



STATE OF MICHIGAN

DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET

LANSING

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Subject: Michigan Geographic Framework Technology Upgrade Project

TO: Users of the Michigan Geographic Framework

FROM: Mark Holmes, DTMB's Center for Shared Solutions, Geospatial Services Manager

The Department of Technology, Management and Budget's (DTMB) Center for Shared Solutions (CSS) is undertaking a technology project to upgrade the current Michigan Geographic Framework Editing Environment (MGFEE) to allow for more data interoperability between agency business systems and the Michigan Geographic Framework (MGF). The system upgrade will also implement the Governor's Enterprise Information Management (EIM) principles of shared data stewardship and single statewide repository for shared master data.

The MGF is the official base map and master Geographic Information Systems (GIS) data store that comprehensively represents the road network, hydrography, political and jurisdictional boundaries within the State of Michigan. It serves as a common and standardized GIS data infrastructure on which all GIS users can apply location based data and integrate into their business systems. The MGF provides state agencies and other partners with data management tools to integrate their business data to keep data standardized and consistent with statewide base maps while benefitting from enterprise workflow management and business rules.

The MGF has existed for 16 years and has become a staple for many internal and external systems that consume, analyze and display this data in conjunction of their own GIS information. In alignment with the Governor's EIM directive for sharing and interoperability – MGF will continue to exist as the master repository system for GIS data that is of use to more than one state and non-state entities. Shared master data needs to be centrally governed and the MGF has been recognized as a framework model for standardization and data integrity that are guiding principles that facilitate data coordination between the State of Michigan agencies, federal and local governments, and the citizens. CSS will be upgrading technology to modernize the MGF environment to meet the following objectives:

- Continue to provide the common geospatial foundation for state agencies and partners to have a reference source and standards for creating, combining and sharing data in a consistent and reliable form.
- Implement ESRI's Roads and Highways in collaboration with the Michigan Department of Transportation (MDOT) as the technology in which to manage the master Linear Referencing System (LRS) for the statewide road network.
- Continue to act as a shared environment for the use by all State agencies and local partners, and provide a standard framework driven by EIM for master data.
- Increase opportunities for data stewardship improving data interoperability across systems by providing state agencies and other partners more flexibility for integration with the MGF.
- Implement processes for the publication of MGF data on more frequent cycles to a geospatial repository.
- Continue the effective management of business rules and topology to maintain the required data integrity across datasets and improve workflow management for data editing and data management across the enterprise.
- Facilitate the creation of a Steering Committee for Enterprise GIS that comprises stakeholder entities that have relation with the MGF.

CSS will deliver MGF version 17 in the current format in early 2017 and then begin to transition MGF data deliverables to the newer technology throughout the following year. If you would like to discuss MGF upgrades and impacts to data models, deliverables, migrations, and overall technology changes please contact Mark Holmes, Geospatial Services Manager for the Center for Shared Solutions at 517-241-6469 or holmesm3@michigan.gov.