

Ohio Department of Transportation

Office of Contracts

1980 West Broad St. Columbus, OH, 43223

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Request for Information RFI #510-12

For

**Transportation Information System Database**

Issue Date: August 9, 12

Response Deadline: August 31, 2012

Ohio Department of Transportation

# Request for Information Transportation Information System Database

Office of Technical Services



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## **I. Introduction**

This is a request for information (RFI), and does not constitute a commitment, implied or otherwise, that the Ohio Department of Transportation (ODOT) will take procurement action in this matter. This RFI is being used to gather information for ODOT to make decisions regarding the development of a Transportation Information System Database (TISD).

This RFI is designed to provide Respondents with the information necessary for the preparation of an appropriate response. It is not intended to be comprehensive, and each Respondent is responsible for determining all factors necessary for submission of a comprehensive response. Responses should be based on the material contained in this RFI or any other relevant information the Respondent thinks is appropriate. By submitting a response, each Respondent agrees that it will not bring any claim or have any cause of action against the ODOT, the State of Ohio, or any employee of ODOT or the State, based on any misunderstanding concerning the information provided or concerning the ODOT's failure, negligent or otherwise, to provide the Respondent with pertinent information as intended by this RFI. Information submitted in response to this RFI will become property of the State of Ohio. The State of Ohio will not pay for any information herein requested nor is it liable for any cost incurred by the vendor.

### RFI Confidentiality

All Respondents are strongly discouraged from including in a RFI any information that the Respondent considers to be a "trade secret," as that term is defined in Section 1333.61(D) of the Ohio Revised Code. All information submitted in response to this RFI is public information unless a statutory exception exists that exempts it from public release. If any information in the RFI is to be treated as a trade secret, the RFI must:

- Identify each and every occurrence of the information within the RFI with an asterisk before and after each line containing trade secret information and underline the trade secret information itself.
- Check the "This RFI Does include information considered a 'trade secret'" box on the Respondent Information Page.
- Include a page immediately after the Respondent Information Page that lists each page in the RFI that includes trade secret information and the number of occurrences of trade secret information on that page.

To determine what qualifies as trade secret information, refer to the definition of "trade secret" in the Ohio Revised Code, which is reproduced below for reference:

(D) "Trade Secret" means information, including the whole or any portion or phase of any scientific or technical information, design, process, procedure, formula, pattern, compilation, program, device, method, technique, or improvement, or any business information or plans, financial information, or listing of names, addresses, or telephone numbers, that satisfies both of the following:



- (1) It derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use.
- (2) It is the subject of efforts that are reasonable under the circumstances to maintain its secrecy.

## **II. Background**

The Ohio Department of Transportation collects and maintains a vast amount of spatially referenced data regarding the location, condition, uses and related features of transportation assets throughout the State of Ohio. These datasets currently reside in a variety of formats and locations. ODOT is interested in the design, development and implementation of a Transportation Information System Database that will provide the requisite structure necessary to allow cross-dataset analysis. Additionally, ODOT is seeking appropriate business intelligence tools for accessing the information. This RFI intended to provide ODOT with descriptions of solutions and services which illustrate current best practices for asset management databases.

## **III. Scope**

The following requirements have been identified for the Transportation Information System Database:

- The TISD must reside within an Oracle Spatial environment
- Be constructed in a manner to provide three general levels of user access:
  1. Optimized for external application access & utilization
  2. Published data formats accessible to advanced users (ex. Structured table format or format which can be utilized directly in a GIS/Geospatial environment)
  3. Provide ad hoc reporting and analysis utilizing business intelligence tools
- The TISD must allow cross-dataset analysis (e.g. determine how the condition of one asset potentially impacts the resources required for another asset)
  - The cross-dataset analysis should have geospatial and non-geospatial reporting outputs
- Be constructed in a manner that standardizes data elements across datasets where applicable
- Be constructed in a manner to incorporate temporal changes over the transportation network (e.g. adjust events accordingly as log points change, route name changes, etc.)
- Be constructed to allow temporal analysis, such as comparing change over time or viewing a specific point in time
- Be constructed in a manner to allow ODOT the ability to incorporate new assets as inventories become available



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- Be constructed to incorporate datasets from a variety of source data or existing database formats
  - Be constructed to relate road based assets with non-road based assets (e.g. bike facilities, airports, intermodals)
  - Be constructed in a manner that is compatible with ODOT's current linear referencing standards (LRS) standards
  - Be constructed in a manner to be able to utilize multiple linear referencing methods

The following are the datasets currently identified for incorporation in the TISD:

- Pavement Condition Rating
- Road Inventory
- Linear Referencing System (LRS)
- Pavement Roughness
- Bridge
- Culverts
- Outfalls
- Barriers
- Signs
- Project History
- Current Projects
- Traffic Counts
- Bike & Pedestrian Facilities
- Geo Technical
- Airports
- Intermodals
- Safety
- ODOT Facilities



#### **IV. RFI Procedure**

Responses to this RFI should utilize the template in the RFI Questionnaire Section. All responses must be emailed as a PDF or Word document to:

Ian Kidner      [ian.kidner@dot.state.oh.us](mailto:ian.kidner@dot.state.oh.us)

Responses are due by 5:00 pm on **8/31/12**

#### **V. RFI Questionnaire**

1. Respondent Information

Organization  
Point of Contact  
Phone Number  
Email Address

Does this RFI contain information considered a 'trade secret'? Yes / No

2. Describe any current solutions that meet the described requirements.
3. Please indicate any functionality included in the solution which might be beneficial but was not mentioned as a requirement.
4. Describe known limitations of the solution.
5. Describe the methods this solution would employ for the database design.
6. Describe the maintenance and upkeep ODOT should expect with this solution.
7. Describe the timeline associated with implementing this solution.
8. Has any or all of this solution been implemented? If so, please provide the agency and contact information.
9. Please provide any additional comments relevant to this RFI.