

DHSMV-RFI-035-19
ACTIONABLE PREDICTIVE ANALYSIS OF TRAFFIC INCIDENTS
ADDENDUM NO. 1

April 16, 2019

Item No. 1

Section 6.0 RESPONSE SUBMISSION, is hereby amended as follows (additions are underlined and deletions are ~~stricken~~):

The Vendor shall submit the following in pdf format:

1. One (1) **ORIGINAL** version (marked "Original") of the response submittal. ~~and six (6) COPIES (marked "copy").~~
2. One (1) **REDACTED** copy (marked "Redacted") of the response, if applicable. See Section 11.0 PROPRIETARY INFORMATION.
3. ~~One (1) electronic copy of the entire "Original" response, and one (1) redacted electronic response, if applicable, in Adobe (.pdf) on a USB flash drive.~~

~~Sealed packages to be delivered to the Department shall be clearly marked on the outside of the package with the RFI number and company name.~~ Vendors shall submit the RFI response to the Procurement Officer at the address indicated in Section 13.0, Procurement Officer

Item No. 2

Questions and Answers

Note: All written questions are reproduced in the same format as submitted by the Respondent.

Questions received on 4/5/19 from Euclid Infotech		
1.	Question:	I request you to provide us the following details before we buy the document: List of Items, Schedule of Requirements, Scope of Work, Terms of Reference, Bill of Materials required.
	Answer:	This is a Request for Information and any information obtained will be used for informational purposes only. The Department is not issuing a competitive solicitation at this time.
2.	Question:	I request you to provide us the following details before we buy the document: Soft Copy of the Tender Document through email.

DHSMV-RFI-035-19
ACTIONABLE PREDICTIVE ANALYSIS OF TRAFFIC INCIDENTS
ADDENDUM NO. 1

	Answer:	Please see the Department's response to Question #1.
3.	Question:	I request you to provide us the following details before we buy the document: Names of countries that will be eligible to participate in this tender.
	Answer:	Please see the Department's response to Question #1.
4.	Question:	I request you to provide us the following details before we buy the document: Information about the Tendering Procedure and Guidelines
	Answer:	Please see the Department's response to Question #1.
5.	Question:	I request you to provide us the following details before we buy the document: Estimated Budget for this Purchase
	Answer:	Please see the Department's response to Question #1.
6.	Question:	I request you to provide us the following details before we buy the document: Any Extension of Bidding Deadline?
	Answer:	Please see the Department's response to Question #1.
7.	Question:	I request you to provide us the following details before we buy the document: Any Addendum or Pre Bid meeting Minutes?
	Answer:	Please see the Department's response to Question #1.
Question(s) received on 4/9/19 from Timmons Group:		
8.	Question:	Can you provide an estimated size for each of the data sets mentioned in the RFI?
	Answer:	Because the datasets mentioned in the RFI are varied, DHSMV does not own all the data mentioned and understands that each solution may differ on data sets for learning requirements. This information cannot be provided prior to reviewing responses.
9.	Question:	Will FDOT be providing all of the data necessary for the project or will we be responsible for collecting some of the data required / needed?
	Answer:	DHSMV cannot commit the Florida Department of Transportation (FDOT) to providing any data. DHSMV will make a good faith effort to provide relevant data it controls for the purposes of any pilot. The respondent is free to request relevant data from other sources including the FDOT.
10.	Question:	Will data need to be purchased from outside vendors?

DHSMV-RFI-035-19
ACTIONABLE PREDICTIVE ANALYSIS OF TRAFFIC INCIDENTS
ADDENDUM NO. 1

	Answer:	There may be data sets, such as weather, that will be required to be purchased.
11.	Question:	Is FDOT looking for an application to easily build their own models? Or does FDOT want a portal that highlights areas, or stretches where accidents are more likely to occur at specific time and date ranges?
	Answer:	DHSMV cannot speak for FDOT; this is a DHSMV RFI. DHSMV is looking for a portal to provide geographic areas or road segments where crashes are more likely to occur at specific times. We are not looking for an application to build our own models.
12.	Question:	Will law enforcement enter data continuously to provide a feedback loop to continuously train and redeploy models?
	Answer:	In any procured solution, DHSMV will make a good faith effort to provide continuous data to enhance machine learning and improve predictive algorithms.
13.	Question:	Are accidents currently recorded with geospatial attributes such as longitude and latitude exploitations of accidents?
	Answer:	Yes.
14.	Question:	Will FDOT be looking for a classification model that locates arears or stretches of roads that are at high, medium, or low risk at specific time and date intervals, or is FDOT looking for a regression model that looks to predict the amount of accidents that will occur in areas or stretches of road during specific time and date intervals?
	Answer:	Please see the Department's response to Question # 11.
15.	Question:	Does the output of the model need to be easily explained with how the prediction was made, such as the path along a decision tree? or is a tradeoff of increase accuracy, sensitivity or specificity aloud for black box models like neural networks?
	Answer:	Accuracy, specificity, and sensitivity are the most important factors; the decision tree is not required except to identify inaccuracies.
16.	Question:	Are data samples available to access the level of cleaning and manipulation that needs to be done prior to sampling and modeling?
	Answer:	Certain data sets, like crash records, are publicly available.
Question(s) received on 4/9/19 from System Soft Technologies:		
17.	Question:	How is the traffic currently tracked? (At what granularity)
	Answer:	DHSMV does not currently track traffic counts – FDOT performs this function; DHSMV receives and makes available crash reports.
18.	Question:	To identify potential accident spots, we will need labeled data. Is there a history of accident data and the traffic situation during that time?

DHSMV-RFI-035-19
ACTIONABLE PREDICTIVE ANALYSIS OF TRAFFIC INCIDENTS
ADDENDUM NO. 1

	Answer:	Yes, traffic crash reports are available from DHSMV. FDOT maintains traffic count data. While DHSMV cannot speak for FDOT, the respondent is free to request traffic count information from FDOT.
19.	Question:	The goal is also to evaluate traffic situation during events. Does the FHP get notification about events currently?
	Answer:	The Florida Highway Patrol (FHP) responds to events when notified. FHP does not receive automated notifications.
20.	Question:	Is the system only for freeways or for all the roads?
	Answer:	FHP is seeking a system for all traffic crashes it may potentially respond to, which may include all roadways.
21.	Question:	Is there a current record of road conditions?
	Answer:	Road conditions are captured on traffic crash reports.
22.	Question:	Is there a current record of constructions being carried out (:and their progress)?
	Answer:	FDOT maintains information on road construction. While DHSMV cannot speak for FDOT, the respondent is free to request this information from FDOT.
23.	Question:	Do we know the schedule of schools and Universities?
	Answer:	School schedules are generally freely available and posted on public-facing websites. DHSMV does not currently keep a repository of school schedules.
Questions received on 4/9/19 from Blyncsy, Inc.		
24.	Question:	Will field personnel have internet access in patrol cars to access analyses?
	Answer:	Yes, all field personnel have laptops and mobile data.
25.	Question:	Is there a page limit for the response submission?
	Answer:	No.
26.	Question:	The RFI references Highway Patrol, is this system meant only for freeways/highways, or arterials and signalized intersections, or both?
	Answer:	Please see the Department's response to Question #20.
27.	Question:	Does the State plan to make existing sensor data, such as radar and loop detectors, available for this system? Will it be available in real-time?
	Answer:	FDOT hosts sensor data. While DHSMV cannot speak for FDOT, the respondent is free to request this information from FDOT.
28.	Question:	Is there a notification system already in place that this system would need to interface with, or should this system include a notification system?

DHSMV-RFI-035-19
ACTIONABLE PREDICTIVE ANALYSIS OF TRAFFIC INCIDENTS
ADDENDUM NO. 1

	Answer:	A notification system would be desirable but not required. There is not a current notification system in place for the FHP.
Questions received on 4/9/19 from SAS Institute, Inc.		
29.	Question:	What is the estimated total volume of data that will be used in the system?
	Answer:	The datasets mentioned in the RFI are varied, DHSMV does not own all the data mentioned and recognizes that each solution may differ on data sets for learning requirements, this information cannot be provided prior to reviewing responses.
30.	Question:	Can DHSMV define the cadence of your real time data analytics needs? Will new data be available and need to be processed every second, minute, hour, or something else?
	Answer:	New data can be made available every 5 seconds if required by the solution; however, this answer will be dependent on the solution proposed which would best suited to learn and evolve in its predictions.