Energy and Climate:
Dynamic Decision Tools Catalogue and Community of Practice

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Richard Eckman, NASA

January 4-5, 2012

Energy and Climate Cluster Workshop
ESIP Winter 2012 Meeting, Washington DC

Objectives from ESIP 2011 Summer Meeting

- Build transparency of the decision tool architecture, data, and functionality

- Aid the decision maker in tool selection and use appropriate to their planning goals

- Suggest improvements to the kit of decision tools where needed

- Facilitate partnerships in tool development and application

Decision Support Tools Catalog

Community of Practice

Dynamic Decision Tools Catalogue

- A matrix of decision tool functions and features

- Listing of base data layers, their source, and follow on adjustments to the data layer that are component to the decision tool

- Tracking of updates to decision tools

- Keeping a tally of applications of each decision tool

- Contact information for decision tools

- User requirements

- Metadata about the decision tools

- Use cases

- Collaborative environment

- Mapping tools to user applications

- Connecting tools to datasets

- How to better utilize and maximize the value of this tool

- Gap analysis

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ESIP Community of Practice

- Fed Agencies and NGOs
  - Provide requirements, current implementations, and feedback

- Tool developers
  - Engage in defining/refining the proposed architecture
  - Develop a classification of the types of functions decision tools may perform
  - Populate the catalog

- Academic and Research Community
  - Innovate to update or create new decision tools that can address unmet user needs
  - Engage in education and awareness

ESIP can facilitate a partnership between developers and users

Workshop Goals

- Understand agencies, project proponents and NGO concerns and current state of the tools used for assessments
  - Risks and Environmental Impacts associated with Energy Related Projects
  - State of transparency in terms of models used and data behind them in existing assessment tools

- Identify and characterize need
  - Conduct gap analysis
  - Delineate requirements for a Dynamic decision tools catalog and community of practice to provide this transparency

- Provide a framework for ESIP role
  - Engage Academics, Industry, Fed agencies, and NGOs
  - Cross sector understanding of needs
  - Facilitate a community dialog and discussion
  - Maintain decision tools catalog
  - Facilitate partnerships in further tool development

Dynamic Decision Tools Catalogue and Community of Practice : Agenda

Federation of Earth Science Information Partners
MAKING DATA MATTER

January 4, 2012 - Current implementations, Gap Analysis

2:00 – 3:30 PM

- Workshop Goals - Shailendra Kumar, Northrop Grumman

- USGS Ecological Land Use and Sustainability Requirements – Sky Bristol, USGS (WebEx)

- Current tools and Gaps - Laurie Allen, USGS

3:30 – 4:00 PM Break

4:00 – 5:30 PM

- Open EI and energy.data.gov, Robert Bectel, DOE

- Western Governor's Wildlife Council Crucial Habitat Assessment Tool (CHAT), Madeleine West, Western Governors Association (via WebEx)

Dynamic Decision Tools Catalogue and Community of Practice : Agenda (Cont'd)

January 5, 2012 : Next Steps and Technology Solutions

2:00 – 3:30 PM

- Esri Geoportal Server and Energy Related Tools - Christine White, Esri

- ESIP Semantic Web Cluster Activities and Relevance to the ESIP Energy and Climate Cluster - Peter Fox, RPI, ESIP Semantic Web Cluster Chair

- Architecture model for OGC Services Integration - Karl Benedict, UNM

3:30 – 4:00 PM Break

4:00 – 5:30 PM

- Systems Architecture and Implementation - Stefan Falke, NGC

- Drupal-based Implementation – Rahul Ramachandran, UAH

- Project Discussion – Next Steps