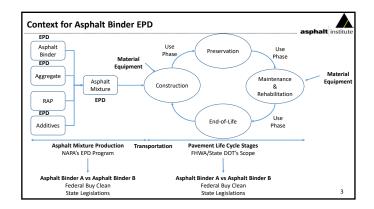


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Al's Existing Life Cycle Assessment: Organizational Aspects Started in 2016, third-party verified LCA report published in 2019 Funding: \$200,000 Contract with Thinkstep at the time, now Sphera Availability of models on crude oil extraction and refining

Organizational Limitations of Existing LCA "Proprietary" background data, "Gabi" Non-Alignment with FHWA's vision of consistent "public" background data Not an "Ideal" approach given the "dependency" on third-party LCA/EPD providers (e.g., Sphera)

