MDOT TSMO Program
DTMB IT Support

Collin Castle (MDOT)
1. MDOT TSMO Strategic and Implementation Plan
   - Align MDOT/DTMB Business Process

2. Dedicated DTMB ITS Staff
   - Cybersecurity (Software/Hardware)
   - Telecommunications
   - Software Delivery Project Manager

3. MDOT ITS Network Cybersecurity Assessment
   - Software Keylight
   - ITS Field Network Scans

4. DTMB Software Procurement
   - Central Signal Control Software (CSCS)
   - Advanced Traffic Management System Software (ATMS)
MDOT TSMO Strategic & Implementation Plan
MDOT TSMO
Strategic Areas of Focus

1. Evaluate and Streamline IT Processes
2. Integrate Ops Across All Business Areas
3. Integrate the Ops of ITS and Signals
4. Adapt Processes, Products and Training
5. Enhance Communications & Outreach
6. Prioritize Resources to Meet Needs
7. Drive Progress w/ Perf. Measure
### MDOT TSMO
**Improve IT Processes/DTMB Collaboration**

1. **DTMB ITS Support**
2. **Pilot Collaboration**
3. **Integrate IT CFP**

#### Accomplishments To-Date

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<tr>
<th>Commonality Area (CA)</th>
<th>Action Description</th>
<th>MDOT Staff</th>
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| 1. Improve IT Processes and MDOT-DTMB Collaboration | Developed an on-going matrix to track and maintain actions, defining 3 actions:  
- Action 1: Establish and develop DTMB ITS support team  
  - Hired and assigned an Automation Manager to fully support TSMO activities.  
  - Gained executive approval and funding to build DTMB ITS technical support team.  
  - Hired and assigned Cyber Specialist and Project Manager.  
  - Implemented Lean Process Improvement (LPI) for the SafeStat replacement project.  
- Action 2: Pilot potential changes to ITS-DTMB collaborations such as: 1) letting ITS work (Centralized Signal Control System CSCS) through DTMB contracting process, and 2) putting ITS endpoint devices in the SOM Verizon VPN cloud. <On-going work>  
- Action 3: Integrate ITS IT with the DTMB/MDOT Call for Projects process.  
  - Established a preapproved DTMB template for the networking of Internet of Thing (IoT) devices. | Spike Fuehr, John Jersey, Andy Esch, Collin Castle |
Dedicated DTMB ITS Staff

- **Cybersecurity (Software/Hardware)**
  - Access the Cybersecurity of:
    - ITS Communications Network (Fiber, Wireless, Cellular)
    - ITS Field Hardware (ITS, Signals, Mobile)

- **Telecommunications**
  - Manage ITS Communications Network
  - IP Address Allocations
  - Private Cellular Network Establishment

- **Software Delivery Project Manager**
  - Manage Software Requirements Development
  - Manage Software Delivery Projects
MDOT ITS Network Cybersecurity Assessment

- **Software Security Assessments**
  - Establish Data Classification
  - Identify Software Vulnerabilities
  - Grant Authority to Operate (ATO)

- **ITS Field Network Security Scans**
  - Implemented by Michigan Cybersecurity
  - Scan Network/Hardware for Vulnerabilities
  - Assist in Developing Risk Matrix/Plan of Action
DTMB Software Procurement Support

MDOT Delegated Authority

MDOT/DTMB Co-Lead Procurement
- User Needs Collection
- Software Requirement Development
- Concept of Operations
- Procurement Document Development
- Procurement Management
- Software Delivery Management
- Software O&M Management

Successful Delivery
- Central Signal Control System (CSCS) Software

In-Process
- Advanced Traffic Management System (ATMS) Software
Lessons Learned

- BE CLEAR ON YOUR NEEDS
- EMBRACE SUBJECT MATTER EXPERTS
- EDUCATE STAFF ON VALUE
- COLLABORATE
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