

WGA CHAT Regional Viewer Work Group

Application Functionality List

Version 1 – JDH - 15 February 2012

The purpose of this document is to provide a working draft document which describes the type(s) of functionality envisioned in a regional viewer application.

Members should feel free to contribute and comment as desired. Please note when revisions are made with your initials and the date.

- I. Working on premise that regional viewer application will have two primary purposes:
 - a. Serve as ‘early warning’ tool for industry
 - b. Support ‘proactive conservation concerned with cross-boundary issues
 - More on this in the stakeholder document
- II. Two categories of functionality have been identified: (1) Common or ‘Foundational’ requirements – of use at some level by all states and stakeholders, and relatively straightforward to implement; (2) ‘Wish List’ - identified as “would be great to have but may be too sophisticated or expensive” or may be of interest to a smaller set of potential users.

Common

- Area-of-Interest – the ability for the user to upload a polygon, line or point that describes their area of interest to be used to query the Crucial Habitat (and other) layers.
- Data Download – the ability for the user to download data that is included in the Regional Viewer to their computer for further analysis and mapping.
- Data Service – the ability to the user to access data from the Regional Viewer as a service to ingest into their own desktop computer.
- Red Flag Query – the ability for the user to identify an area of interest (point, line or polygon).
- Relative Rankings – folks thought in no-way should the query/reporting functions return to the user a “build/no-build judgment” for the area of interest. It should instead return a report that included relative rankings.
- Add Data – a button should be included that allows the user to add data for use in the Regional Viewer.
- Attribute Query – provides user the ability to query the Regional Viewer data layers by attribute and display the landscape features that satisfy the query (e.g., all polygons with a Crucial Habitat Ranking = 2).
- Locator Services – a gazetteer of place names, township/range, etc. to provide the user the ability to quickly proceed to an area on the map (Happy Valley, etc.).

Wish List

- Custom Identify – ability to point to one-or-more 1-Mile Grid Cells and see a description of the underlying data inputs that contributed to the Grid Cell score.
- Reporting Function – the ability for the user to receive a structured report that lists and describes landscape features that would be of concern in the area of interest (e.g., Resources-at-Risk Report) and receive the report as a .PDF file.
- Log-In Disclaimer – a set of carefully constructed text the user must acknowledge and click through that explains the intent and limitations of the data.
- Scale Dependent Links Between Regional Viewer and State CHATS – this item includes several considerations but basically, the user could start to work with data at a gross scale in the Regional Viewer and when the user zooms into a level that exceeds the accuracy of the regional data the user is presented with a message “You are now leaving the WGA Regional Viewer web site and are proceeding to the State of Nirvana CHAT” where the map would re-fresh and show state-specific data instead of the regional scale data. *This assumes that the area of interest is actually mapped at both the regional and state level. For states without their own CHATs the regional tool would simply stop zooming at a pre-determined scale and would not link out.
- Scenario Builder – The ability for the user to open a work session and name that session (e.g., Scenario1), the user could then set a user-defined buffer distance and then run some analyses (e.g., raw intersect or least-cost path) to maximize the avoidance of crucial habitat in a particular area-of-interest. The analysis would generate a structured report that lists and describes landscape features that would be of concern in the area of interest (e.g., Resources-at-Risk Report). The session could be saved and closed and then additional Scenarios run for comparison.
 - Could include indicator metrics, with user definitions, etc.
 - Multicriteria rating and weighting
- Path Routing
- 3D Visualization
 - Fly-thrus
 - Transect Profile Visualization
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