

2007 NSDI Cooperative Agreement Program

Category 5: Geographic Information Integration and Analysis

Cooperative Agreement Program Number: 07HQAG0093

Project title: Ohio OSIP Data Delivery

Interim Report

Report Date: November 7, 2007

Project start and end dates: Start – September 1, 2007; End – August 31, 2008

Lead project organization: Ohio Office of Information Technology \ OGRIP

Project Lead: Stuart R. Davis, Administrator, Enterprise Shared Services

USGS Mapping State Liaison: Charles E. Hickman, 614-430-7768, chickman@usgs.gov

Collaborating organizations: (members of the OGRIP Council)

County Auditor's Association of Ohio (CAAO)	Office of Information Technology (OIT)
County Commissioners Association of Ohio (CCAO)	OGRIP Forum Chair
County Engineers Association of Ohio (CEAO)	Ohio Association of Regional Councils (OARC)
Department of Development (ODOD)	Ohio Environmental Protection Agency (OEPA)
Department of Natural Resources (ODNR)	Ohio Municipal League (1 for cities over 100,000) [City of Cleveland]
Department of Transportation (ODOT)	Ohio Municipal League (1 for cities under 100,000) [City of Galion]
Institutions of Higher Learning [Cleveland State University]	Public Utilities [AEP]

Data themes: Imagery and DEMS

Project Summary

Ohio's Statewide Imagery Program (OSIP) captures high resolution digital ortho imagery covering the entire State of Ohio. Through this cooperative agreement, the Ohio Geographically Referenced Information Program (OGRIP) will publish through OpenGIS® Web Map Services the statewide 1-foot pixel resolution color digital imagery, 2.5-foot Digital Elevation Model, and 1-meter color infrared imagery data to GIServOhio, The National Map, and the Geospatial One-Stop portal.

Work Plan Activity	Actions Taken	Actions Remaining	Percent Complete
1.) Define Data Products	Beyond the specified product deliverables, additional products have been identified to provide users greater access to products, specifically the development of countywide DEM mosaics to facilitate analysis on regions larger than a single 5000'x5000' tile. Creating compressed archives of countywide data sets to better facilitate downloading of products.	Based on original project scope this action is complete, however the process for defining derivative products is ongoing based on feedback from the user community.	100
2.) Develop Storage Architecture	A 7 terabyte SAN Partition was created to store OSIP deliverables could be stored in a location accessible to all applications on the network. Http and ftp data downloads are also available from this location.	None	100
3.) Metadata Definition	Defined metadata elements for OSIP 1FT Color Orthos, LiDAR, DEMs, SID Mosaics, and Web Map Services. Developed templates to be used in metadata creation.	None	100
4.) Metadata Creation	Developed metadata records for individual files for each of the OSIP data products created for the 51 Northern Tier Counties. Metadata records created for individual tiles, county and statewide mosaics, and map services.	Create and load metadata records for remaining 37 Southern Tier Counties.	60
5.) Data Loading	All data received by the GIS Support Center has been loaded onto the SAN for access by all applications agency wide. Published metadata records for Countywide 1FT SID mosaics and web services to GIServOhio and GOS.	Load 37 remaining county deliverables as they are received.	60

6.) Create LizardTech Express Server Services	Loaded Sid data onto Express Server Application Server. Created an image catalog from it. Imported the irl files to Arc IMS Application Server. Created an axl file. Created Arc IMS Service. Made Service public and available via Metadata Explorer, geospatial one-stop and IMS Web Viewing Application.	None	100
7.) Create SANZ EarthWhere Services	None. This task has not been completed due to EarthWhere's inability to support the Ohio State Plane NAD83 HARN projection.	Ingest Ortho, CIR, and DEM data upon EarthWhere support of Ohio State Plane NAD83 HARN projection.	0
8.) Create ArcIMS and OpenGIS Web Map Services	Imported the express server irl files to Arc IMS Application Server. Created an axl file. Created Arc IMS Service. Brought the service into the WMS connector, edited the capabilities file, and made available to the public via Metadata Explorer and geospatial one-stop.	None	100
9.) Formalize NSDI Steward Agreement	None	Receive, review, approve formal NSDI Steward Agreement.	0
10.) Project Presentation	Gave a presentation at the 2007 Ohio GIS Conference on the NSDI, CAP Grant program, and OGRIP's participation in The National Map.	None	100

Operational Capability

The operational capability to maintain and update data is shared between the staff and technical resources of the State of Ohio's GIS Support Center (GISSC). GISSC Staff has completed the migration of metadata services to the state's GIServOhio platform and enabled Z39.50 capability. OGC compliant Web Map Services have been developed and are currently available for consumption. Further comments on staffing and data maintenance procedures will be provided as part of this project's *Final Report*.

USGS Relationship

The GISSC, located within OIT's Enterprise Shared Services Division, intends to continue staffing GIServOhio. No commitments for "mutual" staffing with any outside organizations have been formalized, though oral data stewardship relationships exist with State of Ohio agencies for which certain data sets are critical.