

Louisiana Department of Transportation and Development



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

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Sustainability through Development of Life Cycle Information Models for Pavements in Louisiana

Project Goals:

- (1) Educate agencies on Environmental Product Declarations (EPD) and Life Cycle Assessment (LCA).
- (2) Collect pavement production and construction data in an open-sourced format to inform development of standards for quantifying construction environmental impacts and enhancing the pavement repository in OpenLCA as well as LCAPave.
- (3) Collaborate with the Asphalt Institute to explore and develop asphalt binder-specific publicly available background life cycle inventory data in aggregated formats.

Project Tasks:

- **Task 1:** Conduct Literature Review
- **Task 2:** Develop and Deliver Project Kick Off Training
- **Task 3:** Conduct LCA Case Studies on Selected Projects and Collect EPDs
- **Task 4:** Develop standards/frameworks to quantify environmental impacts of construction practices
- **Task 5:** Develop and Deliver Project Concluding Symposium
- **Task 6:** Prepare the Project Final Report

