

Improving Business Processes for More Effective TSMO

Business Process Mapping Exercise – October 24, 2018

Texas DOT: Implementing Smart Work Zones

Scenario:

As a small group, consider a construction project from initial planning to procurement that includes a Smart Work Zone in one of the following, as assigned:

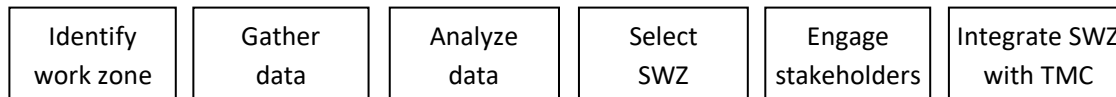
- Urban/metro area scenario Rural freeway scenario Rural non-freeway scenario

Instructions:

Create a process map for implementing the Smart Work Zone Guidelines:

- Identify key stakeholders
- Identify start and end points
- Show key inputs, outputs, steps, and decision points
- Indicate who is responsible for each step and when that occurs within the existing process for construction planning, design, and operations

During process mapping, consider the boxes and questions below:



1. Consider possible SWZ strategies early in the planning process

- How are SWZ strategies considered early in the planning process for construction projects? By whom?
- What stakeholders are involved in planning for SWZs? Internal and external?

2. Gather and analyze data to select warranted SWZ strategy

- Is the data needed for assessment/scoring readily available in your district? Gaps? How to obtain this data if not readily available?
- At what point in the process are the SWZ Guidelines used? By whom?
- Who is responsible for selecting the Smart Work Zone strategies? Are any checks or approvals required? How is final decision made?

3. Design, procure, and integrate SWZ system

- How will the selected temporary SWZ system be connected to in-place TMC systems (e.g. ATMS, communications infrastructure)? How is this coordinated? Who is involved?
- How are optional system features determined?
- How are data collection needs from Guidelines determined and incorporated into contract documents? Who is involved?
- How will resources for contracting (special specs, plan sheets) be accessed and incorporated?