Massachusetts Bay Transportation Authority

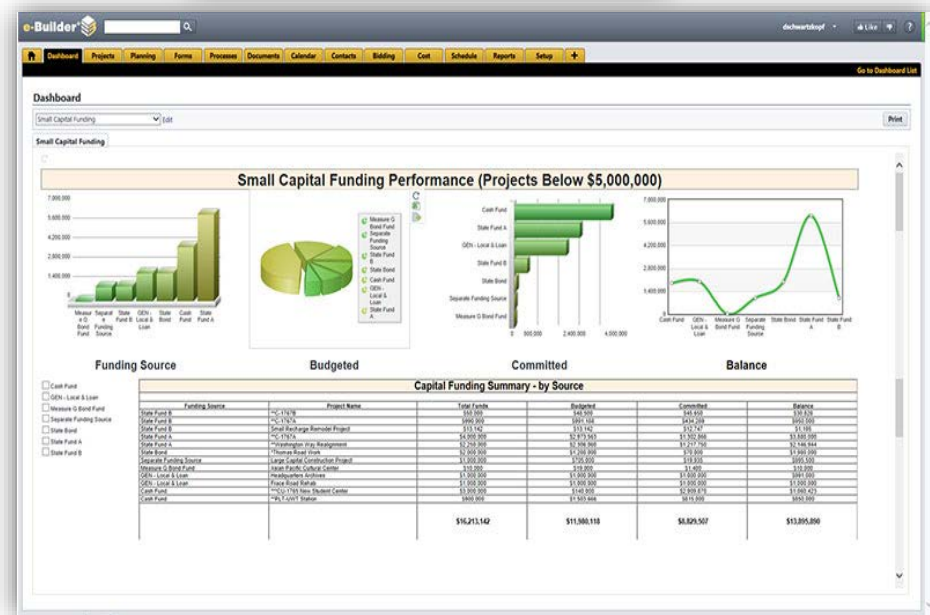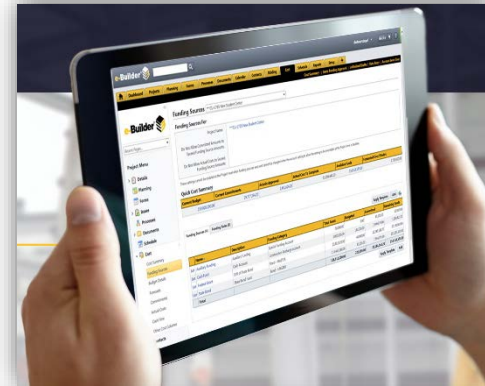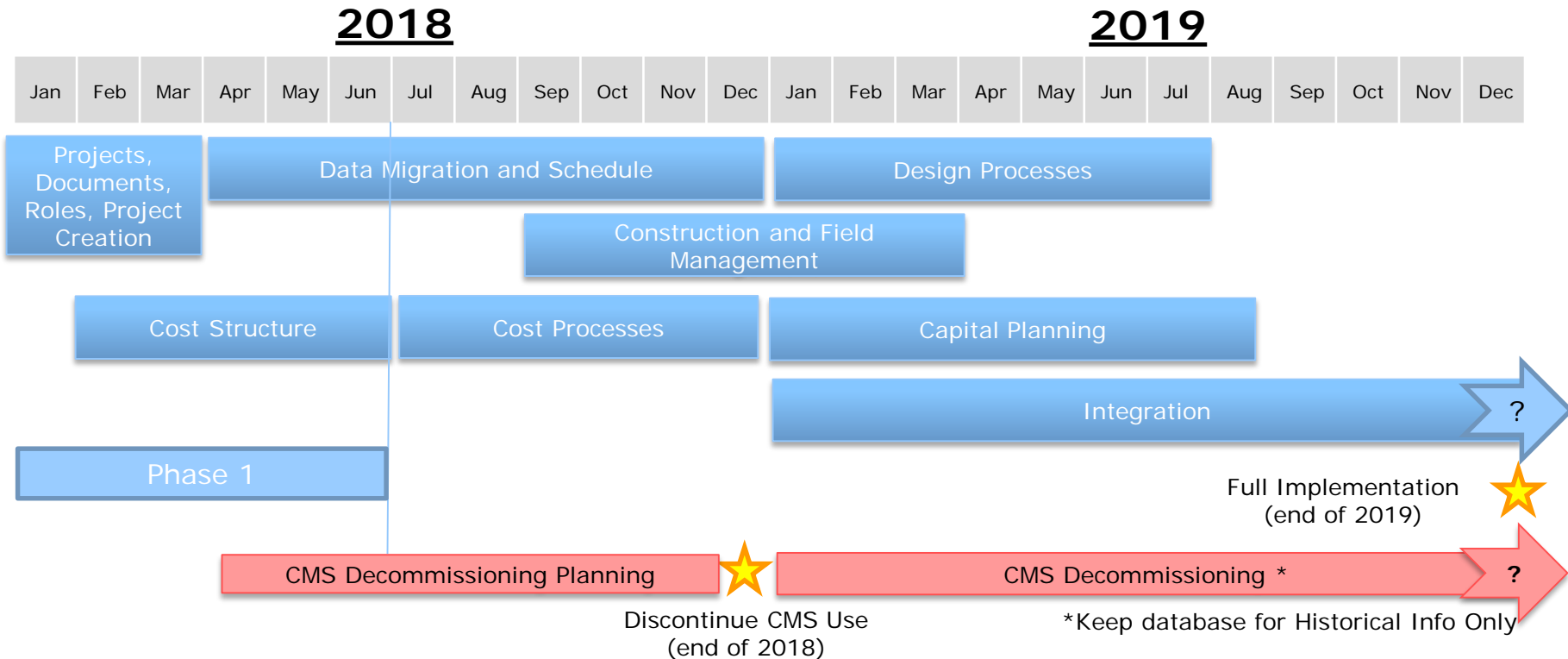## Project Management Information System

May 23, 2018

Purpose of a PMIS (e-Builder)

- e-Builder is a cloud based PMIS that is accessible by any device (laptop / phone / tablet / etc.)

- The main functions of e-Builder are:
  - o Repository of all project information
  - o Owner-based project management tool
  - o Increase productivity, consistency, and reporting
  - o Functions as a collaborative tool for all project related participants

- The PMIS will provide the following benefits:
  - o Informed and timely decision making based on accurate data
  - o Accountability for data and delivery
  - o Reduce time for data handling and increase time for analysis
  - o Accessibility to data
  - o Transparency / audit trail
  - o Efficiency

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High level project roadmap for accelerated implementation:

2018   2019

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Projects, Documents, Roles, Project Creation

Data Migration and Schedule

Design Processes

Construction and Field Management

Cost Structure

Cost Processes

Capital Planning

Integration ?

Phase 1

Full Implementation (end of 2019)

CMS Decommissioning Planning

CMS Decommissioning * ?

Discontinue CMS Use (end of 2018)

*Keep database for Historical Info Only

3 Implementation Streams:
- Data Migration
- Business Processes
- Integration

e-Builder Phase I Implementation

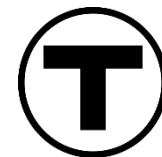|	Activity	Scheduled Completion Date	Actual Completion Date
✔	Discovery Sessions	Dec-17	Dec-17
✔	Design Sessions	Jan-18	Jan-18
✔	Configure project details, custom fields, and developed project upload template	Feb-18	Feb-18
✔	Configure user roles and associated permissions assigned to each role	Feb-18	Feb-18
✔	Develop Prototype Environment for Phase I functionality	Feb-18	Feb-18
✔	Held System Prototype review with CD, VE, and E&M Teams	Feb-18	Feb-18
✔	Complete Cost Breakdown Structure	Feb-18	Feb-18
✔	Configure document folder structure and permissions for CD and VE	Feb-18	Feb-18
✔	Phase I User Acceptance Testing (UAT)	Mar-18	Mar-18
✔	Propagate Phase 1 configuration from the prototype/development environment into the enterprise production environment	Apr-18	Apr-18
✔	Identify and assign roles and permissions in eB to all MBTA employees with-in Capital Delivery, CPO, VE, and E&M	Apr-18	Apr-18
✔	Onboard AFC 2.0 onto e-Builder	Apr-18	Apr-18
✔	Create portfolio summary and adoption dashboard	Apr-18	Apr-18
✔	Phase I document data migration (Capital Delivery)	May-18	May-18
✔	Determine feasibility of leveraging MassDOT GIS platform for mapping and data collection in eB	May-18	May-18
	Configure Document Management Processes for VE	Jun-18	

e-Builder Phase I Training

Activity	Scheduled Completion Date	Actual Completion Date
✔ Capital Program Oversight	Feb-18	Feb-18
✔ Steering Committee Members	Feb-18	Feb-18
✔ CIP Team Members	Mar-18	Mar-18
✔ IT Team Members	Mar-18	Mar-18
✔ Vehicle Engineering (Phase I scope)	May-18	May-18
✔ Capital Delivery (Phase I scope)	May-18	May-18
AFC 2.0 Project Team	Jun-18	

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Projects Currently using e-Builder

- Projects currently using e-Builder include:
    - Fitchburg Line / Wachusett Extension
    - Red / Orange Line Infrastructure and Signals Program
    - Green Line Extension (GLX)
    - Positive Train Control (PTC)
    - AFC 2.0
    - PMIS, e-Builder Implementation
    - FMIS-PeopleSoft Upgrade and Enhancement Program
    - CMS Decommissioning
    - 2019-2023 MBTA Capital Investment Program (CIP)
    - All 14 Vehicle Engineering Projects
    - 8 Phase 1 Capital Delivery Projects include:

Gloucester Drawbridge Replacement
Ruggles Station Upgrade
Charlestown Bus - Seawall Rehab
Wollaston Station / Quincy Center Garage Demolition
Harvard Square Busway Repairs
Green Line Riverside to Reservoir Track Work*
Iron Horse Park Operations Control Center
Braintree and Quincy Adams Garage Rehab

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Next Steps:

- Hold a formal e-Builder launch event, with General Manager message to the enterprise

  - ➤ Targeting end of May/early June timeframe

  - ➤ Will publicize e-Builder enterprise branding for MBTA

- Document management and control processes are a key next priority for the e-Builder implementation

  - ➤ Completed several engagements with VE prime consultants (i.e. CH2M, LTK, & STV) to understand and map current document management processes

  - ➤ We will continue mapping, optimizing and standardizing these processes over the next few weeks in preparing it for e-Builder implementation

- Cataloguing and prioritizing business processes that will be created in e-Builder

  - ➤ Process design will be executed in order of priority

- Phase 2 Implementation kickoff scheduled for June 25th

- We anticipate onboarding our external partners incrementally as projects are being onboard into e-Builder beginning in July

e-Builder Demonstration

e-Builder Demonstration

Don Peterson, Director of
Administration GLX Project