Asset Mgmt – OTMS\GIS Project Request Form

DRAFT Approved by Steering Committee XXXXX

Project Code: ***(Completed by Project Team)*** **GIS 73**	**Project Name:** TOCS ArcGIS Server Web Map and Utilities - Phase 1	**Complexity** ***(Completed by Project Team)*** Medium

Summarized Purpose & Objectives:

The Traffic Operations Center coordinates highway crew incident response and tracking of these events. Currently this function exists in a tabular system with no map interface. To direct the correct response teams to the proper location, rapidly and with confidence, a GIS Map interface is essential.

Additionally, GIS data as reference in a map:

- Provides accurate location of incidents with visual confirmation.
- Reduces the need for costly and time consuming searches based on a wide variety of descriptions.
- Creates an environment of consistent and current data with other ODOT programs and external partners such as Oregon State Police Computer Aided Dispatch.
- Provides for additional evaluation of circumstances such as environmental hazards, proximity to schools and other public venues, waterways, etc.
- Expedites the population of various data for input into the event tracking system and accounting databases by using GIS to extract as much data as possible.

Sponsor/Title:
TOCS
Galen McGill
Rod Kamm
Patrick Hoke

Deliverables:

- Contractor: Seek input from the consumers of the application and supporting business units.
- GISU and IS TAD: Provide technical advice and knowledge of ODOT standards and data availability. Participate in the review of contractor documents and subsequent action plans.
- Contractor: Develop the TOCS ArcGIS Map interface for an intranet environment as a partner to the existing TOCS system.
- Contractor: Add dynamic layers to support incident location, response time and provide additional information such as weather conditions.
- GISU: Provide cached basemaps – streets, aerial overlay, terrain
- GISU: Provide dynamic GIS layers
- Contractor: Conduct, with IS TAD, initial data population on TOCS GIS servers.
- GISU: Develop and meet requirements of Data Agreement to support application maintenance.
- GISU: Develop Data Update Process Diagram (SWIM Chart).
- GISU: Develop and maintain metadata for layers defined in the data agreement.
- Contractor: Develop application test matrix and enhancement feedback mechanism.
- TOCS staff: Develop and deliver training and support feedback mechanism.

Importance:
High Importance

Business Benefits: *(Please Provide justification of the indicated Importance ranking)*

- The TOCS incident response/dispatch technicians will have visual confirmation of location determination.
- Data will be consistent between ODOT TOCS and OSP dispatch.
- GIS data updates will be scheduled and reliable.
- Many unique features of the highway system will be addressed by using a map interface rather than deciphering tabular information or creating a work-around which typically addresses only a single issue.
- Additional information about the incident location can be observed, allowing for proper dispatch equipment and team and preventing or decreasing the impact of hazardous conditions.

Consequences: *(If the project is **not** approved)*

- Delay in ability to locate incident could result in loss of life or delayed hazard response.
- Inaccurate incident location resulting in loss of life or delayed hazard response.
- Lack of additional location data may result in inappropriate or inadequate resources .
- The current system does not meet current data and application standards. It will become impossible for

partner systems to continue to support a non-GIS, non-graphic location search mechanism.

To be Completed by Project Team

Assumptions:

- GIS and business resources will be available throughout the project
- Available data can support the needs of the project.

Risk:

- Successful implementation depends upon effectively training users.
- Development resources may not be available, but contracted resources may fill the void and will need to be managed.

Dependencies: *(Relationship to other projects)*

Estimated Project Funding Needed:

Funds Available: None identified

Projected FTE Effort	**Months**	
GIS Project Manager	1.50	
Analyst	1.00	
Developer	0.00	**Date Needed:**
Database Administrator	0.50	
Tech. Management	0.50	**Total Duration Of Project:**
Business	1.00	
Total	4.50	