

FACT SHEET

Advanced NDE Inspection of Bridge Decks

PROJECT TITLE

Advanced NDE Inspection of Bridge Decks

STUDY TIMELINE

9/2022 Year - 12/2022

INVESTIGATORS

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KEYWORDS

NDE, High-Speed, Robotics, Bridge Deck

FUNDING

STIC

More information about the

VTrans Research Program, including additional Fact

Sheets, can be found at: http://vtrans.vermont.gov/planning/research

Introduction or Problem Statement

Lack of data and visibility in the current condition of bridge decks that can potentially lead to unreliable repair estimates quantities and plans.



Methodology or Action Taken

Utilization of automated and standardized NDE methods in high-speed and high-definition (ground coupled) fashions to maximize the variety and amount of condition data while minimizing the time on the bridge.

Conclusions or Next Steps

The project findings would include bridge specific condition maps, repair quantities and data driven recommendations.

Potential Impacts and VTrans Benefits

The results of this project would prevent cost overruns in construction projects by having a more accurate and reliable picture of the bridge decks' condition.