

**PRE-MEETING AGENDA  
MOUNTAIN BROOK CITY COUNCIL**

**CITY HALL PRE-COUNCIL ROOM (A106)  
56 CHURCH STREET  
MOUNTAIN BROOK, AL 35213**

**DECEMBER 9, 2019, 6:15 P.M.**

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1. Jefferson County GIS Consortium proposal-Jefferson County GIS Director and Dana Hazen (See attached information.)
2. Sidewalk extensions on South Brookwood Road and Westbury Road at Mountain Brook Presbyterian Church for ADA compliance-Shanda Williams and Ronnie Vaughn (See attached information. This item may be added to the formal agenda.)
3. Executive Session

**Sam Gaston**

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**From:** Mazur, Leonid <mazurl@jccal.org> on behalf of Mazur, Leonid  
**Sent:** Monday, December 02, 2019 3:04 PM  
**To:** 'Dana Hazen'  
**Cc:** Wade Cherry; Sam Gaston; Karra, Srikanth  
**Subject:** RE: GIS consortium

Dana,

We would like to present JC GIS Consortium to City of Mountain Brook Council.

JC GIS Consortium G-Squared contract includes deliveries of planimetric data (buildings, pavement, paved and unpaved roads and other layers in contract) migration from 10 to 50 engineering grade scale. GIS contract will deliver new GIS products which will be available for partners: Planimetric Areas of Change and Streets Centerline. Planimetric Areas of Change will help cities with detection of properties and related taxes changes in city and zoning processing. We plan to provide services for GIS partners which will include all acquired GIS data and imagery. Jefferson County will continue to provide imagery and basemap services for public.

The major benefits of JC GIS Consortium project for city are:

- Regular higher quality and accuracy orthophotography and planimetric data (every year). Previously we contracted projects every 3-5 years.
- Having higher accuracy imagery, buildings and streets data will help JC cities and agencies with:
  - Public Safety and Emergency Response teams (accurate and updated streets and buildings )
  - Engineering projects and field operations
  - Tax Map (parcels) Modernization project - the new 50 scale imagery and data is critical to the update parcels and cities boundaries
- Migration planimetric data to the engineering quality 3" resolution will be essential for future city development commercial and residential projects

JC Consortium cost sharing makes feasible for all agencies to have yearly aerial survey and mapping updates for all JC cities & agencies

As we got more commitments from JC GIS partners and City population, we have updated proposed City of Mountain Brook projected contribution to 3.2%

**JC GIS Consortium G- Squared Proposed Contract Funding**  
**2020-2022 GIS Orthophotography & Mapping Services**

	G-Squared Contract 2020-2022					
	2020 FY	2021 FY	2022 FY	2023 FY	Total	%
City of Mountain Brook Projected contribution	\$ 12,000.00	\$ 20,000.00	\$20,000.00	\$8,000.00	\$ 60,000.00	3.2%
Partner Commitment						
GIS Consortium Total	\$400,000	\$625,000.00	\$ 625,000.00	\$ 242,500.00	\$1,892,500.00	100.0%

We are looking forward to have Mountain Brook as partner in JC GIS Consortium.

Thanks,

Leonid Mazur, GISP

Enterprise GIS Manager | Information Technology Services | Jefferson County Commission  
p 205-325-5702 | m 205-329-8773 | [Leonid.Mazur@jccal.org](mailto:Leonid.Mazur@jccal.org) | <http://jeffconline.jccal.org>

**From:** Dana Hazen <[hazend@mtnbrook.org](mailto:hazend@mtnbrook.org)>

**Sent:** Monday, December 02, 2019 1:44 PM

**To:** Karra, Srikanth <[karras@jccal.org](mailto:karras@jccal.org)>

**Cc:** Mazur, Leonid <[mazurl@jccal.org](mailto:mazurl@jccal.org)>; Wade Cherry <[cherryw@mtnbrook.org](mailto:cherryw@mtnbrook.org)>; Sam Gaston <[gastons@mtnbrook.org](mailto:gastons@mtnbrook.org)>

**Subject:** Re: GIS consortium

Sri and Leonid,

We are putting together our council agenda for December 9. Would you like us to add you for a brief presentation on the benefits of the consortium? Thanks.

On Thu, Nov 21, 2019 at 12:57 PM Dana Hazen <[hazend@mtnbrook.org](mailto:hazend@mtnbrook.org)> wrote:

Sri and Leonid,

At this juncture staff is unconvinced that the city would realize a meaningful return on its \$94,000 investment as a partner in the consortium. Given that the city of Mountain Brook makes up only 1.1% of the land area, and only 3% of the population, of the county it seems like a membership fee of 5% is high. We have polled city departments to see whether the increased detail/scale would assist in the provision of better services or increased administrative functionality, and is not anticipated that any critical decisions are to be based on the additional information to be provided via consortium membership.

However, the decision is the city council's; so to that end I would like to offer you the opportunity to make a brief presentation to the council at its pre-meeting on December 9, 2019. If you would like to come talk to them I will be happy to get you on the agenda and coordinate the time with you. We have the provisions for a powerpoint if you would like to do that.

Let us know by Monday, December 2, if you'd like to be on the pre-council agenda. The meeting takes place just prior to the 7:00 formal meeting, so generally between 5:30 and 7:00 (depending on the agenda length).

Thanks!

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Dana O. Hazen, MPA, AICP  
Director of Planning, Building & Sustainability

205/802-3816 phone  
205/879-6913 fax  
City of Mountain Brook  
56 Church Street  
Mountain Brook, AL 35213

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56 Church Street  
Mountain Brook, AL 35213

## Jefferson County GIS consortium

The County is proposing a more detailed scale to aerials (benefits to engineers) and more accurate ground improvements profile (building footprints, paving, etc.), and more frequent flying.

We are not in danger of losing the our current data sharing agreement as a result of non-participation. The agreement is automatically renewed every three years, with either party being able to opt of with a 30-day notice.

Since the price is a flat rate we would not be seeing a good return on our investment. So far the County has not been creative in their pricing solutions and has not made the participation fee based on any tangible equations such as population, square miles or development potential.

The deliverables are not enticing enough to warrant participation.

5% is probably too high for the city of MB's needs. We don't rely on the accuracy of aerials to make important decisions. Wade has consulted with Police, Fire, Parks and Public Works to see whether this level of detail on aerials would greatly enhance the city's functions, and the answer is "no." Having better aerials and building footprint data would be nice, but it is more like "fluff" than a necessity.

It is possible to try and negotiate for a lower participation fee.

If we participate we will still control our own GIS projects.

Our population is 3% of Jefferson County  
Our land area is 1.1% of Jefferson County

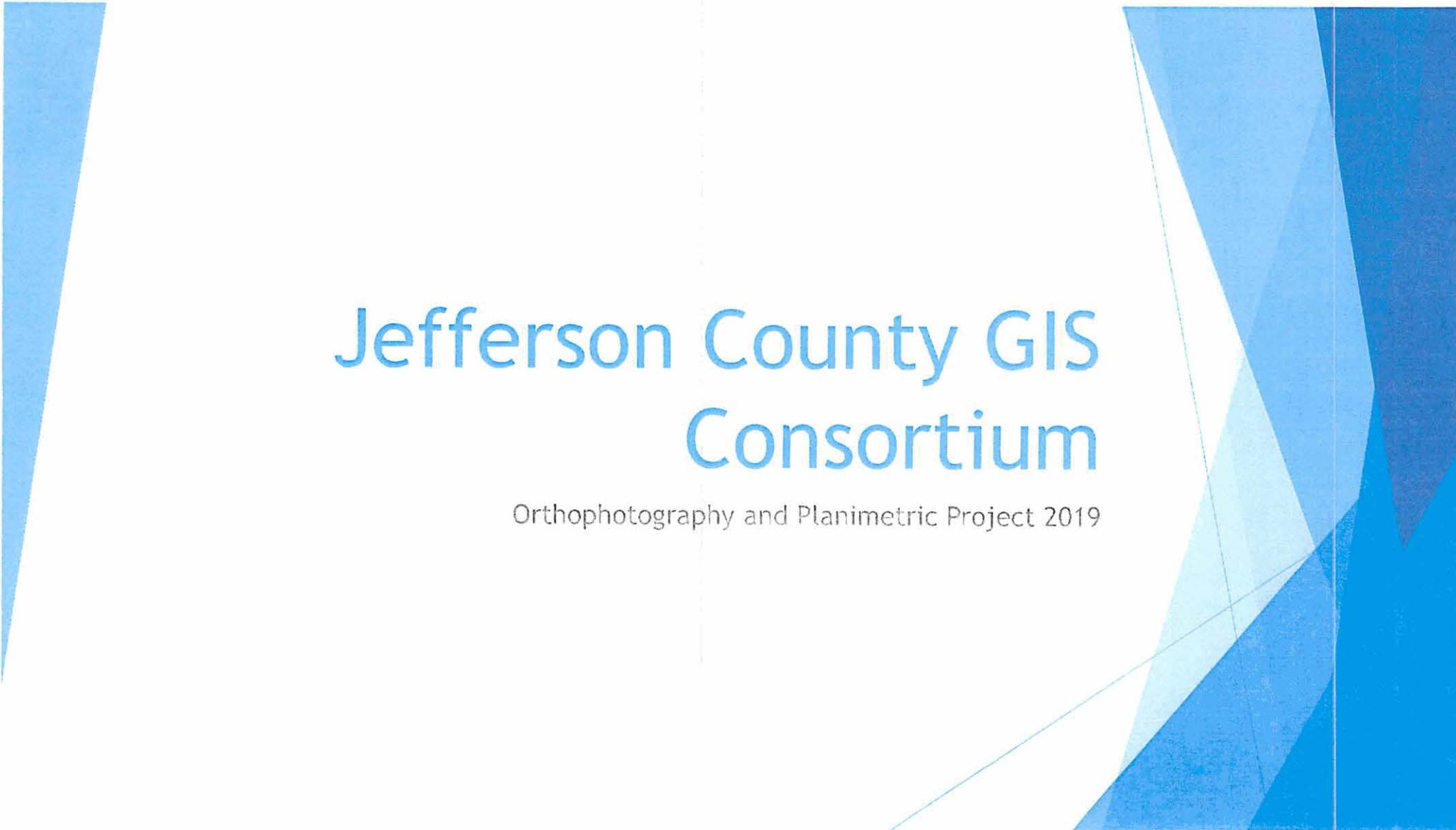
City of Mountain Brook

Projected Contribution

JC GIS Consortium G- Squared Proposed Contract Funding

2020-2022 GIS Orthophotography & Mapping Services

	G-Squared contract 2020-2022					%
	2020FY	2021 FY	2022 FY	2023 FY	Total	
City of Mountain Brook Projected contribution	\$ 19,000.00	\$ 30,000.00	\$ 30,000.00	\$ 15,000.00	\$ 94,000.00	5%
Partner Commitment						
GIS Consortium Total	\$400,000	\$625,000.00	\$ 625,000.00	\$ 247,000.00	\$1,892,000.00	100%



# Jefferson County GIS Consortium

Orthophotography and Planimetric Project 2019

# Jefferson County GIS Consortium

## Agenda

- ▶ Welcome GIS Consortium partners - Jefferson County Manager Tony Petelos
- ▶ Introduction to GIS Consortium Project- JCC CIO Sri Karra.
  - ▶ Benefits of JC GIS Cooperation
  - ▶ Consortium Goals
- ▶ GIS Project Benefits
- ▶ Proposed Orthophotography Contract with G-Squared
  - ▶ Project scope and plan
- ▶ G-Squared: Project details and Benefits of data migration to 50 scale
- ▶ Contract info and proposed Project Funding
- ▶ Project Timeline. What is next?
- ▶ Questions and discussions

County Agencies Working Together!

# Jefferson County GIS Consortium

## Consortium Goals

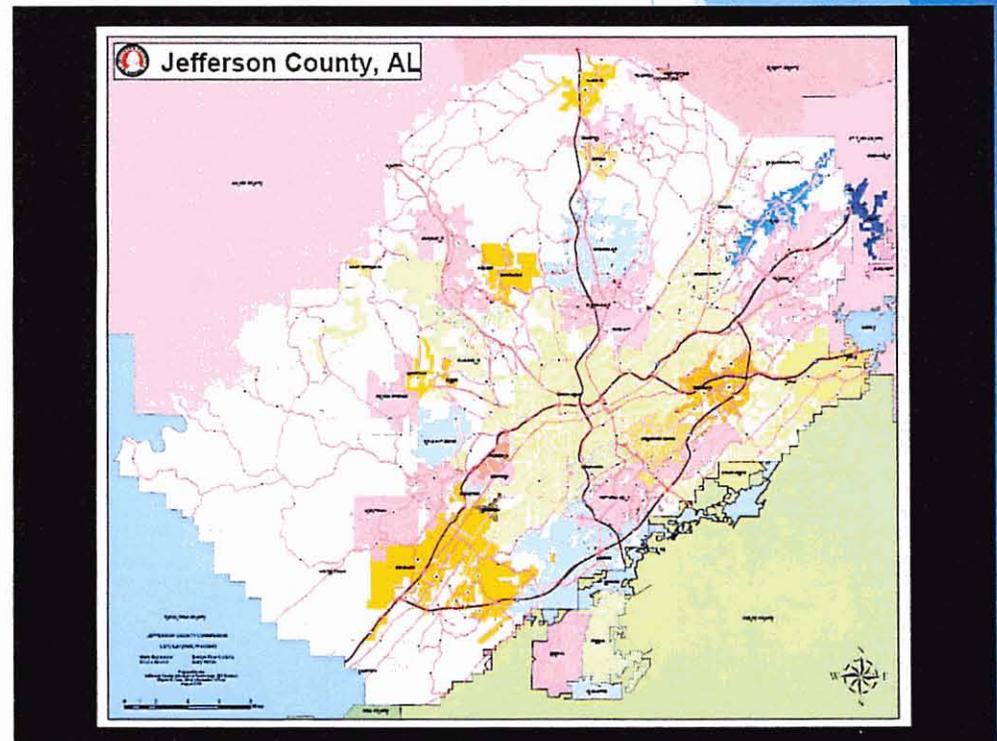
- ▶ To provide more accurate and detailed mapping data and orthophotography for all GIS partners on regular basis
- ▶ To support and improve services for JC citizens with more accurate and timely data: transportation, addressing, construction permitting and other
- ▶ GIS Consortium would like to have all Jefferson County and regional agencies, which could benefit from GIS data sharing, to join GIS Consortium. As more agencies will join Consortium it will reduce cost for each partnering organization.

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# Jefferson County GIS Consortium

## Consortium Partners

- ▶ Jefferson County Commission (JCC)
- ▶ Jefferson County 911
- ▶ Birmingham 911
- ▶ City of Birmingham
- ▶ Jefferson County Health Department (JCHD)
- ▶ Regional Planning Commission of Greater Birmingham (RPC)



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# Jefferson County GIS Consortium

## JCC: Internal Partners

- ▶ Jefferson County Board of Equalization (BOE)
- ▶ Jefferson County Environmental Services (ESD)
- ▶ Jefferson County Roads and Transportation (R&T)
- ▶ Jefferson County Tax Assessor Birmingham
- ▶ Jefferson County Development Services
- ▶ Jefferson County Tax Assessor Bessemer
- ▶ Jefferson County Information Technology Services (ITS)

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## Proposed - New GIS Consortium Partners

- ▶ City of Vestavia Hills
- ▶ Birmingham Water Works
- ▶ City of Hoover
- ▶ City of Homewood
- ▶ City of Trussville
- ▶ City of Mountain Brook
- ▶ Birmingham Airport Authority
- ▶ Jefferson County Sheriff

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## Jefferson County GIS Consortium

### Project Benefits

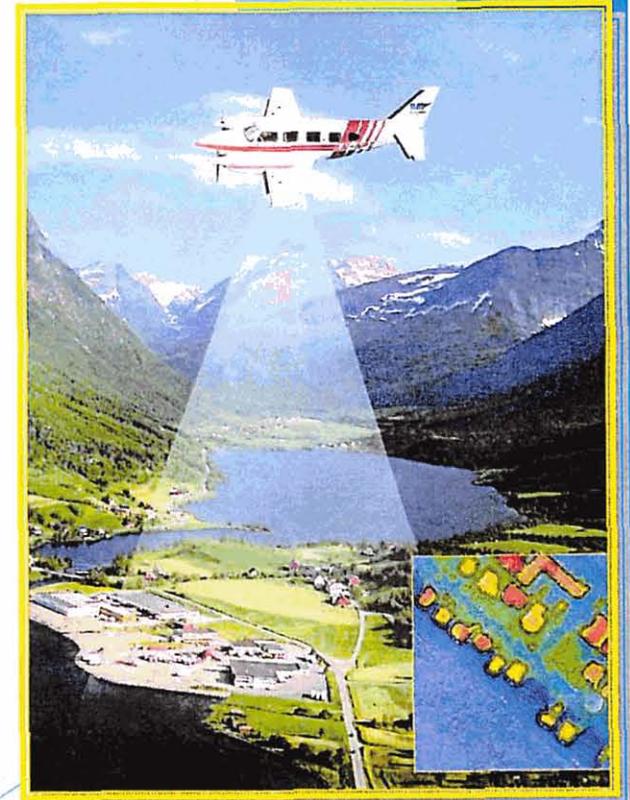
Cooperation with new members (Jefferson County 911 and Birmingham 911) allowed Consortium to plan yearly Orthophotography, Planimetric updates, and data migration of existing planimetric features from 100 scale to 50 scale, keeping the proposed cost of the project at an optimum value for all partners. GIS Consortium partners will benefit from data sharing with the new members, as they previously invested into county-wide Address points, Streets Centerline and Building Footprints planimetric data (provided by G-Squared)

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## Jefferson County GIS Consortium

### Accuracy Is Very Important

- ▶ The more accurate, the more uses GIS can have
- ▶ Accurate information is easier to build on
- ▶ More reliable analysis / results
- ▶ Fewer problems later
- ▶ More accurate data eliminates or greatly reduces data duplication
- ▶ Trade-off: Greater accuracy demands greater investment



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# Jefferson County GIS Consortium

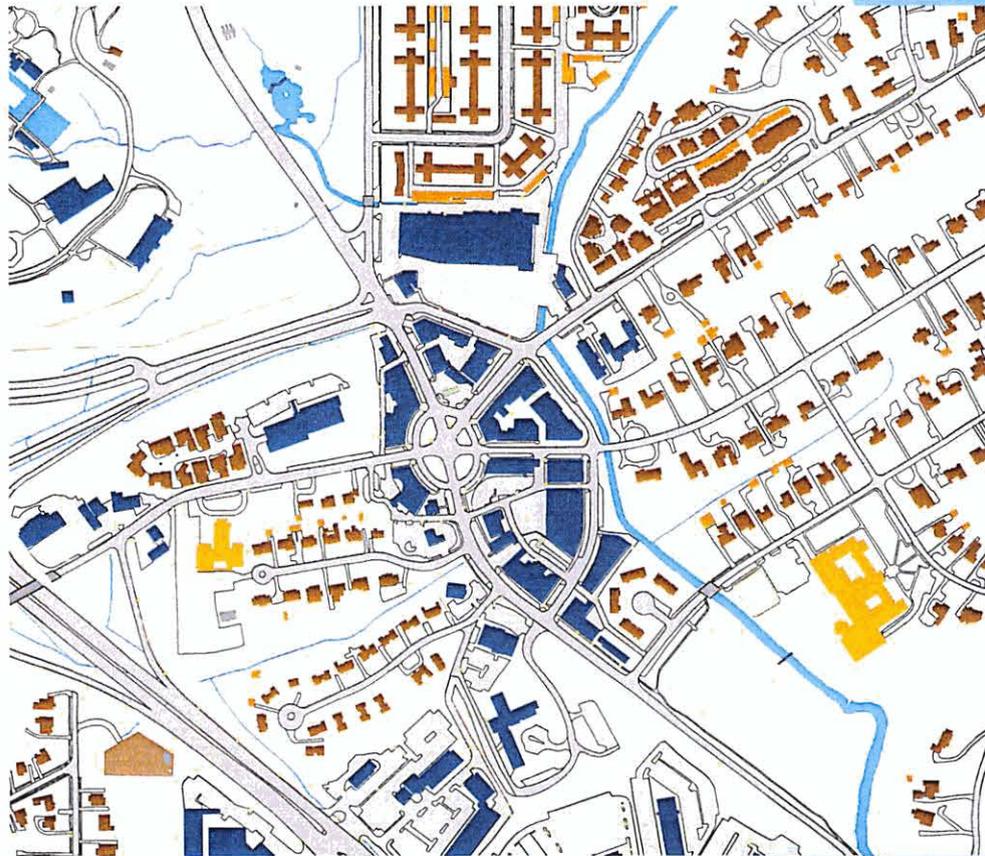
## Deliverables

- ▶ Monthly progress report and relevant data support files for archive
- ▶ Color orthophotography with 3" resolution at 1" = 50' scale in Mr. Sid and geo-tiff format
- ▶ Planimetric Map features listed in Contract Attachment B in Microstation and ESRI Geodatabase format
- ▶ Change Detection parcel layer with Excel Spreadsheet of parcel numbers
- ▶ Updated Terrain model data for the areas of change in ESRI shapefile format

## Jefferson County GIS Consortium

### Planimetric Data

- ▶ Planimetric data is a record of the horizontal position of features on the surface of the earth
- ▶ Features typically represented would be roads, buildings and water bodies
- ▶ Planimetric maps can represent cultural as well as natural earth features



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## Jefferson County GIS Consortium

### PLANIMETRIC FEATURES - Transportation Network

- ▶ Paved Roads (Edge of Pavement)
- ▶ Road Centerlines
- ▶ Unpaved Roads
- ▶ Paved Alleys
- ▶ Unpaved Alleys
- ▶ Paved and Unpaved Driveways
- ▶ Paved Parking
- ▶ Sidewalks
- ▶ Roadway tunnel
- ▶ Bridges

## PLANIMETRIC FEATURES 2

- ▶ **Buildings** and Other Structures Coverage
- ▶ Fence Lines
- ▶ Airport runways
- ▶ Railroads
- ▶ Guardrails
- ▶ Swimming pools
- ▶ Areas Under Construction/Disturbed Areas
- ▶ Tracks - Athletic. Courts - Athletic Racetracks
- ▶ Billboards

## PLANIMETRIC FEATURES 3

- ▶ Concrete Barriers
- ▶ Dams, Storage Tanks
- ▶ Catch Basin
- ▶ Active Quarries
- ▶ Hydrology (rivers, lakes, streams, ponds, wetlands)
- ▶ Gas and Oil Wells
- ▶ Storage pools at wastewater treatment facilities

# Jefferson County GIS Consortium

## Year 1

- ▶ January 15, 2020 - Ground control and flight planning complete
- ▶ January 15, 2020 - March 15, 2020 - Aerial Acquisition complete
- ▶ October 1, 2020 - Orthophotography delivered
- ▶ January 31, 2021 - Planimetric Updated where areas have changed delivered
- ▶ January 31, 2021 - Data migration of existing planimetric features from 100 scale to 50 scale (in progress)

# Jefferson County GIS Consortium

## Year 2

- ▶ January 15, 2021 - Ground control and flight planning complete
- ▶ January 15, 2021 - March 15, 2021 - Aerial Acquisition complete
- ▶ October 1, 2021 - Orthophotography and Building Footprints update delivered
- ▶ December 31, 2021 - Remaining Planimetric Updated (Areas of change) delivered
- ▶ December 31, 2021 - Data migration of existing planimetric features from 100 scale to 50 scale (in progress)

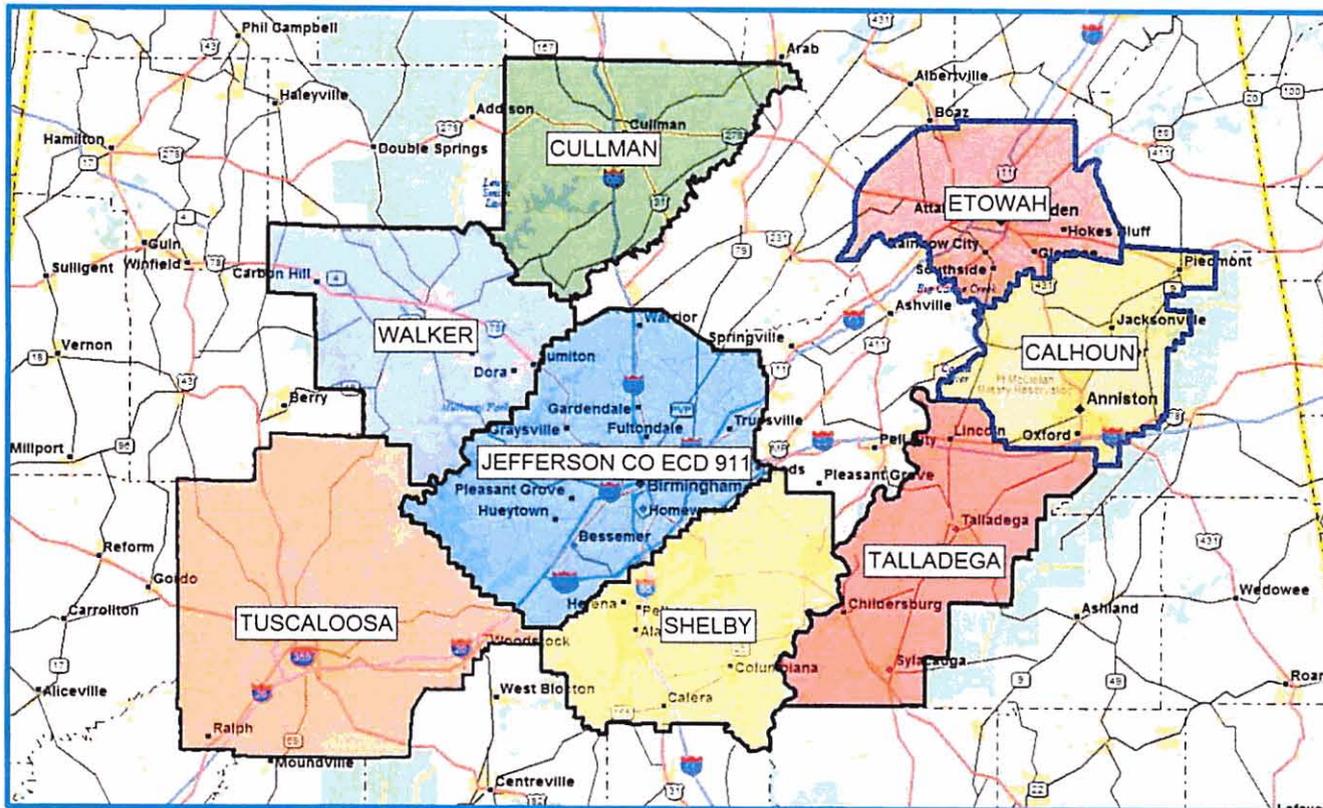
## Jefferson County GIS Consortium

### Year 3

- ▶ January 15, 2022 - Ground control and flight planning complete
- ▶ January 15, 2022 - March 15, 2022 - Aerial Acquisition complete
- ▶ October 1, 2022 - Orthophotography and Building Footprints update delivered
- ▶ December 31, 2022 - Remaining Planimetric Updated (Areas of change) delivered
- ▶ December 31, 2022 - Data migration of existing planimetric features from 100 scale to 50 scale (**complete**)

# Jefferson County GIS Consortium

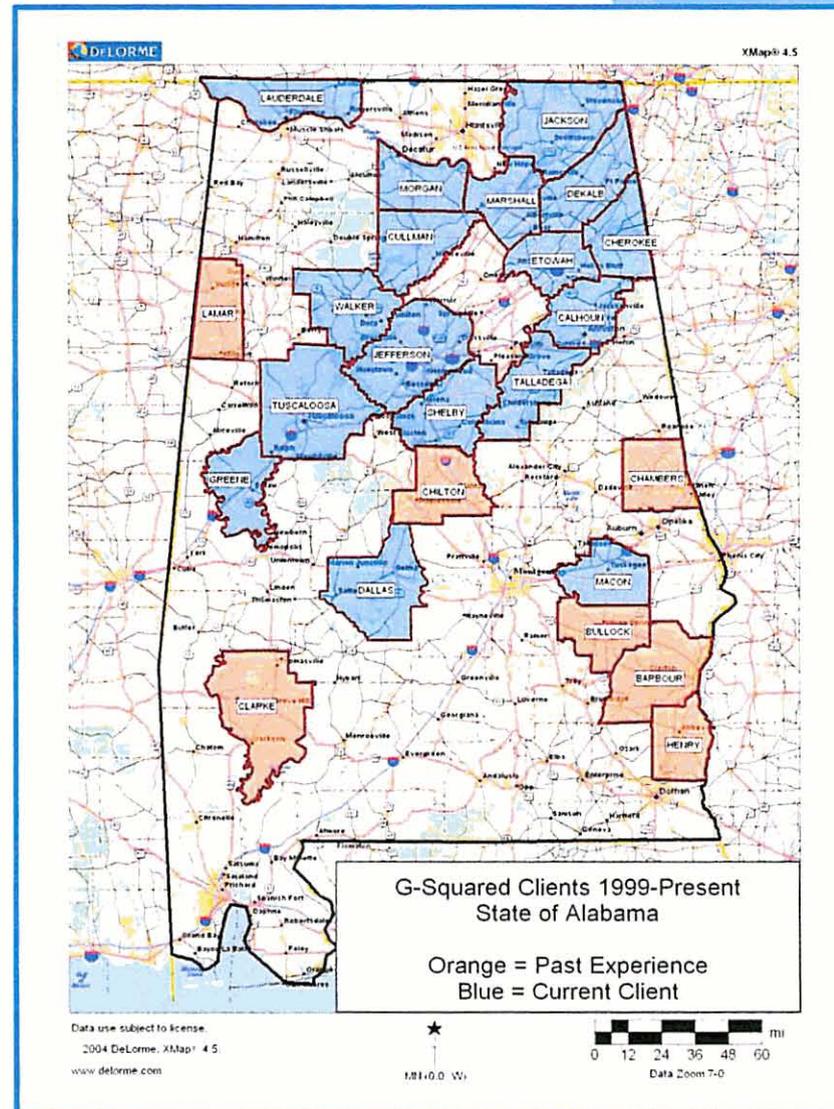
## G-Squared Projects



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# G-Squared Projects

Alabama Clients	Square Miles
Barbour County	905
Bullock County	626
Calhoun County	612
Chambers County	603
Chilton County	701
Clarke County	1,253
Cullman County	755
Dallas County	993
Etowah County	549
Greene County	660
Henry County	568
Jefferson County	1,124
Lamar County	606
Lauderdale County	719
Macon County	613
Marshall County	650
Shelby County	850
Talladega County	740
Tuscaloosa County	1,351
Walker County	803





# Questions?

Zach Galyen  
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Michael Whisenant  
mwhisenant@gsqmap.com

Phone: 931-438-1414

GSQMAP.COM

G-Squared



Photogrammetrist



## Jefferson County GIS Consortium

### GIS Consortium G-Squared Contract Funding

The total cost of 3-year project is \$1,892,000.

The first-year (2020 FY) total contract cost would not exceed \$400K, with the partners contribution projected at the same level as it was in 2018 (contract with Atlantic – Orthophotography and Planimetric updates), or as other agencies who joined Consortium and specifically acknowledged their available allocations.

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## Jefferson County GIS Consortium

### What is Next?

- ▶ Project Timeline
- ▶ Contract Funding - JC agencies feedback
- ▶ Consortium Partners confirmations
- ▶ Partners Contract Agreements

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## Jefferson County GIS Consortium

# Questions?

### Contact Us:

▶ Enterprise GIS Manager Leonid Mazur: [Leonid.Mazur@jccal.org](mailto:Leonid.Mazur@jccal.org)

Phone : 205-325-5702

▶ Manager Systems Analysis Maurice W. Myers: [myersm@jccal.org](mailto:myersm@jccal.org)

Phone : 205-214-4075

Jefferson County Commission, Alabama Open Data Hub -

<http://data-jeffco-al.opendata.arcgis.com/>

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**South Brookwood Sidewalk Extension  
For ADA accessibility.**

**510' x 5' x 6"**

<b>Curb &amp; Gutter:</b>	<b>\$ 6,200.00</b>
<b>Sidewalk:</b>	<b>\$ 8,530.00</b>
<b>Inlet Modification:</b>	<b>\$ 1,500.00</b>
<b>Stone:</b>	<b>\$ 1,350.00</b>
<b>Total:</b>	<b>\$ 18,460.00</b>

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**There is a 5% increase added for the changing cost of materials.**

**Westbury Road sidewalk extension  
For ADA access.  
400' x 5' x 6"**

**Sidewalk :           \$ 6,200.00  
Inlet Modification :   \$ 1,500.00**

**Total :               \$ 8,085.00**

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**There is a 5% increase added due to the changing cost of materials.**



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