

Attachment D

NSDI Cooperative Agreements Program Framework Client Development Interim and Final Project Summary Format

CIRGIS, the NSDI grantee, is currently developing brief documentation of the data and server configuration approach. The documentation will be provided as part of the CIRGIS Final Project Summary and will be in a form, with graphics, that can be followed by others for adoption. [Brief documentation of the data and server configuration approach taken is required in a form, with graphics, that can be followed by others for adoption.]

Agreement Number: 06HQAG0097

Interim report: 15 September 2006

Organization:

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Collaborating Organizations: Collaborating agencies, their contact and website is provided below.

| <u>Organization</u> | <u>Contact</u> | <u>Website/Contact</u> |
|---|---------------------|--------------------------------|
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| California State University Channel Islands | Prof. Sean Anderson | sean.anderson@csuci.edu |
| Ventura Community College | Steve Palladino | spalladino@vcccd.net |
| City of Oxnard | Dave Endleman | David.Endelman@ci.oxnard.ca.us |
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| City of Simi Valley | Aaron Russell | arusell@simivalley.org |
| City of Thousand Oaks | Paul VanZuyle | pvanzuyle@toaks.org |
| USGS | Carol Ostergren | costergren@usgs.org |
| Channel Islands Nat'l Marine Sanctuary | Ben Waltenberger | ben.waltenberger@noaa.gov |
| Channel Islands Nat'l Park | Rocky Rudolph | Rocky_Rudolph@partner.nps.gov |
| Santa Monica Mts. Nat'l Recreation Area | Denise Kamradt | Denise_Kamradt@nps.gov |
| U.S. Fish & Wildlife Service | Kirk Waln | kirk_waln@fws.gov |
| Air Photo USA | Mary Hurley | mary@airphoto.com |
| David Magney Environmental Consulting | David Magney | david@magney.org |
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[In writing the report keep in mind the goals of your project under this category: to establish, register, and maintain an operational Web Feature Service for Framework data.] (Note: we interpret this to mean Web *Mapping* Service for our grant category.)

Project Narrative

Project activities from 15 March to 15 September 2006 include establishment of the CIRGIS Technical and Data committees and the Administration and Outreach Committee.

The Technical Committee has set up a prototype server and has obtained agreement with Ventura Community College to host the server and provide high-speed internet access. The Data Advisory Committee has identified and developed an inventory of the base data, including parcel, aerial images, centerlines, political boundaries, elevations, list of available natural resources data, LIDAR and infrared images, available from collaborating agencies and other sources.

The technical committee has established three prototype WMS services to check capabilities of our hardware and software setup. They are:

<http://www.cirgis.org/wmsconnector/com.esri.wms.Esrimap?ServiceName=test>
http://www.cirgis.org/wmsconnector/com.esri.wms.Esrimap?ServiceName=toaks_test
http://www.cirgis.org/wmsconnector/com.esri.wms.Esrimap?ServiceName=toaks_test_UTM

The first is designed to demonstrate the serving of locally-stored data. The second is designed to show the serving of remotely-stored data, including imagery. The third demonstrates the serving of remotely stored vectors and imagery that is reprojected on the fly from State Plane coordinates to UTM. Thus we have created the option to build our WMS services from a mix of data copied to our central server and read live from our collaborating organizations.

The Administration and Outreach Committee, responsible for finances and outreach, has developed a tracking method for monitoring progress of the project including time accounting. We have also identified three events for publicizing our services: [GIS Day 2006](#) at Ventura College; the [CalGIS 2007](#) conference in April 2007; and the [ESRI user's conference](#) in June 2007.

We have already collected a substantial portion of the data promised in the original proposal, and are in the process of establishing additional services to publish the data.

An additional challenge we have taken on is to identify supplemental data pertinent to the project that could be made available on the web site and develop working relationships with the GIS sections of Ventura, Santa Barbara and San Luis Obispo county governments.

Status of your data access activities

What Framework data theme(s) will be accessed under this project?

Cadastral data for Santa Barbara and Ventura counties, governmental units for many of the cities and other administrative areas, high-density LIDAR data for selected areas of the region, orthophotography for urban areas, and road centerlines for the two counties.

The dataset size of this coverage is estimated as follows: a) 250 GB of aerial imagery; and b) 500 MB of Vector data, including 400,000 parcels. [What is the data volume of Framework data anticipated for access (geographic coverage, dataset size, feature count)]

The primary organizations providing data for this project include CIRGIS itself, and the Cities Simi Valley, Thousand Oaks, Ventura and Oxnard.

Status of Framework Client Development

This project does not include development of software [What is the status of software development?]

How will the client software be evaluated and quality-assured? NA

Describe your experience and purpose in accessing the data services?

Describe any internal or external users that are using this client.

Identify plans for the promotion and distribution of this software.

Project management

The Technical Committee will design map services and post additional framework layers as they are identified and acquired by the Data Committee.

The Administration and Outreach Committee continue its outreach to include additional organizations in the project and to acquire their data to host on the CIRGIS server.

Current outreach activities indicate that the CIRGIS Data View will become an external server for several cities and other public entities. This committee is working with these entities to determine their needs and how best to serve their data to the public.

The CIRGIS Project's activities will continue in the future. At the completion of the grant the server and data will continue to be managed at Ventura Community College by CIRGIS members. The College will continue to support this project as a member of CIRGIS. It is anticipated that the CIRGIS server will ultimately become an off-site server for several member organizations, such as the cities of Oxnard and Thousand Oaks.

Describe the next phase in your project:

During the next phase of the CIRGIS project, the Technical, Data and Administration and Outreach Committees will continue working to complete the following tasks:

1. Database design (using the Ventura Regional Data Model as a guide)
2. Data collection
3. Business process design (for updating data from providers on a regular basis)
4. Service and web page design
5. Purchase large capacity server

Requirements (more technical assistance, software, other?) Here's a recap of some of our questions from the July 26 conference call:

1. What are the USGS' expectations for grant recipients? Beyond finishing the project by next March, and responsibly spending the money, do you have specific objectives that you would like us to meet, such as level of service, number of layers, etc.?

2. Are there best-practise examples of local WMS services that you can provide? We've looked at <http://www.mapdex.org/search/index.cfm> and come up with good ones, such as http://web.apps.state.nd.us/wmsconnector/com.esri.wms.Esrimap?ServiceName=NDWMS_GeneralInfo&

Are there other local services you can point to as good examples?

Are there examples from previous grant recipients in this category that you can recommend we look at?

3. Technical contacts. We've settled on ArcIMS 9.1 SP2 for the time being. Can you recommend resources in or out of the USGS that can recommend best practices?

Again, how did last year's recipients do it? Any published work on this topic yet? We risk reinventing the wheel otherwise.

4. How exactly will the services we create work inside the National Map? What viewers will be required to fuse them?

5. Where does GOS fit into this picture? We know from our state liaison that we need to register our services there once they are created, but what other registrations are necessary or useful?

What areas need work?

1. Cartography. How should the map services we create be symbolized? Is there a specification or a set of example services we can use for guidance? Even better would be actual code (e.g. an AXL file) with the exact renderers for different framework layers.

Feedback on Cooperative Agreements Program

CIRGIS will provide feedback on the Cooperative Agreements Program in the Final Project Summary Report at the end of the project. The feedback will address the items listed below:

What are the program strengths and weaknesses?

Where does the program make a difference?

Was the assistance you received sufficient or effective?

What would you recommend doing differently?

Are there factors that are missing or need to consider that were missed?

Are there program management concerns that need to be addressed? Time frame?

If you were to do this again, what would you do differently?