The purpose and objective of this research are in line with nationwide efforts and goals in safety. A few statistics demonstrate the severity of safety in infrastructure construction and maintenance. In addition, much of the nation's highways system is more than 30 years old and will require maintenance or repair resulting in work zones in the next years. Since one third of the roads in urban areas are traveled under congested conditions, these construction work zones will need to happen at potentially unsafe times, e.g. at night. Trying to solve or improve the above mentioned limitation of existing safety approaches for work zones may result in many benefits. Very importantly, zero incidents will protect workers and their families. Infrastructure owners and contractors will benefit from this research when evaluating costs that are directly and indirectly linked to safety, for example, medical and insurance costs.

The expected result of this research effort is 1) scientific evaluation data for emerging technologies to improve safety in highway work zones, 2) recommendations for implementing innovative safety technologies and 3) an implementation guide for selected technologies. The significance of this research lies in evaluating safety technologies for implementation to enhance work zone safety. The result of this study will benefit Alabama Department of Transportation (ALDOT) employees required to work in work zones.

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