

TECHNOLOGY COMMITTEE

10/6/2014

304 E. Grand River Ave, Conference Room 5A, Howell, MI 48843

6:30 PM

AGENDA

- 1. CALL TO ORDER**
 - 2. APPROVAL OF MINUTES**
Minutes of Meeting Dated: September 2, 2014
 - 3. APPROVAL OF AGENDA**
 - 4. CALL TO THE PUBLIC**
 - 5. RESOLUTIONS FOR CONSIDERATION**
 - A. RESOLUTION AUTHORIZING THE PURCHASE OF A DELL STORAGE AREA NETWORK (SAN) FROM ULTRALEVEL TO INCREASE THE AMOUNT OF STORAGE SPACE FOR EFFECTIVE OPERATION
 - B. RESOLUTION TO SIGN LETTER OF COMMITMENT FOR THE 2015 SEMCOG COLLABORATIVE DIGITAL ORTHOIMAGERY PROJECT
 - 5. DISCUSSION**
CEIL
 - 6. ADJOURNMENT**
-

MEETING MINUTES

LIVINGSTON COUNTY

SEPTEMBER 2, 2014 - 6:30 PM

ADMINISTRATION BUILDING - CONFERENCE ROOM 4
304 E. Grand River Avenue, Howell, MI 48843

TECHNOLOGY COMMITTEE

COMM. STEVE WILLIAMS

BELINDA PETERS

RICH MALEWICZ

OTHERS: GREG JOLLIFF

1. **CALL TO ORDER:** Meeting called to order by: **COMM. STEVE WILLIAMS** at **6:30 PM**.
2. **APPROVAL OF AGENDA:**

MOTION TO APPROVE THE AGENDA, AS PRESENTED.

MOVED BY: PETERS / SECONDED BY: MALEWICZ

ALL IN FAVOR - MOTION PASSED

3. **APPROVAL OF MINUTES: MINUTES OF MEETING DATED MARCH 31, 2014:**

MOTION TO APPROVE THE MINUTES, AS PRESENTED.

MOVED BY: MALEWICZ / SECONDED BY: PETERS

ALL IN FAVOR - MOTION PASSED

4. **CALL TO THE PUBLIC:** None.

5. **DISCUSSION**

➤ **Managed Print Services Project**

Third party vendors maintain printers and supplies ink cartridges, Just-In-Time (ink, toner, maintenance)

- Reduces cost-projected annual savings \$48,000.00
- Provides preventative maintenance
- Provides utilization reports
- Goal is to reduce number of printers and pages printed
- Reference Image One attachment

Next steps:

- Monitoring to determine usage for a more accurate savings
 - Invite Image One to make presentation to Finance Meeting October 15th.
 - No forced consolidation or elimination of printers
- **Storage Area Network (SAN) Project**
- Approximate cost: \$450,000.00, awaiting quotes
 - GSA Pricing: November/December – authorization, Implementation – January 2015
- **Cisco Switch Refresh Project**
- Projected cost: \$450,000.00
 - Implementation 2016 – working with Gartner on SAN project and CISCO Switch Refresh Project.
 - Maintenance contract for 2015 - \$50,000.00
- **Physical Security for East Complex and Admin Update**
- Implementation 9-8 / Facilities will be next

6. ADJOURNMENT:

**MOTION TO ADJOURN AT 7:25 PM.
MOVED BY: PETERS / SECONDED BY: WILLIAMS
ALL IN FAVOR - MOTION PASSED**

Respectfully Submitted

BELINDA PETERS
RECORDING SECRETARY

Department	Make	Model	Serial #	Mono Volume	Color Volume	Current State				Future State			
						Mono CPP	Color CPP	Mono Cost	Color Cost	Mono CPP	Color CPP	Mono Cost	Color Cost
Public Health	HP	M1536dnf MFP	CNF8F8J80M	250	-	\$ 0.0381	\$ -	\$ 9.53	\$ -	0.0143		\$ 3.58	
Public Health	HP	1320	CNHC63X1QW	250	-	\$ 0.0376	\$ -	\$ 9.40	\$ -	0.0143		\$ 3.58	
Public Health	HP	4100n	USBGC12921	1,000	-	\$ 0.0200	\$ -	\$ 20.00	\$ -	0.0143		\$ 14.30	
Public Health	HP	2100	USGZ079478	66	-	\$ 0.0258	\$ -	\$ 1.70	\$ -	0.0143		\$ 0.94	
Public Health	HP	M601dn	CNCCG1827H	1,781	-	\$ 0.0188	\$ -	\$ 33.48	\$ -	0.0143		\$ 25.47	
Public Health	HP	P3015n	VNB3R79619	302	-	\$ 0.0247	\$ -	\$ 7.46	\$ -	0.0143		\$ 4.32	
								\$ 81.57				\$ 52.18	

Friends of the Court	HP	4100n	USGNF02145	6,667	-	\$ 0.0200	\$ -	\$ 133.34	\$ -	0.0143		\$ 95.34	
Friends of the Court	HP	2420	CNGKB12105	500	-	\$ 0.0235	\$ -	\$ 11.75	\$ -	0.0143		\$ 7.15	
Friends of the Court	HP	2420	CNGKB12099	500	-	\$ 0.0235	\$ -	\$ 11.75	\$ -	0.0143		\$ 7.15	
Friends of the Court	HP	2200dt	FCNCRG70287	500	-	\$ 0.0258	\$ -	\$ 12.90	\$ -	0.0143		\$ 7.15	
Friends of the Court	HP	P3015	JPBDS15504	500	-	\$ 0.0247	\$ -	\$ 12.35	\$ -	0.0143		\$ 7.15	
Friends of the Court	HP	5200N	CNDXB15122	432	-	\$ 0.0173	\$ -	\$ 7.47	\$ -	0.0143		\$ 6.18	
Friends of the Court	HP	CP4025N	JPBCC9N130	283	1,431	\$ 0.0232	\$ 0.1041	\$ 6.57	\$ 148.97	0.0143	0.0927	\$ 4.05	\$ 132.65
								\$ 196.13	\$ 148.97			\$ 134.16	\$ 132.65

Prosecutors	HP	4250N	CNRXG75131	5,680	-	\$ 0.0184	\$ -	\$ 104.51	\$ -	0.0143		\$ 81.22	
Prosecutors	HP	4200N	CNBX317283	4,157	-	\$ 0.0160	\$ -	\$ 66.51	\$ -	0.0143		\$ 59.45	
Prosecutors	HP	4250N	CNRXR20980	2,173	-	\$ 0.0184	\$ -	\$ 39.98	\$ -	0.0143		\$ 31.07	
Prosecutors	HP	4050N	USQB047182	523	-	\$ 0.0299	\$ -	\$ 15.64	\$ -	0.0143		\$ 7.48	
								\$ 226.64				\$ 179.22	

	Current State	Future State	Monthly Save	Annual Save
Public Health	\$ 81.57	\$ 52.18	\$ 29.39	\$ 352.67
Friends of the Court	\$ 345.10	\$ 266.82	\$ 78.28	\$ 939.36
Prosecutors	\$ 226.64	\$ 179.22	\$ 47.42	\$ 569.08
			\$ 155.09	\$ 1,861.11

	Cost per page Mono	Cost per page Color	Monthly rate for Local Mono \$25 for laser \$35 for inkjet	Monthly rate for Local Color \$45 for laser \$55 for inkjet
Xerox	\$0.0150	\$0.1300		
Governor	NA	NA	NA	NA
Image One	\$0.0143	\$0.0927	\$20.00	\$40.00



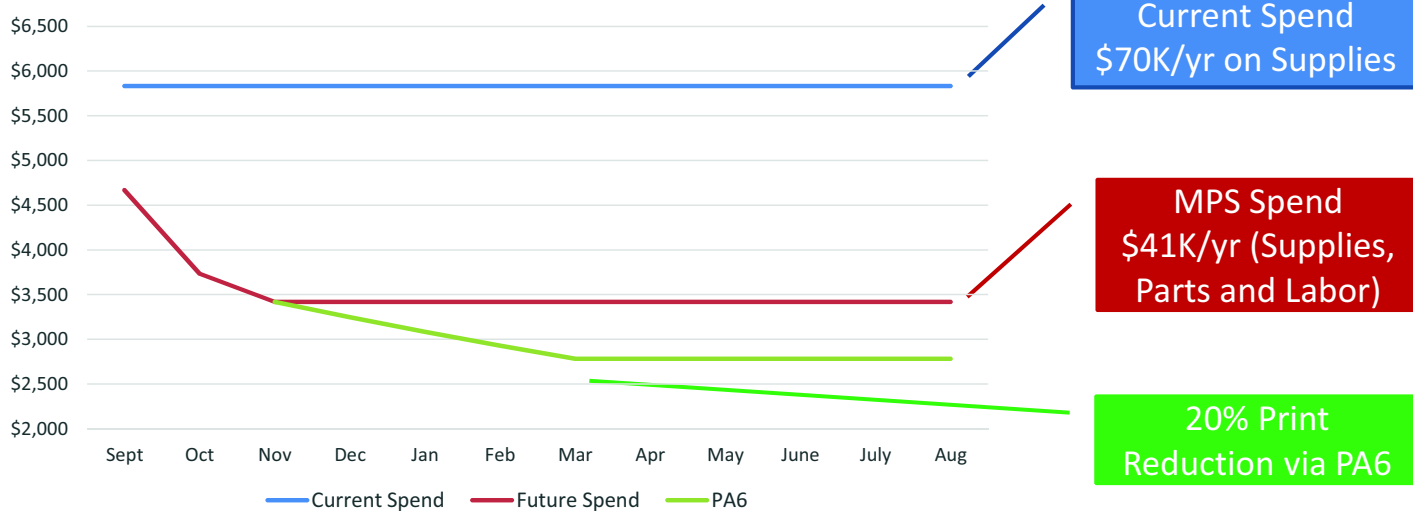
Livingston County

MPS Proposal

June 11, 2014



Livingston County MPS Cost Comparison



- Does not include additional **\$15K-\$20K** annual Admin/IT cost savings based on 6hrs/week of IT time and 720 individual admin transactions per year
- Faster response time with initial Q1 savings of **40%** and annually over **50% (\$35K minimums)**
- Local and InkJet support available as needed
- Continuous optimization and cost improvement



Livingston County					
	Monthly Network	Monthly Local	Annual	Minimums	Min Billing
Total	90,039	42,498	1,590,444	1,392,000	\$ 34,958.40
Mono	77,696	36,098	1,365,528	1,200,000	\$ 17,160.00
Color	12,343	6,400	224,916	192,000	\$ 17,798.40

Current Environment	
	Annual Cost
Supplies	\$ 70,000.00
Tech Support (6hr/wk)	\$ 5,616.00
Inventory	\$ 2,500.00
Admin *	\$ 11,100.00
Total	\$ 89,216.00

Image One Solution		
Mono Rate	Color Rate	InkJet Devices
\$ 0.0143	\$ 0.0927	
	\$ 40.0000	2
\$ 19,527.05	\$ 20,849.71	\$ 960.00
Annual Total	\$ 40,376.76	\$ 41,336.76

* Formula based on 240 Cartridge orders per year (720 transactions). Purchase Order/Receiving/Invoicing estimated at 1 hour. \$20.00 an hour

* Additional rate for service calls based on 50 service calls per year

Soft Cost Inputs:	
Mono Orders Per Year:	120
Colour Orders Per Year:	60
Total Transactions Per Year:	720
Service Calls Per Year	20
Parts/Call	75
Admin Hourly Rate	\$ 15.00
Technician Hours/Week	6
Technician Rate/Hr	\$ 18.00

Summary	
Current Supply Spend	\$ 70,000.00
imageOne Annual Spend	\$ 41,336.76
Price Per Page Savings	\$ 28,663.24
Additional Savings	
Ancillary Print Costs	\$ 19,216.00
Total Print Spend	\$ 89,216.00
imageOne Annual Spend	\$ 41,336.76
Total Annual Savings	\$ 47,879.24

Contract Updates

- Effective Minimums:
 - Up front Monthly Billing
 - Quarterly True-Ups
 - Overage or Credits applied quarterly
- 4 hour Service Response
- 62 Local Laser Devices
- Approximately 30 Inkjet devices

A progressive approach to managed print.



{ Thank You! }

RESOLUTION

NO:

LIVINGSTON COUNTY

DATE:

RESOLUTION AUTHORIZING THE PURCHASE OF A DELL STORAGE AREA NETWORK (SAN) FROM ULTRALEVEL TO INCREASE THE AMOUNT OF STORAGE SPACE FOR EFFECTIVE OPERATION - INFORMATION TECHNOLOGY

WHEREAS, the County is at risk of imminent partial or complete shutdown/outage of the server environment once the SAN storage reaches capacity causing loss of email service, accounting and other critical applications/systems; and

WHEREAS, the current EMC Storage Area Network (SAN) capacity is critically low and is unable to sustain the County's storage growth through the end of the year; and

WHEREAS, there is only 1.6% free storage space available to County users as of 9/30/14, where Microsoft and VMware both recommend keeping 20% of storage space available for effective operation; and

WHEREAS, proposals were solicited from two consultant services and UltraLevel has been selected after a review both internally and with Gartner; and

WHEREAS, pricing is based on the Midwestern Higher Education Compact (MHEC) and per the purchasing policy competitive bidding is waived; and

WHEREAS, hardware, software, and services to include integration and data migration costs will total \$370,182.72 for the total project; and

WHEREAS, funding is available through Capital Replacement Fund.

THEREFORE BE IT RESOLVED that the Livingston County Board of Commissioners hereby approves and authorizes a purchase order to be issued to UltraLevel for the purchase and installation services of a Dell Storage Area Network (SAN) in order to allow ample time for the product to ship from the manufacturer and be installed with a contract amount not to exceed \$370,182.72.

BE IT FURTHER RESOLVED that the Livingston County Board of Commissioners hereby authorizes funds from the Capital Replacement Fund for the project.

BE IT FURTHER RESOLVED as pricing is direct from the Midwestern Higher Education Compact (MHEC) that the competitive bidding process per the purchasing policy be waived.

BE IT FURTHER RESOLVED that, the Livingston County Board of Commissioners authorizes the Board Chair to sign any and all documents related to this project, once recommended as to form by County Legal Counsel.

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MOVED:
SECONDED:
CARRIED:

RESOLUTION

NO:

LIVINGSTON COUNTY

DATE:

RESOLUTION TO SIGN LETTER OF COMMITMENT FOR THE 2015 SEMCOG COLLABORATIVE DIGITAL ORTHOIMAGERY PROJECT - INFORMATION TECHNOLOGY

WHEREAS, the County has committed to providing accurate and up-to-date Digital Orthoimagery as a foundation to the GIS database; and

WHEREAS, an opportunity to greatly reduce the cost for digital orthoimagery through a partnership with Southeastern Michigan Council of Governments (SEMCOG), and several southeastern Michigan Counties in a regional orthophotography flight in the spring of 2015; and

WHEREAS, several local units and the Livingston County Road Commission have expressed an interest in sharing the cost of 2015 Digital Orthoimagery Project; and

WHEREAS, the County would enter into a contract with SEMCOG to coordinate with the State of Michigan; and

WHEREAS, the County will commit funds based on the percentage of square miles in the seven county southeastern Michigan region (Livingston County, 15.86% of total SEMCOG area, excepting Oakland County); and

WHEREAS, funds will be made available in the FY2015 IT Budget and the cost shall not exceed \$66,016.65; and

WHEREAS, the Information Technology/GIS Division anticipates local units and agency contributions to be, \$61,016.65; leaving the \$5,000 Livingston County Information Technology contribution; and

WHEREAS, this Resolution has been recommended for approval by the Technology Committee at their Monday, October 6, 2014 meeting.

THEREFORE BE IT RESOLVED that the Livingston County Board of Commissioners hereby approves signing the letter of intent for the 2015 Regional Orthoimagery Project with SEMCOG of 535 Griswold Street, Suite 300, Detroit, Michigan 48226. The cost for the contract shall not exceed \$66,016.65.

BE IT FURTHER RESOLVED that the Board Chair is authorized to sign said letter of intent to become a partner in the 2015 Regional Digital Orthoimagery Project.

BE IT FURTHER RESOLVED that the Livingston County Board of Commissioners authorizes the Board Chair to sign any and all documents related to this project, once recommended as to form by County Legal Counsel.

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**MOVED:
SECONDED:
CARRIED:**



Memorandum

To: Livingston County Board of Commissioners
From: Richard Malewicz, CIO
Date: 9/8/2014
Re: 2015 Digital Orthoimagery Project

Through coordinated efforts, six Southeastern Michigan Counties, the Southeastern Michigan Council of Governments (SEMCOG) and other regional partners have decided to create a partnership that greatly reduces the cost of Digital Orthoimagery for 2015. Through this cooperative effort we intend to reduce the cost of orthoimagery by 30-40% for each County.

HISTORICAL COST OF LIVINGSTON COUNTY ORTHOPHOTOGRAPHY:

Year	2000	2002	2003	2005*	2008*	2010*
Vendor	Walker/Sanborn	Sanborn	Aerocon	EarthData	Sanborn	Woolpert
Coverage	Full County (576 square miles)	SE quadrant (144 square miles)	NE quadrant (144 square miles)	Full County (576 square miles)	Full County (576 square miles)	Full County (576 square miles)
Product	6" pixel resolution true-color orthoimagery	6" pixel resolution true-color orthoimagery	6" pixel resolution true-color orthoimagery	6" pixel resolution true-color orthoimagery	12" pixel resolution true-color orthoimagery	12" pixel resolution true-color orthoimagery
Project Cost	\$300,535	\$71,765	\$47,781	\$11,565	\$26,013	\$7,101.08

* = Regional partnerships in action to acquire designated orthoimagery product

Estimated costs are based on the percentage of land area that Livingston County covers (15.86%) within the SEMCOG region, with the exception of Oakland County. A more detailed chart titled [2015 Weighted Cost Estimate – 6 inch Upgrade](#) displays the regional cost for each of the six participating counties and SEMCOG.

This project also included the option to upgrade to 3 inch pixel resolution imagery. Hartland Township requested this 3 inch pixel resolution upgrade for their area of interest for which they will cover 100% of the associated costs. A more detailed chart titled [2015 Hartland Twp Cost Estimate – 3 inch Upgrade](#) displays the costs to Hartland Township for this upgrade.

SEMCOG has agreed to manage the project with the State of Michigan and the selected orthophotography vendor. The vendor (Sanborn) was selected through a formal RFP process that began the Summer of 2012 by the State of Michigan as part of the MiSAIL Program. The State of Michigan coordinated with the vendor to set the imagery specifications, which meet the Livingston County digital orthophotography standards. Similar partnerships have been very successful in past projects with SEMCOG and throughout regions across the United States.

Funding for this project will be proposed in the 2015 Budget. A cost sharing partnership with the local units of government and the Livingston County Road Commission is also being proposed to assist in recovering up to 70-80% of the costs of this project, estimated at \$66,016.65. A more detailed chart titled [2015 Livingston County Partnership Cost Estimate](#) displays the proposed weighted cost to each local unit if they choose to participate in this cost sharing initiative. If Livingston County wishes to participate, submission of a partnership letter to SEMCOG is requested by October 1, 2014. This letter is committing County funds for the 2015 flight in an amount not to exceed \$66,016.65.

If you have any questions regarding this project please contact me.

Letter of Intent to Become a Partner in the
2015 Aerial Acquisition

SEMCOG plans to partner with the State of Michigan to acquire high resolution imagery for the year 2015. Based on the Concept Plan for this flight

_____, intends to become a partner in this project.
(agency name)

More information about the Statewide imagery acquisition can be found on the State's web site

http://www.michigan.gov/cgi/0,4548,7-158-52927_53037_12699_63834-293865--,00.html

Project Cost: We understand that the total cost of this project will be between \$151,000 and \$443,000, based on final photography specifications. See attached weighted cost chart. Costs will be shared among county partners based on area, with cost shares for other partners to be negotiated. We also understand that this amount for each partner may vary based on the total numbers of partners.

The partners will jointly own imagery, distribution to others will follow each partners own standard practices and pricing schedules.

Authorizing signature _____
Has the authority to sign contracts and to commit agency funds.

Title _____

Date _____

Southeast Michigan 2015 Orthoimagery Project
Partner with State of Michigan
Cost per Partner for Buy-Up Option (Countywide 6 inch and Hartland ONLY 3 inch pixel resolution)

Community	Area in Square Miles	2010 Census Population	Parcel Count	Split by Area	Split by Population	Split by Parcel	Average	3 inch Upgrade
Brighton City	3.54	7,444	3,413	\$238.00	\$1,616.60	\$1,558.77	\$1,137.79	\$0.00
Brighton Twp	34.63	17,791	8,512	\$2,325.27	\$3,863.63	\$3,887.56	\$3,358.82	\$0.00
Cohoctah	38.44	3,317	1,888	\$2,581.01	\$720.35	\$862.28	\$1,387.88	\$0.00
Conway	37.79	3,546	1,857	\$2,537.44	\$770.08	\$848.12	\$1,385.21	\$0.00
Deerfield	37.64	4,170	2,289	\$2,526.84	\$905.59	\$1,045.42	\$1,492.62	\$0.00
Fowlerville	2.27	2,886	1,048	\$152.47	\$626.75	\$478.64	\$419.29	\$0.00
Genoa	36.15	19,821	8,777	\$2,427.01	\$4,304.49	\$4,008.59	\$3,580.03	\$0.00
Green Oak	37.03	17,476	8,225	\$2,485.98	\$3,795.23	\$3,756.48	\$3,345.90	\$0.00
Hamburg	36.07	21,165	10,591	\$2,421.79	\$4,596.36	\$4,837.07	\$3,951.74	\$0.00
Handy	32.23	5,120	2,719	\$2,163.97	\$1,111.90	\$1,241.81	\$1,505.89	\$0.00
Hartland	37.24	14,663	5,784	\$2,500.60	\$3,184.33	\$2,641.64	\$2,775.53	\$14,218.59
Howell City	5.13	9,489	3,362	\$344.52	\$2,060.71	\$1,535.48	\$1,313.57	\$0.00
Howell Twp	32.03	6,702	3,464	\$2,150.73	\$1,455.46	\$1,582.06	\$1,729.42	\$0.00
Iosco	35.44	3,801	2,083	\$2,379.27	\$825.46	\$951.34	\$1,385.35	\$0.00
Marion	35.86	9,996	5,022	\$2,407.35	\$2,170.81	\$2,293.62	\$2,290.59	\$0.00
Oceola	36.76	11,936	5,790	\$2,468.34	\$2,592.12	\$2,644.38	\$2,568.28	\$0.00
Pinckney	1.65	2,427	1,074	\$110.96	\$527.07	\$490.51	\$376.18	\$0.00
Putnam	33.94	5,821	3,355	\$2,279.00	\$1,264.13	\$1,532.28	\$1,691.81	\$0.00
Tyrone	36.73	10,020	4,467	\$2,466.08	\$2,176.02	\$2,040.15	\$2,227.42	\$0.00
Unadilla	34.72	3,366	2,325	\$2,331.42	\$730.99	\$1,061.86	\$1,374.76	\$0.00
Total	585.31	180,957	86,045	\$39,298.06	\$39,298.06	\$39,298.06	\$39,298.06	\$14,218.59

	Total Buy-Up Cost	\$51,798.06	Cost per Sq Mile:	\$67.14
Countywide Partners	LCGIS	\$5,000		
	LCDC	\$5,000	Cost Per Parcel:	\$0.46
	LCRC	\$2,500	Cost Per Resident:	\$0.22
		\$39,298.06		

Total for COUNTY	\$66,016.65
Hartland Total	\$16,994.12

6 inch pixel resolution will cost an additional \$82.53 per square mile if we capture > 500 sq miles
 If split equally, community partners would contribute \$2,245.50 each

3 inch pixel resolution will cost an additional \$359.14 per square mile if we capture < 100 sq miles
 Hartland is contributing an additional \$13,543.17 for 3 inch imagery for their township + 100ft

Southeast Michigan 2015 Orthoimagery Project
Hartland 3 inch Buy-Up Request and Total Cost

Imagery Product	Area in Square Miles	Calculated by Area	Average
Hartland 3 inch with 500ft buffer	39.59	\$14,218.59	\$14,218.59
Hartland 6 inch no buffer	37.24	N/A	\$2,775.53
Total			\$16,994.12

Total Buy-Up Cost	\$16,994.12	Cost per Sq Mile:	\$359.14
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3 inch pixel resolution will cost an additional \$359.14 per square mile if we capture < 100 sq miles
Hartland is contributing an additional \$13,543.17 for 3 inch imagery for their township + 500ft to cover this upgrade 100%

Southeast Michigan 2015 Orthoimagery Project
Hartland 3 inch Buy-Up Request and Total Cost

0.153042727

Southeast Michigan 2015 Orthoimagery Project Estimate
6 inch pixel resolution at \$115.46 / square mile

County	Square Feet	Square miles without buffer	Percent of Region	Square miles including half mile buffer
Livingston	16319110876.76	585.37	15.86%	625.79
Macomb	13484712506.04	483.70	13.10%	517.10
Monroe	15506631147.50	556.22	15.07%	594.64
St. Clair	20238019446.21	725.94	19.67%	776.07
Washtenaw	20138417460.52	722.37	19.57%	772.25
Wayne	17215150596.68	617.51	16.73%	660.15
Regional Total	102902042033.72	3691.10	100.00%	3946
43560				
27878450				
Total Project Cost		\$129,941.78		
USGS		\$0		
State of Michigan		\$38,986		
SEMCOG		\$45,000		
DWSD		\$45,000		
		\$955.30	6 inch upgrade	total county expense
Livingston	15.86%	\$151.50	\$51,646.56	\$51,798.06
Macomb	13.10%	\$125.19	\$42,676.29	\$42,801.47
Monroe	15.07%	\$143.96	\$49,075.24	\$49,219.19
St. Clair	19.67%	\$187.88	\$64,049.09	\$64,236.97
Washtenaw	19.57%	\$186.96	\$63,733.87	\$63,920.82
Wayne	16.73%	\$159.82	\$54,482.34	\$54,642.16
Regional total	100.00%	\$129,941.78	\$231,341	\$361,282.31

Cost is \$32.93 / sq mile for 1 foot resolution if flying > 5000 sq miles

70/30 split

Partners pay - \$23.05 / sq mile

State pays - \$9.88 / sq mile

Upgrade to 6 inch pixel resolution will cost an additional \$82.53 per square mile > 500 sq miles