

## MD iMap Technical Committee Meeting Minutes

**Place:** Maryland Department of the Environment (MDE): Terra Conference Room (Baltimore, MD)

**Date:** 11/20/12

**Time:** 1:00 PM – 3:00 PM

**Attendees:** Ashley Buzzeo (CGIS), Jim Cannistra (MDP), Kevin Coyne (DNR), Kaushik Dutta (MDtA), Bill Fearington (DHR), Julia Fischer (DoIT), Matt Folley (MDP), Jason Keppler (DoIT), Barney Krucoff (GIO), Lisa Lowe (DoIT), John Madigan, Tom Nasuta (MDE), Doug Reedy (Frederick County), Frank Siano (MDE), Apollo Teng (Montgomery County) and Brad Wolters (DHCD)

### AGENDA:

- |   |             |
|---|-------------|
| • Introductions                           | 1:00 – 1:10 |
| • Maryland Open Data/Socrata Demo         | 1:10 – 1:40 |
| • Data Restructuring – <i>Lisa Lowe</i>   | 1:40 – 2:10 |
| • Application Subcommittee Updates        | 2:10 – 2:20 |
| • Data and Resources Subcommittee Updates | 2:20 – 2:30 |
| • Outreach Subcommittee Updates           | 2:30 – 2:40 |
| • Security Subcommittee Updates           | 2:40 – 2:50 |
| • Additional Business                     | 2:50 – 3:00 |

### NEW ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
USDOT Cloud Utilization Survey • Phone conversation with them to start	Submitted: 11/20/2012	Kaushik Dutta & Barney Krucoff

### ON-GOING ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
Future Agenda Item • Bring a regular report to the meeting about what credits are being used and discuss what to publish, etc.	Submitted: 8/7/12	GIO & Co-Chairs

MDP Evaluation of City Engine <ul style="list-style-type: none"> <li>Determine current status of ELA amendment and discuss with Anthony Puzzo</li> </ul>	Submitted: 6/5/12	Deputy GIO & Jim Cannistra
Central License Server <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>	Updated: 3/23/12  Submitted: 12/6/11	Technical Committee
ELA License Request Form/Website <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>	Updated: 2/8/12; 12/20/11; 12/6/11 Submitted: 11/1/11	GIO
ELA Renewal <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>	Updated: 3/23/12 Submitted: 11/1/11	GIO
ELA <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>	Updated: 3/23/12; 11/1/11; 8/2/11 Submitted: 7/19/11	GIO

<b>Application Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Google Map Engine <ul style="list-style-type: none"> <li>Negotiate with Google through the existing Google contract with DoIT</li> </ul>	Submitted: 9/4/12	GIO
Google Earth Builder Update <ul style="list-style-type: none"> <li>Check DoIT standards/plans for web browser utilization</li> </ul>	Submitted: 6/5/12	GIO
Socrata <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>	Updated: 3/23/12  Submitted: 3/6/12	CGIS

<p>SwGi/Version 10.1 Migration</p> <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>	<p>Updated: 9/4/12; 7/17/12; 3/23/12 Submitted: 3/6/12</p>	<p>GIO</p>
<p>Application Specific Services</p> <ul style="list-style-type: none"> <li>Facilitate a discussion with CGIS concerning potential options for map service storage and organization</li> </ul>	<p>Updated: 11/1/11  Submitted: 7/5/11</p>	<p>GIO</p>
<p>Application Submission Procedures</p> <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>	<p>Submitted: 6/21/11</p>	<p>Technical Committee</p>
<p>Code Acquisition for MD iMap Portal</p> <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>	<p>Updated: 7/5/11; 6/7/11; 1/4/11; 12/21/10; 12/7/10; 11/16/10  Submitted: 10/19/10</p>	<p>Kaushik Dutta Kenny Miller</p>

<b>Data &amp; Resources Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
<p>Topography Updates</p> <ul style="list-style-type: none"> <li>Share Salisbury map service URL with the group</li> </ul>	<p>Submitted: 6/5/12</p>	<p>GIO</p>
<p>REST Endpoint Service Descriptions</p> <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>	<p>Submitted: 12/20/11</p>	<p>MD iMap Service Data Owners</p>
<p>WFS-Enabled OSPREY Services</p> <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>	<p>Updated: 9/4/12; 3/23/12 Submitted: 12/6/11</p>	<p>Kenny Miller</p>
<p>Log Package Acquisition</p> <ul style="list-style-type: none"> <li>Provide package name and cost for next meeting</li> </ul>	<p>Submitted: 12/6/11</p>	<p>Michael Bentivegna</p>

<p>NAIP 2011 Imagery</p> <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>Updated: 3/23/12 Submitted: 12/6/11</p>	<p>Kevin Coyne</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>	<p>Kevin Coyne</p>
<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>	<p>Data and Resources Subcommittee</p>
<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>	<p>Ashley Buzzeo</p>
<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>	<p>Technical Committee</p>
<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>	<p>Jim Cannistra</p>
<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:</p>	<p>Ashley Buzzeo Brad Wolters</p>

	1/18/11	
<b>WFS Services</b> <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>	Updated: 4/5/11  Submitted: 3/15/11	Ashley Buzzeo Data & Resources Subcommittee
<b>Web Mercator Data Service Projection</b> <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>	Updated: 3/6/12; 10/4/11; 4/5/11  Submitted: 1/4/11	CGIS
<b>Metadata Services</b> <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>	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  Submitted: 4/20/10	Data & Resources Subcommittee Co-chairs

<b>Education &amp; Outreach Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
<b>Twitter/Communication Plan</b> <ul style="list-style-type: none"> <li>• List of every CIO for inclusion on email alerts</li> </ul>	Submitted: 11/15/11	GIO
<ul style="list-style-type: none"> <li>• Link to Merlin needs to be added to MD iMap Portal webpage</li> </ul>	Submitted: 12/21/10	Lisa Lowe
<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>	Updated: 10/4/11  Submitted: 12/21/10	Outreach Subcommittee Lisa Lowe
<ul style="list-style-type: none"> <li>• Recruit participants</li> </ul>	Updated:	Outreach

<ul style="list-style-type: none"> <li>Obtain feedback concerning how to improve upon current outreach strategies</li> <li>Email potential new members directly</li> </ul>	5/18/10; 4/20/10  Submitted: 3/16/10	Subcommittee
<ul style="list-style-type: none"> <li>Proactive Marketing of MD iMap</li> </ul>	Submitted: 9/21/10	Outreach Subcommittee

<b>Security Subcommittee:</b>		
<b>Description:</b>	<b>Date Assigned:</b>	<b>Follow Up By:</b>
Charter <ul style="list-style-type: none"> <li>Generate a charter</li> </ul>	Submitted: 12/7/10	Security Subcommittee
Security Model <ul style="list-style-type: none"> <li>On hold for funding availability</li> <li><del>Provide a copy of MD iMap Security Presentation to Brian Sivak (Jim Cannistra)</del></li> <li><del>Price quotes from proposal submission to be updated</del></li> <li><del>Additional documentation needed to address:               <ul style="list-style-type: none"> <li><del>Cost of Delay</del></li> <li><del>Justification of security (limitations, efficiencies)</del></li> <li><del>Needs Assessment to determine groups and definitions</del></li> </ul> </del></li> <li><del>Schedule meeting for Friday, October 22, 2010 to formalize document and format presentation for October 27, 2010 Exec. Comm. meeting</del></li> <li><del>Generate detailed document and presentation for October 27, 2010 Exec. Comm. meeting</del></li> <li><del>Document for presentation to Exec. Comm. at Oct. meeting</del></li> <li><del>Demo accompanying document to Exec. Comm. at Oct. meeting</del></li> <li>In progress, to be submitted by next Tech. Comm. meeting (10/5/10)</li> </ul>	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*

**Maryland Open Data/Socrata Demo (Presentation Available)**

- Share GIS data
- Link to services, upload data again
- Linked to services doesn't offer many of the benefits that Socrata adds
- JSON data export is an option for data upload into the Cloud
- Raster data would only be referenced

- Messaging out more, closer to legislative session (January)
- Matt Folley: Chief Data Officer designee for MDP
- Asked to add more GIS data
- Data on MDP site, link back to existing page on website for download, add service link is an option
- Starting point for MDP, MHT, 6 month update intervals
  - Mostly already open data

**Question:** Should a standard naming convention of data layers be discussed – Matt Folley

- Require name and description for metadata
- MD iMap and Socrata metadata minimum requirements to match up
- Discussion of categories (ISO), don't know if adapted
  - Available, but not consistent
  - MDP asked for 2 categories (Planning & Demographics)
- How many years of data to be added? – no guidance yet, agency specific
- No projections, web Mercator
- .shp and .kml also available for export
- Upload a .shp file or .kml, how does it come down?
  - Request people to experiment with this and report back to the group

Socrata REST Endpoint Tool from CGIS

- HTML call and send back .zip
  - Pull in data to Socrata automated, periodically
  - No API yet, manual process still
  - Made a lot of progress to date
  - Long term data appears in Socrata automatically unless people don't want it to
- Vice versa – pushing data from Socrata to MD iMap
  - Agencies don't pay for Socrata, DoIT and Governor's Office cover costs
  - Mapping product on Cloud-based system is slow
    - 1 million record cap per dataset
    - Not changing capacities, renew contract in March
- Socrata > “shapefile REST endpoint” > rename, more wide reaching
  - Data download link through REST endpoint
  - Getting implemented into their site (10.1 development)
  - Get code from CGIS, expose as new services were offering on new network

**Data Restructuring – Lisa Lowe (Presentation Available)**

- Application specific datasets trying to get away from this
- Trying to fill gaps in datasets of interests
- Historic Category and Demographic Category
  - Society data from MDP could go under these categories
  - A lot of census data which could go under Demographic category now
  - Historical data, not archived data
- Currently working on Data Management Plan

- Concerns about making data too generic potential for misuse or not understanding why data was created
- “AgPrint definition of Ag parcels”, output of an analysis and subset of data
- Data could be misused even if noted in metadata unless what they were looking for isn’t available, find next best thing
- “AgPrint Targeted Parcels” – What is the program called? “AgPrint”, application, specific data, website
  - Programmatic rather than website specific
- Historical naming: MD.State > Statewide data; MD.Worc > County data; CSSC.\_\_\_ > Own corridor
- Talked about maintaining this naming convention
- Different attributes being used, spatial, table joins, service join with specific attributes in tables
  - Test to see if this would replace duplicate datasets
  - Feature service required
- Test feature services on more complex datasets performance
  - Create feature services whenever possible
- Next week Smart, Green, Growing, send URL for testing
  - URL could change, so don’t recommend sharing for now
  - Brad Wolters volunteer to assist

## **Application Subcommittee Updates**

### Arc2Earth

- Response from the group concerning the demo
- Purchased software for MDtA
- Good ROI, good automated process
- Impressed with software so far
- On COTS list, companies that can get to software
- Procurement < \$2,500 can purchase directly
- Get responses from Technical Committee concerning demo
- Used trial, worked well, but depends on costs
- Pursue purchase through DoIT
- Plug-in bar, distribute through license server
  - Hope to set this up, look into it
- Leverage investment of making look good outside of Arc environment
- Brought large BGE dataset seamlessly into systems and applications

### Subcommittees

- Suggests revisiting who is on them, who is in charge of them
- Don’t always have reports on each
- 3 options:
  - Remove committees
  - Keep and revitalize
  - Keep and reorganize
- Each committee would be assigned a DoIT rep
- Socrata separate effort to coordinate with

- Wear out user base because Socrata and MD iMap overlap enough
- Restructure committees
  - Security committee could go away
  - Others would remain as placeholders and allow people to align with interests
  - Merge Application Subcommittee with Security Subcommittee
    - Application Subcommittee DoIT Rep = Jason Keppler
    - Data Subcommittee DoIT Rep = Lisa Lowe
    - Outreach Subcommittee DoIT Rep = Julia Fischer

#### SwGi

- Met with Adam Smith at DoIT, CGIS network person, change connections and retest

#### USDOT

- Approached MDOT about how each state working with Cloud computing
    - Google Earth Builder and ArcGIS Online utilization questions
  - Different states using GIS-related Cloud computing to be part of case study
    - Peer to peer discussion if case study seems viable
    - Interview involved?
    - Offer funding for involvement?
    - Need clarification on time this will take, etc.
- Action Item:** Kaushik Dutta and Barney Krucoff to have phone conversation with them to start

#### Geoprocessing Services

- Brad Wolters at DHCD – Housing Mapper has geoprocessing services
- Will work with developers at DoIT to determine how these more involved services will be migrated into the new template design/implementation

#### MD iMap Template Update

- Developing in HTML/JavaScript/CSS
  - Utilizing Dojo 1.7, ArcGIS 3.2 and jQuery 1.9
  - Compatible as templates in ArcGIS Online
  - Creating a standard template for each agency or theme (e.g. – Smart, Green and Growing template)
  - Capability in AGO to configure banner/footer/tools dynamically
  - Developing with modular structure similar to ArcGIS Flex Viewer
  - Developers can create HTML/JavaScript “widgets” to plug-in to template
  - Core widgets will be present in templates for Table of Contents, Download Data, Add Data Services, Search, Identify, Print and Draw
- MD iMap Applications
  - AgPrint is first
  - Based on an MD iMap template
  - Consume new ArcGIS Server 10.1 services and link to Socrata
  - First iteration on 12/4/12

#### Data Subcommittee Updates

SwGi implementation in place

- Connect to SDE via SwGi to DoIT progressing

#### Data Updates

- Still receiving monthly centerline updates
- GreenPrint services have been updated
- Parcel boundary service has been updated
- Unemployment rates service updated monthly

#### Sporadic Service Errors

- CGIS has been having some issues with the MD iMap system
- Working with Esri to resolve
- Considering too many map services, ArcGIS Server at capacity
- Limit to ArcGIS Server or hardware, thinks its ArcGIS Server
- Esri looking into maximum services which it can handle

#### Service Search

- Will eventually search multiple server, not just MD iMap server, so not everything has to go to MD iMap
- Utilizing hardware available
- Centralize, one-stop-shop for reliability and commonality

#### New Image Service

- Image service, color off in ArcMap, color okay in JavaScript viewer
- Can't adjust anything on back end
- Dynamic range from whole dataset in ArcMap
- Needs to be reflected somewhere in metadata, at minimum
- Have to set default settings which are saved into future
- CGIS to pursue an issue with Esri
  - Review and couldn't find where the alter a setting
  - Discuss with Esri
- "MD.State.6inimagery" and "MD.State.Sixinchimagery"
  - Name should include whether image service, etc.
- NOAA imagery pulls into ArcMap without issue
- 3 band versus 4 band might be something to consider, smaller area, default numbers fewer

#### Web Mercator Projection

- How does this affect other agencies working at engineering scales?
- Not tested, no agency has voiced concern of this compromised accuracy
- Will agencies change to match production of data in new projection?
  - Not yet
  - Reproject for MD iMap
- Implied moving away from MD iMap basemap
- Industry standard is web Mercator and basemaps from other sources take advantage of their significant resources to maintain accuracy and update information in the basemaps

## **Outreach Subcommittee**

*No updates at this time*

## **Security Subcommittee**

*No updates at this time*

## **Other Business**

GIO Office Updates

- Two new jobs on the DBM website as of tomorrow and shortly
- Both most likely to report in Annapolis, but is negotiable
- Will work on the same team as other DoIT GIS individuals