/Presentation on Friday morning!](#)



## Data Access and Data Distribution

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- Focused on building common APIs to exchange data with other data/modeling centers
- Use standards if they are available:
  - Example: Heliophysics Application Programming Interface (HAPI) Data Access Specification
    - RESTful API and streaming format specification for delivering digital time series data
    - Learn more by coming to Jon Vandergriff talk on Friday morning
- Use other data/modeling center existing APIs/webservices
  - Example: CCMC collaboration with SPENVIS (Progress update/presentation on Friday morning)