



OHIO DEPARTMENT OF
TRANSPORTATION

Office of Technical Services

Asset Management: Enterprise

Web-GIS

Request for Information

May 9, 2011



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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 web-based Geographic Information System (GIS) application.

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:

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(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 condition, uses and related features of transportation assets throughout the State of Ohio. The ODOT is interested in developing an enterprise web-based geographic information system application to more effectively distribute and communicate this information. This application (referred to as “WebGIS”) will serve as a central portal for ODOT personnel and the general public to access spatially referenced data. This RFI is intended to provide ODOT with descriptions of solutions which illustrate current best practices regarding web-based GIS applications.

III. Scope

The ODOT has identified some functionality which is desired for the WebGIS. The features identified at this time are (please note the desired functionality is subject to change):

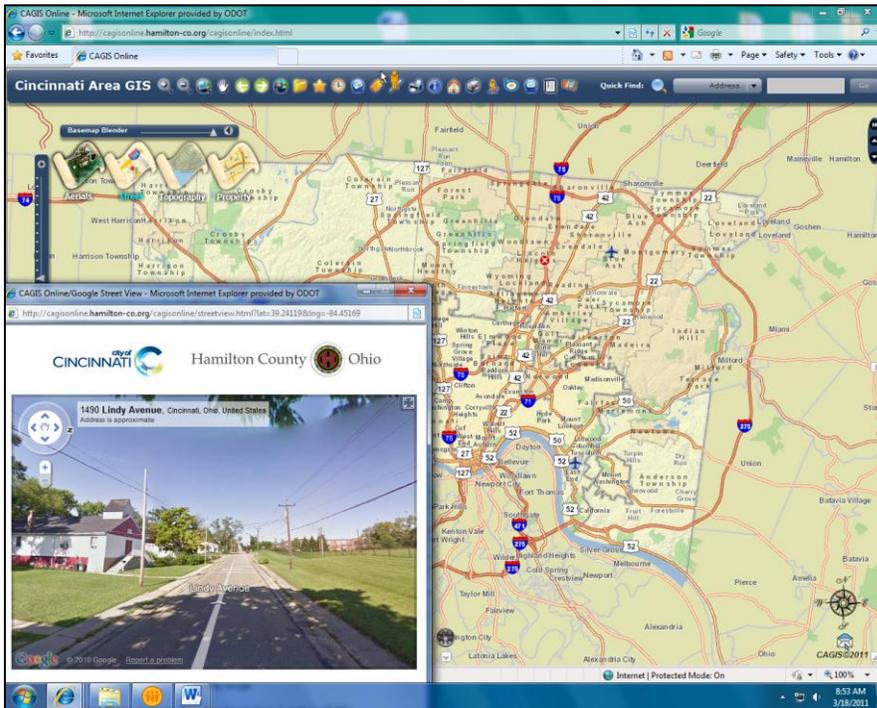
- Display map view of assets and their attributes (PCR values, road roughness, crash locations, traffic count data, etc.)
- Provide inset map for regional location of viewer focus
- Allow users to pan, zoom, and measure distances
- Identify and view attribute information
- Integrate satellite imagery
- Allow users to turn layers on and off enabling map customization for their individual purposes
- Perform data queries to locate specific aspects of the data (ex. Search by County log points to locate a road segment)
- Advanced data queries (ex. Graphically define a spatial query for selecting data)
- Employ user-friendly technology, enabling intuitive interaction with the application
- Allow users to print maps
- Export data to shapefile and Microsoft Excel formats
- Enable users to add their own data layers (shapefile or KML)
- Link to PathWeb according to user identified location
- Link to GIS viewer according to PathWeb user identified location
- Integrate Google Streetview
- Integrate available ESRI online basemap layers, including aerial imagery, topography, terrain, and shaded relief
- Allow ODOT personnel to easily update data layers as needed
- Allow users to identify errors or gaps in data, and provide a method for communicating these concerns to the OTS for review
- Robust “Help” section which details the functionality of the EGIS
 - o Provides method for routing data specific questions to appropriate person
- Integrate ODOT’s Linear referencing system
- Integrate ODOT’s Straight-Line Diagram web-application
- Integrate ODOT’s video-log viewer application (Pathweb)

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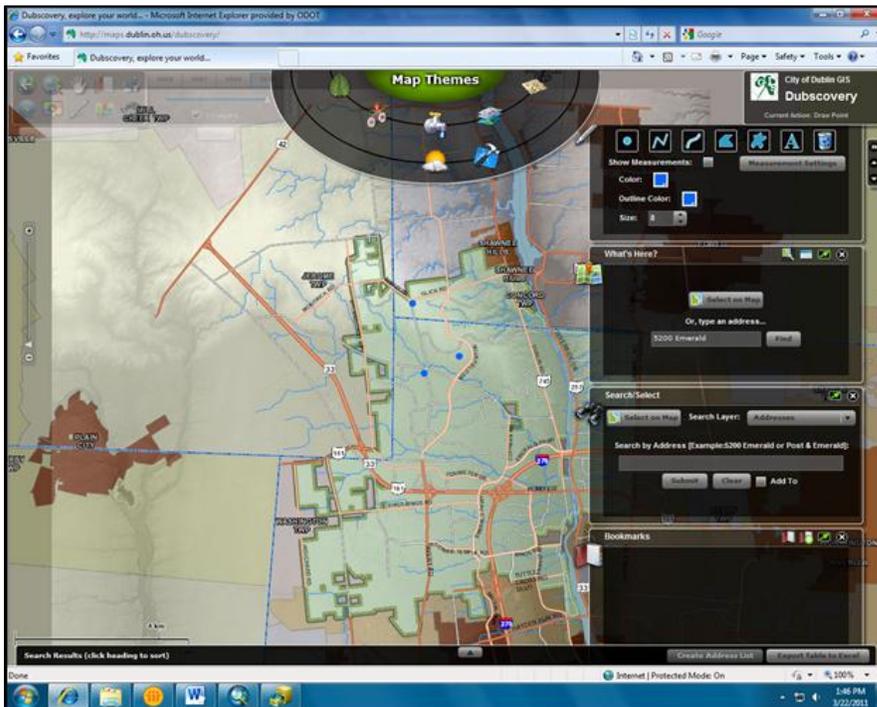


Examples of Similar Applications

Cincinnati Area GIS: <http://cagisonline.hamilton-co.org/cagisonline/index.html>



Dublin, Ohio GIS: <http://maps.dublin.oh.us/dubscopy/>



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IV. RFI Procedure

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

ODOT Office of Contracts
contracts.purchasing@dot.state.oh.us

Responses are due by May 20, 2011.



V. RFI Questionnaire

1. Respondent Information

Organization
Point of Contact
Phone Number
Email Address

This RFI Does include information considered a 'trade secret' Yes/No

2. Describe the advantages and disadvantages of current trends in web-mapping technologies (ex. Silverlight, Flex, Java, etc). Provide additional information regarding which is best suited for the application outlined in this RFI.

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3. Describe the hardware requirements for implementing a GIS web application for the scale of an organization such as the ODOT. Include minimum and ideal specifications.

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4. Outline a general process and timeline for developing and implementing an application similar to the one described in this RFI.

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5. Describe the maintenance and upkeep ODOT should expect with application similar to the one described in this RFI.