TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Colorado Department of Transportation

INSTRUCTIONS:
Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(260)		**Transportation Pooled Fund Program - Report Period:** ☑ Quarter 1 (January 1 – March 31) ☑ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)
Project Title: Project Five: Investigating Project Bundling Practices for Roadway Construction Projects		
Name of Project Manager(s): David Reeves	**Phone Number:** 303-757-9518	**E-Mail** david.reeves@dot.state.co.us
Lead Agency Project ID: SPR-5260.20.06 TCM	**Other Project ID (i.e., contract #):** PO# 411023029	**Project Start Date:** 01/10/2020
Original Project End Date: 01/10/2022	**Current Project End Date:** 4/15/2022	**Number of Extensions:** 1

Project schedule status:

☐ On schedule ☑ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
$125,000	$118,703	98%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
3.73%	$4,658.38	98%

Project Description:

Project bundling is one of the Every Day Counts -5 (EDC-5) innovations. Project bundling for bridges has been empirically documented by various state transportation agencies (STAs) to have the benefits of reducing overall construction costs, shortening project delivery, and reducing staff time for paperwork and contract administration through bundling multiple smaller projects of similar nature within their proximity into a single larger contract. The efficiency in project delivery, costs, and the level of staff requirement arises from the economy of scale through bundling. Recently, FHWA developed a guidebook on project bundling with a primary focus on bridge projects. In that guidebook, a wealth of knowledge and practices were extracted from case studies of the various pilot and regular bridge bundling projects from different STAs. This study is meant to investigate the project bundling practices being implemented at a broader scale, including bridges and other types of projects so that best practices can be distilled to benefit STAs at a broader scale.

The main objective of this study is to explore the current state of practices of project bundling among various STAs including but not limited to bridge projects. The study will be conducted through a survey and case studies of various STAs that are utilizing the project bundling method. The following objectives will be achieved during the study:
i. Synthesizing the literature on current practices of project bundling among various STAs;
ii. Reviewing and synthesizing the current experience of STAs with project bundling for various construction projects;
iii. Developing a flowchart for best project bundling practices.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):
During this quarter, the draft report has been completed and it will be forwarded to CDOT for review.

Anticipated work next quarter:

The team will address any comments received from CDOT as well as oversight team members

Significant Results:

The manuscript to submitted the Transportation Research Record has been accepted and published. The paper can be accessed via the link:https://journals.sagepub.com/doi/abs/10.1177/03611981221080129. The paper focuses on disseminating the result of the questionnaire regarding the state of the practices of project bundling among different State Transportation Agencies (STAs).

The draft final report has been completed. Five chapters were included in the report:

1. Chapter 1 discusses the motivation of the research, the basic information about project bundling, and the objectives of the study.
2. Chapter 2 synthesizes the literature about the current project bundling practices. It discusses various projects that were successfully completed by STAs utilizing the project bundling method. The benefits and challenges faced by STAs during the bundling are discussed in detail.
3. Chapter 3 presents the first phase of the study: the State of the Practice Survey. It discusses the findings of the survey about the current state of the practice and perception of project bundling among State Transportation Agency (STA) representatives.
4. Chapter 4 provides a detailed report of the second phase of the study: Follow-up Interviews and Case Studies. Then, an synthesis of the best practices for project bundling is provided.
5. Chapter 5 includes the conclusions of this study as well as recommendations regarding project bundling that will help STAs better implement the method in various project types beyond bridge projects.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

Potential Implementation:

The team believes that the final report will be a great resource to help STAs understand the current state of practice in project bundling beyond bridge projects as well as implement advanced project bundling techniques. The report will also include cases studies of bundled projects for different types of bundled projects from different STAs. The team has synthesized the best practices for project bundling, which will help STAs harness the benefits of project bundling to the fullest extent.