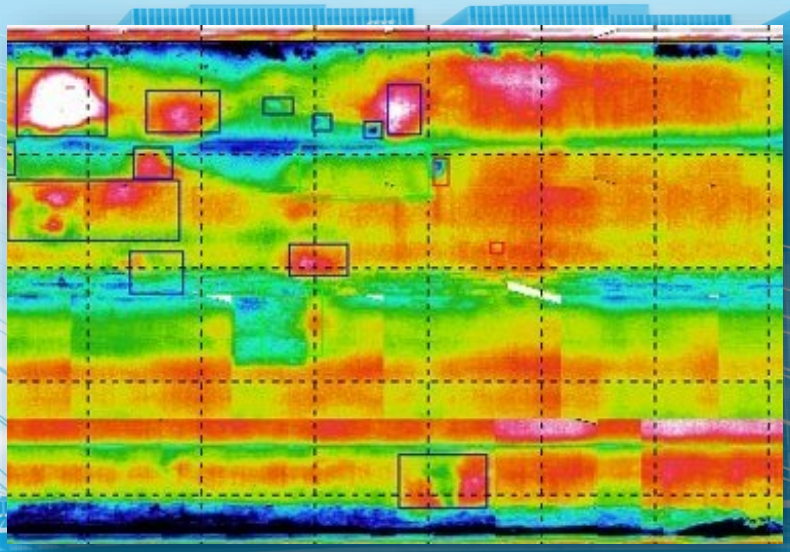
Purdue-INDOT

A total of 20 bridge decks were scanned across the state of Indiana as part of an effort to evaluate the effectiveness and practicality of mobile visual and infrared data collection. This project helped researchers determine how they could utilize rapid scanning methods in a way that benefits their agency.

This project also showcased our online viewing platform, which enabled reviewers of the project to open multiple bridge views, turn ON/OFF visual and IRT layers, and zoom in close to observe findings.

Despite evaluating different structure types with different environmental conditions, imagery clearly showed defects like cracking, spalling, and sub-surface delamination.



Project Details

Client	Company Name
Reference	Chris Williams csw@purdue.edu
Surface Area	20 Bridges, 262,000sqft
Project Period	Fall 2020

Impression

We are always ready and willing to participate in research related to NDE applications!

Also, it is important to consider economies of scale when collecting data. Large amounts of data can be collected from a mobile vehicle in a single day (along a single highway especially). The ease of collection lends itself to several options in how that data is used. Inspectors could consider the visuals and likely delams quickly as a means to obtain overview, broad-level conditions. Or, in-depth analyses like crack mapping or comparisons to other NDE methods may be performed to problem-solve potential issues with the deck.

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