**2005 NSDI Cooperative Agreements Program**
**Participation in The National Map**
**Technical Report**

# University of Idaho Interim Report

The goal of this category is to assist organizations and consortia to work with the USGS to develop The National Map. Please use this format to develop a brief and succinct interim or final project report, as appropriate.

*List:*

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|---|---|
| Cooperative Agreement Number: | 05HQAG0134 |
| Project title: | Idaho National Map |
| Project start and end dates: | 9/30/05 – 9/30/06 |
| Lead project organization: | University of Idaho Library |
| Project Lead: | Lily Wai |
| USGS Mapping State Liaison: | Tracy Fuller |
| Collaborating organizations (list): | |
| Data themes: | Orthoimagery, transportation, boundaries |

Project Summary

*a. Describe the project; its tasks, highlights, challenges, and accomplishments. What are your approaches to overcoming impediments to participation in The National Map? Based on your experience what would you recommend for implementation and development for project success (technical, institutional and organizational)?*

This project focuses on finalizing the infrastructure and partnerships needed to integrate up to date public domain data for Idaho for three framework themes. These framework data are now accessible via the Idaho National Map OGC WMS service. The capabilities file for the service is located here:

1.1.0:
http://maps.insideidaho.org/wmsconnector/com.esri.wms.Esrimap?ServiceName=wms_TNMIdaho&VERSION=1.0.0&REQUEST=GetCapabilities

1.1.0/1.1.1
http://maps.insideidaho.org/wmsconnector/com.esri.wms.Esrimap?SERVICE=WMS&REQUEST=GetCapabilities

The following URL can be used to attach to the service from an application such as ESRI ArcGIS
http://maps.insideidaho.org/wmsconnector/com.esri.wms.Esrimap?ServiceName=wms_TNMIdaho&

Tasks completed to date for this project include purchasing and configuration of the hardware, installation and configuration of the software, loading of the orthoimagery data into Microsoft SQLServer via ArcSDE, and initial programming of the automated management application to harvest remote data sets. All of these have gone quite well. The hardware is in place, the orthoimagery data has been loaded, and the initial programming of the automated management application is complete. The most challenging of these to date has been the loading of the orthoimagery data and the programming of the application. The orthoimagery layer was challenging due to its size and therefore the processing time required. Once a couple of months of configuration and testing were complete, it took approximately 7 days for the final loading. The application is challenging due to variability in the attributes of the transportation data we are harvesting. The lack of a state standard makes things a little more difficult.

*b. Describe the data themes provided through The National Map. Are there any use restrictions? Are your map services and data documentation (metadata) registered in The National Map and Geospatial One-Stop? What is the status of maintaining, updating and serving themes of data that are included in The National Map? Based on your perspective and project experience describe user requirements for a national level spatial data infrastructure.*

Through this map service, we are providing 2004 orthoimagery and 3 transportation layers. We are retrieving local data from Kootenai County and Nez Perce County as well as a statewide layer from the Idaho Transportation Department. We are working with USGS-Boise to finalize the boundary layers for inclusion in this service. There are no restrictions on the data available through the service. Metadata for our service is complete and will be harvested on a weekly basis from Geospatial One-Stop. We are working with USGS-Boise to get the service included in The National Map.

*c. Describe the operational capability to maintain and update data through periodic updates of data made available through The National Map.*

As long as the entities from which we are harvesting update their metadata, our automated management application will ensure data that we are harvesting (transportation) will remain up-to-date. Our application runs each week to determine if the data have been updated. If the data have been updated, we harvest the latest copy for inclusion in The National Map. If the state of Idaho coordinates a future statewide imagery purchase, we will work to include that in our Idaho National Map service. The boundary layer is being assembled by USGS-Boise and discussions are under way about who will be responsible for maintaining those data.

*d. Discuss the issues, difficulties, and challenges (both technical, institutional and organizational) that were encountered. How can the CAP program be improved.*

The technical challenges include the size of the imagery data and automated harvesting of the remote transportation data sets. In Idaho, it is still difficult to get local government to make their data available via the Internet. It is yet another step to get the to create and maintain metadata to

facilitate harvesting. Lastly, our biggest challenge is to identify a reasonable level of cyclical funding for data sharing efforts in order to support regional and national programs. The CAP program has been of vital importance to us as we implement new technologies to support national initiatives.

*e. Describe your relationship and issues with the USGS. Has a formal ongoing agreement been established to provide data and web services through The National Map? Describe your plans for follow-on activities. What are the terms and mutual commitment of resources? Please attach copy of written agreement if available.*

Our relationship with USGS, primarily through our liaison in Boise, has been excellent. Formal agreements have not been drafted with USGS to provide data and web services through The National Map but they integrate seamlessly with all the things we do. INSIDE Idaho and the state have an MOU for data sharing which is the basis for many of our efforts. That document can be found here:
http://www2.state.id.us/itrmc/committees/igc/mou_insideidaho.pdf

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