

Agenda GIT 9/7/17 9:30 – 11:30; 1500 Jefferson Building Rm 2208

- Key Findings from Discussions with GIT CIO's
 - Organizational, Budget, Strategic
- Key Findings from Discussions with GIS Staff
 - Coordination, Technical, Communication
- Recommendations for moving forward
- Overview of GIS Committees at the State
- Review GIT Purpose and Goals
- Hosting Options for GeoPortal
 - WATech vs Esri
- General Updates (Committees, Metadata, Imagery, Interoperability, National)
- Planning for the Future



GIT Committee Meeting September 9, 2017

Meeting began at 9:30 a.m.

Attendees: Joanne Markert (OCIO), Minette Knotts (OCIO), Steve Leibenguth (DSHS), Julie Jackson (WSDOT), Rob St. John (OCIO), Steve Young (DNR), Tim Minter (DSHS), Christina Kellum (ECY), Matthew Modarelli (MIL), Mike Mohrman (OFM), David Wright (DOR), Greg Tudor (RCO), Callie Goldsby (DOH), George Alvarado (DSHS), Winston McKenna (LNI), Brian Fairley (DFW), Craig Erikson (DOH participated via WebEx)

Roundtable of introductions

- Joanne Markert provide a brief background of her history including GIS work she has conducted in the past.

Talking to You – What did I learn?

Steve Young, Callie Goldsby, Greg Tudor, Matthew Modarelli, Mike Mohrman, Rob St. John, Baird Miller

Key Findings/ Common Themes:

Organizational

- GIT purpose, meeting logistics and decision making/ tracking needs a refresh
- GIT representatives and roles should be more clear and represent all agencies (big/ small/ differing business needs)
- Prioritize discussions for ideas/ options that need decisions; consider email or other tools for distributing information outside of the meeting times
- Consider more strategic issues affecting direction (funding, technology, cloud)
- Don't like to just "rubber stamp" items – would like meaningful discussions
- Use collaborative tools among members to review and discuss issues



GIT started in 2008

- Since then, technology has changed, staff has changed. Time to review and refresh how this and other GIS committees are supporting Statewide GIS efforts.
- As part of this review, Joanne met with several of the CIOs represented on the GIT. Schedules prevented Joanne from meeting with everyone, but still open to that and interested in continuing to reach out to GIT members.

Talking to You – What did I learn?

Key Findings/ Common Themes:

Budget

- Need to forecast statewide GIS needs better, especially regarding budgets
- Already planning for 2019 budget, GIS needs to have a 2 year budget
- Recognize interdependencies (in-kind services) to support statewide initiatives
- Simplify funding strategy for GIS program/ Portal/ etc.
- Don't particularly like the process of "passing the hat" for funding
- Strategic Planning for these goals and budgets to match high priority items
- Review impacts of policy decisions, especially if there are budget impacts



Budget

- Planning for 2019 budget has begun – we need to jump on this train quickly.
- Next GIT meeting will include budget discussions.
- We should improve and anticipate funding needs and agree on decisions before it escalates to an emergency. Better insight and vision on how it all fits together.
- Improvement needed in planning our budget. In general, all goals and budgets go back to our strategic plan.
- Expand on the strategic plan (goals, how we can accomplish, specifics on who and what needs to be done, etc.)

Talking to You – What did I learn?

Key Findings/ Common Themes:

Strategic

- Vision for GIS at the State is unclear
- Find common themes that all agencies struggle with, care about or can leverage prior knowledge of (e.g. AWS)
- Ideas of strategic discussions for GIT:
 - Integrating mobile technology with GIS
 - Help prioritize datasets for statewide development (and who can fund it, where should it be hosted)
 - Stability of data/ services for application development
 - Planning for agency data center changes - how will GIS be handled



Strategic

- Vision for GIS at the state is unclear – this is a concern that people/ leg does not understand what we are doing.
- Budgets were on the line with the senate during the last session, which is a position we want to avoid in the future.
- Show what GIS is and how it helps other agencies. Working on staying in the news. WAMAS is a good example to show that there are many interconnections.
- Strategic discussions – interest in mobile technology with GIS. Many agencies are implementing this, how to learn from them, set standards.
- Stability of data and services for application development – Military (MIL) and Legislature Services (LSC) often use WAMAS or data from other agencies. Need stability to develop apps, documentation of what's available and how we manage the inevitable change. Need better methods for determining who is using what and how to deprecate or update data and services.
- Planning for agency data center changes – some are moving from individual agencies to the cloud or to WaTech. OCIO with assistance from other agencies have reviewed Esri managed services and can be a resource for this topic. **Steve Young** also suggested Abby Gleason as a resource regarding Esri Managed Services.

Talking to You – What did I learn?

Recommendations

Strategic

- Confirm Strategic Plan and develop supporting workplan
- Setup process to help other agencies use cloud based GIS services
- Setup process to help agencies with limited resources to leverage GIS

Organizational

- Clarify vision and messages around GIS at the state and GeoPortal in particular
- Review GIT mission and meeting logistics
- Confirm committee support for the strategic plan

Budget

- Develop 2 year budget that supports Strategic Plan
- Legislative priorities and impacts to budgets
- Be realistic on budgets, acknowledge interdependencies



Recommendations

- Discussion about how to help agencies that would like to use GIS but do not have GIS or have limited resources
 - Brainstorm ideas that we could setup mentors, services OCIO can offer, make connections for these agencies.
 - OCIO has had several phone calls from smaller agencies with these questions
- Strategic plan should include plan to provide smaller agencies assistance to create a shared infrastructure.
- Budget Interdependencies – keeping in mind how we all fit together.
 - **Steve Young (DNR)** –it all comes down to budget – limited resources applies to all agencies not just smaller agencies. If the LEG chooses to not fund it then we can no longer do it. If the recognition is not there to show that this is critical state sources.
 - **Rob St. John (OCIO)** –LEG budget building is a process. We need to take an opportunity to say here is the cost for cutting this – as a community we need to come together to say what the impact is and what services would no longer be available due to proposed funding cuts.
 - **Greg Tudor (RCO)** – Agrees it is important to show what the cost is for not doing what we do in the GIT/GIS community.
 - **Joanne Markert (OCIO)** - Create a communication plan. And how can we support other agencies and work together.

Talking to your staff and others – What did I learn?

DNR, USGS, Pierce Cty, Military, DOH, DOR, Commerce, DOT, DFW, Snohomish Cty, Spokane, Traffic Safety Commission, Ecy, Esri, Montana GIS staff, USDOT, OFM, WATech, OSPI, LCB, DAHP

Key Findings/ Common Themes

Coordination

- Would like increased coordination among the different efforts at the State
- Like the concept of technical workgroups to solve technical problems
- There are “duplicate” data efforts, but differing business needs make it difficult to truly do it once
- Unclear how 9-1-1 efforts and other GIS efforts are coordinated
- Simplification of GIS data sharing – many seem to be going towards Open Data



Joanne also spoke with many GIS managers and technical staff throughout state, federal, local and tribal entities.

Talking to your staff and others – What did I learn?

DNR, USGS, Pierce Cty, Military, DOH, DOR, Commerce, DOT, DFW, Snohomish Cty, Spokane, Traffic Safety Commission, Ecy, Esri, Montana GIS staff, USDOT, OFM, WATech, OSPI, LCB, DAHP

Key Findings/ Common Themes

Technical

- Working on great, innovative uses integrating GIS
- Balance legacy workflows with improving workflows due to technology advances
- Analyzing how to be more efficient with the use of Esri software within their organizations
- Want to increase use of drones for data collection – how can data be stored to share across all agencies?
- Want to increase mobile data collection – what are other agencies doing? How can they learn from what others have tried?
- Plan on collecting BIG datasets – what to do? How to host? How to share?



Technical

- Esri licensing is adding up for some agencies and they are looking for tools & methods to decrease those costs.
- Create new workflows for mobile applications.
- Need strategy on moving forward with storing imagery data more efficiently. Large datasets are causing a variety of issues, but storage is a primary problem with budget implications. Drones (UAVs and UAS) are also creating terabytes of data that need to be stored/ shared
- Drone discussion:
 - **Steve Young (DNR)**
 - UAV's and UAS has become difficult to use due to rules from LEG.
 - Challenge with FAA restrictions for air space.
 - Need control points to improve data quality of data collection.
 - DNR is using them in the geology group.
 - Currently used as experimental but it can be done.

Talking to your staff and others – What did I learn?

DNR, USGS, Pierce Cty, Military, DOH, DOR, Commerce, DOT, DFW, Snohomish Cty, Spokane, Traffic Safety Commission, Ecy, Esri, Montana GIS staff, USDOT, OFM, WATech, OSPI, LCB, DAHP

Key Findings/ Common Themes

Other things

- Messages around GIS and GIS data access are confusing to agency staff and our customers
- Small agencies need GIS, but do not have the staff nor skills to procure what they need confidently/ to oversee the contractors GIS work; they are somewhat left out of the GIS loop
- Retirements are a challenge for technical staff
- Needs of the counties can be complimentary to the state – don't love the "top" down approach often taken
- Feel the budget crunch



Other Key Findings

Joanne has been meeting with counties who would like to contribute and share data with the state – particularly related to address points and street centerlines. Looking for opportunities to partner with counties.

- Create a solid message for agency staff and customers regarding GIS efforts at the state
- Needs of counties can be complimentary to the state

Talking to your staff and others – What did I learn?

DNR, USGS, Pierce Cty, Military, DOH, DOR, Commerce, DOT, DFW, Snohomish Cty, Spokane, Traffic Safety Commission, Ecy, Esri, Montana GIS staff, USDOT, OFM, WATech, OSPI, LCB, DAHP

Recommendations

- Common messages for GIS at the state and what support is available
- Review Strategic Plan and develop workgroups/ methods for accomplishing those goals
- Establish focused workgroups that report back to Geoportal Committee or WAGIC
- Identify areas of connections among the agencies and look for ways to learn from each others experiences
- Support smaller agencies as well as larger agencies with a variety of GIS needs
- Anticipate retirements and look towards how to best fill those gaps
- Increase participation of counties with state efforts (e.g. address points from counties, GIS Day)

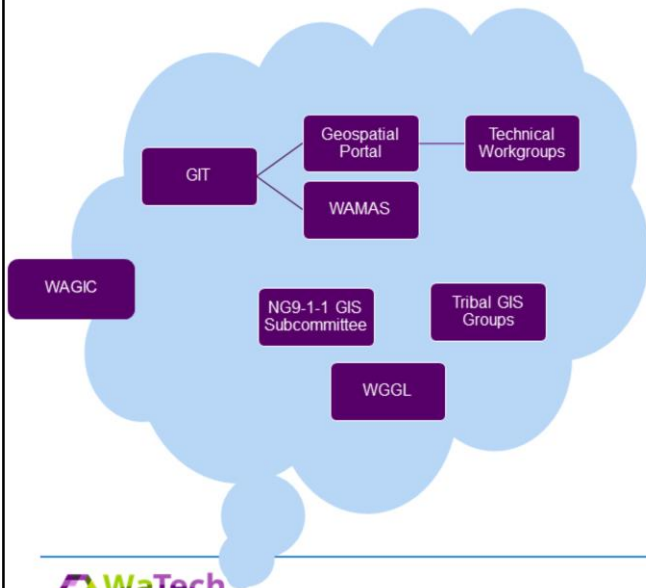


Recommendations

Joanne has begun work on the following items:

- Common messages for GIS
- Coordinating with Christina Kellum (Ecy and WAGIC chair) on Strategic Planning
- Identifying connections among the agencies
- Increase participation of counties with state efforts

GIS Committees (AS-IS)



- **GIT**: Charged with representing the strategic interest of a coordinated, enterprise approach to using GIS and providing leadership for the implementation of cost-effective, collaboratively-developed, spatial data management solutions.
- **Geospatial Portal**: Represents the geospatial portal's interests and provides governance oversight to the GIT committee and data theme stewards. Work to coordinate enhancements to the Portal and the deployment of data and services.
 - Technical Workgroups – Focus on a specific topic and report back to Geospatial Portal – e.g. Open data using Esri tools, mobile data collection, drones, etc., reviewing the Esri managed Services proposal
- **WAMAS**: Specific to managing the master addressing system that is maintained at the state level. Several key agency participants – DOR, DSHS, DOH
- **WAGIC**: The purpose is to foster the advancement of the geospatial information infrastructure (data, people, technology and policy) and its use across governmental entities within and around Washington State. Coordinates state efforts at the National level. In charge of developing the state GIS strategic plan and updates.
- **WGGL**: Local government GIS managers coordination forum (county, city, PUD)
- **NG9-1-1 GIS Subcommittee**: Specific to the 9-1-1 community – often local entities and Military Department
- **OCIO Geospatial Program**: State GIS Coordinator – what is my charge? To coordinate these efforts, make connections, identify efficiencies, assist agencies, promote GIS, review funding opportunities, help implement strategic plan



As GIT how do we fit in?

- There is a lot of overlap among GIS committees
 - Provide better rhythm and pattern in these meetings to ensure we are getting the most efficient use of our time meeting. Many times, the same agencies representatives are working on all the committees which is a potential time sink. How can we be more efficient with our time? Joanne, Christina and Tim will review and brainstorm ideas around this. Align with strategic plan as much as possible.
 - Joanne is involved with or in touch with the committees listed on this slide.
 - **Christina Kellum (ECY)** - Having a new look at these roles and responsibilities and how we can make this more efficient is a good approach
 - **Matt Modarelli (MIL)** - Can we begin to integrate GIS into the other IT governance? Be more involved with other existing governance structure? GIS is beginning to become an application and should be part of larger efforts around IT in the State.
 - Refocusing helps the clarity and vision on what we are doing.
 - Need to coordinate and provide representative to State IT Architect reviews. Recognizing which aspects of State IT should GIS be a part of and making sure there is an integration. **David Wright (DOR)** - Another example is Framework Management Group.
 - How does GIT align with TSB? Connections there?

All under OCIO but there is not a formal body of GIT into the TSB.

GIT Purpose & Goals

The GIT will promote a strategic enterprise approach to utilizing geographic information technology and provide leadership for implementation of cost effective, collaboratively developed, spatial data management solutions.

Goals:

- a) Promote geographic information technology coordination and statewide integration and interoperability.
- b) Develop strategies to increase state, local, regional, federal and tribal participation.
- c) Develop policy and standard recommendations regarding geographic information technology for consideration and adoption by the OCIO as state policy.
- d) Develop strategies and processes to accelerate implementation of the fundamental, commonly needed, statewide geographic data themes.
- e) Lobby for funding support for an enterprise wide, coordinated approach to geographic information acquisition, management, access and distribution.



Official GIT charter was created in 2008.

- These excerpts are from that original charter. Do we need to update?
- Review and provide suggestions around the table:
 - **Rob St. John (OCIO)** - Opportunity for sharing and create a forum to share what GIS/GIT has been accomplishing
 - Quarterly user's group meeting and other meetings had been previously in use. Charter of WAGIC and GIT should be reviewed and updated.
 - Business value/ ROI discussion added to our meetings. Focus on transferable apps/ technology.

Duties of GIT Member Organizations

- a) Further the vision and goals articulated in this charter
- b) Ensure attendance by their designated representative or alternate at all meetings and remain current with geographic information system activities
- c) Provide written status reports on all active GIT sponsored projects and initiatives they are leading
- d) Appoint a technical point-of-contact to actively participate and coordinate on GIT activities, initiatives and subcommittees



Committee agreed that duties are pretty well organized.

Should we ask others to attend GIT?

Graphic shows Esri spending by agency

Other agencies to possibly include:

- Archaeology and Historic Preservation
- Liquor and Cannabis Control Board
- Legislative Services
- Secretary of State

Department	2015	2016	
Natural Resources	\$ 488,620	\$ 426,485	\$ 915,105
Transportation	\$ 436,733	\$ 252,819	\$ 689,552
Fish & Wildlife Dept	\$ 252,237	\$ 226,039	\$ 478,276
Labor & Industries Dept	\$ 226,522	\$ 235,700	\$ 462,222
Ecology	\$ 230,602	\$ 231,070	\$ 461,672
Archaeology & Historic Preservation Dept	\$ 28,308	\$ 341,055	\$ 369,363
Liquor Control Board	\$ 131,924	\$ 128,695	\$ 260,619
Revenue Dept	\$ 126,235	\$ 130,865	\$ 257,100
Consolidated Technology Services	\$ 91,869	\$ 67,960	\$ 159,829
RCO & PSP	\$ 96,419	\$ 41,981	\$ 138,400
Health Dept	\$ 96,200	\$ 39,100	\$ 135,300
Military Dept	\$ 96,085	\$ 16,226	\$ 112,311
Dept of Social and Health Services	\$ 63,701	\$ 44,809	\$ 108,510
Office of Financial Management	\$ 52,702	\$ 33,254	\$ 85,956
Washington State Patrol	\$ 31,200	\$ 52,070	\$ 83,270
Agriculture Dept	\$ 41,714	\$ 41,072	\$ 82,786
Parks & Recreation Commission	\$ 45,908	\$ 11,520	\$ 57,428
Enterprise Services Dept	\$ 51,779	\$ -	\$ 51,779
Legislative Services	\$ 22,890	\$ 20,800	\$ 43,690
Utilities & Transportation Commission	\$ 17,698	\$ 17,100	\$ 34,798
OSP/	\$ 15,000	\$ 17,425	\$ 32,425
Washington State Fusion Center	\$ 13,900	\$ 13,900	\$ 27,800
Employment Security Dept	\$ 10,500	\$ 7,100	\$ 17,600
Licensing		\$ 12,467	\$ 12,467
Secretary of State	\$ 1,750	\$ 7,700	\$ 9,450
Commerce Dept	\$ 3,000	\$ 3,000	\$ 6,000
Washington State Parks	\$ 3,136	\$ -	\$ 3,136
Financial Institutions		\$ 3,010	\$ 3,010
Conservation Commission	\$ 2,960	\$ -	\$ 2,960
Corrections Dept	\$ 400	\$ 400	\$ 800
	\$ 2,679,992	\$ 2,423,622	\$ 5,103,614



Spending on Esri licenses and services

Graphic shows Esri spending (licenses and services) by agency, does not include staff expenditures or GIS consulting that was not directly through Esri.

- If other agencies can't attend the GIT, can we get them more involved in a user group or technical group meeting to more fully engage them?
 - **Greg Tudor (RCO)** – We should be inviting agencies that are spending GIS money.
 - **Tim Minter (DSHS)** – Tim has made an attempt with the Geospatial Portal Steering Committee Meetings to reach out to other agencies and invite them.

GIS Budget Review

- Still working through budgets – will cover at a future/ Next GIT meeting
- No change in the allocations for Geoportal and WAMAS for 2017-2019
- Recognition of budget interdependencies
 - For example:
 - DNR Photogrammetry for Image Services
 - DSHS, DOH, DOR for WAMAS services
 - Ecology compiling statewide parcel layer



Joanne is still sorting through the budgets and reviewing options. Suggested covering at the next GIT meeting.

Esri Managed Services Proposal

THANK YOU ESPECIALLY TO DOH, DSHS, DOR, OCIO, WATech Staff

- What is it?
 - This proposal would move existing GIS servers/ services that are currently hosted at WATech into the Esri cloud on Amazon Web Services. Services to transfer include such items as data currently hosted on the geoportal, imagery data and WAMAS (addressing) services.

- Why is it being considered?
 - WATech has experienced several key departures from the infrastructure group
 - Difficult to hire new staff with GIS technology/ infrastructure support experience
 - Increase reliability, stability and maintenance of the system
 - Assisting WATech infrastructure group is a significant drain on workloads at OCIO, DOH, DOR, DSHS and others (inefficient)
 - Current servers are not optimized to use ADFS; https for public facing services
 - Upgrading GIS software versions on the servers is challenging and generally out-of-date



Review of Esri Managed Services Proposal

- System health check for servers for GeoPortal and WAMAS was conducted by Esri starting last November, report issued in Spring. Esri provided a proposal to moving to Esri cloud on Amazon Web Services.
- Key departures of the WATech infrastructure group, hiring new staff with GIS server experience, reliability issues, maintenance issues, and upgrading GIS software versions on the servers are main reasons this decision is being considered.

Esri Managed Services Proposal

- Other Potential Benefits:
 - Agencies are migrating from individual data centers to state or cloud data centers, OCIO can be a resource to those agencies who want to move GIS to the Esri cloud.
 - Design review is initiated – can be optimized for other agencies considering similar changes.



Other Considerations for Hosting

Callie Goldsby (DOH) - Heavy processing using the internet pipe is a concern to moving to the cloud. – Design review is focused on security but we would need to take a look at performance and expectations using the internet pipe.

General discussion – need to consider what we are buying, support level, access/ governance around the hosting environment

Update on Esri Managed Services Proposal

- Overall Process for Review
 - Technical Team reviewed contract
 - Met with Montana to discuss their experiences with Esri managed services
 - Met with Esri (updated proposal and reviewed again by team)

- Cost Differential
 - At this point, Esri proposal is similar to WATech estimates

- Decision
 - Should we pursue hosting options that are not at WATech



Decision – should we pursue hosting options that are not at WaTech?

- Despite the urgency to make a decision, there are additional things Joanne would like to look into to compare. As of yet, Joanne has not explored other options for comparison.
- **Steve Young (DNR)** – What is your degree on acceptance of outages? Choosing Esri you will pay depending on the number of “nines?”/ uptime you want. Who is going to do the work? Access? Building out cost?
- **Rob St. John (OCIO)** – the cost of Esri proposal is similar to WaTech estimates.
- **Christina Kellum (ECY)** - Hoping to have a decision by the next meeting?
- **Joanne Markert (OCIO)** - Not enough information at this time. Joanne is working to develop options for the next meeting. There is urgency to this decision as the problems are not getting better by themselves.

Integration and Interoperability Workgroup

- Objective: Represent the geospatial community's needs relative to "400 Integration Policy" revisions
- Approach: Bridge the gaps between policies, standards, and actual ability to implement
 - Promote consistent structural model / framework for "policy", "standard", and "guidance" documents
 - Test drafts by submitting to GIS managers and developers for reaction, review, and comment
 - Feedback from DSHS, ECY, CRAB, WSDOT. I treat silence as tacit support of drafts "as-is."
 - Compare drafts to WAMAS system and to commonly used vendor for WA geographic information systems, identify gaps, and recommend revisions to drafts
- Schedule: Participating in weekly work sessions scheduled from June through September 2017. Potential for another round lasting through December 2017.
- Any course adjustments needed?



Tim Minter (DSHS/RDA) Guest Speaker

- Tim participated in the Integration and Interoperability Workgroup. Approach to try and take the policy and standards to get it to the people who have to follow these policies and standards. Promoting and highlight coherent policy/standard guidance models. Opportunity to provide input. June – December workgroup get together every Monday. Any adjustments for GIT? Still time for feedback. Found that this is helpful for developers to read and if anything is unclear on how it fits into the services they provide. GIS is a specialization of IS.
- **Christina Kellum (ECY)** – Asked her developers to review and provided feedback to Tim.
- Integration policy has information regarding depreciation rules, etc. We need to be looking there for coordination.

Updates from the various GIS Committees

- NENA Standard for NG911 purposes is out for official review – **COMMENTS Due Sept 20th**; pending comments - will be proposed to be adopted by TSB this fall
- Technical Workgroup convened for Open Geospatial Data/ Data Sharing
- WAGIC will be meeting soon – Ecy is lead
- Simplification of GIS messaging and websites
- Developing slide deck around WAMAS and Imagery tools to make sure they are used
- WaTech infrastructure staff is experiencing high turnover which in turn impacts GIS services

- **MARK Your Calendars for GIS Day – November 15th, 2017**
 - Please encourage staff to participate by showing off projects, volunteering to moderate, etc.
 - Excellent opportunity to learn from others



Metadata and Imagery Update

- THANKS to all the agencies who have updated their metadata
- Most agencies have updated their metadata as requested at the May GIT meeting
- I'm working with stragglers to get their metadata updated and shared

- THANK YOU to DNR for handling the image processing
- Imagery has been delivered to agencies who have paid for the service
- Working through some technical issues – learning and documenting for next time



National Level Updates

- NSGIC Conference at the end of Sept – Christina Kellum and I will be attending
 - Provided contacts with MT to discuss Esri managed services proposal
 - Metadata sharing
 - Addressing at the national level and NG9-1-1
- Datum 2022 is coming – DNR is leading state legislative efforts; scheduled for 2019 state legislative session
- USGS LiDAR templates and planning information to be released in Dec 2017



Suggestions for Next GIT Meeting Agenda

- Review Status/ Progress of GIS Strategic Plan
 - Review Committee Structure to Support Goals
 - Budget Overview to Support Goals
- Planning for 2018 Legislative Session
- Planning for 2019 Legislative Session
- Open GIS Data Update/ Demo
- Highlight Agency GIS projects
- Other ideas??



Agreed on following as a DRAFT Agenda for next meeting:

- Budget
- Planning for LEG session
- Open GIS Date Update
- Suggested face-to-face meetings in May, Sept and December and a Skype meeting with LEG/budget updates in February.

Next meeting Dec 14th, 1500 Jefferson Rm 2208

Meeting adjourned at 11:20 a.m.