



Memorandum

Subject: **ACTION**: MI – FY15 STIC Incentive Program

Date: July 13, 2015

From: Mary Huie /*original signed by*/
Program Coordinator,
Center for Accelerating Innovation

Reply to
Attn. of: CAI

To: Russell L. Jorgenson
Division Administrator
Lansing, MI

Per your request on July 9th, the allocation of \$100,000 in STIC Incentive is hereby made for development of a comprehensive set of data collection standards and other informational materials to continue advancing Geospatial Utility Infrastructure Data Exchange (GUIDE) implementation statewide.

In accordance to the program guidance, a progress report on the project is due every 6 months followed with a final report when the projects are completed.

This memorandum authorizes the Michigan Division to obligate FY 2015 funding from program code M37B (Delphi Code 15X0445060) up to the allocated amount of \$100,000. The STIC Incentive fund includes a 100 percent obligation limitation. This allocation and the accompanying obligation authority are available only for the specific projects listed above.

By copy of this memorandum, we request that the Finance Division - FMIS Team of the Office of the Chief Financial Officer process this allocation.

Cc: FMIS Team
Ted Burch
Marlys Osterhues
Scott Wolf
Michael Rosenstiehl
Eric Spriggs

STIC Incentive Application

Michigan Department of Transportation

July 09, 2015

General Information:

Beginning in 2013, the Michigan Department of Transportation (MDOT), in partnership with the Michigan Utility Coordination Committee (MUCC), collaborated on a pilot initiative titled Geospatial Utility Infrastructure Data Exchange (GUIDE). During the 2013 calendar year, the MUCC developed a Draft Requirements Document for use in its 2014 pilot field implementation study involving three of the state's largest utilities: AT&T, Consumers Energy and DTE Energy. Together these utilities performed a total of 7 planned new facility installations and piloted the work associated with collecting quality geospatial data identifying the accurate location of the newly installed underground facility. The geospatial data was then provided to MDOT for inclusion in an enterprise spatial database built in ESRI's ArcGIS Online (AGO). MDOT also did proof of concept exploration with the workflow, using generic output formats available in ESRI AGO, from the enterprise spatial database to 3D design.

In 2014, MDOT secured State Transportation Innovation Council (STIC) funding from the Federal Highway Administration (FHWA) to work with the MUCC on its GUIDE initiative. The funding was used to hire a consultant in order to comprehensively document the GUIDE pilot. The [2014 GUIDE Pilot Initiative Report](#) was completed in March of 2015. This report thoroughly documents the MUCC GUIDE pilot initiative including key findings, benefits, lessons learned and future next steps. The STIC funding used to create the 2014 GUIDE Pilot Initiative Report has been completed and closed.

Obtaining accurate utility information is essential for transportation infrastructure projects. Collecting and maintaining geospatial data needs to be standard practice for all underground utilities located within the public right-of-way. GUIDE presents an enterprise focused solution for meeting the challenges of collecting, maintaining and using accurate utility information. The GUIDE report recommended next step is to continue the refinement and development of an all-encompassing GUIDE requirement documents, which would ultimately position MDOT to move from a pilot to a proof of program.

1. Provide a brief description of the proposed work:

To achieve a sustainable, mature approach to the collection of underground utility data, MDOT is promoting rigid collection standards and a highly accessible, secure spatial data repository. For successful implementation, we are looking to expand our GUIDE pilot towards a comprehensive set of collection standards as well as other necessary informational materials in order to continue GUIDE advancement.

The proposed work involves hiring a qualified consultant to create the following GUIDE deliverables:

- Comprehensive requirements documents for statewide implementation
- Documented data schema for all underground utilities

- Template data collection files
- Recommended QA/QC steps
- Recommended data management workflow
- High quality infographic literature
- Training videos

MDOT will provide semi-annual status reports and a close-out summary report to FHWA at project completion.

Similar to the GUIDE pilot, MDOT will continue to coordinate the STIC incentive funding with the MUCC. The MUCC will serve as an advisory panel for decisions impacting membership's standard business practices.

2. Amount of STIC Incentive Funds Requested:

Requesting \$100,000 in STIC incentive funds.

$\$100,000 \div 80\% = \$125,000$ total project costs.

Funding Source	Amount	Percentage of Total (\$125,000)
FHWA STIC Funds	\$100,000	80%
MDOT Matching Funds	\$25,000	20%
Total	\$125,000	100%

3. Project Schedule:

The proposed project schedule is based upon a September 1, 2015 authorization of funding.

Phase	Activity	Anticipated Completion
1	Scope Development, RFP, & Consultant Selection	November 1, 2015
2	Draft Deliverables from Consultant	June 1, 2016
3	Final Deliverables from Consultant	December 1, 2016

4. Commitment of Other Funds:

MDOT will contribute the required matching funds.

5. Project Administration:

MDOT will provide all project administration.

6. Will the TIDP funds be obligated and reimbursable work performed within six months of the date the funds are made available? (Y/N and include the estimated Obligation Date and to whom)

The funds would be obligated within six months upon being available. MDOT would need to create an RFP for the contract services. The estimated obligation date is September 1, 2015. Full reimbursement to the consultant would extend beyond six months.

7. Indicate where in the STIC implementation plan the project work is referenced.

The proposed GUIDE informational materials will be an invaluable resource in accurately documenting the collection and maintaining of geospatial data for permitted underground utility installations. These materials will be instrumental in advancing MDOT's progress in GUIDE principals, greatly assisting MDOT in moving forward from pilot to proof of implementation at a Region or Transportation Service Center (TSC) geographic area.