



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

REQUEST FOR INFORMATION  
FOR  
SOFTWARE FOR POST PROCESSING DRONE DATA

RFI # 40100-51444  
January 24, 2025

**1. STATEMENT OF PURPOSE:**

The State of Tennessee, Department of Transportation (“TDOT”) issues this Request for Information (“RFI”) for the purpose of identifying software for the purpose of post processing drone data. We appreciate your input and participation in this process.

**2. BACKGROUND:**

In order to meet federal and state regulations, the TDOT Aeronautics Division is searching for a new software that will be able to process collected drone data in a time expedient and efficient matter. This software will be able to provide the services listed in section 2.2.

2.1. The software will assist TDOT in being compliant with State and Federal regulations that include but are not limited to the following:

- a. 14 Code of Federal Regulations (CFR) PART 77
- b. Tennessee Code Annotate 42 Chapter 2, State Administration and Rules of Tennessee Department of Transportation, Aeronautics Division Chapter 1680-1-2

2.2. The software must be able to provide:

- a. For Aeronautics Division:
  - i. Obstruction and vegetation data
    1. Import data:
      - a. Imports flight data into system that creates the ortho file
      - b. Import 20:1 approach surface that is created by the State
      - c. Import Parcel Data that is in a SHP file
    2. System uses AI to automatically obtain:
      - a. Individual Trees
        - i. Points (small, medium and large trees by canopy):
          1. Point Number

2. GPS via LAT and Long by decimal degrees
3. Trees penetrating 20:1 height to remove to 10ft below 20:1 (Red Trees in drawing)
4. Trees penetrating 10ft below 20:1 and height to remove to be below 10ft (Green Trees in drawing)
5. Total height of tree to ground elevation (wonder if this could be approximated without LiDAR)
- b. Underbrush and low growth trees
  - i. Vegetation less than 10 ft from ground elevation are converted to an area instead of a point
  - ii. Labeled as Acres
- c. Group vegetation (points and acres) by Property Ownership
  - i. Owner Name, Address and Tax/Parcel #
- d. Group vegetation also into tables showing data from a(i) and b
3. Export as a PDF and KML file
  - a. Tabloid size paper
  - b. Pages
    - i. Cover Page
    - ii. Index Page
    - iii. Runway X
      1. Vegetation Quantities as a table
        - a. Red Tree Data
        - b. Green Tree Data
      2. Ownership tables
    - iv. Runway X plan view using aerial map overlay showing green and red trees and approach surface outline
    - v. Runway X zoomed up showing details of previous page
    - vi. Runway X Front, Side and Cross Section views of runway end
    - vii. Runway Y
      1. Vegetation Quantities as a table
        - a. Red Tree Data
        - b. Green Tree Data
      2. Ownership tables
    - viii. Runway Y plan view using aerial map overlay showing green and red trees and approach surface outline
    - ix. Runway Y zoomed up showing details of previous page
    - x. Runway Y Front, Side and Cross Section views of runway end

### 3. COMMUNICATIONS:

- 3.1. Please submit your response to this RFI to:

Jennifer Garrison, Procurement and Contracts Division  
 Tennessee Department of Transportation  
 James K Polk Building, 5<sup>th</sup> Floor  
 505 Deadrick St  
 Nashville, TN 37243  
 TDOT.RFP@tn.gov

- 3.2. Please feel free to contact the Tennessee Department of Transportation with any questions regarding this RFI. The main point of contact will be:

Jennifer Garrison, Procurement and Contracts Division  
Tennessee Department of Transportation  
James K Polk Building, 5<sup>th</sup> Floor  
505 Deadrick St  
Nashville, TN 37243  
TDOT.RFP@tn.gov

3.3. Please reference RFI # 40100-51444 with all communications to this RFI.

**4. RFI SCHEDULE OF EVENTS:**

EVENT		TIME (Central Time Zone)	DATE (all dates are State business days)
1.	RFI Issued		1/24/2025
2.	Questions/Comments submitted to TDOT		2/6/2025
3.	TDOT response to Questions/Comments		2/20/2025
4.	RFI Response Deadline		3/6/2025
5.	State Schedules Demos/Presentations		3/13/2025
6.	Demonstrations via Microsoft Teams	8:00 AM – 4:30 PM	3/27/2025
		8:00 AM – 4:30 AM	3/28/2025

**5. GENERAL INFORMATION:**

- 5.1. Please note that responding to this RFI is not a prerequisite for responding to any future solicitations related to this project and a response to this RFI will not create any contract rights. Responses to this RFI will become property of the State.
- 5.2. The information gathered during this RFI is part of an ongoing procurement. In order to prevent an unfair advantage among potential respondents, the RFI responses will not be available until after the completion of evaluation of any responses, proposals, or bids resulting from a Request for Qualifications, Request for Proposals, Invitation to Bid or other procurement method. In the event that the state chooses not to go further in the procurement process and responses are never evaluated, the responses to the procurement including the responses to the RFI, will be considered confidential by the State.

5.3. The State will not pay for any costs associated with responding to this RFI.

**6. INFORMATIONAL FORMS:**

The State is requesting the following information from all interested parties. Please fill out the following forms:

<b>RFI #40100-51444</b>	
<b>TECHNICAL INFORMATIONAL FORM</b>	
1. RESPONDENT LEGAL ENTITY NAME:	
2. RESPONDENT CONTACT PERSON: Name, Title: Address: Phone Number: Email:	
3. Brief description of software providing similar scope of services.	
4. Please describe your training structure and schedule if any is provided.	
5. Please state whether you are able to meet the requirements of section 2.2.	

<b>COST INFORMATIONAL FORM</b>	
1. Describe your various pricing options and what is provided in those packages.	
2. Are there any additional costs for adding on features?	
3. Are there additional costs for specialized training?	
4. Are there any user license fees associated with this software?	
5. Is there a contractual term associated with your software?	

<b>ADDITIONAL CONSIDERATIONS</b>	
1. Please provide input on alternative approaches or additional things to consider that might benefit the State:	