

## MD iMap Technical Committee Meeting Minutes

**Place:** Maryland Department of the Environment (MDE): Terra Conference Room (Baltimore, MD)  
**Date:** 10/2/12  
**Time:** 1:00 PM – 3:00 PM  
**Attendees:** Tim Abdella (JMT), Ashley Buzzeo (CGIS), Jim Cannistra (MDP), Kevin Coyne (DNR), Mary Creamer (ESRGC), Kaushik Dutta (MDtA), Bill Fearington (DHR), Julia Fischer (DoIT), Matt Folley (MDP), Jason Keppler (DoIT), Barney Krucoff (GIO), Erin Lesh (MES/SHA), John Madigan, Kate Majchrzak (MDE), Tom Nasuta (MDE), Anthony Puzzo (Esri), Frank Siano (MDE) and Brad Wolters (DHCD), Fred Chetterain (MDE)

### AGENDA:

- |   |             |
|---|-------------|
| • Introductions                                 | 1:00 – 1:10 |
| • Arc2Earth Demo/Presentation                   | 1:10 – 2:10 |
| • State Agency Map Services Inventory           | 2:10 – 2:30 |
| • Application Subcommittee Updates              | 2:30 – 2:35 |
| • Data and Resources Subcommittee Updates       | 2:35 – 2:40 |
| ○ Loading Washington, D.C. imagery onto MD iMap | 2:40 – 2:45 |
| • Outreach Subcommittee Updates                 | 2:45 – 2:50 |
| • Security Subcommittee Updates                 | 2:50 – 2:55 |
| • Additional Business                           | 2:55 – 3:00 |

### NEW ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:

### ON-GOING ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
Future Agenda Item	Submitted:	GIO & Co-Chairs
• Bring a regular report to the meeting about what credits are being used and discuss what to publish, etc.	8/7/12	
MDP Evaluation of City Engine	Submitted:	Deputy GIO &
• Determine current status of ELA amendment and discuss with Anthony Puzzo	6/5/12	

		Jim Cannistra
<p>Central License Server</p> <ul style="list-style-type: none"> <li>• Anyone else using? – DNR, MDOT changing firewall, Port Transit</li> <li>• 104 licenses, 86 available</li> <li>• 2 licenses open on desktop counts as 2 in use</li> <li>• Sense of usage in a month (logging IP addresses)</li> <li>• Each agency needs to consider what happens when connection is down</li> <li>• Back up manager still needs internet</li> <li>• Contact Barney Krucoff if you want to test your agencies' accessibility to CLS</li> </ul>	<p>Updated: 3/23/12</p> <p>Submitted: 12/6/11</p>	Technical Committee
<p>ELA License Request Form/Website</p> <ul style="list-style-type: none"> <li>• Website is now ready (Must have SwGi connectivity to access) <a href="https://www.doit.state.md.us/selectsurvey/TakeSurvey.aspx?SurveyID=n4LJ5n4">https://www.doit.state.md.us/selectsurvey/TakeSurvey.aspx?SurveyID=n4LJ5n4</a></li> </ul>	<p>Updated: 2/8/12; 12/20/11; 12/6/11</p> <p>Submitted: 11/1/11</p>	GIO
<p>ELA Renewal</p> <ul style="list-style-type: none"> <li>• Anthony Puzzo/post openly</li> <li>• DoIT SwGi page posted</li> <li>• Post GSA price schedule for reference</li> </ul>	<p>Updated: 3/23/12</p> <p>Submitted: 11/1/11</p>	GIO
<p>ELA</p> <ul style="list-style-type: none"> <li>• Provide to Executive Committee</li> <li>• Provide list of contributing agencies to MD iMap Tech Committee</li> <li>• Provide list of contributing agencies</li> </ul>	<p>Updated: 3/23/12; 11/1/11; 8/2/11</p> <p>Submitted: 7/19/11</p>	GIO

<b>Application Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
<p>Google Map Engine</p> <ul style="list-style-type: none"> <li>• Negotiate with Google through the existing Google contract with DoIT</li> </ul>	Submitted: 9/4/12	GIO
<p>Google Earth Builder Update</p> <ul style="list-style-type: none"> <li>• Check DoIT standards/plans for web browser utilization</li> </ul>	Submitted: 6/5/12	GIO
<p>Socrata</p> <ul style="list-style-type: none"> <li>• Next call on Friday (3/23/2012)</li> <li>• Easiest way to public from MD iMap to Socrata</li> <li>• Esri click/ship issues</li> <li>• Another method: Separate REST service for Socrata to consume</li> <li>• Explore difficult ways to publish</li> <li>• Demo GIS data options to group</li> </ul>	<p>Updated: 3/23/12</p> <p>Submitted: 3/6/12</p>	CGIS
SwGi/Version 10.1 Migration	Updated:	GIO

<ul style="list-style-type: none"> <li>Meeting scheduled w/Amazon for Wed. 9/5/12</li> <li>10.1 migration anticipated by January 2013 by CGIS</li> <li>1 meeting at CGIS</li> <li>Not yet created design</li> <li>Invite Esri to participate in a design session</li> </ul>	9/4/12; 7/17/12; 3/23/12 Submitted: 3/6/12	
<b>Application Specific Services</b> <ul style="list-style-type: none"> <li>Facilitate a discussion with CGIS concerning potential options for map service storage and organization</li> </ul>	Updated: 11/1/11  Submitted: 7/5/11	GIO
<b>Application Submission Procedures</b> <ul style="list-style-type: none"> <li>Update detailed procedures for application creation and update</li> <li>Resend Application Submission Procedures draft to Technical Committee (Co-chairs)</li> </ul>	Submitted: 6/21/11	Technical Committee
<b>Code Acquisition for MD iMap Portal</b> <ul style="list-style-type: none"> <li>Provide updated worksheet to Kenny Miller for review, after updates have been applied (Kaushik Dutta)</li> <li>Development Code Worksheet Generated (Kaushik Dutta)</li> <li>Date of Launch – add this additional column and information to worksheet (Kaushik Dutta)</li> <li>Work on filling in missing information (Kaushik Dutta &amp; Kenny Miller)</li> <li>Meeting to be scheduled to discuss next steps</li> <li>Excel spreadsheet inventory being produced by CGIS and MES</li> <li>Actively being pursued</li> <li>Obtain Flex code from CGIS and MES for MD iMap-based applications</li> </ul>	Updated: 7/5/11; 6/7/11; 1/4/11; 12/21/10; 12/7/10; 11/16/10  Submitted: 10/19/10	Kaushik Dutta Kenny Miller

<b>Data &amp; Resources Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
<b>Topography Updates</b> <ul style="list-style-type: none"> <li>Share Salisbury map service URL with the group</li> </ul>	Submitted: 6/5/12	GIO
<b>REST Endpoint Service Descriptions</b> <ul style="list-style-type: none"> <li>Any changes that need to be made to these descriptions or legends should be submitted to Ashley Buzzeo</li> </ul>	Submitted: 12/20/11	MD iMap Service Data Owners
<b>WFS-Enabled OSPREY Services</b> <ul style="list-style-type: none"> <li>Instructions and list of available WFS-enabled services to be added to Portal early September</li> <li>Ownership in question</li> <li>Follow up with owners of OSPREY data to determine if layers can be WFS-enabled</li> </ul>	Updated: 9/4/12; 3/23/12 Submitted: 12/6/11	Kenny Miller
<b>Log Package Acquisition</b> <ul style="list-style-type: none"> <li>Provide package name and cost for next meeting</li> </ul>	Submitted: 12/6/11	Michael Bentivegna
<b>NAIP 2011 Imagery</b>	Updated:	Kevin Coyne

<ul style="list-style-type: none"> <li>• Sent to CGIS and posted</li> <li>• Check that DNR has this information to be posted on MD iMap</li> </ul>	<p>3/23/12 Submitted: 12/6/11</p>	
<p>GreenPrint Mapping Application</p> <ul style="list-style-type: none"> <li>• Follow up with Ashley Buzzeo</li> <li>• Determine if GreenPrint version on MD iMap infrastructure can be removed</li> </ul>	<p>Submitted: 11/15/11</p>	Kevin Coyne
<p>Data Submission Policy Updates:</p> <ul style="list-style-type: none"> <li>• Add “Update frequency, “Last updated” and “WFS-enable: Y/N” in Data Submission Policy</li> </ul>	<p>Submitted: 10/4/2011</p>	Data and Resources Subcommittee
<p>SHA Basemap</p> <ul style="list-style-type: none"> <li>• Cached and uncached versions of basemap and 6” imagery allowing for access by CADD users</li> <li>• CGIS in the process of determining server capacity vs. need</li> <li>• Labeling issue resolved</li> <li>• Water issue being reviewed</li> <li>• Cache being reviewed by SHA, awaiting their response</li> <li>• MXD being generated, cache to follow</li> <li>• Obtain information from SHA, re-cache and add as map service to MD iMap</li> </ul>	<p>Updated: 9/4/12; 3/23/12; 3/6/12; 12/6/11 Submitted: 10/4/11</p>	Ashley Buzzeo
<p>GIS/Archives Appraisal Questions</p> <ul style="list-style-type: none"> <li>• Distribute survey to as many municipal, county and state agencies, as possible, for potential participation</li> </ul>	<p>Submitted: 7/5/11</p>	Technical Committee
<p>Feedback/Requests concerning MD iMap</p> <ul style="list-style-type: none"> <li>• Statewide tax map service being developed by MDP – will be made available on MD iMap in future</li> <li>• PFA map service now includes a field “State Eligible” w/ Yes or No</li> <li>• Look to obtain most recent statewide DEM from Salisbury and discuss effort/timeline for generating hillshade and getting posted</li> <li>• Still updating</li> <li>• Add Plat # to parcel</li> <li>• Maybe add address</li> <li>• Add PFA in/out: resistance to this update</li> <li>• Check for hillshade, which can be added as map service, @ MDP</li> <li>• Add Hillshade Service: Inquire at DNR if they have a hillshade available – to check</li> <li>• Add Map/Parcel ID Look-Up: Follow up with requestor (Jason Zhao – MDE) to clarify request</li> </ul>	<p>Updated: 9/4/12; 3/23/12; 10/4/11 Submitted: 6/7/11</p>	Jim Cannistra
<p>Point of Interest/Place Name Geocoder</p> <ul style="list-style-type: none"> <li>• Composite geocoder on task list for CGIS FY2013</li> <li>• Ashley Buzzeo will work with Brad Wolters to determine if this composite geocoder will meet these additional search criteria needs</li> </ul>	<p>Updated: 9/4/12 Submitted: 1/18/11</p>	Ashley Buzzeo Brad Wolters

<p>WFS Services</p> <ul style="list-style-type: none"> <li>• Top 10 list to be assembled during next Data &amp; Resources Subcommittee meeting</li> <li>• List of enable services, email to group</li> </ul>	<p>Updated: 4/5/11</p> <p>Submitted: 3/15/11</p>	<p>Ashley Buzzeo Data &amp; Resources Subcommittee</p>
<p>Web Mercator Data Service Projection</p> <ul style="list-style-type: none"> <li>• Need to move projections to Web Mercator</li> <li>• Per MES, EMMA replacement will use Web Mercator projection</li> <li>• Assess costs in labor and storage for creation of MD iMap data services (except imagery) in Web Mercator projection – Will determine with DNR &amp; CSSC (lots of variables: migration to 10, etc.)</li> </ul>	<p>Updated: 3/6/12; 10/4/11; 4/5/11</p> <p>Submitted: 1/4/11</p>	<p>CGIS</p>
<p>Metadata Services</p> <ul style="list-style-type: none"> <li>• Forward electronic list to group</li> <li>• Updated list to be provided by Friday, 1/7/2011</li> <li>• Updated list to be provided at 1/4/2011 meeting</li> <li>• Remaining “offenders” actively being pursued</li> <li>• Resend email to “offenders” to complete metadata</li> <li>• Email resent and follow-up by Kenny Miller to occur</li> <li>• MDP has provided metadata for all their services on MD iMap</li> <li>• Follow-up concerning how to obtain the missing metadata for services currently being hosted on MD iMap</li> <li>• Email sent to Kenny</li> <li>• Agency leads from Tech. Comm. to make progress <ul style="list-style-type: none"> <li>○ Direct contact of data owners</li> </ul> </li> <li>• A listing of services for which metadata is needed was provided. It was discussed that some metadata may not be available from the data producers. This is especially true for parcel data. Metadata at the service level will be written by MDP for parcel data to go along with the MD iMap refresh process</li> </ul>	<p>Updated: 1/18/11; 1/4/11; 12/21/10; 10/5/10; 8/3/10; 7/12/10; 6/22/10; 5/18/10</p> <p>Submitted: 4/20/10</p>	<p>Data &amp; Resources Subcommittee Co-chairs</p>

<b>Education &amp; Outreach Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
<p>Twitter/Communication Plan</p> <ul style="list-style-type: none"> <li>• List of every CIO for inclusion on email alerts</li> </ul>	<p>Submitted: 11/15/11</p>	<p>GIO</p>
<ul style="list-style-type: none"> <li>• Link to Merlin needs to be added to MD iMap Portal webpage</li> </ul>	<p>Submitted: 12/21/10</p>	<p>Lisa Lowe</p>
<ul style="list-style-type: none"> <li>• Discuss with Broadband Team concerning functionality and code availability</li> <li>• Discuss adding a feedback button to MD iMap Portal webpage</li> </ul>	<p>Updated: 10/4/11</p> <p>Submitted: 12/21/10</p>	<p>Outreach Subcommittee Lisa Lowe</p>
<ul style="list-style-type: none"> <li>• Recruit participants</li> <li>• Obtain feedback concerning how to improve upon current outreach</li> </ul>	<p>Updated: 5/18/10;</p>	<p>Outreach Subcommittee</p>

strategies • Email potential new members directly	4/20/10  Submitted: 3/16/10	
• Proactive Marketing of MD iMap	Submitted: 9/21/10	Outreach Subcommittee

<b>Security Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Charter • Generate a charter	Submitted: 12/7/10	Security Subcommittee
Security Model • On hold for funding availability • <del>Provide a copy of MD iMap Security Presentation to Brian Sivak (Jim Cannistra)</del> • <del>Price quotes from proposal submission to be updated</del> • <del>Additional documentation needed to address:</del> ○ <del>Cost of Delay</del> ○ <del>Justification of security (limitations, efficiencies)</del> ○ <del>Needs Assessment to determine groups and definitions</del> • <del>Schedule meeting for Friday, October 22, 2010 to formalize document and format presentation for October 27, 2010 Exec. Comm. meeting</del> • <del>Generate detailed document and presentation for October 27, 2010 Exec. Comm. meeting</del> • <del>Document for presentation to Exec. Comm. at Oct. meeting</del> • <del>Demo accompanying document to Exec. Comm. at Oct. meeting</del> • In progress, to be submitted by next Tech. Comm. meeting (10/5/10)	Updated: 6/7/11; 3/1/11; 10/27/10; 10/19/10; 9/21/10  Submitted: 8/3/10	Security Subcommittee

#### COMPLETED ACTION ITEMS:

<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>

#### Introductions

*Round-the-room*

#### Arc2Earth Demo/Presentation – Tim Abdella (PowerPoint Presentation Available)

- Serving out data that is relatively static
- Sync product allows for dynamic sharing off data
- .kml conversion tool is an ArcMap extension
  - Takes advantage of existing specifications from Esri products to provide resource accessibility
- Scale dependent rendering, fields, symbology and sophisticated pop-ups can be generated

- .kmz is a zipped .kml which allows for zipping and bundling other data with the .kml and makes them smaller and more portable
- .kml network link: pointer to the server and file name and allows bringing in data from another server location
  - Once it is downloaded it is local to the machine
  - All moves on the screen pings back to the host server to make sure they are viewing the most up-to-date version of the data
- Hosting the .kml files on a web server (could also be a cloud server) and use the .kml network links to the data on this server
- Build the .kmls and links using the Arc2Earth Explorer software and tools
  - Allows for conducting one at a time .kml uploading and processing
- Regions: number of vertices per layer are counted and with the use of an algorithm the regions are defined
  - Work to render only the data in the visible region at a time
  - Allows for quick rendering response
  - Very server heavy responsibility to make this available
- kmzGT, built by JMT, compliments Arc2Earth Explorer
  - data inventory indicates when the data was last updated, file size and name of the .kml
- .kmz updates are change detection aware
  - Only vertices or attributes which are updated are identified and updated in the kmzGT built by JMT to compliment Arc2Earth Exporter
  - Data inventory indicates when the data was last updated, file size and name of the .kml

**Question:** Can licensing be placed on a centralized license server and accessed by individual agencies or will each agency need to purchase separately?

- Toolbar distribution option can be made available as pricing options
- Sync data dynamically using Arc2Earth
  - Create map tiles served on file server and not utilize overhead of ArcGIS Online
  - Have to follow the standards of Google tile scales, which is also what Esri is using now (WGS)
- Arc2Earth Data Services for Google is another toolbar provides basemap, hybrid and aerial basemap layers
  - Additional Google services were originally available through this tool, but has been removed based on Google decision
  - Google search available

#### Sync

- Edits are being pushed from your machine to the file geodatabase in the background and being pushed to those who are synced to your data, using standard web ports so nothing gets blocked
- Less intensive way to support Google users than Google Map Engine

#### State Agency Map Services Inventory

- Map services being created by multiple agencies
- Duplicating efforts
- Useful to provide links with other state agencies as reference

- Provide a central source the service connection information and make that information available to the entire group
- Might also limit publishing the same service twice
- Want to publish through SwGi and also trying to allow access to SDE through SwGi
- Need to test with some data which you want to share with other agencies through SwGi which would not be accessible to the general public
  - Parcel data would fit this description
- Stand up a SwGi webpage with a list of the services, this will be protected and accessible only to other state agencies
  - User beware?
  - Future options to point other agencies only to the services you want to share

### **Application Subcommittee Updates**

- MDtA Enterprise GIS is hosted on the MDOT portal, Kenny Miller will be the first user outside of MDOT

### **Data and Resources Subcommittee Updates**

- Removed a few map services by request
- Updates to services – bay trust fund, energy conservation, enterprise zone
- Portal update went into effect
- Image service has been created for the 6” imagery
  - In the process of reviewing it and performing appropriately
  - Re-projection on the fly will be available
- Meeting with GIO Office tomorrow
  - Data reorganization
  - Migration to 10.1

### **Loading Washington, D.C. imagery onto MD iMap**

- Might be an opportunity to add this to the available data resources
- 1 foot imagery flown for DC last spring is now available
- Might be a good thing to provide this as an additional resource, separate from MD 6” imagery
- Would this be a considerable amount of work to get this added, have to check the size of the data
- Fly Eastern Shore and maybe one or two other counties this spring – Oct 25<sup>th</sup> in front of the Numbers Board

### **Outreach Subcommittee Updates**

*No updates at this time*

### **Security Subcommittee Updates**

*No updates at this time*

### **Additional Business**

Socrata REST endpoint

- Published a map service to iMap, close to having a custom extension to call and download a .zipped shapefile, Socrata can call this service and download the .zipped shapefile

- Put line or polygon on MD iMap as a service and updates Socrata
  - Equal to putting a shapefile onto Socrata
  - Publish to MD iMap and automated process to get this data onto Socrata
- Will continue to be a push to get data onto Socrata
- Call DoIT if you want to take a closer look at getting your data onto Socrata through publishing a service
  - Looking for some real-world data to use for testing purposes
  - DHCD services can be used
- Want to get this going before a lot of people put shapefiles directly onto Socrata

#### Job Opening

- Address Coordinator for the State
- 2 year position funded by broadband funding
- Employee of Salisbury University, work out of Annapolis and Baltimore with MDP some
- Middle of the month to provide an application
- State employee
- Point layer of addresses for the state
  - Working with MDP and all counties to get an idea of what they have
  - Also work to put a long-term maintenance plan in place

#### MD iMap Executive Committee Meeting next Tuesday

- Try to get your executives to attend
- First cabinet meeting for the Governor has been scheduled for that same time
- Still going to proceed with this meeting
- Might get to show some of MD iMap at cabinet meeting
- First meeting with the new outside of the state government representatives

#### ArcGIS Online Accounts

- MDPlanning is outside of the organization
- Can choose to port that account to the organization
- Received the invite, but haven't accepted yet
- Anthony to provide additional information
- Accept an invitation with the same user name and the information will port over to the organization
- That login remains and it is now associated with the organization

#### SHA collaborate with community maps group at Esri

- Setting up a conference call with those in the near future if you want to get involved