FFY24 Grant Proposals

KTRAC

Presentation by KTRAC

Microsoft Teams / KYTC Conference Center Room 109 in Frankfort, Kentucky | March 1, 2023

Agenda

- Go over submitted grant proposals for FFY2024
- Brief remarks on each
- Question and Answer on each

TEAM KENTUCKY
TRANSPORTATION CABINET

KTC - NON-LE-2024-Universi-0023

- Title: Annual Traffic Records Assessment Project: 2023 Traffic Records Assessment Implementation
- Description: This project will continue the regular assessment of the quality of Kentucky safety data (traffic records). It will also monitor implementation of the recommendations of the 2022 NHTSA Traffic Records Assessment

KTC - NON-LE-2024-Universi-0024

- Title: Kentucky Traffic Safety Data Service
- Description: This project is a continuation of the popular Kentucky Traffic and Safety Data Service (KTSDS). The Kentucky Transportation Center (KTC) has considerable resources and expertise for identifying and addressing safety concerns using a variety of traffic records databases and tools. The aim of this study is to increase access to and integration of data from the six traffic record systems and especially to increase access to expert resources with a more in-depth knowledge of the databases. Accordingly, KTC will continue to market and host a free traffic data service to enable users to "access an expert" to conduct small studies and get answers to traffic safety problems which would ordinarily be out of reach due to a) difficulty and expense of contracting, or b) lack of awareness that such expert resources exist and are available to them.

KTC - NON-LE-2024-Universi-0025

- Title: Probe Speed Data for MIRE
- Description: This project aims to identify role of speed in crash occurrence by analyzing operating speed, speed limit, geometric conditions, and crash history. The project will improve safety performance analysis and safety planning by integrating speed into safety performance functions.

KTC - NON-LE-2024-Universi-0026

- Title: Kentucky Traffic Incident Management Dashboard Update and Secondary Crash Identification Automation
- Description: The project aims to update the Kentucky Traffic Incident Management (TIM) Dashboard with additional performance measures and visualizations. The project also aims to improve the existing secondary crash measure by implementing an effective text mining model that can automate the identification of secondary crashes using crash narratives. The project will improve the accuracy, accessibility, and timeliness of crash data analysis.

KTC - NON-LE-2024-Universi-0030

- Title: ATR ADT and Classification Counts and Demand Factors update automation
- Description: The goal of this project is to create a dynamic analytics dashboard for the ATR and classification count data. The dashboard will allow users to easily upload and process ATR data files by year. The backend database will store the data, while the frontend interface displays various statistics, such as health reports by station, data completeness by highway type, and hourly factors by functional classification, as well as any other useful information determined by the Cabinet. The dashboard will be highly interactive and user-friendly, making the ATR data more accessible and timelier for users.

KIPRC - NON-LE-2024-Universi-0041

- NON-LE-2024-Universi-0041
- Title: Creating a Sustainable Kentucky Trauma Registry Data Management System
- Description: Kentucky's trauma registry is an essential component of the state trauma system that is mandated by statute. After two decades of stability, the registry is under threat because its data management vendor sold out to a larger and much more expensive firm. We continue to work diligently towards the longstanding goals of improved data integration, timeliness, and accuracy. However, these tasks have taken on a new urgency because the state's rural trauma care providers cannot afford the rates proposed by the data management vendor. We are evaluating other options through a formal Request for Proposals process and internal consultations. Future state funding may be forthcoming but it will not be available this year because of the state's biennial budget cycle. We are therefore requesting additional funding for FFY 2024 to support the transition to a sustainable trauma registry data management system.

KBEMS - NON-LE-2024-Kentucky-0045

- Title: Kentucky Emergency Medical Service Information System (KEMSIS)
- Description: The Kentucky Emergency Medical Service Information System (KEMSIS) is a statewide initiative for the collection, analysis, and integration of EMS system and patient care data, administered by the Kentucky Board of Emergency Medical Services (KBEMS).

KTC - NON-LE-2024-Universi-0048

- Title: Integrating Crash and Citation Data to Improve Crash Prediction Models
- Description: Access to high quality statewide crash data is a hallmark of Kentucky's safety professionals' ability to provide continuous improvements to the transportation system. To further provide these improvements, this project intends to integrate crash and citation data. Spatial and temporal analyses of the occurrences of both crashes and non-crash driver citations will allow for a more comprehensive understanding of where and when problematic driver behaviors are taking place across the state.

KTC - NON-LE-2024-Universi-0050

- Title: Optimizing And Employing KYTC’s Sign Database
- Description: Adequate signage is an important part of roadway safety: it can reduce the likelihood of a crash without requiring costly infrastructure changes. Having a thorough and accessible sign database is equally important. This project proposes to enhance and organize Kentucky’s sign inventory, and to expand its use by road engineers across the state. The project will include custom analysis and processing for the existing roadway database. KTC researchers will work closely with KYTC personnel to ensure the data is accessible, practical, and serviceable. Signs are an integral part of Kentucky’s road system, so optimizing their use will enhance road safety.

KTC - NON-LE-2024-Universi-0052

- Title: Scooter Project TBD
- Description: The NTSB identified the need to add e-scooter and e-bike device codes to police crash data and guidance, yet Kentucky HB258 amended KRS 186.010 to specifically except electric low-speed scooters from being considered vehicles.
  - This project would seek to examine crash narratives to see if e-scooter and e-bike crashes are present and unaccounted for and based on Kentucky data to make recommendations to add appropriate device codes to help Kentucky get ahead of the anticipated changes to the 6th edition of the MMUCC.

UL CTI - NON-LE-2024-Universi-0054

- Title: Data Linkage v4 - FY 2024
- Description: This project will continue to further data linkage efforts from our FY 2023 version of the project. It will include improvements to the linkage methodology, continuing to develop a dashboard, and using FY23 linkage results to characterize underreporting of VRU crashes.

Review

- Funding
  - KTRAC approve / disapprove
- Review
  - KOHS – contact applicants to update verbiage, goals, etc
  - NHTSA – KOHS will meet and answer any questions
- Add to the HSP and submit