

cyclomedia



## Williamson County, TX Street Level Data Analytics



**Presented to:**

|                             |  |
|-----------------------------|--|
| Name                        | Williamson County, TX   Road and Bridge Division                     |
| Business Address            | 3151 SE Inner Loop, Georgetown, TX 78626                             |
| General Contact Information | (512) 943-3330   |
| Point of Contact            | Matt Williamson-<br>E: matt.williamson@wilco.org   T: (512) 943-3384 |

**Presented from:**

|                             |   |
|-----------------------------|---|
| Name                        | Cyclomedia Technology, Inc.   |
| Business Address            | 8215 Greenway Blvd, Suite 300<br>Middleton, WI 53562                          |
| General Contact Information | info-us@cyclomedia.com<br>(510) 900-5142                                      |
| Point of Contact            | Matt Thomas, Sales Executive<br>E: mthomas@cyclomedia.com   T: (832) 724-8696 |

Global Positioning System



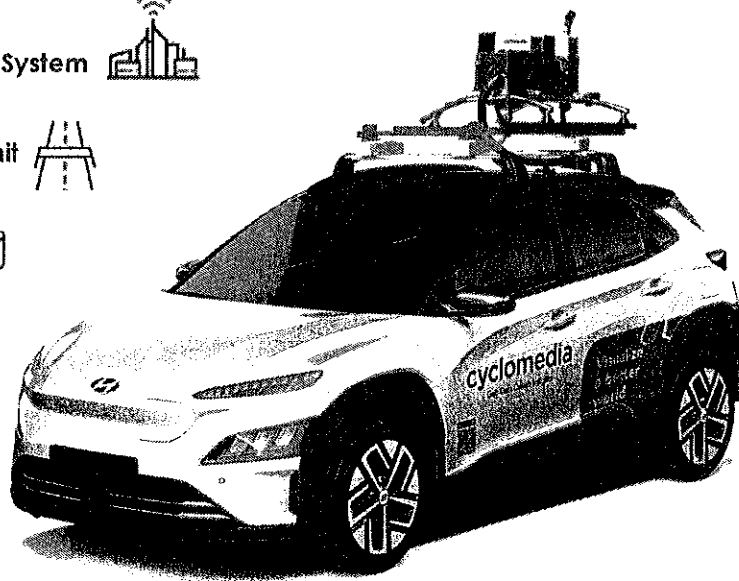
Internal Measurement Unit



Patented Camera System



LiDAR Sensor



**This Statement of Work** is prepared for Williamson County, Texas Road and Bridge Division having its registered office at 3151 SE Inner Loop, Georgetown, TX 78626 (hereinafter referred to as "Client") and Cyclomedia Technology, Inc., a Delaware corporation having its registered office at 8215 Greenway Blvd, Suite 300 Middleton, WI 53562 (hereinafter referred to as "Cyclomedia"), as of June 14, 2023 ("Issue Date"). Pricing and details contained within this **Statement of Work** is valid for 60 days.

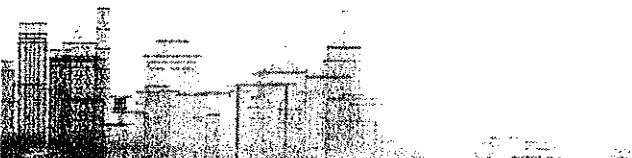
**Price Proposal for the Area of Proposed Data Analytics:**

**Professional Services:**

**Asset Extraction Services**

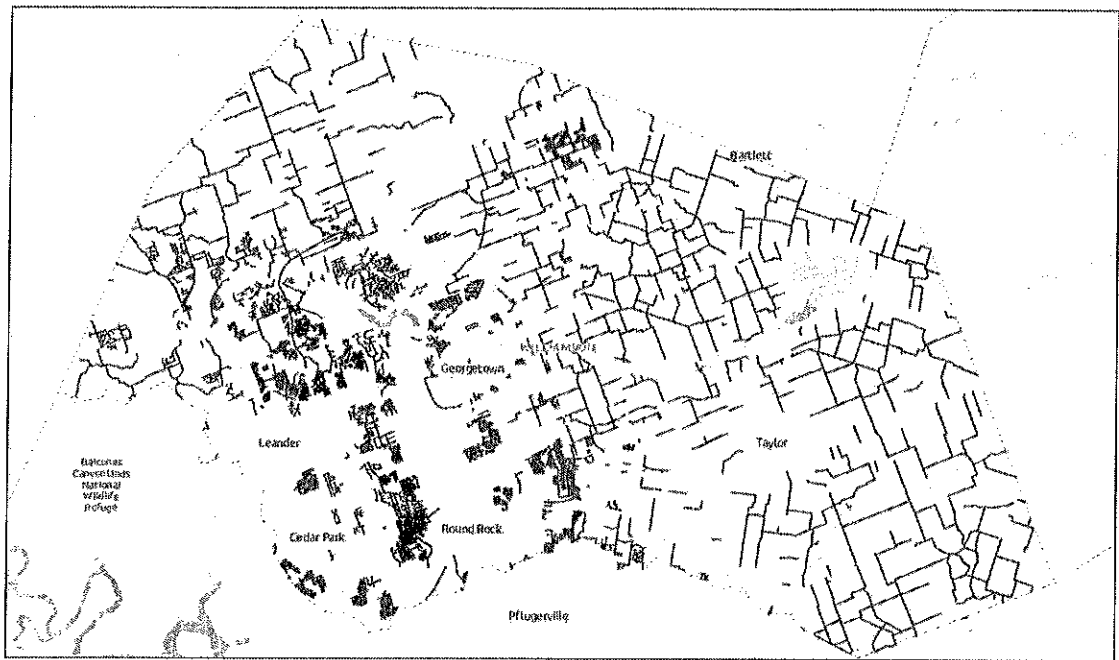
- **This estimate is based on the following assumptions:**
- Assets to be extracted
  - GO+ Traffic Signs
  - GO+ Drains and Catch Basins
  - GO+ Fire Hydrants
  - GO+ Public Lights
  - GO+ Traffic Lights
  - Standard Guardrails
  - Road Surface Analysis
    - PASER

Data Dictionaries and/or product specs available upon request



Fee Schedule: Prices valid through 12/31/2024.

| Service   | Quantity | Unit  | Price    | Total        |
|---|----------|-------|----------|--------------|
| 3D Geocyclorama Imagery   | 1,750    | Miles | INCL     | INCL         |
| Elevation Visualization Tool  | 1,750    | Miles | INCL     | INCL         |
| Privacy Filter Blurring (Included with Geocyclorama Imagery)  | 1,750    | Miles | INCL     | INCL         |
| Go+ Public Traffic Signs, Drains & Catch Basins, Fire Hydrants, Public Lights<br>Standard Guardrails<br>Road Surface Analysis-PASER | 1,750    | Miles | \$122.00 | \$213,500.00 |
| Total Project Cost  |          |       |          | \$213,500.00 |



Williamson County, TX  
County Maintained Roads  
~1750 Miles



Real data.  
True understanding.  
Big impact.



## **SCHEDULE FOR DATA EXTRACTION**

Cyclomedia will prepare an initial data extraction on a small portion of the project (between 10 to 50 miles, or 100 – 200 property images or elevations), known as **Phase Zero**. This Phase Zero sample will be delivered to the client, the delivery manager will review the submittal with the Client during a project status meeting.

Zero submittal is to confirm to the client that the deliverables are meeting the specifications of the data dictionary. If obvious issues are mutually discovered, the delivery manager will review the data dictionary specifications and take actions as appropriate. The Client shall have one week to further review the Phase Zero submittal and shall confirm in writing that the Phase Zero deliverable is appropriate for the project. Any issues or concerns by the Client that the Phase Zero deliverable is not conforming to the approved data dictionary shall immediately be brought to the attention of the delivery manager.

The project cannot continue until the client acknowledges that the Phase Zero deliverable complies with the data dictionary. Any delays in this acknowledgement may have DISPROPORTIONAL delays in the entire project as the extraction team may be redeployed to other projects.

Once the acknowledgement is completed, the data extraction will be scheduled and completed. All further Phase Deliverables will align with the Phase Zero specification. Two weeks after the final deliverable to the Client, the project will be deemed accepted.

## **DATA EXTRACTION SPECIFICATIONS**

Detection distance of objects:

- Objects > 25cm x 25 cm: up to 10 meters from the car
- Objects > 50cm x 50 cm: up to 30 meters from the car
- Both only when the object is visible in at least 1 image.
- Objects beyond 30 meters do not have a quality specification.

Positional accuracy (absolute):

- The average standard deviation of all the measured points is 10 cm or 4" inches (1- $\sigma$ ) in all directions, except in long tunnels, woody areas, occluded areas and urban canyons where the positional accuracy is not specified.

Standard completeness/correctness of delivery:

- Goal is 95% of all the specified objects that are visible on the GeoCyclorama, and within distance spec. from the Cyclorama recording locations, are inventoried. Of the objects detected, 95% are expected to be accurately extracted and attributed.
- In tunnels, the objects are only inventoried if there is enough light to take photographs. Also, the positional accuracy will decrease inside tunnels.
- Quality control is done via a statistical process where the number of checks depends on the size of the dataset, based on the AQL method. 100% QA is not performed.

## **CONFIRMING DATA QUALITY**

Cyclomedia will evaluate a random sample of data and if the quality is within the specifications, the data set is deemed accepted. Any correction of detected errors is at the sole option of Cyclomedia and does not change the acceptance of the entire data set. If the client does not provide written documentation of quality outside of specification within 15 days of delivery to the client, that data is deemed accepted. Cyclomedia has 15 days from the receipt of any such documentation to respond, including if considered necessary by Cyclomedia, a plan to address the issues documented.

## **OTHER**



Unless specified elsewhere, hosting of delivered data in a GIS environment is not included or is provided at additional cost.

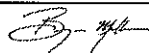
## INVOICING

Cyclomedia will invoice the Williamson County, TX as follows:

- 100% of the Project Total upon final delivery acceptance
- Net 30-day Payment Terms

## EXECUTION

In Witness Whereof, the parties have executed this Agreement.

| Cyclomedia Technology, Inc.   | Williamson County, TX |
|---|-----------------------|
| By:  | By:                   |
| Print Name: Bryan Mueller   | Print Name:           |
| Title: Chief Administrative Officer   | Title:                |
| Date: 06/20/2024  | Date:                 |

