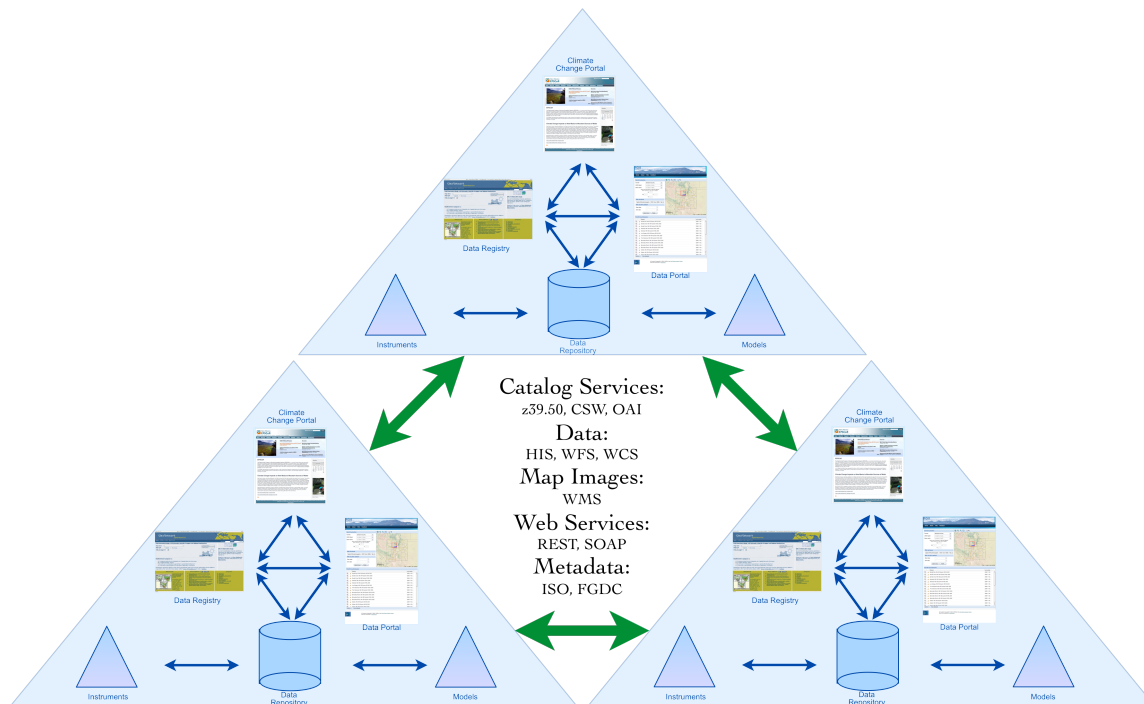


## Highlight Number 4

Title: Adoption of International Interoperability Standards Enables Efficient Data and Information Discovery, Exchange, and Use

Authors: Dr. Karl Benedict (University of New Mexico), Dr. Sergiu Dascalu (University of Nevada, Reno), Dr. Peter Goodwin (University of Idaho, and Dr. Nancy Glenn (Idaho State University)

New Mexico, Idaho, and Nevada are collaborating in the development of science data portals in all three states that support the rapid discovery, access, and use of research products generated by NSF funded mountain hydro-climatology research teams in all three states. Each state is developing infrastructure for the collection of measurements of meteorological and hydrologic system parameters, and are working to develop climate modeling activities that will produce outputs that may be integrated with those parameters. To maximize the usability of the data products emerging from these programs, all three states have adopted international interoperability standards as the core means for facilitating the key activities related to science data and information use: discovery of products that are applicable to specific research, education, or policy requirements; acquisition of those data products; and informed and flexible use of those products in a variety of contexts. The diagram below depicts the science data portal development structure (image by Karl Benedict, kbene@edac.unm.edu)



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