

UTC Project Info	
Project Title	Development and Evaluation of Coordinated Traffic Signal Emergency Preemption System
University	University of Kentucky
Principal Investigator	Adam Kirk
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Funding Source(s) & match amounts provided (by each agency or organization)	UK - \$50,000
Total Project Cost (includes cost sharing)	\$100,000
Agency ID or Contract #	2014-OE-05
Start and End Dates	June 1, 2014 – February 28, 2015
Brief Description of Research Project	The objective of this research is to develop signal control strategies to preempt an entire corridor for emergency vehicle operations, rather than preempting each individual intersection as the emergency vehicle arrives, and to quantify the benefits to emergency and public travel operations.
Describe Implementation of Research Outcomes (or why not implemented)	This research develops a coordinated preemption plan that will operate TOD coordinated timing plans with variable timing that accounts for emergency vehicles. This evaluation will be performed with a VISSIM model based on signal corridors in KY using logic from an external adaptive control system in a hardware-in-the-loop environment operated by the KTC.
Impact/Benefits of Implementation (Actual, not anticipated)	