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# DRI Data Legacy

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Alberta Users Workshop

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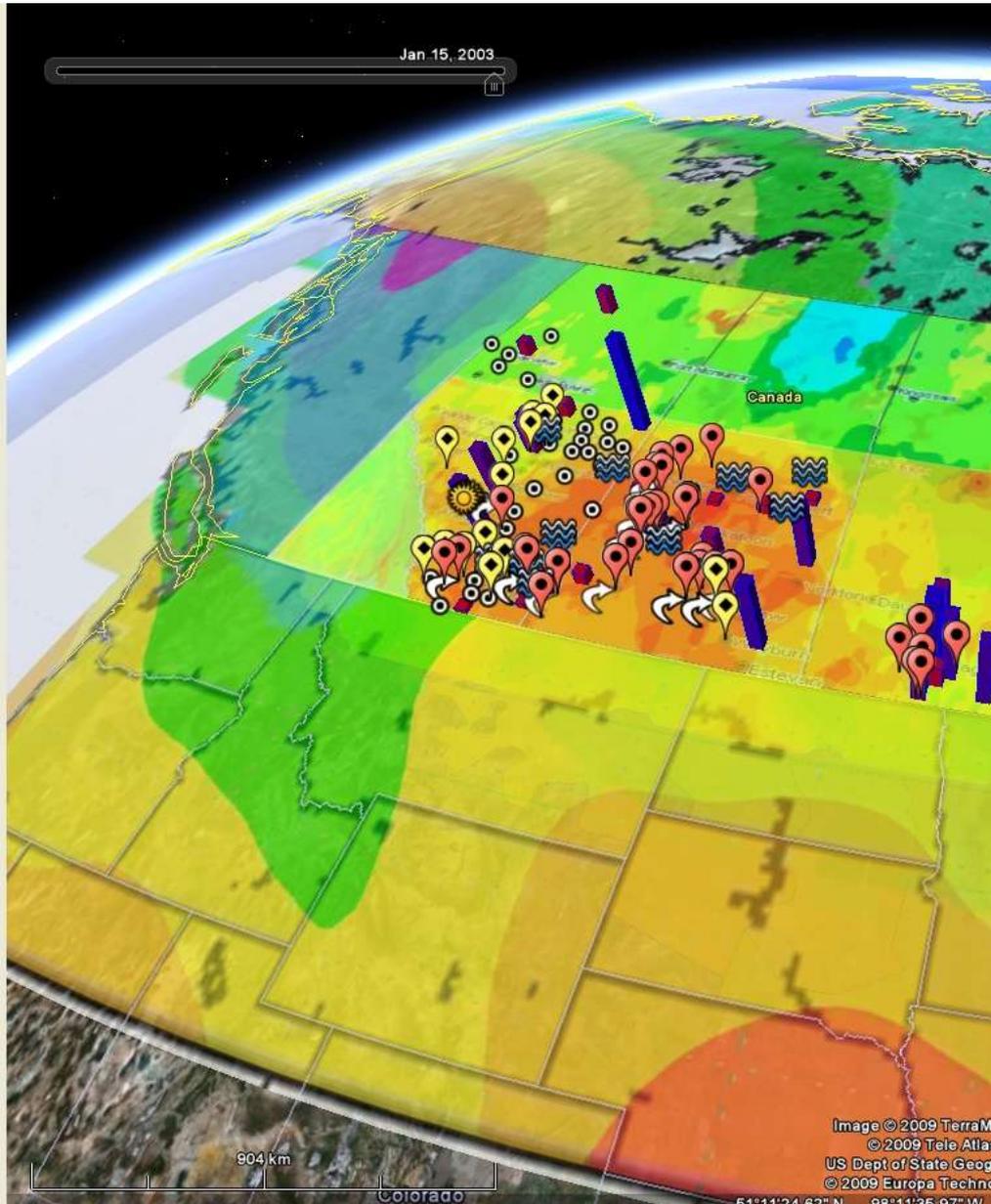
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# DRI Data Legacy

- is an effort to integrate and synthesize access to the data of DRI
  - it will be developed to make data available to end users after DRI is completed
  - consist of
    - a comprehensive centralized store of metadata
    - datasets that are available will be accessible through data legacy
    - data will be visualized through Google Earth where applicable
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# Selection of Data used in DRI

- GRACE Satellite Data
- Observational Groundwater
- Observational Meteorological Stations
- Gridded Temperature and Precipitation
- Hydrometric Stations
- In-situ Soil Moisture
- Dust Storm Occurrence
- Eddy Correlation
- Reanalyses Products
- Satellite Derived Cloud Data
- Spring Pond Counts
- Modelled Soil Moisture
- Modelled Evapotranspiration
- Modelled Plant Available Water
- Modelled Spring Freshet, SWE, SCA....
- Snowcover Area
- Historical seasonal/monthly forecasts
- and much more.....



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# Phase 1 - Metadata

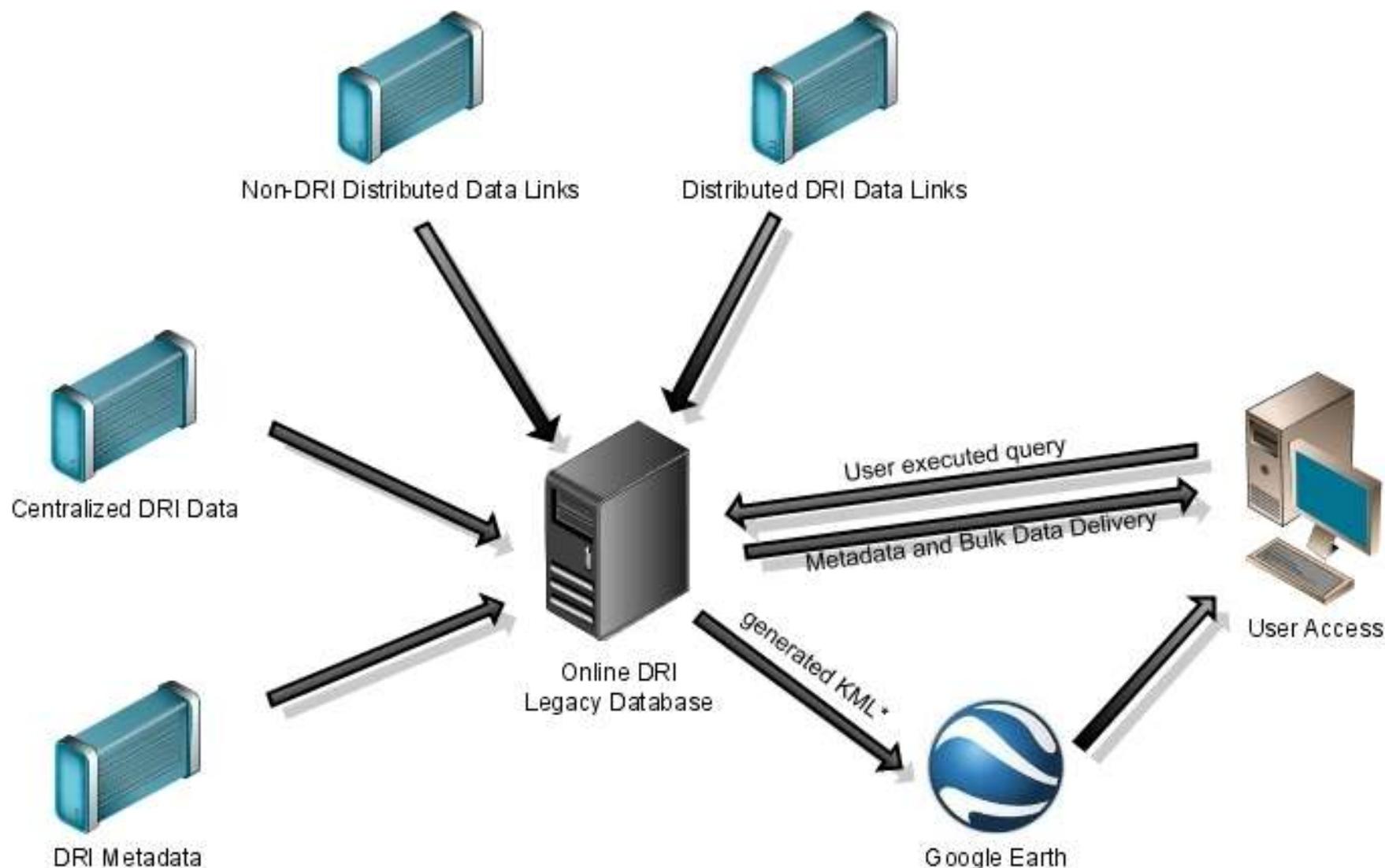
- DRI has adopted the metadata standard ISO 19115:
    - convergence towards ISO 19115 in scientific community
  - Standard will allow DRI meta data to be included in:
    - GEO, World Change Master Directory etc... and other data portals that use ISO 19115 as metadata standard
  - Metadata is being organized into a searchable relational database
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# Phase 2 - Data

- Nature of DRI datasets is unique:
    - Historic focus (1999-2004/2005) means data often collected by other agencies
  - Tricky to define what a DRI datasets is and which ones to archive?
  - Data Organization Route:
    - Online Metadata Database/List will serve as data access portal
    - Available data - centralized archive
    - Unavailable data - distributed archive (links)
  - Google Earth will be used as an interactive data visualization tool were applicable
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# DRI Drought Data Legacy and Decision Support Mechanism



\*KML only generated if selected data is from the Centralized DRI Data

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# Progress

- Online metadata form operational and collecting information
  - Collection of datasets has begun
  - Developed a DRI Data Legacy Policy for after the network ends
  - Developing of DRI Data Legacy Metadata Database
  - Have had commitments from all of the DRI investigators
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# Stewardship after DRI ends

- Data legacy will be made publicly available online after DRI is scheduled to end
  - Current plans are for two archive locations
    - Environment Canada in Montreal
    - National Center for Atmospheric Research (NCAR) in Boulder Colorado
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