

RP 312 – State of Idaho Bridge Research Roadmap

○ Project Description:

The ITD Bridge Section has sponsored past research related to bridge materials, design, construction, preservation, and inspection. While this research has generally produced positive results, past research efforts were requested on an ad hoc basis and perhaps do not complement or build on each other. The department is interested in adopting a more proactive and systematic approach to identifying and prioritizing research needs.

The goal of this research is to develop a systematic approach and prioritized roadmap that provides a clear direction of what bridge research topics need to be addressed, consistent with ITD's Mission – *Your Safety, Your Mobility and Your Economic Opportunity*. This will be accomplished through a complete review of ITD's bridge inventory, planned programmatic activities in the Bridge Section, and previous and ongoing research projects.

○ The objectives of this project are:

1. To compile and synthesize information about ITD's Bridge Program, including a thorough bridge inventory and planned bridge construction, preservation, and maintenance activities over the next seven years.
2. To gather information about best practices from leading state DOT Bridge Programs
3. To conduct a literature review of bridge research nationally and in other states completed in the past five years as well as active research projects, identifying implementation efforts and documenting cost/benefit for the research when possible.
4. To identify critical knowledge and data gaps that need to be addressed through future research that will enable ITD to implement practices and technologies to strengthen ITD's Bridge Program.

○ Estimated Completion Date: June 15, 2024

○ Budget: \$100,000

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