

Implementation Assistance

Implementation Q&As

Leadership Endorsement

Contact

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Implementation Assistance Application for Project Management Strategies for Complex Projects (R10)

Background

Complex highway projects come in a variety of sizes and utilize various financing mechanisms and delivery methods. Work on such projects often involves navigating complex logistics, new construction methods, controversial stakeholder issues, and restrictive regulations that require careful planning and execution. Similarly, underestimating cost, schedule, or disruption can negatively affect budgets, increase delays, undermine public confidence, and necessitate expensive changes.

Project management has long focused on three elements—cost, schedule, and technical (scope, design, quality, and integrated delivery), but complex projects, particularly those in the rapid renewal area, need something more robust to be successful.

Moving beyond traditional approaches requires stronger partnerships among transportation agencies, contractors, consulting engineers, and external stakeholders. Better strategic planning and execution must occur from startup through construction. This new SHRP2 guide provides practical tools and techniques to optimize innovation, minimize schedule and budget risks, and build better projects.

The guidebook, *Project Management Strategies for Complex Projects (R10)*, expands the three-dimensional analysis typically used by departments of transportation and creates a model that facilitates project management in five areas—cost, schedule, technical, financial, and context. Methods for assessing complexity factors will help managers make rational resource allocations and guide planning and implementation.

The complex management product is a methodology that takes a project through a deliberative process that begins with an overview of complexity mapping and then follows five distinct steps for addressing the five dimensions. The steps are: 1) define critical project success factors, 2) assemble project team, 3) select project arrangements, 4) prepare early cost model and finance plan, and 5) develop project action plans.

The guidebook also contains 18 case studies, forms, and other application tools that will assist transportation agencies in using the product. The companion training program will assist State and local transportation agency staff in obtaining the skill-sets necessary to follow the process.

The full report can be found at: <http://www.trb.org/main/Blurbs/167482.aspx>.

Read the
Product
Page

Expected User Benefits

- Encourages early dialogue among the project team
- Early identification of complexity based on needs of the project
- Early identification of resource requirements
- Creates a realistic balance between the available financing and the project scope
- Product can be applied to highway projects of varying sizes and types to help manage projects and reduce schedule and cost impacts

Leadership Endorsement

Each application submitted from an organization or agency must have the endorsement of the Chief Executive Officer or designee. The letter of endorsement is submitted **as an attachment to the application**. Guidance for creating an endorsement letter appears in the application below.

Priority Ranking

When multiple applications are submitted from an organization or agency, each application must have a designated priority ranking. Please rank all applications in one grouping including all product submissions from your agency. For purposes of ranking do not separate your organization's applications into categories for individual products, or levels of incentives such as Lead Adopter or User Incentive.

For example, if your agency submits four applications; two applications for R06C, one for C03/C11, and one for R10, your agency must rank each application in priority order from 1 to 4, with 1 as the highest priority and 4 as the lowest priority. For your convenience, you will find a box later in this application to designate the priority ranking. FHWA and AASHTO will take into consideration the agency's rankings when reviewing and evaluating the applications for implementation assistance. Your priority ranking should be expressed as "X of Y," as in "1 of 4."

Available Implementation Assistance

Type of Assistance: User Incentive

Number of Awards: 8

Funding Level: **Implementation Assistance Services:** Each DOT is provided one of the following three implementation activities: one demonstration workshop for application of the process on a DOT project, one train-the-trainer session for DOT risk assessment facilitators and project managers, or eight hours of technical assistance to incorporate the product as part of the project development process.

Implementation Assistance Funding Level: Up to \$30,000 for each DOT, provided in the form of additional implementation assistance services and/or funding assistance for other implementation needs as identified by the DOT. These include demonstration workshops, train-the-trainer sessions, peer exchanges, technical assistance, project development manual updates, site visits to lead adopter agencies, and other activities as determined by the DOT.

Who Can Apply: State Departments of Transportation (DOTs)

Application Deadline: June 27, 2015

Requirements

1. Demonstration of past interest and/or efforts to implement complex project management principles as part of the DOT's project development process.
2. Development of a plan to implement R10 as part of the DOT's project development process.
3. Availability of DOT employees to lead R10 implementation activities for the DOT.
4. Commitment of DOT leadership to make institutional and organizational challenges by implementing Project Management Strategies for Complex Projects (R10).
5. Participation in product evaluation activities including a qualitative, organizational, before/after assessment conducted by an independent consultant for FHWA.
6. Willingness to share knowledge with other organizations interested in implementing Project Management Strategies for Complex Projects (R10).

Application Form

Follow these steps to apply for implementation assistance:

1. Review all background information
2. Download the [Project Management Strategies for Complex Projects \(R10\)](#) application form; and save it to your

computer in order to iterate, revise, and secure approvals before uploading the final application and [Leadership Endorsement Letter](#) to this site

3. Once you have completed the form and secured the required Leadership Endorsement Letter, return to this page and complete the contact information fields below
4. Upload the completed application form and Leadership Endorsement Letter
5. Click submit; you will receive an email confirmation that includes the uploaded endorsement letter and application form, be sure to only hit the submit button one time

Attach letter of endorsement from CEO or designee

no file selected

[View Leadership Endorsement Guidance](#)

Attach completed application form. Be sure you are attaching the application form that matches this application.

no file selected

Download the [Project Management Strategies for Complex Projects \(R10\)](#) application form.

Number of applications your organization is
submitting to Round 4

Rank this application relative to the total

Contact Information

Point of Contact

Title

Business Phone

Business Email

Organization

Type of Organization

State

Do you wish to subscribe to receive GoSHRP2 Email Updates?

Be sure to click submit only one time.

SHRP2 Implementation Assistance Program

Round 4 Application Form - Application period closes June 27, 2014.

Project Management Strategies for Complex Projects (R10)

FHWA Product Lead Name: Carlos F. Figueroa, Carlos.Figueroa@dot.gov, 202-366-5266

This SHRP2 Solution is part of Round 4 of the Implementation Assistance Program. For more information about this product or about applying for implementation assistance, visit the Implementation Assistance Program page (<http://www.fhwa.dot.gov/GoSHRP2/ImplementationAssistance>) or this product's application page (where this form originated) on the GoSHRP2 website.

Point of Contact:

The SHRP2 Implementation Assistance Program is designed to foster peer learning, and as a result, applicants are encouraged to share their experience implementing SHRP2 products with others. By submitting this application, your organization grants permission to FHWA to publish and distribute the name and business email address of a **staff member from the applying organization** who is familiar with the project. Please provide:

POC Name: Provide your response here.

POC Business Email Address: Provide your response here.

Questions:

1. DOT agencies can select one of the following types of implementation assistance. Please indicate how you would like SHRP2 to support your project (**select one**):
 Train-the-Trainer Course
 Demonstration Workshop
 8 hours of technical assistance from FHWA
2. Briefly describe your interest for implementing Project Management Strategies for Complex Projects (R10).
Provide your response here.
3. Briefly describe your organization's previous experience and efforts implementing project management principles in the project development process.
Provide your response here.

4. Describe the activities and resources the DOT anticipates may be needed to implement the product.

Provide your response here.

5. Describe the outcomes and deliverables you expect to achieve in implementing Project Management Strategies for Complex Projects (R10).

Provide your response here.

6. If you selected “Demonstration Workshop” in Question 1, please complete the following project information:

- a. Project Name:

Provide your response here.

- b. Project Location:

Provide your response here.

- c. Project Scope:

Provide your response here.

- d. Total Project Cost:

Provide your response here.

- e. Current Project Status (e.g. Planning, NEPA, Design, Construction):

Provide your response here.

- f. Start and End Date for Construction:

Provide your response here.

- g. Briefly describe noteworthy complexities or risks associated with the proposed project.

Provide your response here.

As a reminder:

1. Review all background information located on this product’s application page.
2. Once you have completed this form and secured the required Leadership Endorsement Letter, return to application page and complete the contact information fields.
3. Upload this form and the Leadership Endorsement Letter to the page. **Be sure you are attaching the form to the correct application page.**
4. Click “Submit;” you will receive an email confirmation that includes the uploaded endorsement letter and application form.
5. Application period will close June 27, 2014.

For more information or to find this product's application page,
visit the Implementation Assistance Program page
(<http://www.fhwa.dot.gov/GoSHRP2/ImplementationAssistance>) on the GoSHRP2 website.