



Maryland Addressing Project

Forging Partnerships With Local Governments



MDiMAP Executive Meeting



Background

- SBI grant awarded to Maryland Broadband Cooperative (MBC)
- Salisbury University obtained contract from MBC to complete a data collection and mapping effort of Maryland's broadband areas
- GIS Coordinator for Statewide Addressing hired in late December and outfitted at the DoIT's office in Annapolis

<http://imap.maryland.gov/>

twitter  @MDiMap

Big Picture

- One standardized master address point repository for the state of Maryland built from the ground up
 - Local jurisdictions are to be originator and steward of data
 - Serves as the statewide address source for multiple applications
 - Maintains up-to-date data
- Leverage previous Numbers Board investments for local addressing efforts for statewide benefit
- Build and maintain on-going partnerships with local jurisdictions
- Not a re-addressing project

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Data Overview



PARCELID	ADDRESS	PREMNAM	PREMSTYP	PRIORITY	PRIOR2P	COORDINATES	STREETNAME	S...
057306	6406	ANDERSON	AVE	Reserv	21076	6406 ANDERSON AVE	ANDERSON AVE	
057011	6471	LOUDON	AVE	Reserv	21076	6471 LOUDON AVE	LOUDON AVE	
054914	6401	LOUDON	AVE	Reserv	21076	6401 LOUDON AVE	LOUDON AVE	
057986	6373	HANOVER CROSSING	WAY	Reserv	21076	6373 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050204	6378	HANOVER CROSSING	WAY	Reserv	21076	6378 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050026	6308	HANOVER	RD	Reserv	21076	6025 HANOVER RD	HANOVER RD	
050041	6394	HANOVER CROSSING	WAY	Reserv	21076	6394 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050044	6428	HANOVER	RD	Reserv	21076	6428 HANOVER RD	HANOVER RD	
050211	6398	HANOVER CROSSING	WAY	Reserv	21076	6398 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050248	6488	MICHAEL ELIZABETH	WAY	Reserv	21076	6488 MICHAEL ELIZABETH WAY	MICHAEL ELIZABETH WAY	
050202	6413	JULIE ANN	DR	Reserv	21076	6413 JULIE ANN DR	JULIE ANN DR	
054941	6401	NORRIS	ST	Reserv	21076	6401 NORRIS ST	NORRIS ST	
054946	6467	HANOVER	RD	Reserv	21076	6467 HANOVER RD	HANOVER RD	
054941	6438	WILLIAM	ST	Reserv	21076	6425 WILLIAM ST	WILLIAM ST	
054959	6378	NORRIS	ST	Reserv	21076	6378 NORRIS ST	NORRIS ST	
050811	6421	SHIPTON	DR	Reserv	21076	6427 SHIPTON DR	SHIPTON DR	
050911	6457	ANDERSON	AVE	Reserv	21076	6457 ANDERSON AVE	ANDERSON AVE	
050622	6438	RYAN	AVE	Reserv	21076	6438 RYAN AVE	RYAN AVE	
050642	6438	HANOVER	RD	Reserv	21076	6438 HANOVER RD	HANOVER RD	
050054	6428	MICHAEL ELIZABETH	WAY	Reserv	21076	6428 MICHAEL ELIZABETH WAY	MICHAEL ELIZABETH WAY	
050974	6418	MICHAEL ELIZABETH	WAY	Reserv	21076	6419 MICHAEL ELIZABETH WAY	MICHAEL ELIZABETH WAY	
050601	6396	WINTERS	LN	Reserv	21076	6396 WINTERS LN	WINTERS LN	
050696	6328	HANOVER CROSSING	WAY	Reserv	21076	6328 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050641	6403	MICHAEL ELIZABETH	WAY	Reserv	21076	6403 MICHAEL ELIZABETH WAY	MICHAEL ELIZABETH WAY	
050946	6363	HANOVER CROSSING	WAY	Reserv	21076	6363 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
049692	6418	RYAN	AVE	Reserv	21076	6418 RYAN AVE	RYAN AVE	
057014	6488	ANDERSON	AVE	Reserv	21076	6488 ANDERSON AVE	ANDERSON AVE	
057046	6358	HANOVER CROSSING	WAY	Reserv	21076	6358 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
057054	6371	HANOVER CROSSING	WAY	Reserv	21076	6371 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
057044	6428	MICHAEL ELIZABETH	WAY	Reserv	21076	6428 MICHAEL ELIZABETH WAY	MICHAEL ELIZABETH WAY	
057071	6391	HANOVER CROSSING	WAY	Reserv	21076	6391 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050824	6305	HANOVER CROSSING	WAY	Reserv	21076	6305 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050211	6301	HANOVER CROSSING	WAY	Reserv	21076	6301 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
050101	6412	JULIE ANN	DR	Reserv	21076	6412 JULIE ANN DR	JULIE ANN DR	
050204	6402	HANOVER	RD	Reserv	21076	6402 HANOVER RD	HANOVER RD	
050302	6444	SHIPTON	DR	Reserv	21076	6444 SHIPTON DR	SHIPTON DR	
050301	6413	HANOVER	RD	Reserv	21076	6413 HANOVER RD	HANOVER RD	
050411	6428	RYAN	AVE	Reserv	21076	6428 RYAN AVE	RYAN AVE	
050471	6284	MOUND	ST	Reserv	21076	6288 MOUND ST	MOUND ST	
050106	6429	ANDERSON	AVE	Reserv	21076	6429 ANDERSON AVE	ANDERSON AVE	
050222	6438	WILLIAM	ST	Reserv	21076	6438 WILLIAM ST	WILLIAM ST	
050574	6541	LOUDON	AVE	Reserv	21076	6541 LOUDON AVE	LOUDON AVE	
050206	6421	SHIPTON	DR	Reserv	21076	6427 SHIPTON DR	SHIPTON DR	
050478	6428	ANDERSON	AVE	Reserv	21076	6428 ANDERSON AVE	ANDERSON AVE	
050688	6464	ANDERSON	AVE	Reserv	21076	6464 ANDERSON AVE	ANDERSON AVE	
050706	6373	HANOVER	RD	Reserv	21076	6373 HANOVER RD	HANOVER RD	
050828	6361	SOUTH HANOVER	RD	Bridge	21075	6363 SOUTH HANOVER RD	SOUTH HANOVER RD	
050461	6371	WINTERS	LN	Reserv	21076	6371 WINTERS LN	WINTERS LN	
050691	6422	KRISTIN	DR	Reserv	21076	6422 KRISTIN DR	KRISTIN DR	
050378	6437	JULIE ANN	DR	Reserv	21076	6437 JULIE ANN DR	JULIE ANN DR	
050444	6401	RYAN	AVE	Reserv	21076	6405 RYAN AVE	RYAN AVE	
057078	6398	HANOVER CROSSING	WAY	Reserv	21076	6398 HANOVER CROSSING WAY	HANOVER CROSSING WAY	
057078	6402	ANDERSON	AVE	Reserv	21076	6402 ANDERSON AVE	ANDERSON AVE	
057054	6414	ANDERSON	AVE	Reserv	21076	6414 ANDERSON AVE	ANDERSON AVE	
057042	6428	JULIE ANN	DR	Reserv	21076	6428 JULIE ANN DR	JULIE ANN DR	
050111	6311	HANOVER CROSSING	WAY	Reserv	21076	6311 HANOVER CROSSING WAY	HANOVER CROSSING WAY	

0 out of 94138 Selected

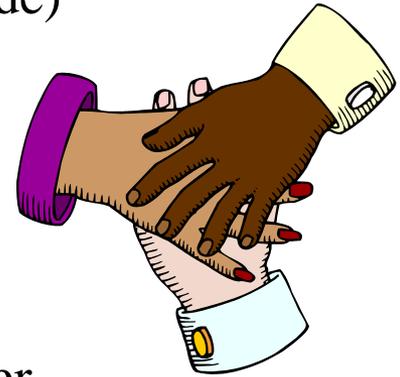
Address Points | Content | parcel_test_033_030 job

Why

- The State benefits
 - Supports a high-quality geocoding service for numerous state agencies and the public
 - Saves money
 - Streamlines/standardizes internal agency procedures
- Local jurisdictions benefit
 - Provides local jurisdictions with consistent data from adjoining jurisdictions
 - Reduces redundant data requests
 - Obtains feedback from the State verification process

How

- Coordinate!
 - Many other ongoing/new data collection efforts
 - MDSP E911 project on the Eastern Shore (maybe statewide)
 - Towson University Center for GIS (CGIS) - Centerlines
 - Maryland Department of Planning - Parcels
 - Washington College – Address Points
 - SHA – Centerlines
 - Maryland Department of Planning - Land-Use/Land-Cover



How

- Hold face-to-face meetings with local PSAPs and GIS coordinators
 - What is the lifecycle of an address?
- Provide a service back to the locals (more than just a thank you!)
 - Provide list of addresses that drop out
 - Voter registration database
 - Vehicle registration
 - Package data for out-of-the-box solutions
 - ESRI Address Data Management Template
 - Provide other feedback

When

- **Phase 1 - Initial Outreach:**
 - Currently finalizing data-request letter
 - Conduct face-to-face meeting with local jurisdictions for data collection/interviews (March – May)
- **Phase 2 – Data Collection:**
 - Eastern Shore - April 15th
 - West of the Bay - May
- **Phase 3 – Data Analysis/Verification:**
 - Summarize validation findings for each county and report back to local representatives (May – June)

When

- **Phase 4 – Data Standardization:**
 - Merge datasets to a simplified schema and publish to iMAP - August
- **Phase 5 – Identify Address Improvement Plan:**
 - Contingent upon funding, write and submit RFPs to prospective contractors for addressing improvement – Early 2014
- **Phase 6 - Finalize Addressing Services and Updating Process:**
 - The addressing project will be deemed a success not by creating a static database for broadband reporting, but rather an up-to-date dataset accessible for multiple applications – Throughout 2014

Examples

The screenshot shows a web browser window titled "Oregon Address Point Utility". The main heading is "Oregon Address Point Database Web Utility". The interface includes a login section with a "1" annotation pointing to the "Enter login credentials:" label, which contains "User name" and "Password" input fields and a "Log In" button with a "3" annotation. A "2" annotation points to the "Select Tool:" section, which has three radio button options: "Online Address Editing Tool" (selected), "Address Submission Tool", and "Address Extraction Tool". Below the login section is a link: "If you don't have an account, get one [here](#)". The "About the Oregon Address Point Utility" section contains a paragraph of Lorem Ipsum text and three empty rounded square boxes. The browser's address bar is empty, and the page has a light background with a faint map pattern.

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Application

- MDiMAP Composite Geocoder
 - Developed by CGIS in order to provide the MDiMap community with a single geocoding service that not only geocodes street addresses using road centerline data but also using parcel point data and other ancillary data.

Feature Class	Geometry	Source
Parcel Points	Point	MDP
Statewide Centerline	Line	CGIS
Intersections	Point	SHA
Highway Exits	Point	SHA
Zip Codes	Polygon	MDP
Municipalities	Polygon	MDP
Mile Markers	Point	SHA
Community Anchors	Point	CGIS
Points of Interest	Point	SHA
Places	Line	GNIS
Polygon	Polygon	MDP

Howard County Test

- Old iMAP Geocoder
 - approximate time to process (94,158 records): 4:50 minutes
 - average speed: 1,170,000 records/hr
 - unmatched: 1198
- Cascading Geocoder
 - approximate time to process(94,158 records): 6:26 minutes
 - average speed: 878,000 records/hr
 - unmatched (zip code matches): 1028

Howard County Test

