LEAD STATES TEAM SYNOPSIS
New Bridge Material Design Options (BMDO)

Proven benefits of BMDO:
• Simplify construction and afford rapid replacement of culverts and short- to medium-span bridges over water,
• Be less expensive and potentially long-lasting in severe exposure settings, such as marine environments,
• Reduce life-cycle and maintenance costs while lowering the structure’s carbon footprint through the use of corrosion-resistant materials.

What the LST Did
Two innovative bridge technologies now in use in several States offer transportation agencies significant cost, safety, strength, weight, design and sustainability benefits. They may be particularly useful in accelerated bridge construction since manufacture can take place in as little as 30 days. Even in more complex applications, each new Bridge Material Design Option (BMDO) generally requires lead time no longer than that of conventional materials.

The overall goal for the LST was to nationally increase the adoption of BMDO technologies.

In order to accomplish their goal, LST team members conducted presentations, produced a series of “Fast Facts” tech sheets that summarized projects, and created case studies and summaries of implemented projects throughout the country. Additionally, the LST produced videos that are available on YouTube and provided a model mockup and contractor testimonials. These resources are available on the AASTO website at http://aii.transportation.org/Pages/NewBridgeMaterialDesignOptions.aspx.

What the LST Accomplished

Measuring Success: BMDO Progress
This technology is spreading across the country. In less than three years, over half the states are using BMDO as a way to improve safety.

= No reported BMDO activity
= Currently using or in the process of implementing Bridge in a Backpack technology
= Currently using or in the process of implementing Hybrid Composite Bridge technology

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