Motorist Modernization Advisory Board – Phase II Monthly Meeting
November 14, 2017
Neil Kirkman Building, Conference Room B-201
2900 Apalachee Parkway, Tallahassee Florida 32399
2-4 p.m., EST

Invitees
Stephen Boley
Jason Britt
Diane Buck
Jay Levenstein
Trisha Williams
Lisa Cullen
Joe de la Viesca
Karyn Wrye
Jim Taylor
Christie Utt

Representing
DHSMV
DHSMV
DHSMV
DHSMV
DHSMV
Florida Tax Collectors
Florida Tag Agency
Cox Automotive
Auto Data Direct
Legal

Agenda
• Roll Call
• Welcome & Introductions
• Overview of the Motorist Modernization Project
• Sunshine Law Review
• Advisory Board Purpose
• Approval of the Advisory Board Charter
• Motorist Modernization Requirements Gathering Process
• MM Phase II Project Overview and System Functionality
• Comments and Questions
• Wrap Up / Next Steps
• Adjourn
Motorist Modernization Program (Phase II)

State of Florida Department of Highway Safety and Motor Vehicles (DHSMV)

Independent verification and validation (IV&V)

Project overview

14 November 2017
Topics for discussion

- Background
- Out-of-scope items
- IV&V project organization
- Overall approach to providing IV&V services
- IV&V assessment framework
- Baseline assessment
- Monthly assessment
- Focused assessment

- General approach for collecting and analyzing project information
- Traceability between collected data and analysis results
- IV&V analysis report structure
- IV&V project deliverables
- IV&V meetings and communication
- Supporting tools and enablers
DHSMV intends to re-engineer all of its motorist services systems in order to better serve and support its customers.

DHSMV has contracted with Ernst & Young (EY) to provide independent verification and validation (IV&V) services to monitor and evaluate critical aspects of the project as an unbiased, independent reviewer reporting directly to the Executive Steering Committee.

- Review and evaluate all aspects of the projects that will comprise Phase II of the Motorist Modernization (MM) Program.
- Provide analysis, feedback, and suggested improvements to support the quality and success of the MM Program.
- Conduct verification and validation regarding the quality of the work products produced by the Department and any selected vendor.
- Conduct baseline and monthly assessments to provide evaluations and assessments of the MM Program.
Out-of-scope items

- Performance of any code reviews or system testing.
- Security review and penetration testing.
- Issuance of an opinion or other form of assurance, as defined by the American Institute of Certified Public Accountants (AICPA), on any financial information related to the project.
- The rendering of an attestation or assurance report or opinion, including an audit, review or examination of financial statements in accordance with generally accepted auditing standards, an examination of prospective financial statements in accordance with applicable professional standards, or a review to detect fraud or illegal acts. None of the services or any reports will constitute any legal opinion or advice.
IV&V project organization

Florida Department of Highway Safety and Motor Vehicles

Ken Thomas  
*Florida Partner*

Jeff Sopshin  
*Engagement Partner*

Dawn Woods  
*Tallahassee Office Leader*

Gary Didio  
*IV&V Project Manager*

**IV&V Team**
- Alyene Calvo
- Chris Wade
- Colin Stephens

**IV&V SMRs**
- Brian Woods
- Joe Horgan
- Others as required
Overall approach to providing IV&V services

Motorist Modernization Program (Phase II)

Stage 1

Stage 2

Stage n . . .

IV&V project

Baseline assessment

Month

Month

Month

Month

Month

Month

Month

Month

Focused

Focused

Focused

Proactive formal and informal communications on identified risks – No surprises!
IV&V assessment framework for identifying program risks

The ratings for each area are based on the following criteria:

- **Indicates that the area being assessed has critical issues that will result in significant risk to the project most likely resulting in either the inability to achieve the outcomes, inability to meet the projected schedule, or a significant cost over-run. Requires immediate action.**

- **Indicates that the area being assessed has issues that need to be resolved; inefficiencies exist. Current process/method can be used with refinement.**

- **Indicates that the area being assessed did not have significant issues to report. Continued monitoring should be performed.**

- **Indicates that the area being assessed has incomplete information available for a conclusive finding or is not applicable.**

The facet colors are for illustration only and are not representative of the Motorist Modernization Program.
The baseline assessment provides an initial assessment of the MM Program (Phase II)

Baseline Assessment Report (BAR)

- Documents an initial assessment of the MM Program (Phase II) within the program governance, project management, and technical solution dimensions against which the project progress and project deliverables can be measured.
- Also used to determine whether the key project management components are in place to manage the MM Program (Phase II).
The monthly assessment provides ongoing monitoring of the MM Program (Phase II)

Baseline assessment

The monthly assessment provides ongoing monitoring of the MM Program (Phase II)

Baseline assessment

Month — Month — Month — Month — Month — Month — Month — Month

Focused — Focused — Focused

Monthly Assessment Report (MAR)

► Provides a summary of the findings and recommendations resulting from ongoing monitoring activities.

► Also summarizes the assessment of the project organization and project management activities as well as describes how each key project characteristic has evolved since the last report (baseline or prior MAR).
The focused assessment provides deep-dive analysis of key MM Program (Phase II) deliverables

Deliverable Review Report (DRR)
- Provides an assessment of deliverables being reviewed and/or submitted during the reporting time period.
- Specific areas include: accuracy, completeness, adherence to contractual and functional requirements, feasibility, consistency with overall project and other deliverables, deficiencies, errors and omissions, recommended improvements and remediation.
Our general approach involves collecting and analyzing project data using our framework and tools.

Our fact-based approach utilizes proprietary EY tools coupled with advanced analytical simulations, frameworks and other enablers that provide a quantitative basis for conclusions.

- Forward looking
- Encompasses the entire lifecycle,
- Identifies issues prior to the onset of symptoms

Data Analysis

- Adapted based on complexity
- Considers the interrelated dimensions of cost, schedule, scope, quality, organization and benefit realization
- Predicts likely program outcomes
- Determines what corrective actions will yield the greatest long term benefits

Quantified predictive impact on risks

Root-cause analysis

Sequenced remediation plan

- Current state
- 30-day focus
- 60-day focus
- 90-day focus

1. Governance structure is ineffectively executed
   - Organizational change management is not explicitly planned
   - The governance priorities, constraints and criteria for trade-off decisions for the program are not well defined, consistently applied nor aligned

2. Program implementation approach is unproven
   - Cost management is not integrated into the program
   - Reliance on self-funded resources and poor vendor management
   - Program management is ineffectual
   - Program implementation approach is unproven

3. Governance structure is ineffectively executed
   - There is a lack of agreement between the program and GTI operations regarding post-activation operational staffing levels
   - There is little evidence that executive leadership is actively reinforcing the organization's commitment to GSM as a key element of GTI's future

4. GTI operational management is ineffectively engaging their resources to communicate the impact of the GSM on their current roles
   - Poor basis for planning
   - Unclear priorities

Activities in the integrated program plan are constantly changing and not integrated with resources and costs

Key activities and deliverables are not complete or represented in the current integrated program plan

There is a lack of agreement between the program and GTI operations regarding post-activation operational staffing levels

There is little evidence that executive leadership is actively reinforcing the organization's commitment to GSM as a key element of GTI's future

Adapted based on complexity
- Considers the interrelated dimensions of cost, schedule, scope, quality, organization and benefit realization

Predicts likely program outcomes
- Determines what corrective actions will yield the greatest long term benefits

Forward looking
- Encompasses the entire lifecycle,
- Identifies issues prior to the onset of symptoms

30-day focus
60-day focus
90-day focus

Current state
30-day focus
60-day focus
90-day focus
There is complete traceability between collected data and analysis results

- Collect and review initial set of project artifacts to determine overall project complexity (steps 1 and 2).
- Project complexity determines expectation and target maturity to appropriately manage risk (step 3).
- Expectations determine artifacts to be collected and interviews to be conducted (steps 4 and 5).
- Observations are made based on collected data and expectations (step 6).
- Observations are used to determine the current maturity for all facets evaluated (step 7).
- Findings are derived from observations (step 8).
- Root cause analysis determines key items (positive and negative) driving overall project performance (step 9).
- Deficiencies derived from negative root causes (step 10).
- Recommendations and corrective actions developed for identified deficiencies (step 11).
Baseline and monthly reports include all analysis results and supporting information.

**Main body**

- **Abstract**: Single-page overview including background, results, implications and recommendations
- **Executive summary**: Major project characteristics, risks, findings, and recommendations for addressing deficiencies
- **Introduction**: Brief overview of the client project and the assessment report
- **Findings and recommendations**: Findings, deficiencies, and associated suggestions for correction
- **Project assessment**: Detailed results of conducting the assessment based on the assessment framework
- **Root cause analysis**: Contains the results of the root cause analysis based on the overall project assessment
- **Detailed reviews**: Supporting reviews including project milestones, budget, maturity, and project schedule

**Appendices**

- **Detailed reviews**: Supporting reviews including project milestones, budget, maturity, and project schedule
## IV&V project deliverables

<table>
<thead>
<tr>
<th>Category</th>
<th>Deliverable</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV&amp;V project management</td>
<td>Kickoff presentation</td>
<td>During IV&amp;V project initiation</td>
</tr>
<tr>
<td></td>
<td>Project charter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project management plan (PMP)</td>
<td></td>
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<tr>
<td></td>
<td>Phase II baseline schedule</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Status reports</td>
<td>Weekly</td>
</tr>
<tr>
<td></td>
<td>Meeting minutes</td>
<td>After each formal IV&amp;V project meeting</td>
</tr>
<tr>
<td>IV&amp;V assessment reports</td>
<td>Baseline assessment report (BAR)</td>
<td>Once</td>
</tr>
<tr>
<td></td>
<td>Monthly assessment report (MAR)</td>
<td>Monthly</td>
</tr>
<tr>
<td></td>
<td>Deliverable review reports</td>
<td>Various</td>
</tr>
</tbody>
</table>
# IV&V meetings and communication

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Informal communications</strong></td>
<td>► Ongoing, real-time and strategic advice as well as thought leadership throughout the execution of the IV&amp;V project.</td>
<td>► Ongoing</td>
</tr>
<tr>
<td><strong>IV&amp;V project weekly status report</strong></td>
<td>► Identifies the current status of the IV&amp;V project, including activities, issues, risks, work product status, action items and an updated schedule, if necessary.</td>
<td>► Weekly</td>
</tr>
<tr>
<td><strong>IV&amp;V project status meeting</strong></td>
<td>► Review status, issues and risks, potential delays, new requirements and overall IV&amp;V project satisfaction.</td>
<td>► Weekly</td>
</tr>
<tr>
<td><strong>Monthly meetings</strong></td>
<td>► Meet with the Department’s Governance Boards and Executive Steering Committee monthly to discuss findings, opportunities for improvement, and recommendations.</td>
<td>► Monthly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>► Finalized and agreed to by the Department and EY upon contract award</td>
</tr>
<tr>
<td><strong>Interviews</strong></td>
<td>► Conduct interviews with project managers and staff members of the user and stakeholder groups, application developers, and management on a regularly scheduled basis.</td>
<td>► Finalized and agreed to by the Department and EY upon contract award</td>
</tr>
<tr>
<td><strong>Critical project events</strong></td>
<td>► Attend and present at critical project events, as defined by the Department’s Contract Manager.</td>
<td>► Finalized and agreed to by the Department and EY upon contract award</td>
</tr>
<tr>
<td><strong>Meeting minutes</strong></td>
<td>► Document any formal meeting conducted and includes attendees, invitees not present, information shared during the meeting, action items with due dates and owners, and decisions required.</td>
<td>► Provided within three (3) business days upon completion of any formal meeting</td>
</tr>
</tbody>
</table>
## IV&V project meetings and communications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Formal presentations</strong></td>
<td>► Provide public presentation(s) when requested by the Department’s Contract Manager.</td>
<td>► As requested</td>
</tr>
<tr>
<td></td>
<td>► As requested</td>
<td>► Finalized and agreed to by the Department and EY upon contract award</td>
</tr>
<tr>
<td><strong>Exception report</strong></td>
<td>► An exception report is generated immediately when it is determined that circumstances exist that put the scope, budget, schedule or viability of the project at significant risk.</td>
<td>► As required</td>
</tr>
<tr>
<td></td>
<td>► These circumstances may involve issues of project structure, governance or management.</td>
<td></td>
</tr>
<tr>
<td><strong>IV&amp;V analysis reports</strong></td>
<td>► Formal reports provided to the Department.</td>
<td>► Various</td>
</tr>
<tr>
<td></td>
<td>► Provide analysis, feedback, and suggested improvements to the Department’s Executive Steering Committee, Governance Boards, and other stakeholders to confirm the quality and success of the Program.</td>
<td>► Finalized and agreed to by the Department and EY upon contract award</td>
</tr>
<tr>
<td></td>
<td>► Conduct verification and validation regarding the quality of the work products (deliverables) produced by the Department and any selected vendors related to Phase II of the Program to confirm they meet the expectations of the Department and its customers, as well as State of Florida requirements.</td>
<td></td>
</tr>
</tbody>
</table>
Supporting tools and enablers

WBS analysis

Quantitative schedule and cost confidence simulation

Project schedule quality

EY Project Schedule Analysis Program

Program governance
Benefit realization and sustainability

The "cube"

IV&V assessment framework

Project management
Processes, controls, and predictability

Technical solution
Requirements development, quality and transition

Project performance metrics analysis

Project milestone analysis
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Document Purpose
The purpose of this document is to describe the requirements gathering process used by the Department to re-engineer existing legacy systems.

Overview of Requirements Gathering Process
The process is designed to ensure required functionality is included in the system. The steps within the process are as follows:

- Document existing functionality and business rules.
- Document requested functionality.
- Perform gap analysis, business process and policy review.
- Categorize functionality.
- Write software requirements.
- Create application mockups.
- Determine effort.
- Perform stakeholder review.
- Validate and approve requirements.
- Prioritize requirements and determine milestones.
- Finalize acceptance criteria and business rules.

To support this effort, the Department is utilizing Blueprint, which is a requirements gathering tool. Blueprint allows business analysts to create a central repository for all system requirements, business processes and business rules, in addition to generating requirements specifications. The Blueprint repository contains the following:

- Business rules for software requirements.
- Supporting technical documentation.
- References to federal and state rules and regulations.
- Internal policies and procedures.
- Business processes and workflow diagrams.
- Glossary of terms and acronyms.

Blueprint will provide the necessary traceability (i.e., a specific requirement was created because of a specific business rule, federal or state law) and system documentation for the motorist systems’ development efforts.

Document Existing Functionality and Business Rules
Since most of the functionality of the current system being re-engineered needs to exist in the new system, and the current system has not been fully documented, staff will reverse engineer the old system by going through the source code and documenting functionality. Reverse engineering the existing source code ensures required functionality and rules are not overlooked when generating the new requirements. During this process, the existing business rules are also documented for review and approval by the Division of Motorist Services.
**Document Requested Functionality**
Requests for new functionality and identification of problems within the existing system were gathered through extensive stakeholder outreach via meetings, workshops and surveys. Feedback has been elicited from both internal and external stakeholders in order to collect as much input as possible.

**Gap Analysis, Business Process and Policy Review**
A gap analysis is performed on the old functionality and any new requested functionality. The Division of Motorist Services is also tasked with providing feedback on possible improvements to current business rules, in addition to determining whether or not policies and processes are still applicable, or if they can be improved upon. Any process improvements are documented.

**Categorize Functionality**
As the system owner, the Division of Motorist Services is tasked with categorizing the existing and proposed functionality as either “Planned,” “Not Planned” or “Deferred.” Functionality categorized as “Planned” indicates the functionality needs to exist in the new system. Functionality categorized as “Not Planned,” indicates the functionality will not be included in the new system. Functionality categorized as “Deferred,” indicates the request is currently out of scope and will be addressed in the future. In addition to categorizing the functionality, comments are also added explaining the reasoning behind the categorization. This information is distributed to various stakeholders in the effort to create a transparent process.

**Write Software Requirements**
Existing and proposed functionality categorized as “Planned,” are converted into functional requirements (User Stories), which will be provided to the developers through Blueprint. Each User Story contains three distinct pieces of information.

1) Role – Who will be performing the function?
   a. e.g., Driver License examiner.

2) Function – What functions does the system needs to perform
   a. e.g., Can take a photograph.

3) Benefit – Why the function is needed.
   a. e.g., To comply with DL issuance requirements.

In addition, each User Story will include “Acceptance Criteria.” Acceptance Criteria need to be met prior to the developer stating the requirement has been completed. Acceptance Criteria is generally entered when the requirement is created, but will often be fine-tuned throughout the development process.

**Determine Effort**
Requirements are presented to the software developers during the course of several meetings and the developers are tasked with estimating the anticipated duration for coding. This time estimate is used for resource planning and refining the project schedule.
Create Application Mockups
Screen mockups and wire framing are created from the requirements to demonstrate how the application will look and what the system workflow will be.

Stakeholder Review
The application design is presented to various stakeholders, including the Division of Motorist Services, as an opportunity to collect feedback and any necessary changes.

Validate and Approve Requirements
Once feedback from stakeholders has been collected, and requested changes are considered, the requirements are sent to Motorist Services for approval.

Prioritize Requirements and Determine Milestones
Approved requirements are prioritized by Motorist Services and technical staff in an effort which makes sense from both a technical and business perspective. Requirements are then broken up into Milestones, which will be delivered to Motorist Services staff for User Acceptance testing.

Finalize Acceptance Criteria and Business Rules
Acceptance criteria and business rules for the functional requirements are finalized and fine-tuned by business analysts and Motorist Services staff in the order the requirements are prioritized. This fine-tuning is spread out over the life of the system development lifecycle because of the amount time and number of meetings required to finalize and document these details.
Motorist Modernization Glossary

- **Approved**
  - Development and/or testing are approved to work on the story and plans to complete the tasks added in the sprint.

- **Burndown**
  - Sprint tracking tool that shows the total original estimated hours verses the remaining hours measured against the sprint timeline to graphically depict the progress of the team during the current sprint.

- **Capacity**
  - Calculation of the hours of available work by task type for a sprint. Typically calculated at 80% of the day or 6-hour work days per person.

- **Committed**
  - Development and testing can both be completed in the sprint based on the capacity each group commits and the level of effort for the associated stories.
  - Development stories completed in a previous sprint, which only require testing and the testers agree to testing the stories during the sprint.

- **Completed Work**
  - The hours of work completed on the task.

- **Dev Status**
  - Possible statuses –
    - **Not Started**
      - Development has not yet started.
    - **Dev Started**
      - Development has begun.
    - **Dev Done**
      - QA can start testing. The developers have already completed deployment to Alpha and the functional testing tasks are complete.
      - QA testing should not start before a story is marked Dev Done and SEU testing (excluding building test cases) should not start before a story is marked Ready to Test.
      - The developer who completed the functional testing is responsible for marking the story Dev Done.
    - **Ready to Test**
      - SEU can start testing. QA has already completed testing and the application has been deployed to Beta and verified.
    - **Testing in Progress**
    - **Testing Blocked**
    - **Testing Complete**
      - Blocked Task
- Task that is not yet assigned due to dependencies, or an assigned task that cannot be worked to completion due to dependencies, whether in development or testing. A blocked task is not necessarily an impediment.
  - **Bug**
    - Error in program code that causes it to produce an incorrect or unexpected result based on the requirement.
  - **Impediment**
    - An obstacle to development or testing task completion that cannot be resolved within a workgroup (Developers, Testers or Business Analysts) within a project task.
  - **Done**
    - The story or functionality has been developed and tested and received product owner sign off.

- **Functionality/Stories**
  - A high-level definition of a requirement, capturing the who, what and why in a simple, concise way. Business rules are linked to stories and a group of stories make up a functional area.

- **Issues**
  - A defined barrier or obstacle to project work, which is currently happening and may impact forward progress immediately or in the future. An issue can also be a risk, which cannot be managed through risk mitigation approach.

- **Milestone**
  - Defined period to complete a defined set of features or functionalities.

- **Original Estimate**
  - The original estimate in hours of work to complete the task.

- **Remaining Work**
  - The estimate in hours for the work remaining to complete the task.

- **Risks**
  - An uncertain future event, which may have a negative impact on the project should it occur.

- **Sprint**
  - Three-week Agile development cycle as defined by Motorist Modernization.

- **Task**
  - Unit of work.

- **UAT**
  - User Acceptance Test. Testing performed by user groups to validate application requirements have been satisfied.