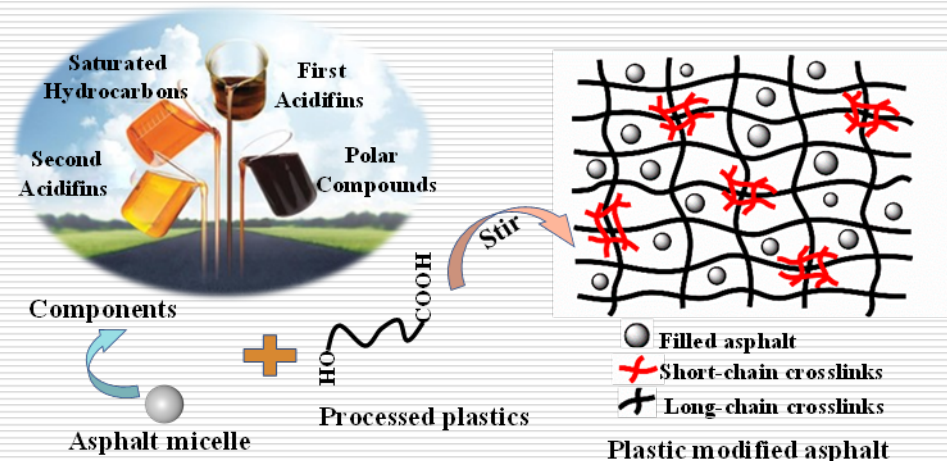


Use of Recycled Plastics in Asphalt Pavements (Year 1)

❑ PI: Dr. Jenny Liu, Missouri University of Science and Technology (S&T)

❑ Duration: May 2020 – June 2021

❑ TriDurLE \$54,226 & 1:1 match from Missouri S&T



❑ A preliminary laboratorial investigation to explore the viability of using recycled plastics in asphalt in the state of Missouri

Use of Recycled Plastics in Asphalt Pavements (Year 1)

- ❑ Relevant to the thrust area 4 — addressing aging and other materials-related durability distresses of transportation infrastructure through the use of new materials, technologies, and construction methodologies
- ❑ Objectives
 - ❑ Investigate the viability of using recycled plastics in asphalt
 - ❑ Investigate the effects of different recycled plastics on the properties/performances of asphalt binder/mixture
 - ❑ Identify potential issues of recycled plastics in asphalt
- ❑ Potential Benefits
 - ❑ Improved pavement performance with substantial saving on maintenance and repair
 - ❑ Eliminate the growing amount of waste plastics being landfilled or polluting the environment through litter.