



TxDOTCONNECT

MPPM Overview

Vision of the future state

System Capabilities

Design and implementation of new system(s) to enable modernization

Organizational Capabilities

Improvement of information sharing and collaboration

Process Design

Modification of business processes to reflect the business model
TxDOT wishes to pursue

Decision Support/Analytics

Development of standard rules and reporting tools

What are we solving for?

Manage individual projects through the entire lifecycle

Plan, manage, and measure transportation programs

Establish consistent practices across the agency

Automate the workflow between stakeholders

Create audit trails documenting the achievement of significant milestones

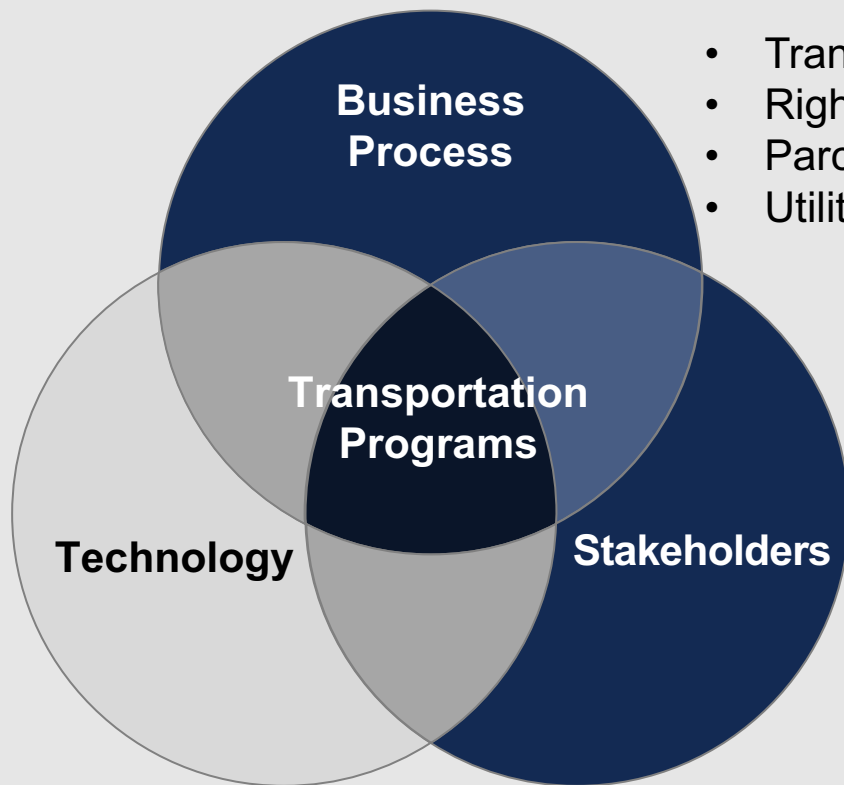
Reduce the dependencies on outdated and isolated systems

Alignment of People, Processes, and Technology are Critical



Automating the Delivery of TxDOT's Transportation Programs:

- Programs/Portfolios
- Project Management
- Right of Way



- Transportation Project Life cycles
- Right of Way Project Life cycles
- Parcel Acquisition/Disposition
- Utility Projects

- TxDOT Leadership
- TxDOT Staff
- FHWA/MPOs
- Engineering Consultants
- Right of Way Acquisition Professional Services (ROWAPs) Consultants
- Surveyors
- Utility Consultants

Project Delivery Approach

The program is managed by the Transportation Programs Division (TPD) in collaboration with Information Technology Division (ITD) using the following guidelines:

1

- Functionality is broken down into **distinct phases** (referred to as **capabilities**) with more **frequent deployments** than previous MPPM iterations.

2

- Initial capabilities include only the **minimum viable product (MVP)** to ensure a deployment occurs in a timely manner.

3

- Initial functionality is being designed, developed, and delivered using **existing platforms** and licenses at the agency.

4

- For full delivery of solution functionality, **multiple vendors** have been engaged to deliver specific functionality not available using current agency platform and licenses.

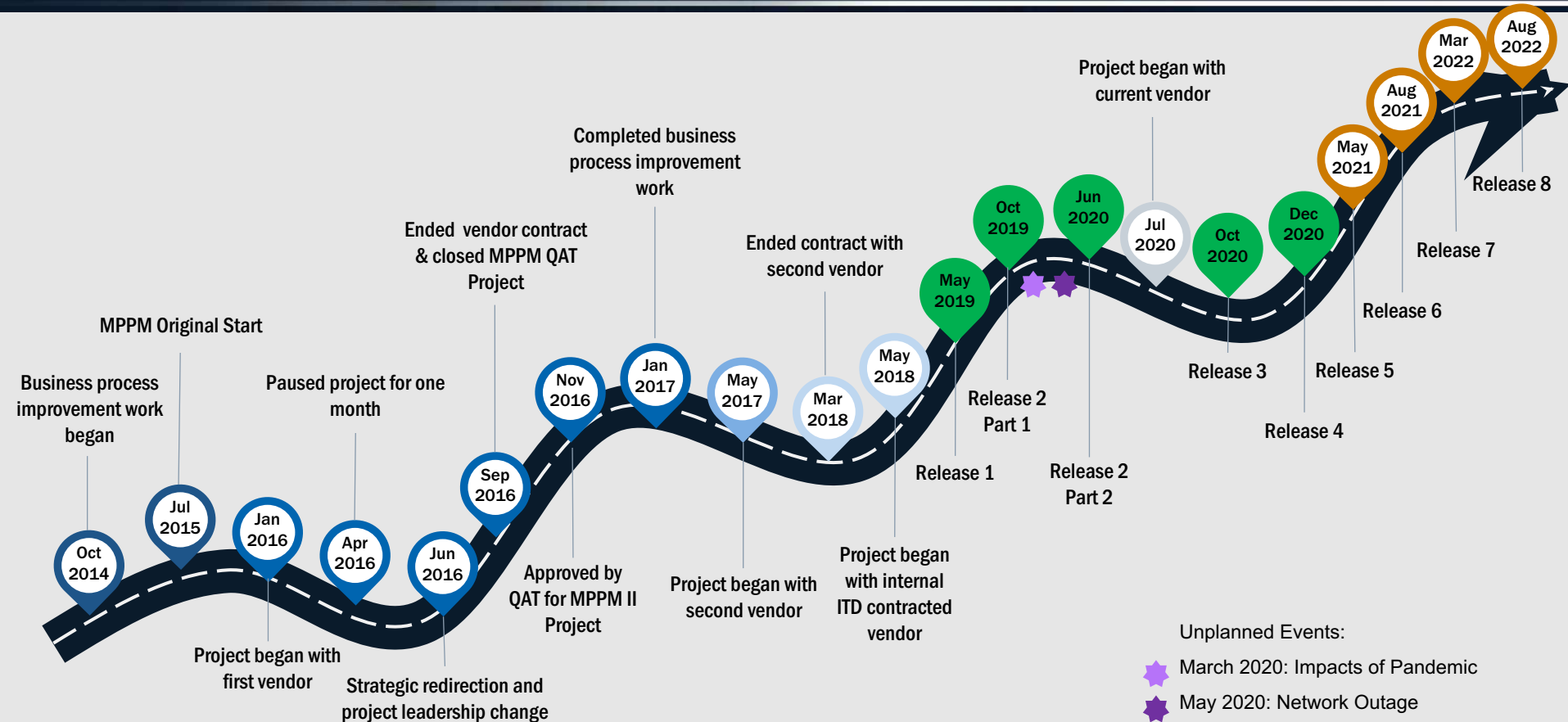
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- A **Program Management Vendor (PMV)** was procured to implement the program framework allowing for successful delivery of multiple capabilities of functionality.

6

- **TxDOT provides the testing strategy** being used by all vendors and oversees regression testing, End-to-End Testing (E2E) and User Acceptance Testing (UAT) for all deployments.

Project timeline



Accomplishments in 2020

| Business | Functional | Technical | Project Operations | Organizational Change Management (OCM) |
|---|--|--|--|---|
| <ul style="list-style-type: none"> ▪ Deployed three major releases bringing all transportation projects into one application ▪ Limited number of users continue to access DCIS and ROWIS ▪ Implemented user management process of engineering consultants ▪ Conducted quarterly user audits for elevated security roles and non-usage ▪ Documented the full letting process from proposal build to contract execution ▪ Deployed Self Service Analytics for users to create their own reports | <ul style="list-style-type: none"> ▪ Conducted regular cadence of collaboration meetings with subject matter experts prior ▪ Defined user stories and acceptance criteria for Right of Way, Maintenance projects, and the Unified Transportation Plan ▪ Mapped and refined system workflows ▪ Created mock-up of user interface screens for upcoming functionality | <ul style="list-style-type: none"> ▪ Refined project save functionality to reduce load on the application ▪ Migrated data from CMCS, ROWIS, and Right of Way spreadsheets ▪ Implemented the upload of parcel shapes to TxDOTCONNECT and Real Asset Property Map ▪ Implemented a workflow using DocuSign ▪ Implemented multiple interfaces to PeopleSoft for funding information and payments ▪ Documented data mapping for upcoming interface to SiteManager | <ul style="list-style-type: none"> ▪ On-boarded Project Delivery Vendor in July 2020. ▪ All project management documents reviewed and revised ▪ Maintained a regular project management cadence for risks, issues, and change management ▪ Implemented a test automation tool and built over 80 regression tests. ▪ Trained the project team on Agile and project processes ▪ Implemented focus on quality, shifting testing “to the left”, meaning earlier in the development process | <ul style="list-style-type: none"> ▪ Re-energized branding of TxDOTCONNECT for releases and capabilities ▪ Engaged a Champion network of more than 350 staff ▪ Enhanced internal website (Crossroads) and external website (TxDOT.gov) ▪ Developed capability focus groups to understand impact to daily activities ▪ Implemented virtual roadshows and training to engage staff and consultants statewide |