

KYTC GIS: Available Resources and Emerging Directions

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Will Holmes
KYTC, OIT



Goal: \$1 Billion Program

- Overwhelming...
- High Stress...
- Not enough resources...

- How can we do it?

Special Forces!





Special Forces

- Very High Risks/Demands
- Understaffed...
- Limited Resources...
- High Stress...



Listen to Elders...



Respect Local Culture...



Help Heal...



Why Are Special Forces Successful?

What Leads to Success?

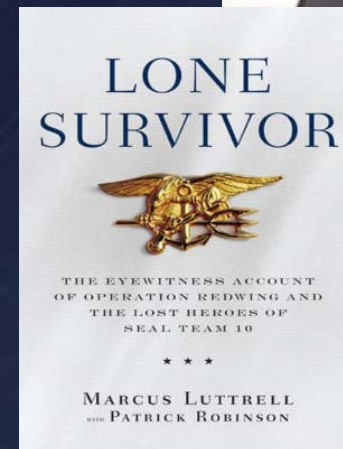
- Think outside of the box.
 - Use structure when it's useful... but...
- Embrace innovation.
- Practice, learn from mistakes, practice...

What Leads to Success...

- Multi-disciplinary teams
- Focus on and accomplish the immediate goals... *that build the future they want.*
- Future = Successful Mission

Special Forces...

- **Never, ever, ever quit!**
- **Examples**
 - Marcus Luttrell...
 - Hunt for Osama Bin Laden...



Something to Think About...



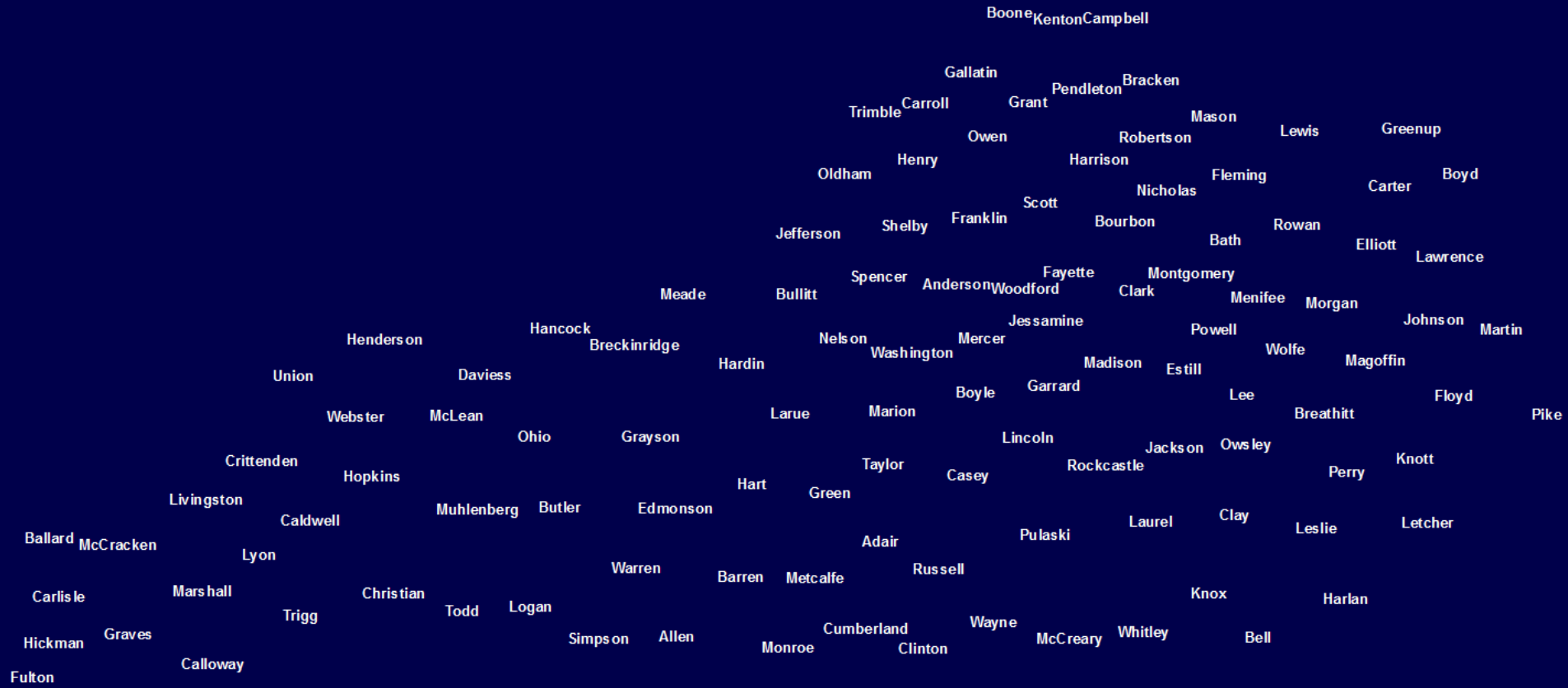
Kentucky



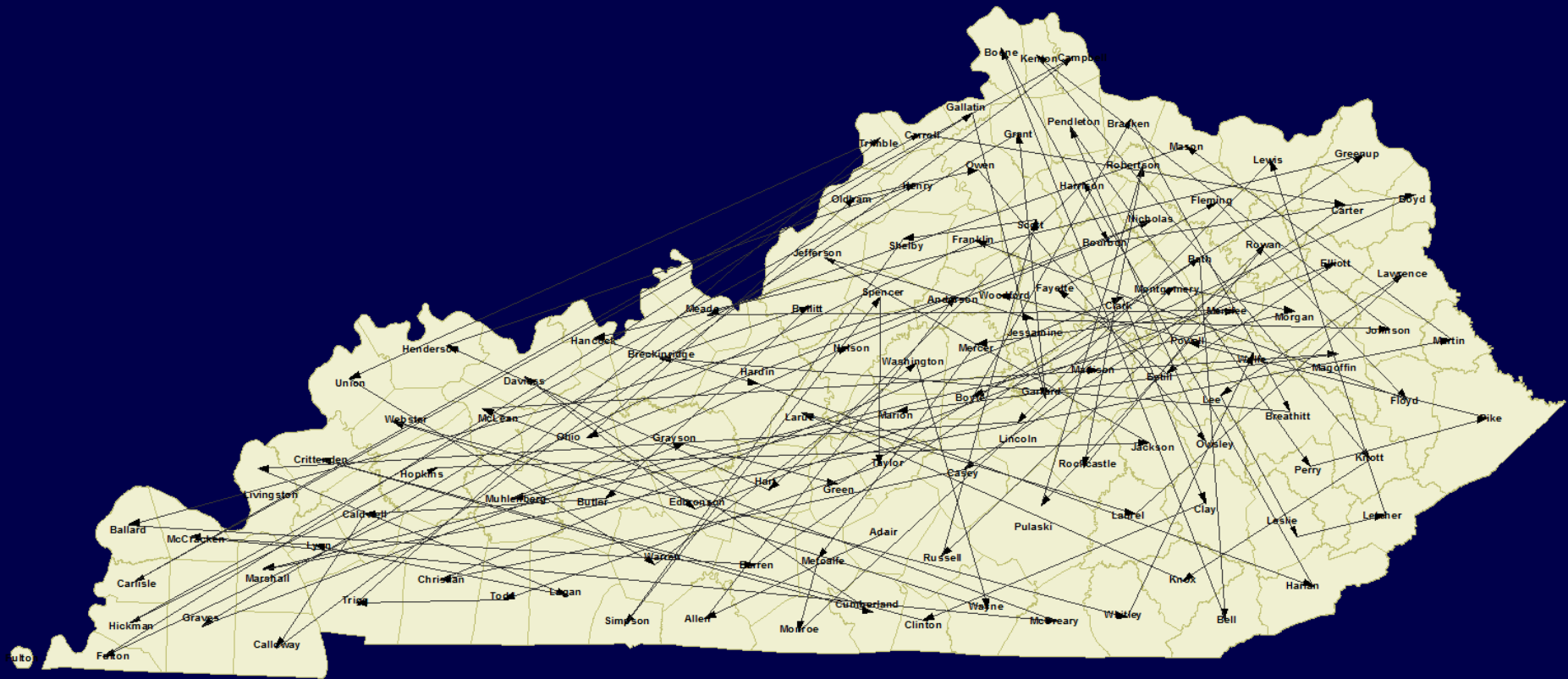
NAME	NAME2	SEAT	POP90	POP00	CH90_00	POP90S	POP00S	CHSQ90_0	CH00_10	MILES_S
ADAIR	Adair	Columbia	15360	17244	12.2656	37.246	41.845	12.2657	8.188355	412.39227
ALLEN	Allen	Scottsville	14628	17800	21.6844	51.5629	50.5756	21.6844	12.11236	351.94828
ANDERSON	Anderson	Lawrenceburg	14571	19111	31.1577	71.3456	93.5753	31.1577	12.08728	204.23110
BALLARD	Ballard	Wickliffe	7902	8286	4.8595	28.8709	30.2739	4.8595	-0.446536	273.70067
BARREN	Barren	Glasgow	34001	38033	11.8584	67.9968	76.0602	11.8584	10.885284	500.03791
BATH	Bath	Owingsville	9692	11085	14.3726	34.1319	39.0376	14.3727	4.564727	283.95651
BELL	Bell	Pineville	31506	30060	-4.5896	87.2286	83.2251	-4.5896	-4.554225	361.18882
BOONE	Boone	Burlington	57589	85991	49.3184	224.5114	335.2369	49.3184	38.166785	256.50808
BOURBON	Bourbon	Paris	19236	19360	0.6446	65.9807	66.4061	0.6447	3.228306	291.53938
BOYD	Boyd	Catlettsburg	51150	49752	-2.7331	315.7351	307.1056	-2.7331	-0.422094	162.00285
BOYLE	Boyle	Danville	25641	27697	8.0184	140.3968	151.6544	8.0184	2.653717	182.63227
BRACKEN	Bracken	Brooksville	7766	8279	6.6057	37.1675	39.6227	6.6057	2.524459	208.94563
BREATHITT	Breathitt	Jackson	15703	16100	2.5281	31.7109	32.5126	2.5281	-13.80124	495.19120
BRECKINRID	Breckinridge	Hardinsburg	16312	18648	14.3207	27.8596	31.8494	14.321	7.566495	585.50548
BULLITT	Bullitt	Shepherdsville	47567	61236	28.7363	158.4438	203.9747	28.7363	21.364883	300.21358
BUTLER	Butler	Morgantown	11245	13010	15.6958	26.0631	30.15	15.6961	-2.459646	431.45180
CALDWELL	Caldwell	Princeton	13232	13060	-1.2998	38.0076	37.5135	-1.3	-0.58193	348.1405
CALLOWAY	Calloway	Murray	30735	34177	11.1989	74.8151	83.1937	11.199	8.818796	410.81235
CAMPBELL	Campbell	Newport	83866	88616	5.6637	525.99	555.781	5.6637	1.940959	159.44409
CARLISLE	Carlisle	Bardwell	5238	5351	2.1573	26.3217	26.8895	2.1571	-4.61596	198.99894
CARROLL	Carroll	Carrollton	9292	10155	9.2875	67.669	73.9538	9.2875	6.459872	137.31543
CARTER	Carter	Grayson	24340	26889	10.4724	59.0678	65.2536	10.4723	3.090483	412.06863
CASEY	Casey	Liberty	14211	15447	8.6974	31.8852	34.6584	8.6974	3.288664	445.69263
CHRISTIAN	Christian	Hopkinsville	68941	72265	4.8215	95.2073	99.7977	4.8214	2.338615	724.11457
CLARK	Clark	Winchester	29496	33144	12.3677	115.6185	129.9179	12.3677	7.449312	255.11479
CLAY	Clay	Manchester	21746	24556	12.9219	46.1585	52.1231	12.9219	-11.50838	471.11546
CLINTON	Clinton	Albany	9135	9634	5.4625	44.4611	46.8898	5.4625	6.622379	205.46005
CRITTENDE	Crittenden	Maion	9196	9384	2.0443	24.7806	25.2872	2.0443	-0.735294	371.09623
CUMBERLA	Cumberland	Burksville	6784	7147	5.3508	21.8161	22.9834	5.3506	-4.071638	310.96263
DAVISS	Daviess	Owensboro	87189	91545	4.496	182.9855	192.1276	4.496	5.583047	476.48017
EDMONSON	Edmonson	Brownsville	10357	11644	12.4263	33.6288	37.8076	12.4262	4.440055	307.99755
ELLIOTT	Elliott	Sandy Hook	6455	6748	4.5391	27.4351	28.6805	4.5394	16.360403	235.28171
ESTILL	Estill	Irvine	14614	15307	7.472	57.1838	59.8955	7.472	-4.148429	255.56149
FAYETTE	Fayette	Lexington	22536	26051	15.595	789.4054	912.5138	15.595	13.546785	285.48828
FLEMING	Fleming	Flemingsburg	12292	13792	12.203	34.9919	39.2619	12.2028	4.031323	351.28127
FLOYD	Floyd	Prestonsburg	43586	42441	-2.6269	110.1653	107.2712	-2.627	-7.045074	395.64177
FRANKLIN	Franklin	Frankfort	43781	47687	8.9216	206.5337	224.96	8.9216	3.351018	219.91983
FULTON	Fulton	Hickman	8271	7752	-6.2749	35.853	33.6032	-6.275	-12.11300	230.6918
GALLATIN	Gallatin	Warsaw	5393	7870	45.9299	51.5003	75.1544	45.93	9.135959	104.71767
GARRARD	Garrard	Lancaster	11579	14792	27.7485	49.5036	63.2401	27.7484	14.332071	233.90207
GRANT	Grant	Williamstown	15737	22384	42.238	60.3645	85.8612	42.2379	10.176912	260.69957
GRAVES	Graves	Mayfield	33550	37028	10.3666	60.2434	66.4886	10.3666	0.251161	556.90718
GRAYSON	Grayson	Leitchfield	21050	24053	14.266	41.1974	47.0746	14.2659	7.038623	510.95414
GREEN	Green	Greensburg	10371	11518	11.0596	35.9147	39.8868	11.0598	-2.257336	288.76712
GREENUP	Greenup	Greenup	36742	36891	0.4055	103.6653	104.0857	0.4055	0.051053	354.42892
HANCOCK	Hancock	Hawesville	7864	8392	6.7141	39.5472	42.2025	6.7142	2.061487	198.85073
HARDIN	Hardin	Elizabethtown	89240	94174	5.5289	141.6453	149.4768	5.5289	12.072334	630.02399
HARLAN	Harlan	Harlan	36574	33202	-9.2196	78.1147	70.9127	-9.2197	-11.81856	468.20885
HARRISON	Harrison	Cynthiana	16248	17983	10.6782	52.4407	58.0405	10.6783	4.798977	309.83511
HART	Hart	Munfordville	14890	17445	17.1591	35.6378	41.753	17.1593	4.322155	417.81386
HENDERSO	Henderson	Henderson	43044	44829	4.1469	92.3322	96.1611	4.1468	3.169823	466.18615
HENRY	Henry	New Castle	12823	15060	17.4452	44.0522	51.7372	17.4452	2.363878	291.08634
HICKMAN	Hickman	Clinton	5566	5262	-5.4617	21.9909	20.7898	-5.4618	-6.841505	253.10428
HOPKINS	Hopkins	Madisonville	46126	46519	0.852	83.2019	83.9108	0.852	0.862013	554.38581
JACKSON	Jackson	Mcckee	11955	13495	12.8816	34.5052	38.95	12.8815	-0.00741	346.46944
JEFFERSON	Jefferson	Louisville	66493	69360	4.3112	1672.339	1744.438	4.3112	6.847135	397.60882
JESSAMINE	Jessamine	Nicholasville	30508	39041	27.9697	174.8331	223.7334	27.9697	24.448657	174.49783
JOHNSON	Johnson	Paintsville	23248	23445	0.8473	88.0327	88.7786	0.8472	-0.379612	264.08366
KENTON	Kenton	Covington	14203	15146	6.6415	861.0853	918.2744	6.6415	5.4508	164.94415
KNOTT	Knott	Hindman	17906	17649	-1.4352	50.7521	50.0237	-1.4352	-7.382855	352.81233

NAME	NAME2	SEAT	POP90	POP00	CH90_00	POP90S	POP00S	CHSQ90_0	CH00_10	MILES_S
KNOX	Knox	Barbourville	29676	31795	7.1404	76.5264	81.9908	7.1405	0.276773	387.78734
LARUE	Larue	Hodgenville	11679	13373	14.5046	44.5065	50.7354	14.5048	6.131758	263.58321
LAUREL	Laurel	London	43438	52715	21.3568	97.902	118.8108	21.3568	11.636157	443.68845
LAWRENCE	Lawrence	Louisa	13998	15569	11.223	33.3292	37.0697	11.2228	1.869099	419.99204
LEE	Lee	Beattyville	7422	7916	6.6558	35.1384	37.4772	6.6559	-0.366347	211.22133
LESLIE	Leslie	Hyden	13642	12401	-9.0969	33.734	30.6652	-9.097	-8.797678	404.39863
LETCHER	Letcher	Whitesburg	27000	25277	-6.3814	79.3394	74.5577	-6.3814	-2.998774	339.02580
LEWIS	Lewis	Vanceburg	13029	14092	8.1587	26.2034	28.4484	8.1589	-1.575362	495.35276
LINCOLN	Lincoln	Stanford	20045	23361	16.5427	59.5638	69.4174	16.5429	5.911562	336.52936
LIVINGSTON	Livingston	Smithland	9062	9804	8.188	26.4726	28.6401	8.1877	-2.906977	342.31615
LOGAN	Logan	Russellville	24416	26573	8.8343	43.8268	47.6986	8.8343	0.985963	557.10150
LYON	Lyon	Eddyville	6624	8080	21.9806	25.9209	31.4966	21.981	2.89604	256.53557
MADISON	Madison	Richmond	57508	70872	23.2385	129.7637	159.9188	23.2384	16.994017	443.17474
MAGOFFIN	Magoffin	Salyersville	13077	13332	1.9499	42.3061	43.1313	1.95	0.007501	309.10263
MARION	Marion	Lebanon	16499	18212	10.3824	47.5471	52.5135	10.3825	8.829343	346.80564
MARSHALL	Marshall	Benton	27205	30125	10.7333	79.9661	88.5491	10.7332	4.391701	340.20640
MARTIN	Martin	Inez	12526	12578	0.4151	54.3281	54.5536	0.415	2.790587	230.56206
MASON	Mason	Maysville	16666	16800	0.804	67.6853	68.1824	0.8041	4.107143	246.39777
MCCRACKE	McCracken	Paducah	62879	65514	4.1905	234.4807	244.3068	4.1905	0.077846	268.16271
MCCREARY	McCreary	Whitey City	15603	17080	9.4661	36.1989	39.6255	9.466	7.177986	431.03471
MCLEAN	McLean	Calhoun	9628	9938	3.2197	37.5803	38.7903	3.2197	-4.095391	256.19758
MEADE	Meade	Brandenburg	24170	26349	9.0153	74.4996	81.2159	9.0152	8.550609	324.43123
MENIFEE	Menifee	Frenchburg	5092	6556	28.7509	24.7314	31.8419	28.7508	-3.813301	205.89208
MERCER	Mercer	Harrodsburg	19148	20817	8.7163	75.6054	82.1955	8.7164	2.469136	253.26200
METCALFE	Metcalfe	Edmonton	8963	10037	11.9825	30.78	34.4682	11.9824	0.617714	291.19545
MONROE	Monroe	Tompkinsville	11401	11756	3.1137	34.3265	35.3954	3.1139	-6.745492	332.13310
MONTGOME	Montgomery	Mount Sterling	19561	22554	15.3008	98.3842	113.4378	15.3008	17.491354	198.82247
MORGAN	Morgan	West Liberty	11648	13948	19.7458	30.3568	36.3498	19.7458	-0.179237	383.71509
MUHLNBE	Muhlenberg	Greenville	31318	31839	1.6635	65.3318	66.4186	1.6635	-1.067873	479.36811
NELSON	Nelson	Bardstown	29710	37477	26.1427	70.0776	88.389	26.1427	15.903807	424.00071
NICHOLAS	Nicholas	Carlisle	6725	6813	1.3085	34.1111	34.6183	1.3087	4.726259	196.80316
OHIO	Ohio	Hartford	21105	22916	8.5809	35.402	38.4398	8.5808	4.040845	596.15143
OLDHAM	Oldham	LAGRANGE	33263	46178	38.8269	169.3522	235.1065	38.8269	30.616311	196.41309
OWEN	Owen	Owenton	9035	10547	16.7349	25.5065	29.775	16.7349	2.787523	354.22238
OWSLEY	Owsley	Booneville	5036	4858	-3.5345	25.4004	24.5026	-3.5345	-2.120214	198.26459
PENDLETON	Pendleton	Falmouth	12036	14390	19.5579	42.7697	51.1346	19.558	3.384295	281.41399
PERRY	Perry	Hazard	30283	29390	-2.9488	88.3952	85.7886	-2.9488	-2.369907	342.58620
PIKE	Pike	Pikeville	72583	68736	-5.3001	92.045	87.1665	-5.3001	-5.400372	788.55954
POWELL	Powell	Stanton	11686	13237	13.2722	64.8917	73.5043	13.2722	-4.714059	180.08452
PULASKI	Pulaski	Somerset	49489	56217	13.5949	73.0848	83.0206	13.5948	12.177811	677.14481
ROBERTSO	Robertson	Mount Olivet	2124	2266	6.6854	21.22	22.6387	6.6856	0.70609	100.09404
ROCKCASTL	Rockcastle	Mount Vernon	14803	16582	12.0178	46.5414	52.1347	12.0179	2.858521	

Counties Plotted

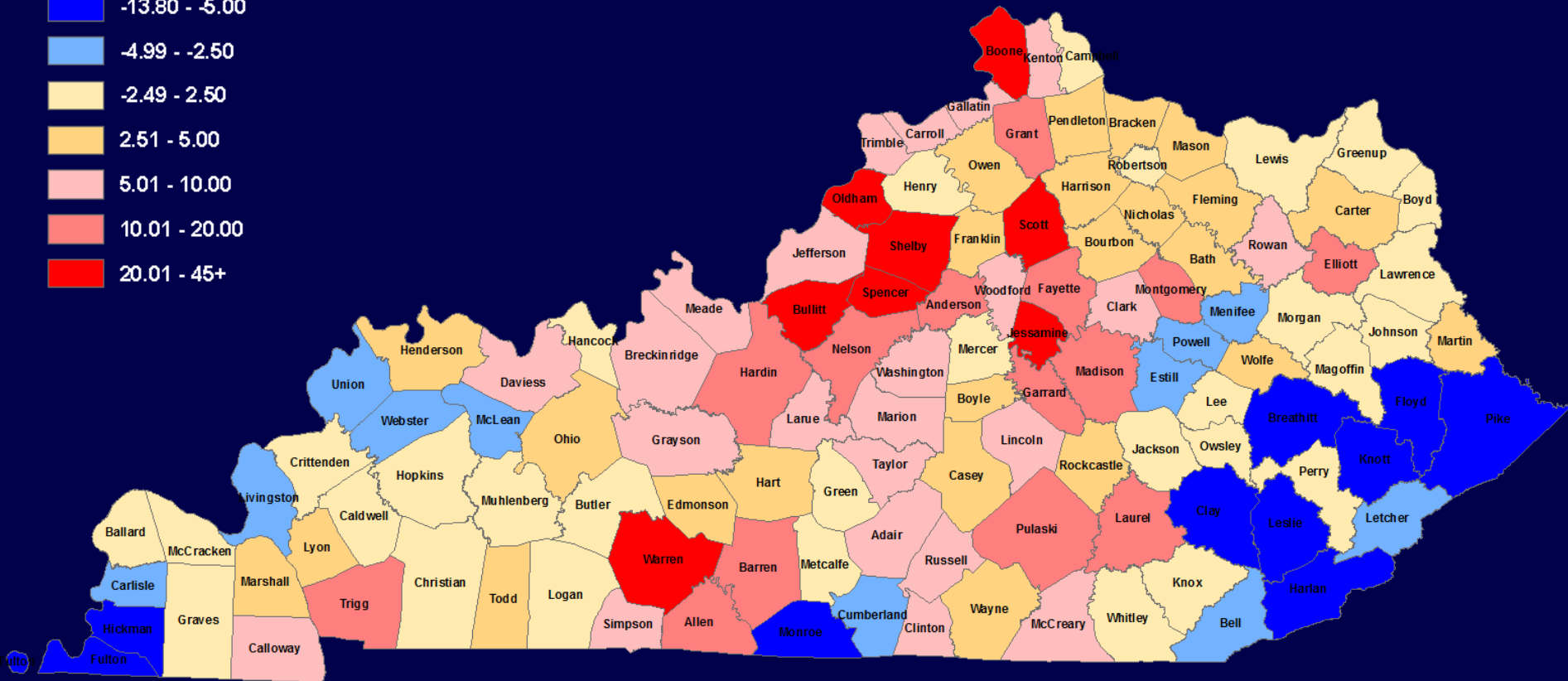
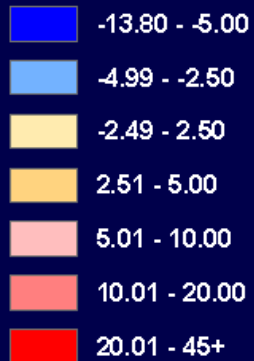


Counties Linked in Alphabetical Order

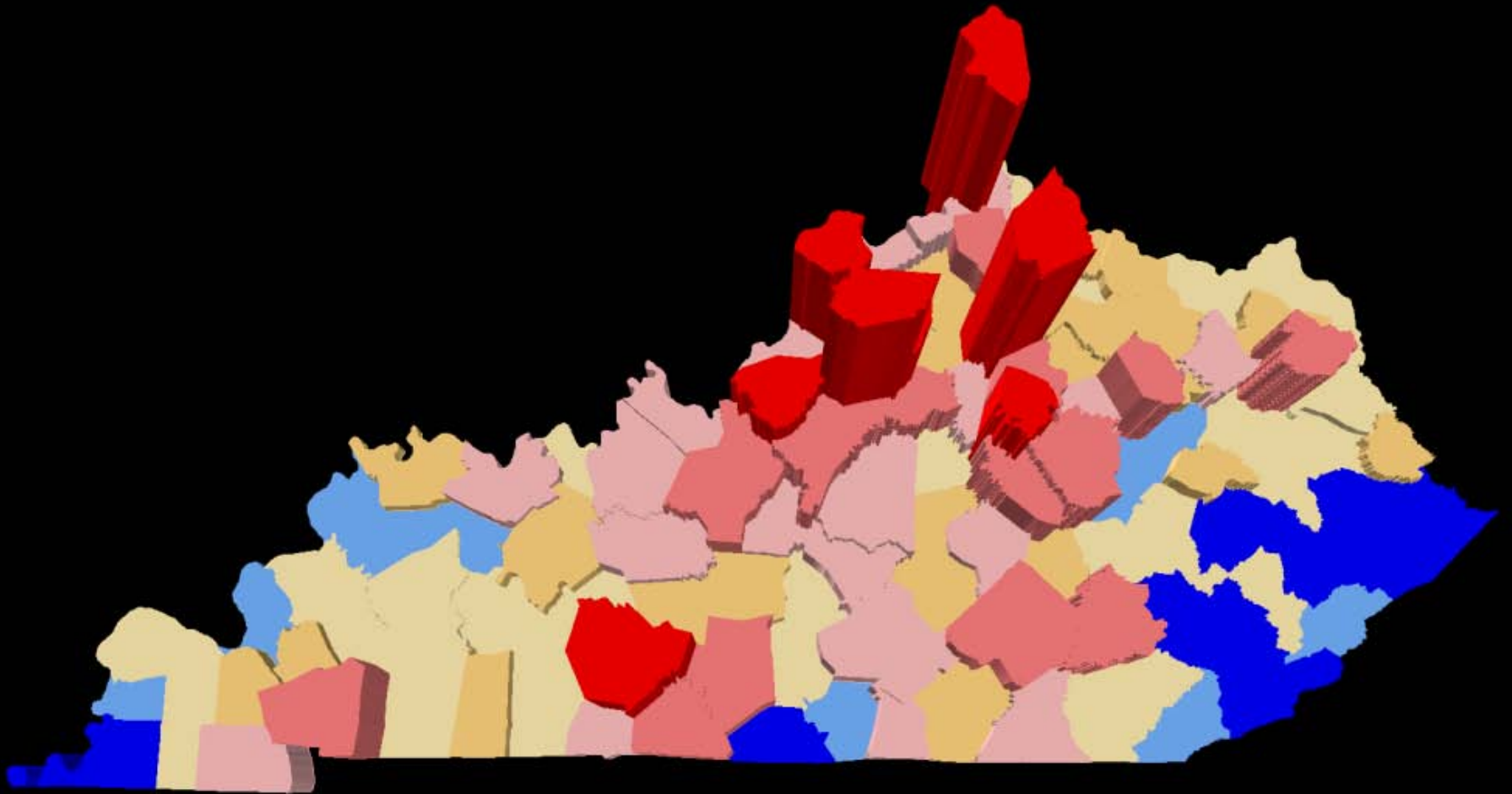


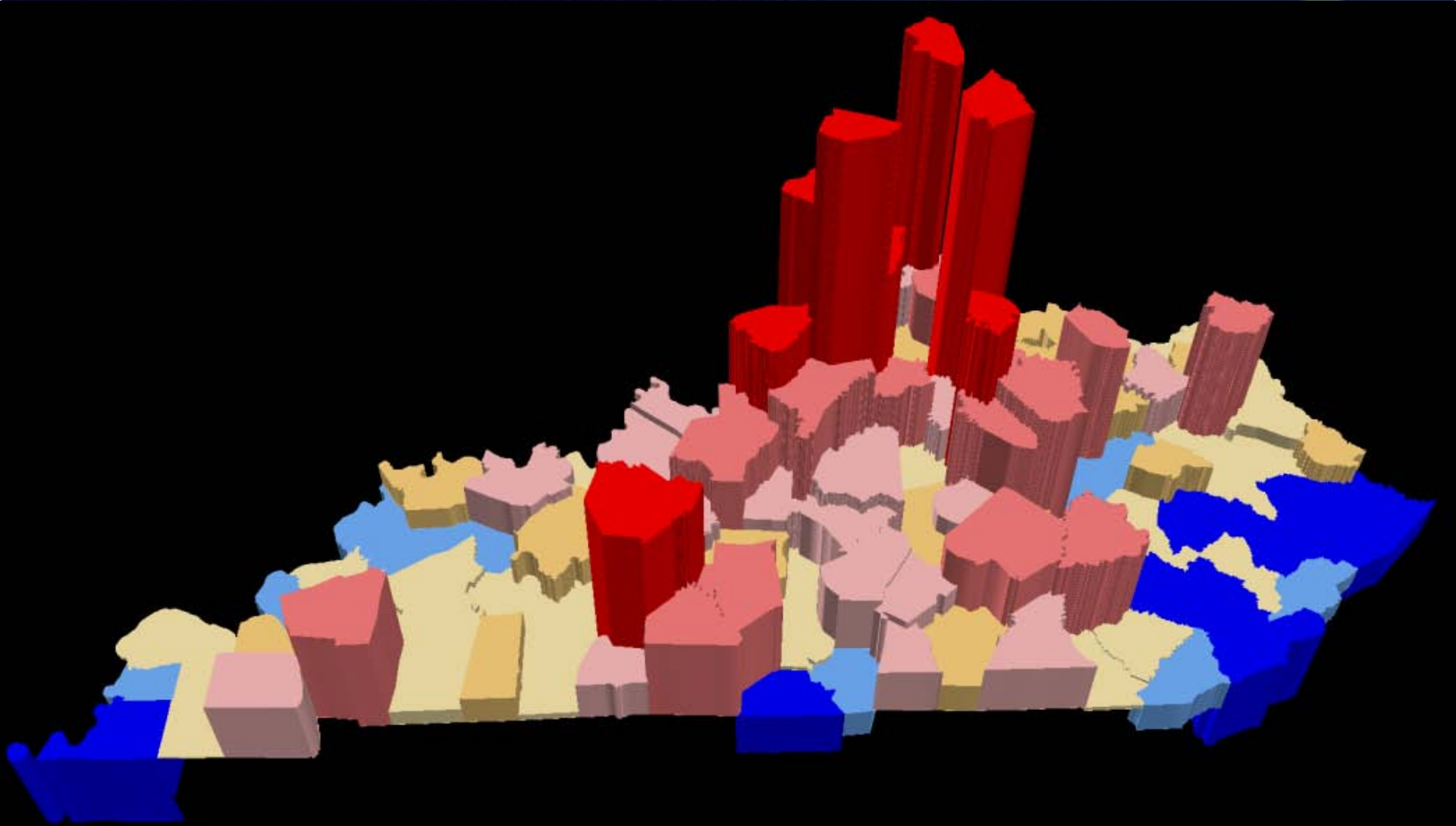
Population Change (2000 – 2010)

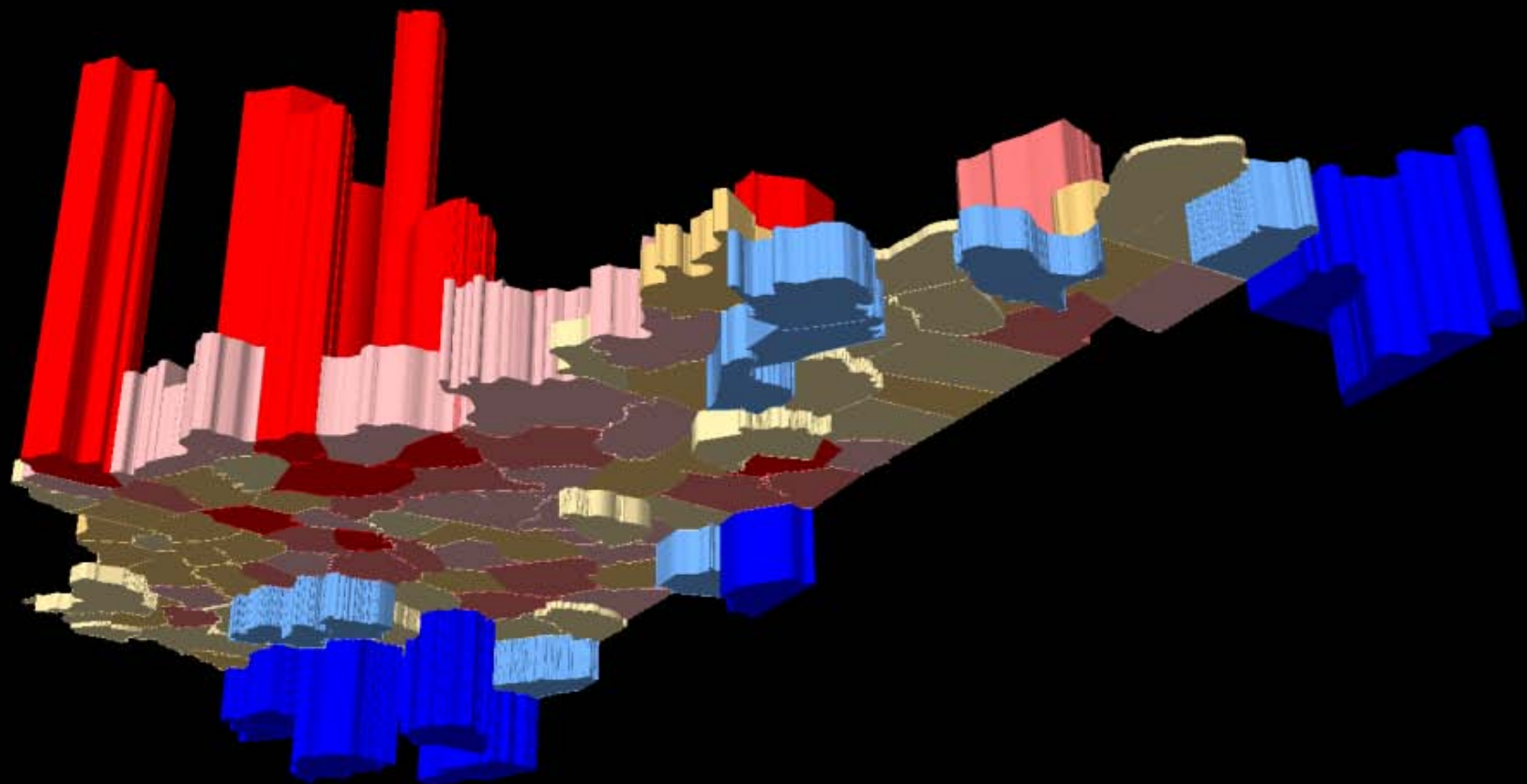
Population Change (2000-2010)



2000-2010 In 3D







Accomplish The Mission



Every “D” Counts

- Innovation...
- Partnering...
- Faster...
- Better...
- People...

Service!

What's New In GIS...



2012 ESRI Special Achievement in GIS (SAG) Award

- Maintenance's Mobile GIS Integration for OAD (Billboards).
- <1% of Customer's Awarded
- 2nd Time KYTC has been part of SAG Award.

New Team Members...



Scott
Dickison

Teri
Dowdy

Ahjung
Kim

Andrew
McKinney

Jeremy
Gould

Will
Holmes



Internal Resources



GIS Help Desk

- KYTC.GIS.Support@KY.Gov
- Open 7:30 AM - 4:30PM, M-F
- 4 Staff
 - Andrew McKinney
 - Jeremy Gould
 - Teri Dowdy
 - Ahjung Kim

“Evolving” Internal GIS Support Site

GIS Support Services - Home - Windows Internet Explorer
https://intranet.kytc.ky.gov/work/gis/SitePages/Home.aspx

File Edit View Favorites Tools Help

Site Actions Browse Page Holmes, Will (KYTC)

GIS Support Services Home

Search this site...

Lists

- Calendar of Events
- GIS Support Services Staff
- 2012 KYTC Training Registration
- Tasks
- Attendance

Libraries

- GIS Training
- GIS Mobile
- Project Charters
- Documentation

Site Pages

- GIS Development
- GIS Support Documents
- GIS Team - Internal

Surveys

- Post Class Survey

Discussions

- Team Discussion
- How can we improve?
- Suggest a GIS Class Topic

Recycle Bin
All Site Content

Welcome to the GIS Support Services Help Desk

The GIS Help Desk is available to all KYTC GIS Users. This page is to help you submit project and service requests. Help links are on the right side of the page under the Helpful Links for GIS Users.

GIS Support Email

kytc.gis.support@ky.gov

Telephone Support Schedule

Monday - Friday
8:00 am - 12:00 pm
1:00 - 4:30 pm

GIS Support Contacts

Andrew McKinney
andrew.mckinney@ky.gov
(502) 564-9900 ext.3484

Help Desk Objective

We work in partnership with you our customers to understand your business needs and how together we can apply spatial technologies to streamline work processes, improve understanding and make better decisions. We also evaluate new and emerging spatially-enabled technologies to better support information sharing.

What is GIS?

A geographic information system (GIS) lets us visualize, question, analyze, interpret, and understand data in many ways that reveal relationships, patterns, and trends in the form of maps, globes, reports, and charts (ESRI, 2012). You can learn more about what GIS is by clicking the following link [More about GIS...](#)

GIS Support Services Staff

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Scott Dickison	Scott.Dickison@ky.gov	502-564-9900 ext. 3482
Teri Dowdy	Teri.Dowdy@ky.gov	502-564-9900 ext. 3485
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Ahjung Kim	Ahjung.Kim@ky.gov	502-564-9900 ext. 3483
Andrew McKinney	Andrew.McKinney@ky.gov	502-564-9900 ext. 3484

+ Add new item

Helpful Links for GIS Users

- GIS Team Development Site
- ArcGIS Resource Center
- ESRI Web Based Help
- ESRI Technical Articles
- ESRI White Papers
- ESRI Product Documentation
- GIS Dictionary
- Login Access to the use ArcGIS Desktop as a remote application.
- Sign Up for GIS Training!
- KYTC Trans-GIS Conf. Agenda
- Conference Registration

+ Add new link

Local intranet | Protected Mode: Off 100%



Internal GIS Site Features

- Training
 - Registration
 - Post-class Surveys
- Training Materials
 - PowerPoints/Documents
 - *“How to” Videos (Coming)*
- GIS Events Calendar
- Links

Desktop GIS Resources

- 450+ Layers of Data
- ArcMap – Available to anyone that needs it.
- State Hwy Eng.'s (SHE) GIS Template
- District Web-based Templates...
 - We are building them out.

CADD Into GIS

US421.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:3,307 100%

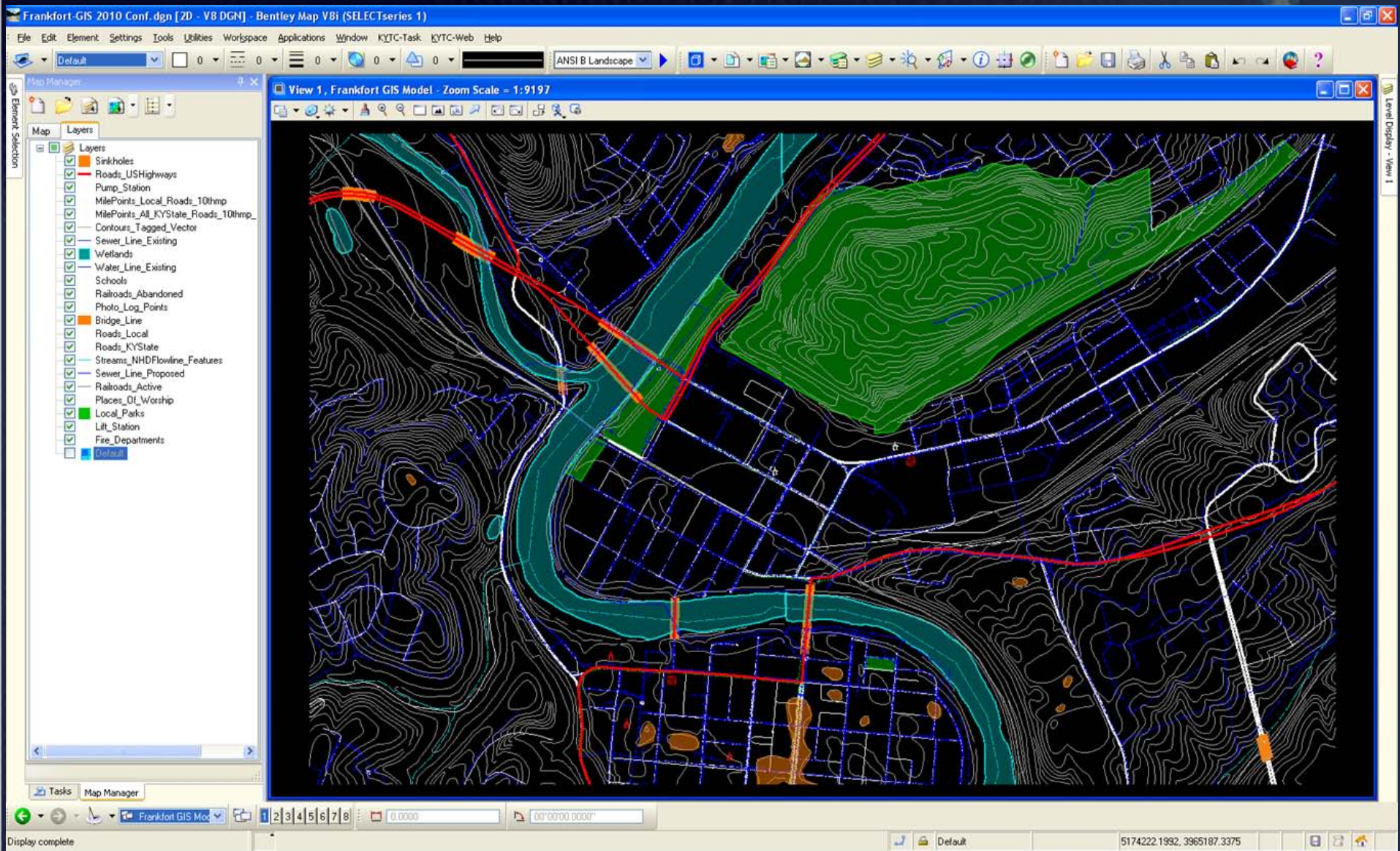
CarryMap

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 - R02200PL.dgn Polyline
 - R02200PL.dgn Polygon
 - R02200PL.dgn MultiPatch
 - R02000PL.dgn Group Layer
 - R02000PL.dgn Annotation
 - R02000PL.dgn Point
 - R02000PL.dgn Polyline
 - R02000PL.dgn Polygon
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 - R01800PL.dgn Annotation
 - R01800PL.dgn Point
 - R01800PL.dgn Polyline
 - R01800PL.dgn Polygon
 - R01800PL.dgn MultiPatch
 - ImageServices\Ky_NAIP_2010_1M
RGB
 - Red: Band_1
 - Green: Band_2
 - Blue: Band_3



GIS Data Into CADD...



GIS Data Into CADD...

Frankfort-GIS 2010 Conf.dgn [2D - V8 DGN] - Bentley Map V8i (SELECTseries 1)

File Edit Element Settings Tools Utilities Workspace Applications Window KYTC-Task KYTC-Web Help

Map Manager

View 1, Frankfort GIS Model - Zoom Scale = 1:2282

Layers

- Sinkholes
- Roads_USHighways
- Pump_Station
- MilePoints_Local_Roads_10thmp
- MilePoints_All_KYState_Roads_10thmp
- Contours_Tagged_Vector
- Sewer_Line_Existing
- Wetlands
- Water_Line_Existing
- Schools
- Railroads_Abandoned
- Photo_Log_Points
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- Streams_NHDFlowline_Features
- Sewer_Line_Proposed
- Railroads_Active
- Places_Of_Worship
- Local_Parks
- Lit_Station
- Fire_Departments
- Default

http://roadview-images.kytc.ky.gov/Mandli_Data/11-02-2009/037-KY-420N/037-K...

Analyze Result

OFFSET	0.024
ROUTE_NEID	2677
LANE	1
DIR	N
COLL_DATE	11-02-2009
FRAME	949
SUBSTITUTE_ROUTE	037-KY-0420 -000
SESSION_NAME	037-KY-420N
FRONT_URL	http://roadview-images.kytc.ky.gov/Mandli_Data/11-02-2009/037-KY-420N/037-KY-420N/FRONT/Dir_009\F_00949.jpg
RIGHT_URL	http://roadview-images.kytc.ky.gov/Mandli_Data/11-02-2009/037-KY-420N/037-KY-420N/RIGHT/Dir_009\F_00949.jpg
LEFT_URL	http://roadview-images.kytc.ky.gov/Mandli_Data/11-02-2009/037-KY-420N/037-KY-420N/LEFT/Dir_009\F_00949.jpg
ALTERNATE_ROUTE	
ALTERNATE_MP	
EXTRACT_DATE	634149913420000000
CNTYCDE	037
CNTYNAME	Franklin
RT_PREFIX	KY
RT_NBR	0420
RT_SFXX	
RT_SECTION	000
SEG_ID	8867
REC_ID_FWD	975081
REC_ID_RVS	975079

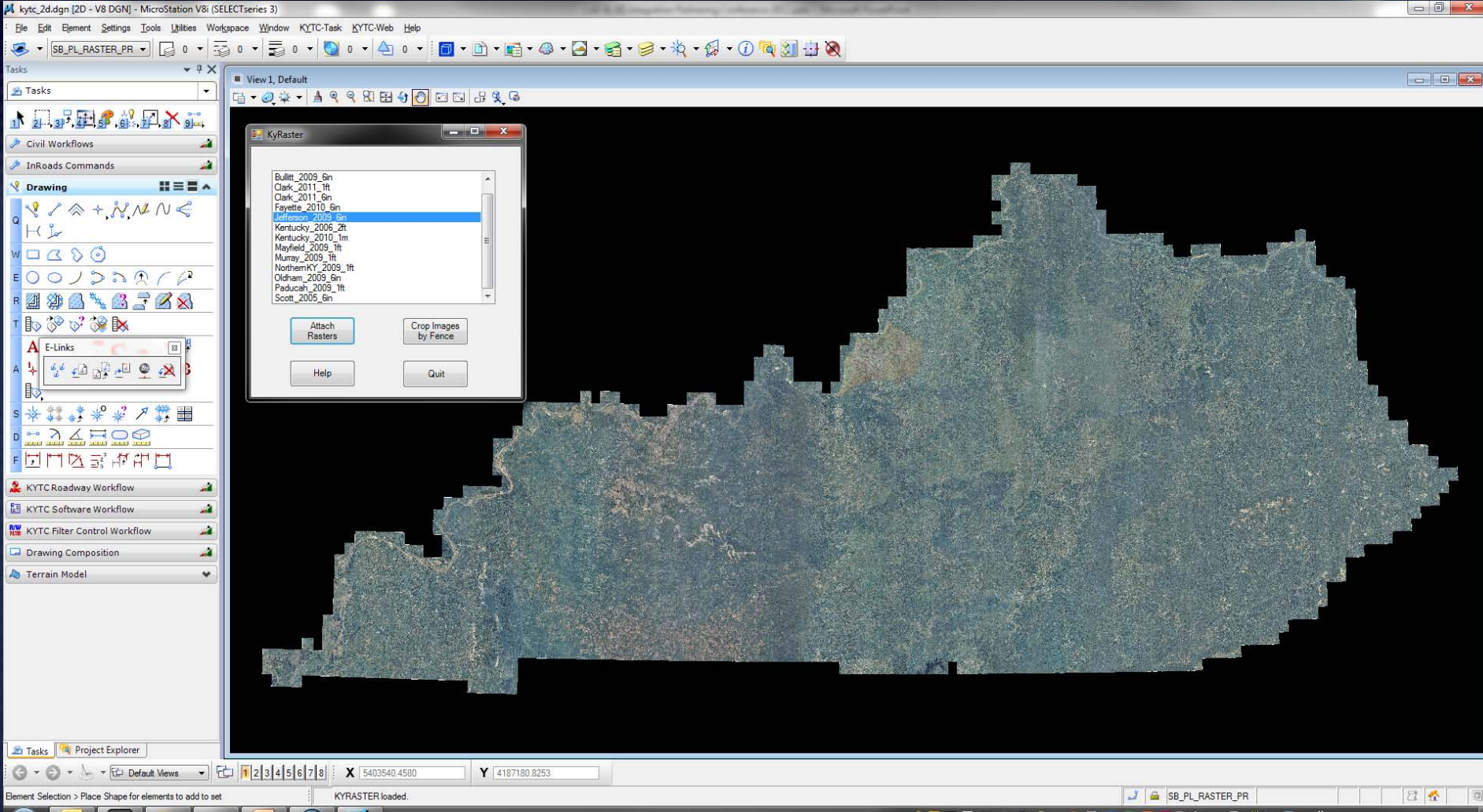
Done Internet 100%

Analyze Feature > Identify element

Photo_Log_Points - Cell: Cell Feature \ Circle, Level GIS_PL_PhotoLog_EX, Ref: 1 (Frankfort-GIS 2010 Conf.dgn)->GISFeatures (Frankfort-GIS 2010 Cor

5172832.4276, 3961570.3199


Streaming Imagery Into MicroStation



OIT Program Integration

Kentucky Encroachment Permit Tracking

Maintenance Division



Home Permits Search+ User Guide
Welcome Scott Dickison!

QUICK SEARCH

Search Criteria: Permit / Tracking # Search Value:


Map View
Data View

Legend

- Air Rights
- Entrance
- Utilities
- Recyclers
- Outdoor Advertising Device
- Other
- BaseMap
- AerialPhoto

Filters

Map Search




Air Rights
Entrance
Utilities
Recyclers
O.A.D.
Other

Inspector Name	Inspection Date	Permit Prefix	District	Permit Year	Tracking/Permit Number	Permit Type	Permit Sub Type	Curre
Chris Lambert	6/28/2012		5			Air Rights	By Permit	
Chris Lambert	6/28/2012		5			Air Rights	By Permit	
Chris Lambert	6/28/2012		5			Air Rights	By Permit	
Chris Lambert	6/28/2012		5			Air Rights	By Permit	

Record: << < 0 > >> Records (0 out of 8 Selected) Commit

v1.1.4532.15380



Kentucky Encroachment Permit Tracking

Maintenance Division



[Home](#) [Permits](#) [Search+](#) [User Guide](#)

Welcome Scott Dickison!

QUICK SEARCH

Search Criteria:

Search Value:

[Map View](#)

[Data View](#)

Legend

- Air Rights
- Entrance
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- Other
- BaseMap
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Filters

Map Search



[Air Rights](#) [Entrance](#) [Utilities](#) [Recyclers](#) [O.A.D.](#) [Other](#)

Inspector Name	Inspection Date	Permit Prefix	District	Permit Year	Tracking/Permit Number	Permit Type	Permit Sub Type	Curre
Chris Lambert	07/20/2012		5			Air Rights	By Permit	
Chris Lambert	6/28/2012		5			Air Rights	By Permit	
Chris Lambert	6/28/2012		5			Air Rights	By Permit	
Chris Lambert	6/28/2012		5			Air Rights	By Permit	

Record: << < 6 > >> Records (1 out of 8 Selected) Commit



Training

- Monthly Training Classes
- District Training
 - Web based GIS resources
 - Desktop (ArcMap) resources
 - **Goal** – Visit all 12 Districts in next 12 months.

Public Resources



Interactive Mapping Sites



- CITIZENS
- BUSINESS
- PROGRAMS & SERVICES
- NEWS & EVENTS
- MAPS
- CONTACT
- ABOUT US

Search this site...

Home > Maps

Maps

Copyright information can be found [here](#).

Mobile Maps

This document will walk you through how to add our KYTC Maps to your mobile device. The walk-through was written for iOS but the steps for Android and Windows Phone 7 are similar.

[Mobile Maps - How To.pdf](#)



Interactive Maps

Allows users to zoom in or zoom out (respectively meaning to increase or decrease the scale), turn on and off data layers (including both road data and aerial photography), view tabular data, share a link to the map, as well as print.



Active Highway Plan
Displays current Highway Plan.



Local Roads (Previously County Rural Aid)
Displays locally owned road information for road aid maintenance funding.



Emergency Funding Routes (FEMA\FHWA\ER)
Not for billboard regulation or non FEMA\FHWA\ER funding purposes.



Project Plan Archive (1909-Present)
Archive of scanned KYTC project plans from 1909 to the present.



Right-of-Way Monument Map
Displays the location of Kentucky Transportation Cabinet's Right-of-Way monuments.



KYTC Traffic Counts
Display traffic count locations, most recent AADTs and functionally classified roads.



Bike Routes
Official Kentucky bike routes.



Environmental Overview
Used to ensure environmental compliance in road maintenance & construction.



General Highway Map of Kentucky
Kentucky's road network.



Roadway Photo Viewer
Zoomable, searchable, drivable photo log of the Kentucky road system.



Rural & Secondary Roads
Displays where rural & secondary road aid money has been applied.



Quality Assurance Lessons Learned
Displays KYTC projects that have received a Post Construction Review or Value Engineering Change Proposal.

Contact Info

Kentucky Transportation Cabinet
200 Mero Street
Frankfort, KY 40622
Phone: (502) 564-4890
[Map it](#)

Available Maps

- Active Highway Plan
- Active Highway Plan Maps (SYP)
- Appalachian Development Highway System
- Bike Routes
- Coal Haul
- Emergency Funding Routes (FEMA\FHWA\ER)
- Environmental Overview
- Ferries
- FHWA Urbanized Areas
- Functional Classification Maps
- General County Maps (SPRS)
- General Highway Map of Kentucky
- Historic Maps
- KY CORS and Geodetic Control
- KYTC Traffic Counts
- Local Roads (Previously County Rural Aid)
- National Highway System (NHS)
- National Truck Network (NTN)
- Official Highway Map
- Project Plan Archive (1909-Present)
- Public Riverports
- Quality Assurance Lessons Learned
- Right-of-Way Monument Map
- Roadway Photo Viewer
- Rural & Secondary Roads
- Snow & Ice Priority Maps
- Statewide Boundaries
- Traffic Counts & Count Stations
- Truck Weight Classification



Interactive Mapping Sites

- [HTTP://Transportation.KY.Gov/Maps](http://Transportation.KY.Gov/Maps)
- Wide variety of interactive mapping.
- Powerful search functions
- Focused

Data

- Planning

- KYGeoNet

— <http://kygeonet.ky.gov/>

The screenshot shows the Kentucky Transportation Cabinet website. At the top, there is a navigation bar with links for CITIZENS, BUSINESS, PROGRAMS & SERVICES, NEWS & EVENTS, MAPS, CONTACT, and ABOUT US. A search bar is located on the right side of the page. The main content area is titled "Planning Highway Information (HIS)" and includes a "Contents" section with a grid of links: Traffic Counts, Roadway Assets, Highway Performance monitoring System (HPMS) Reports, National Highway System (NHS), Truck Data, Maps and Listings, State Primary Road System (SPRS) Data, Maps and Listings, Route Log - HIS Official and Extended, State Functional Classification (FC) Data, Maps and Listings, Coal Haul Highway System, Appalachian Development Highway System, Geospatial Data, and List of Prefixes on State-Maintained Roads. Below the contents are sections for "Roadway Assets", "Highway Performance Monitoring System (HPMS) Reports", "National Highway System (NHS)", "Truck data, maps and listings", "State Primary Road System (SPRS) data, maps and listings", and "State Functional Classification (FC) data, maps and listings". A "Contact Info" sidebar on the right provides contact details for the Division of Planning, including address, phone, fax, and email. A "Navigation" sidebar lists various site features like Planning Home, Multimodal Freight Transportation, and Traffic Counts.

KENTUCKY
TRANSPORTATION CABINET

FEEDBACK TRANSLATE A A HELP

CITIZENS BUSINESS PROGRAMS & SERVICES NEWS & EVENTS MAPS CONTACT ABOUT US

Search this site...

Home > Planning

Planning Highway Information (HIS)

Highway Information System

Contents

- T C Traffic Counts
- R A Roadway Assets
- H P M S Highway Performance monitoring System (HPMS) Reports
- N H S National Highway System (NHS)
- T D Truck Data, Maps and Listings
- S P R S State Primary Road System (SPRS) Data, Maps and Listings
- M R L Route Log - HIS Official and Extended
- S F C State Functional Classification (FC) Data, Maps and Listings
- C H Coal Haul Highway System
- A D H S Appalachian Development Highway System
- G D Geospatial Data
- L P List of Prefixes on State-Maintained Roads

Roadway Assets

- Roadway Asset Shapefiles
ESRI shapefiles extracted from KYTC HIS
- Asset Queries (**NEW**)
- HIS Web Query (**Phasing Out**)
- General Highway information Interactive Map
- Lane Mileage Report by District

Highway Performance Monitoring System (HPMS) Reports

- System Length and Daily Vehicle Travel
(Totals of Urbanized Areas, Small Urban Areas, Rural Areas, and Statewide)
- National Highway System - NHS
(Statewide Summary - Universe Data)
- Governmental Ownership Length
(Statewide Summary - Universe Data)
- Daily Truck Travel
(Statewide Summary - Sample Data)
- Mileage and Daily Vehicle Miles Traveled (DVMT)
(by County and Functional Class)

National Highway System (NHS)

- NHS Listing
- NHS Maps

Truck data, maps and listings

- National Truck Network (NTN) by route number (STAA Trucks)
- National Truck Network
- Weight Limits on State Maintained Highways Report
- Truck Weight Classification

State Primary Road System (SPRS) data, maps and listings

- SPRS Route Listings, Maps, and System Descriptions
- State-maintained routes listed by roadway system for each county
- SPRS Statewide Mileage Report
Summarizes state-maintained route mileage by roadway system for each county and highway district; the report is updated quarterly (January, April, July and October). If you need a more current listing, please contact us .

State Functional Classification (FC) data, maps and listings

- FC Route Reports
- Functionally classified routes listed by classification for each county, highway district, and police post
- FC Maps and Classification Descriptions

Contact Info

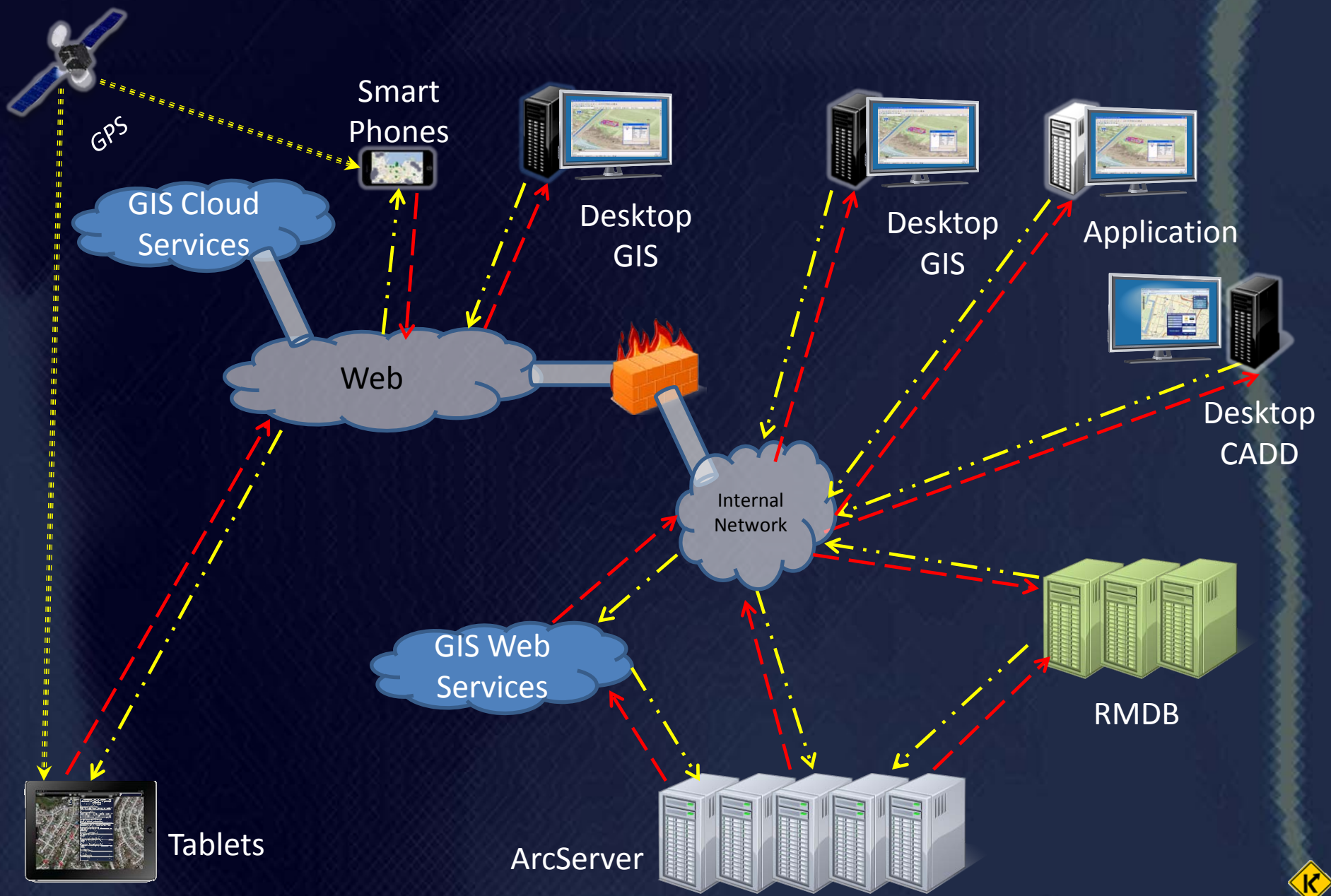
Division of Planning
200 Mero Street
Frankfort, KY 40622
Phone: (502)564-7183
Fax: (502)564-2865
Email: Josh Wentz or other points of contact.

Navigation

- Planning Home
- Multimodal Freight Transportation
- Bicycle and Pedestrian Program
- Air Quality
- Traffic Counts
- Congestion Management
- Traffic Forecasting and Modeling
- Planning Studies & Reports
- Planning Highway Information (HIS)
- Transportation Planning
- Planning Work Program
- Maps
- Planning Resources
- Map Requests

Emerging Directions

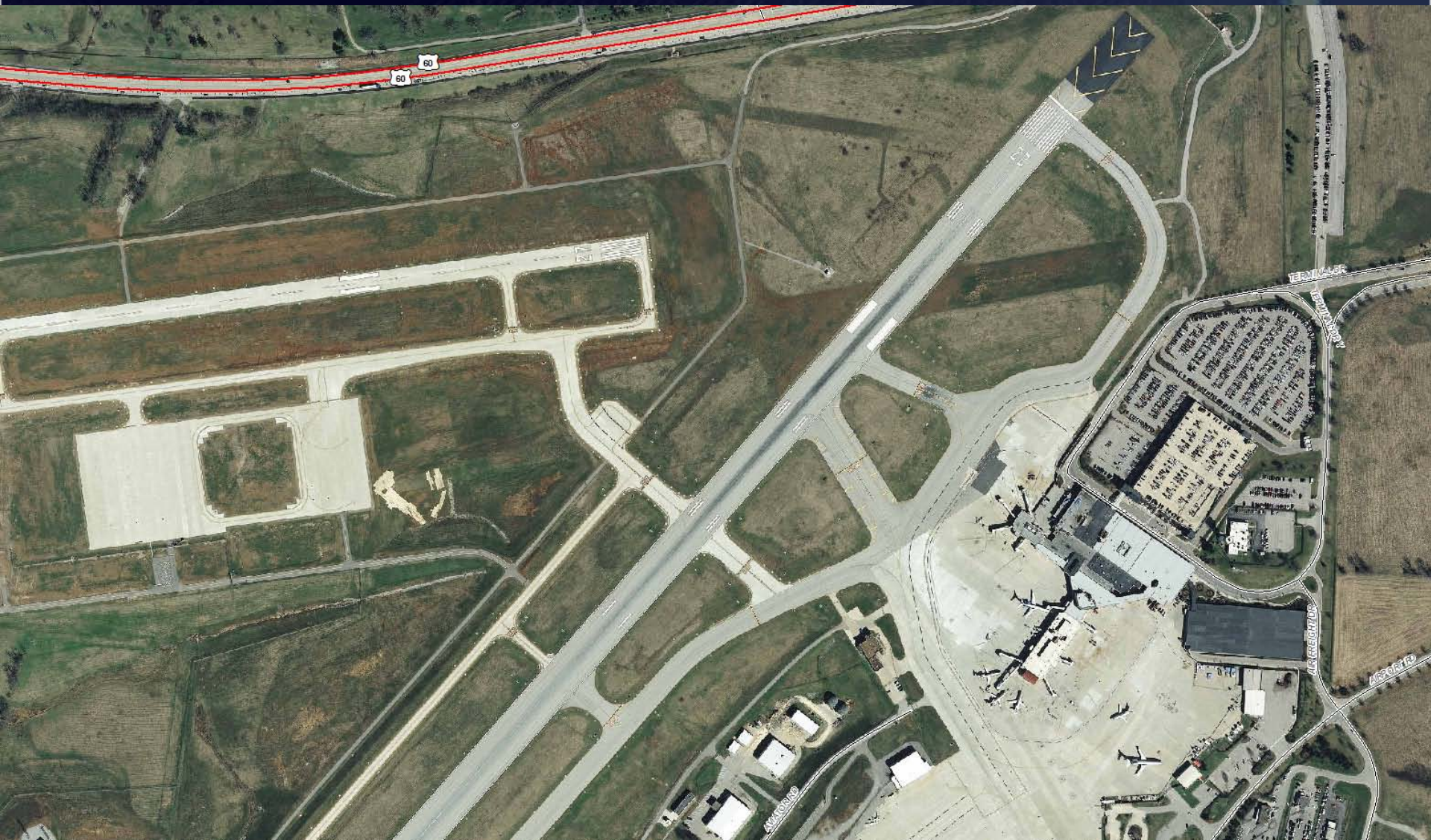
- GIS is rapidly evolving
 - No longer isolated stovepipes
 - Desktop
 - Server/Web
 - Mobile
- Blending all into a spatial data “ecosystem.”
- “This ain’t your grandfather’s Cadillac....”

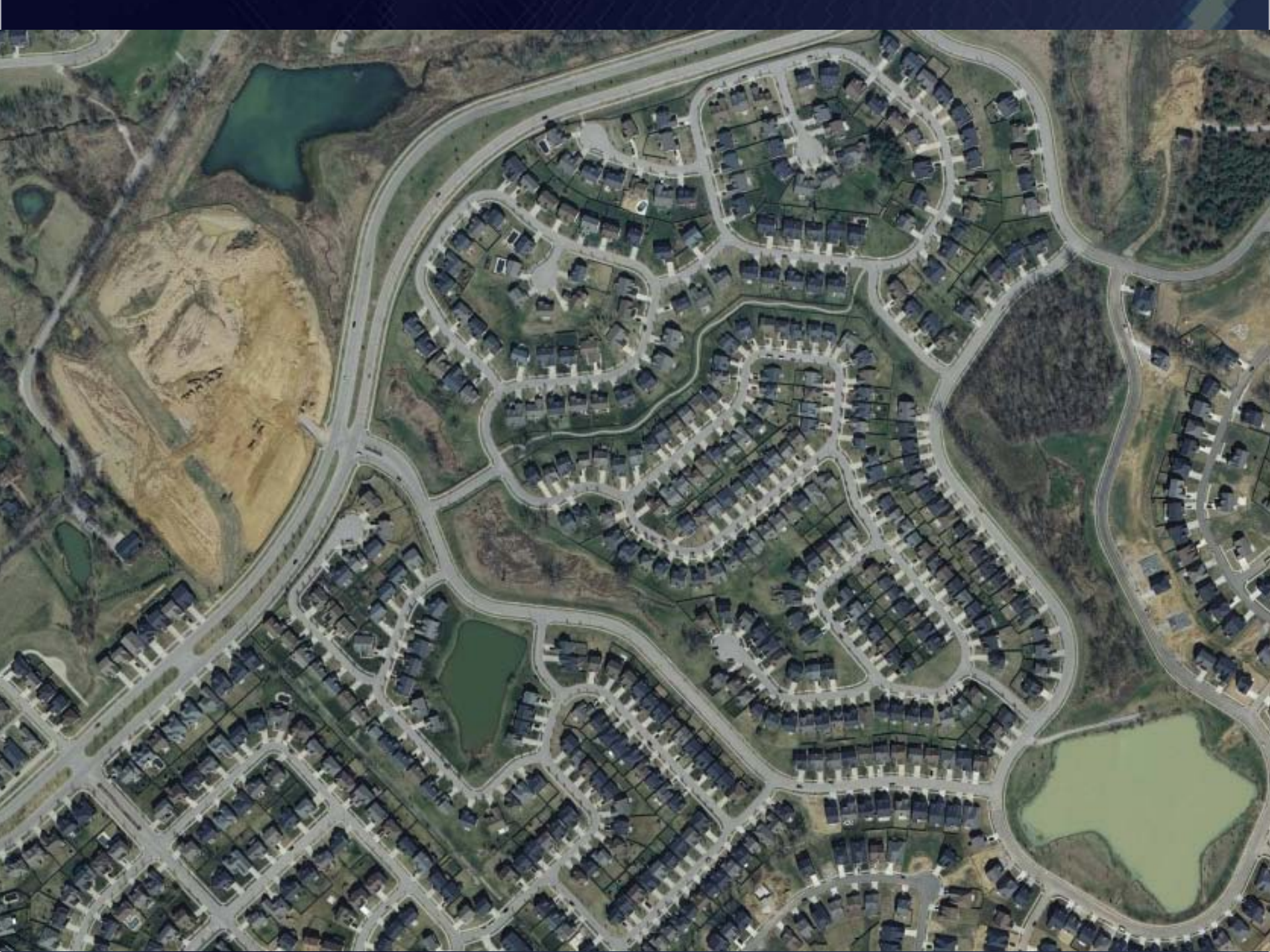


New Foundation Data

- Aerial Photography
- Elevation Data (LiDAR)

New 2012 Leaf Off Imagery







Photography Status


- Starting QA/QC Process...
- Data Access ...
 - Web Services
 - Download
- Availability...
 - Early 2013

Existing Lidar Availability





2012 LiDAR Collection

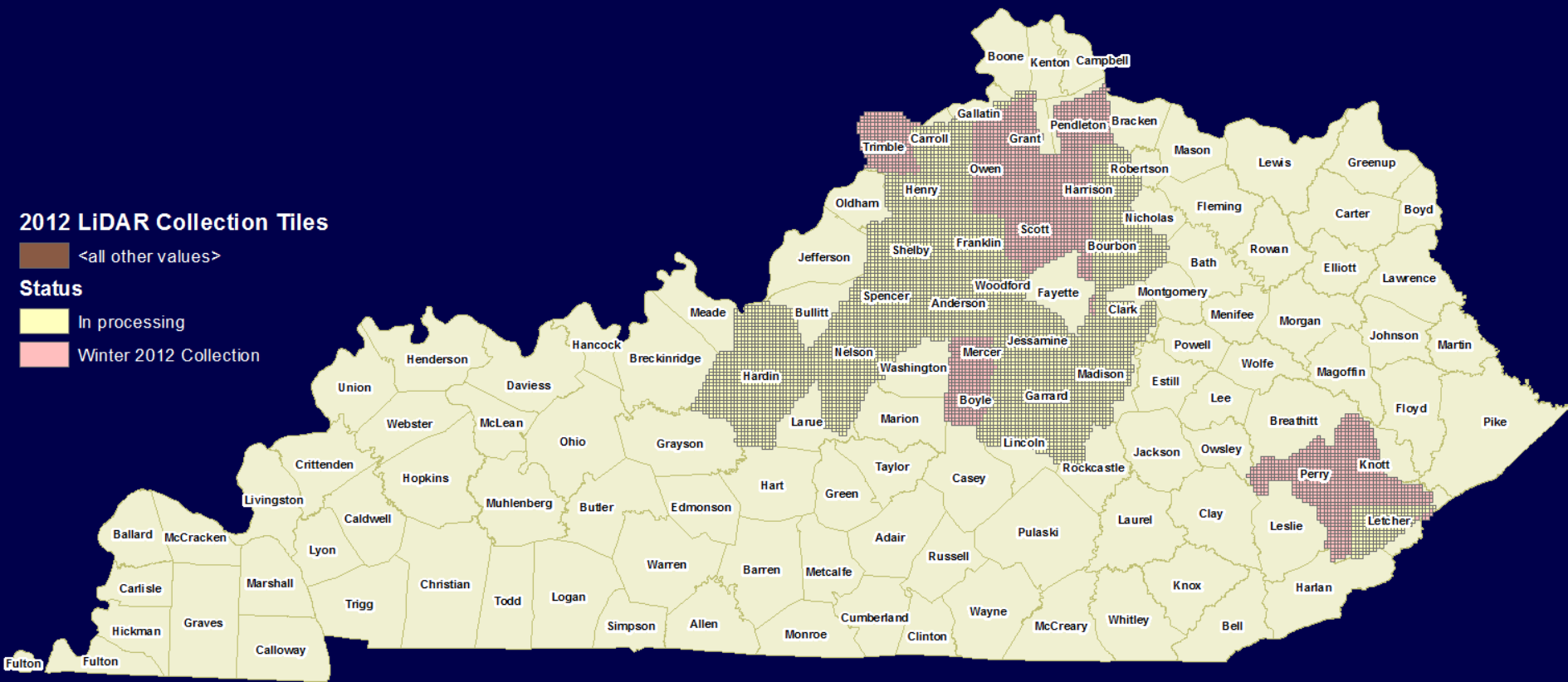
2012 LiDAR Collection Tiles

 <all other values>

Status

 In processing

 Winter 2012 Collection



Combined Existing & 2012

2012 LiDAR Collection Tiles

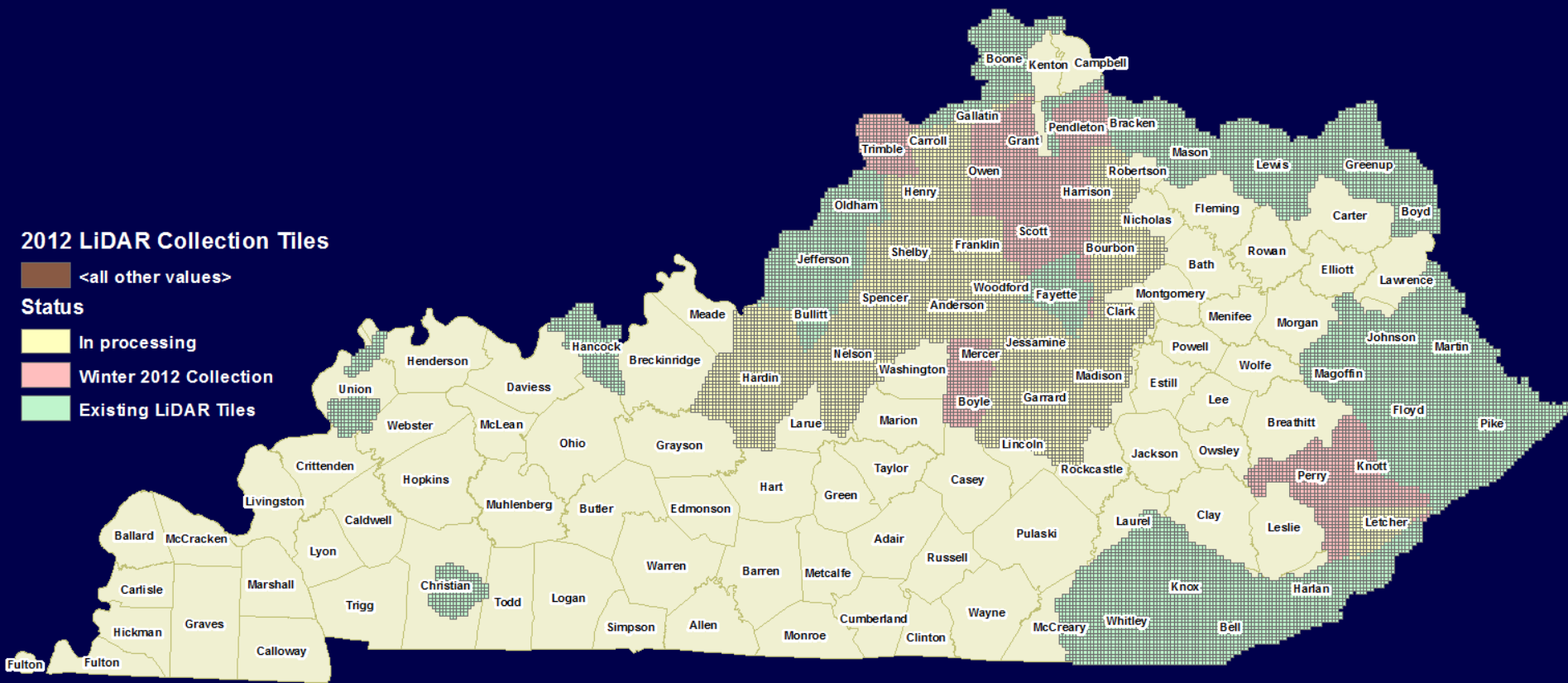
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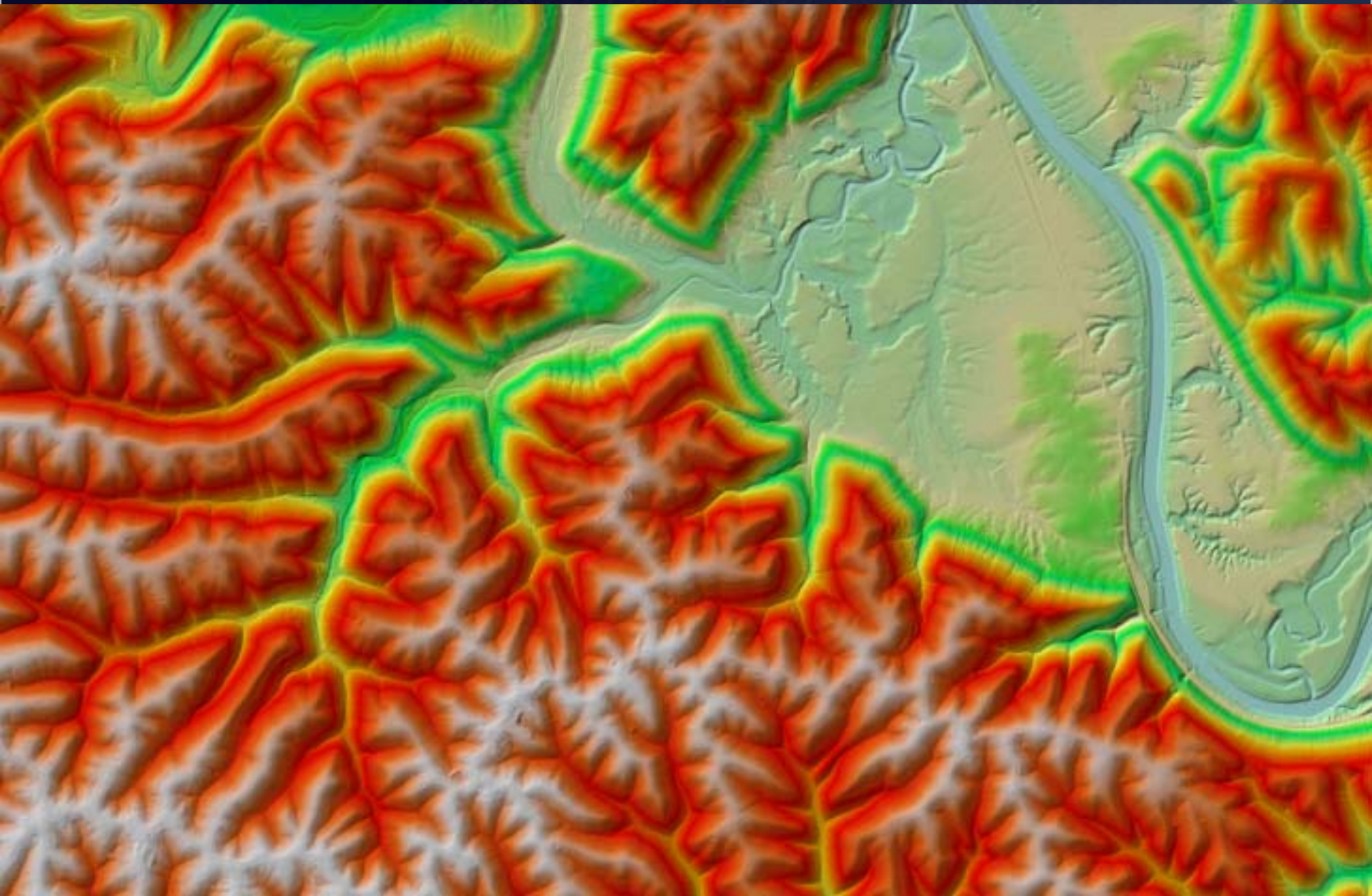
Status

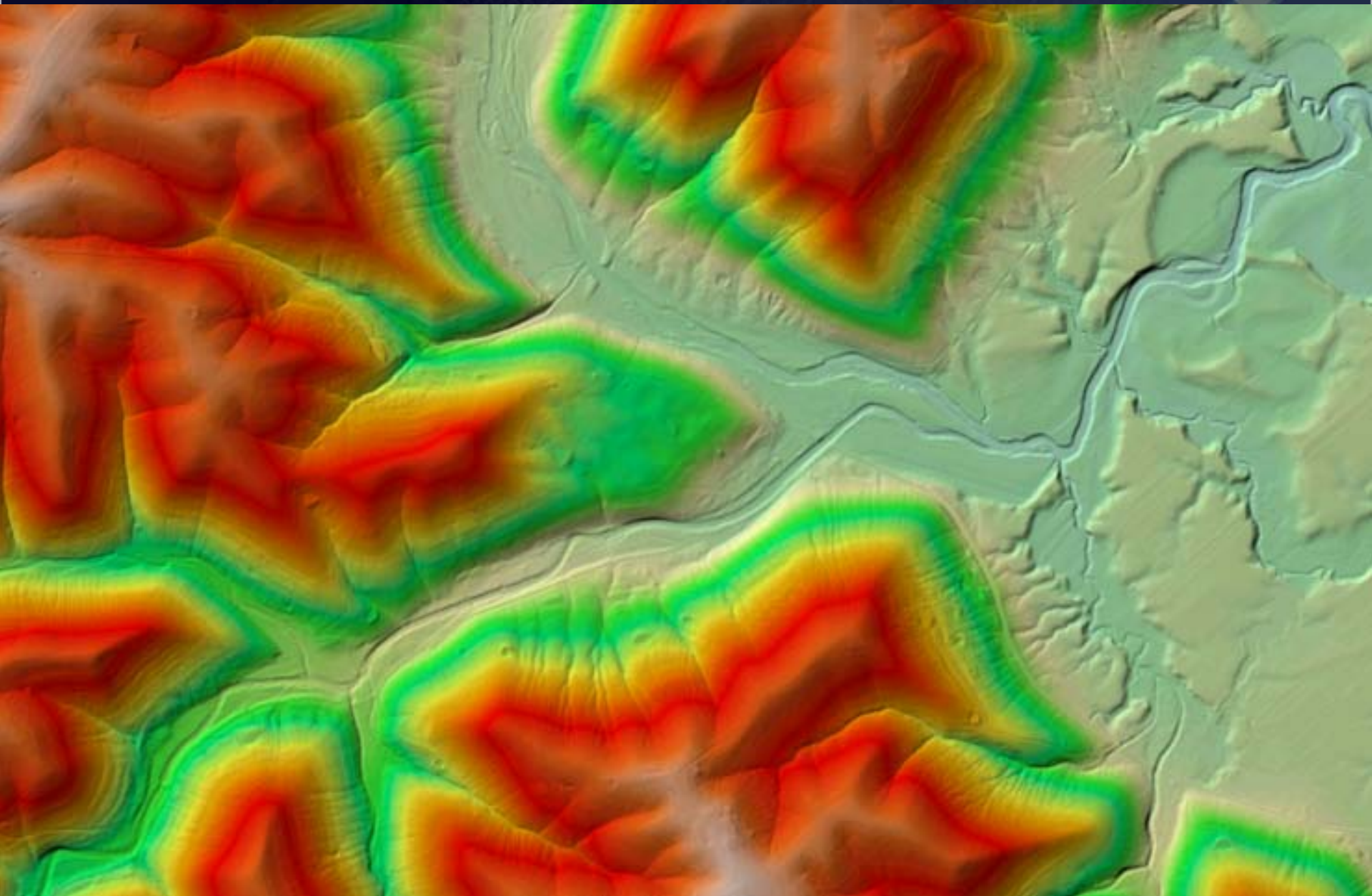
In processing

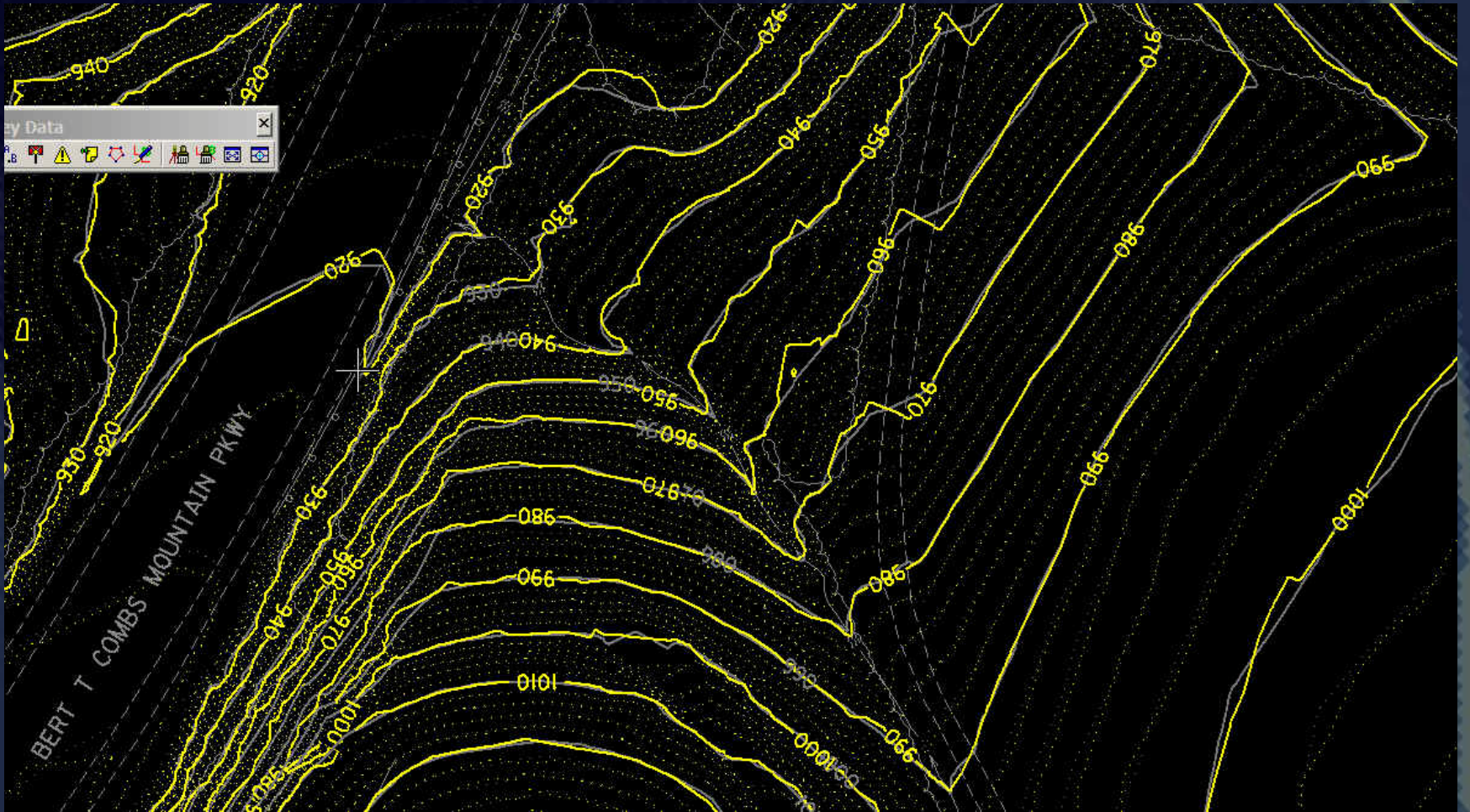
Winter 2012 Collection

Existing LiDAR Tiles









Lidar

- Arc 10.1 – Reads LAS Files

