

## Technical Advisory Committee Meeting

August 23, 2011

333 E. Six Forks Rd., 3<sup>rd</sup> Floor

Attendees: Colleen Sharpe (chair), Dianne Enright, John Farley, Tom Morgan, David Giordano, Jeff Brown and on the phone, Alex Rickard.

### 1. TAC Workplan

Committee workplan – Approved with no additional changes.

### 2. NC OneMap Requirements

Prioritize what can be accomplished without funding. Per the June 21 meeting David and Brett were to look over the previously documented requirements (attached) to see what has been handled to date, and then rank, based on level of effort and expertise, those that have not been addressed. The spreadsheet is color-coded: Green (done), Red (not done), Yellow (in-progress), Gray (does not pertain to TAC). David and Brett have identified what can and can't be done without expenditure (column G).

As context, David presented an update on NC OneMap: MS Project tasks and timetable were displayed. Completed tasks: identify natural groupings of data layers for map services; create and consolidate existing IMS services to ArcGIS Server10 services. By the end of August: Create services for older imagery; Enable download of old imagery by tile.

September timeframe: Integrate map service checker into Geospatial Portal. A message would go to the map service custodian alerting them there is a problem with their service; possibly integrating with the FGDC Service Checker. Can we notify others (e.g., someone requesting data)? User can "check service" in the search results of a Geospatial Portal search result (for WMS). Colleen mentioned that Twitter be considered as for information dissemination; follow NC OneMap or "NC GIS ". Twitter would include content that goes into the NC OneMap blog. Variety of content and flexibility is the advantage. Can include RSS feeds in tweets. Photos can be attached.

October timeframe: Agile development of first iteration of NCOM viewer. Initial technical approach: Could start with Flex out of the box. There are downloadable functions from Esri (widgets). David said requirements of the viewer may determine the technical approach. Lack of Flex programming experience at CGIA; initially would be limited to downloadable items. Colleen said Adobe is very common (Flex), but it does not run on i-pad and i-phone. Android will support Adobe. Flash is the issue. Silverlight is an alternative. Javascript – CGIA staff is more experienced in this.

Many of the requirements have been completed by the IMAGE10 project.

Requirements not yet completed:

1. Improved interaction – layers in viewer and scale dependencies; search and add to map is on method; Wake uses scale dependencies.
2. Data as map services—in progress
3. Simple viewer for hosted data services
4. Statewide basemap – Community map. John Farley said DOT sent in the first set of updates to Esri. Imagery is not visible underneath (opaque); Colleen Sharpe said you can blend the two in a fused cache.
5. Distributed; response time of slowest service – speed and performance relies on centralized data; some performance enhancement is likely with the newer technology.
6. Archiving – in process; NC OneMap is sending data to State Archives. Cannot download from State Archives.
7. Download in multiple formats – geoportal – if money available in 2012, more customization.
8. Transparent WMS; centralize or use cascading maps?

9. Printing and plotting capability for the viewer – getting into cartography; print screen with default layout; there are widgets for legends; lower priority; balance a simple map that is not cartography; keep it basic; maybe a few layers.
10. WMS-you get whatever the GIS person created. Create and print as is.
11. Multiple types; in process; imagery is not cached;
12. proactive WMS service status and maintenance -- part of service checker
13. Restrict download capabilities by size – done for imagery
14. Select and download raster and vector – raster achieved;
15. Bookmark and share functionality – GeoPortal

Requirements tend to fall into two categories:

1. Viewer solutions
2. Distributed data is a limitation

John Farley asked if DOT getting data archived through NC OneMap. David said right now it is limited to NCOM SDE superseded sets that are received on a routine basis. NCDOT and others—needs a discussion. What is being archived and what is not being archived? Implement the standard. For example, municipal boundaries. Invite Kelly Eubank to the next meeting. David could do a presentation on archiving NC OneMap data now. There is some server capacity at State Archives. GeoMapp project will be completed by the end of 2011. In preparation, TAC could review the work of the archiving committee. A goal is to develop recommendations for local and state governments.

Data discovery will go through the portal. Search or browse (for a list).

Tom Morgan suggested adding the ortho image index to the geoportal download imagery tab download map (with a scale dependency).

CGIA will take an agile approach to a revamped viewer. The viewer test environment will be accessible to TAC for review and comment (not meeting). The committee members will have a few days for comments. Brett and David choose the sequence of functions. A prototype will be developed. Colleen offered Justin, at the City of Raleigh, as a resource if Flex is the avenue taken. John Farley added that NCDOT is using Silverlight (.NET environment). Colleen mentioned that David Headburg at Wake County has experience with Silverlight if that becomes the solution to take. CGIA should use whichever approach will be most comfortable. NC has an ELA with Microsoft.

Colleen noted that a map viewer is most valuable as a previewer for discovered data; not an all-purpose viewer; possibly providing a link to ArcGIS online and other resources for more map layers, and establish a public presence on ArcGIS for NC OneMap. Given resources, this is the most beneficial approach.

Links to local map viewers—how can viewers discover IMAPS and other county viewers.

Seamless parcels (centralized) versus local map viewers: Tom noted that 10 percent of parcels change hands in a year, so an annual snapshot is at least 90 percent accurate for ownership.

The next meeting is November 22, 1-3pm.