Features and Usability

- Expected
  - Search
  - Explorativ navigation
  - Meta information

- Extra
  - Interactive content
  - Extra audience targeting

Evaluation model
- Generic usability evaluation
  - Effectiveness – How well does the system perform its task?
  - Efficiency – What is the quality of the features?
  - Safety – Does the system protect users from unwanted situations?
  - Utility – What is the value of the system?
  - Learnability – How easy is it to learn how to use the system?
  - Memorability – How easy is it to remember how to use the system?

- Accessibility
  - 14 W3C guidelines: Be client independent, be standards compliant, be diverse in presentation, ensure user is in control, clarify natural language, and other.

General Architecture

- Architecture Components
  - Clients – Any consumers of data or services provided by the system.
  - Web / Data Portal – Provides general content (static and dynamic), data access and search capabilities, transformation services, and tools related to the project.
  - Data Sources – Includes entities that generate, aggregate, or otherwise store and ultimately expose data. Data sources may be imported permanently or dynamically accessed.

- Data Flow
  - Illustrates simple data acquisition from sensors at towers installed for the project to the local database. Data may, however, be acquired from any source.
  - Connectivity limitations make the exact data transfer medium/mechanism variable at each location.

Graduate Research Assistant: Victor Ivanov
Victor Ivanov is a student in the University of Nevada, Reno Master of Science in Computer Science program. He possesses a Bachelor of Science of Computer Science degree (2009) from the same university. For his current assignment as a Research Assistant at UNR, Victor participates in the NSF-funded project "Nevada Infrastructure for Climate Change, Education, and Science" as a member of the Cyber-infrastructure team. Victor’s research is centered on determining best software engineering practices that could be applicable to the development of the Nevada climate change data portal.