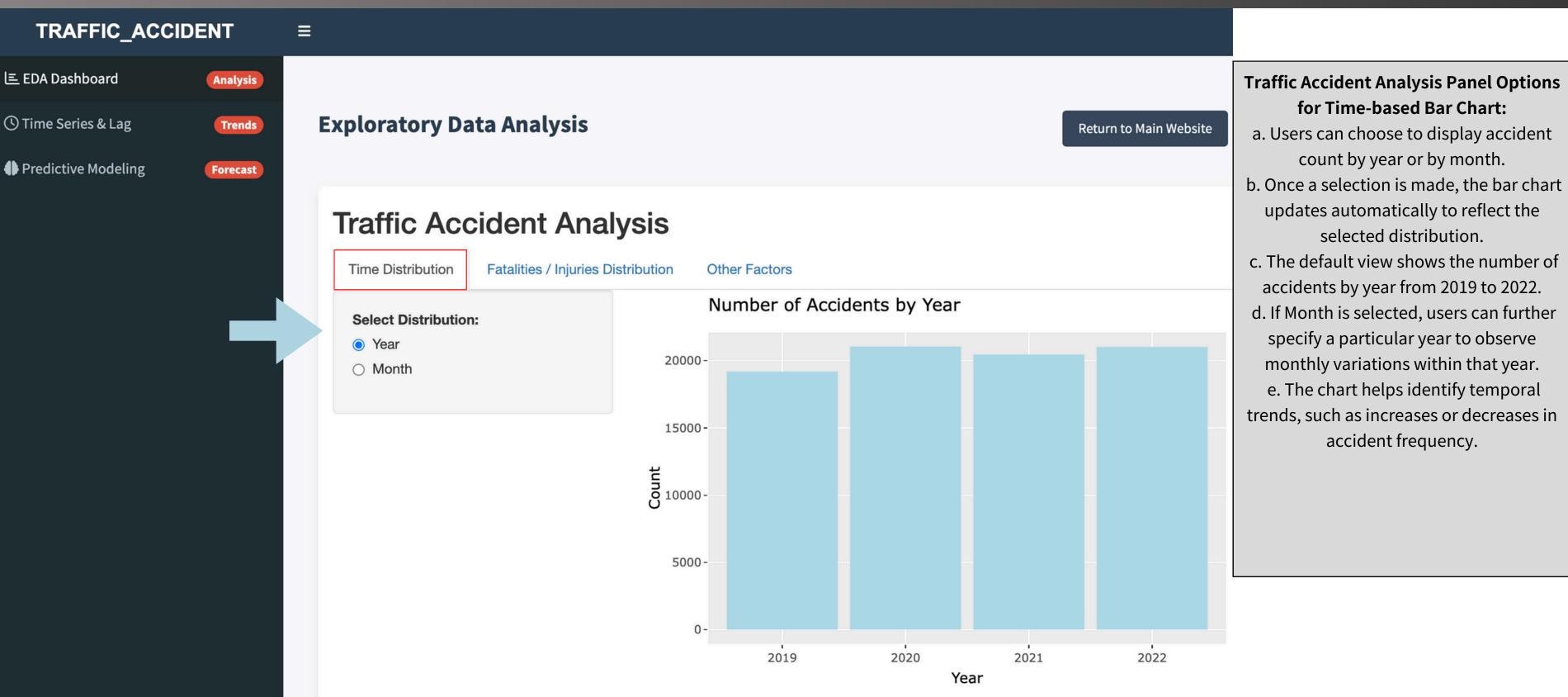


Thailand Traffic Accident-User guide

Exploratory Data Analysis – Overview

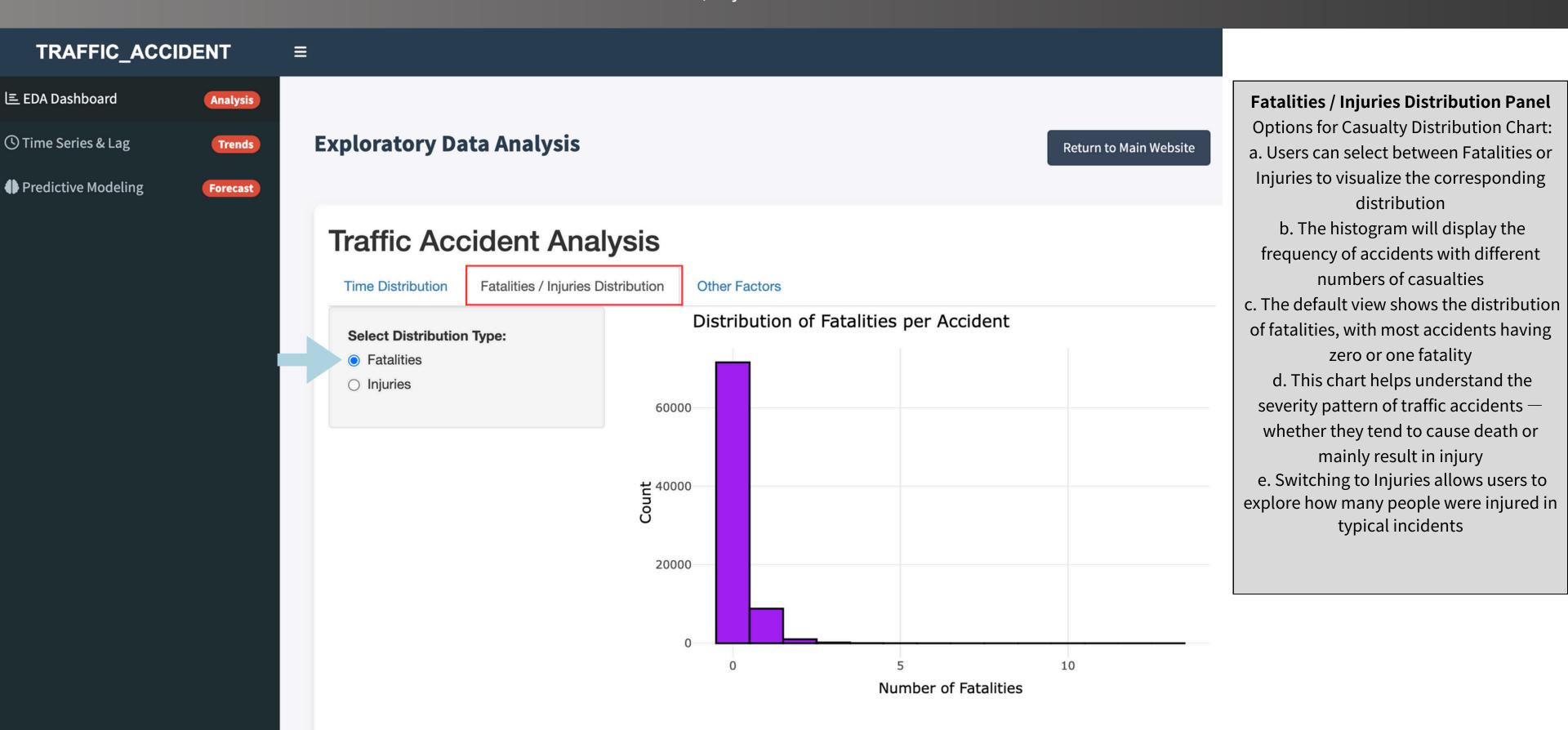
This page serves as the "landing page" that displays a summary of traffic accidents through temporal visualizations. This visualization UI helps:

(1) identify accident trends over time and (2) support further exploratory analysis on injury, fatality, and other contributing factors.



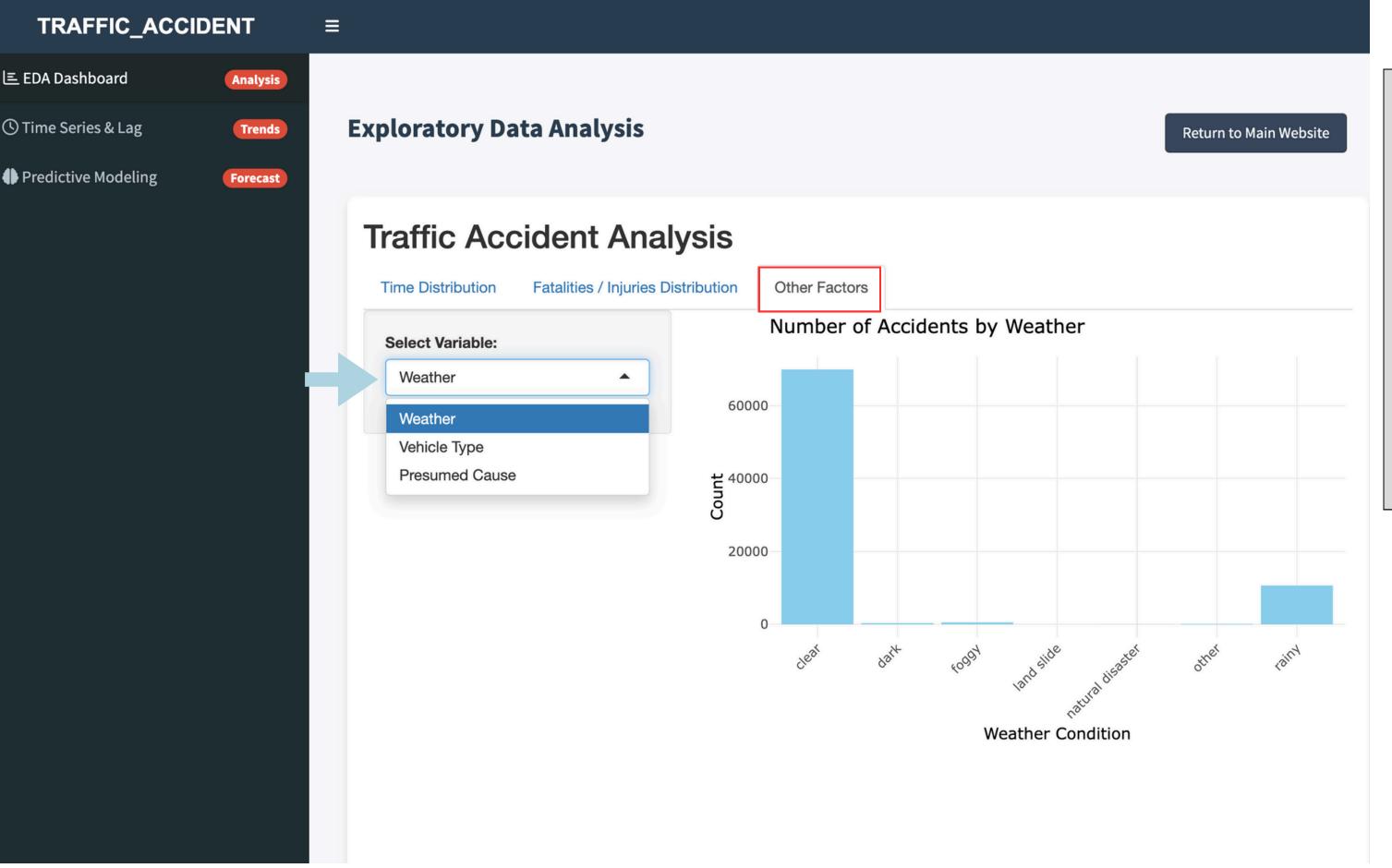
Exploratory Data Analysis – Overview

Fatalities / Injuries Distribution Panel



Exploratory Data Analysis – Overview

Other Factors Panel



Other Factors Panel

Options for External Factor Analysis:

a. Users can choose among Weather,

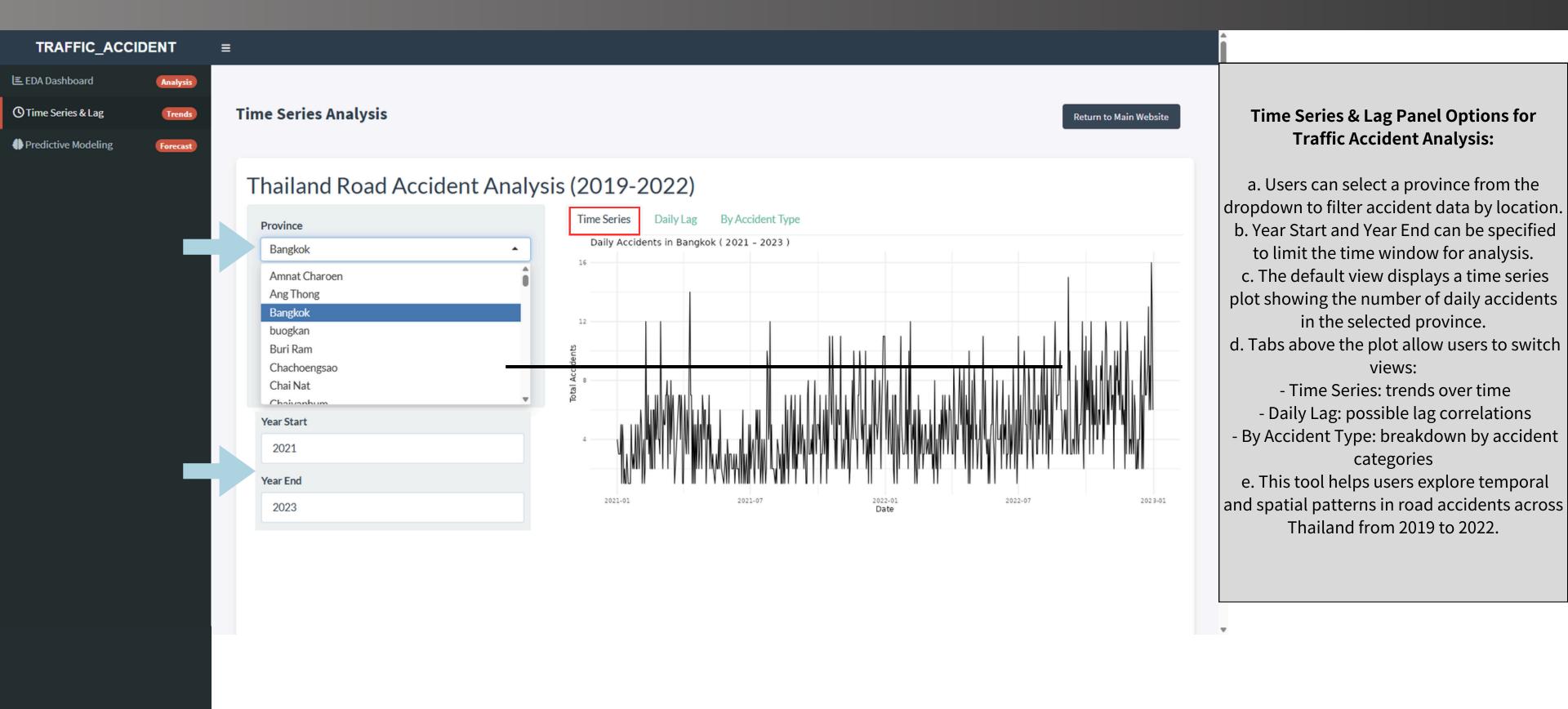
Vehicle Type, or Presumed Cause as the

variable for analysis

- b. A bar chart will display the number of accidents associated with each selected factor category
- c. The default view shows Number of Accidents by Weather
- d. Selecting Vehicle Type allows users to analyze which types of vehicles are more frequently involved in accidents
- e. Choosing Presumed Cause provides insights into common causes

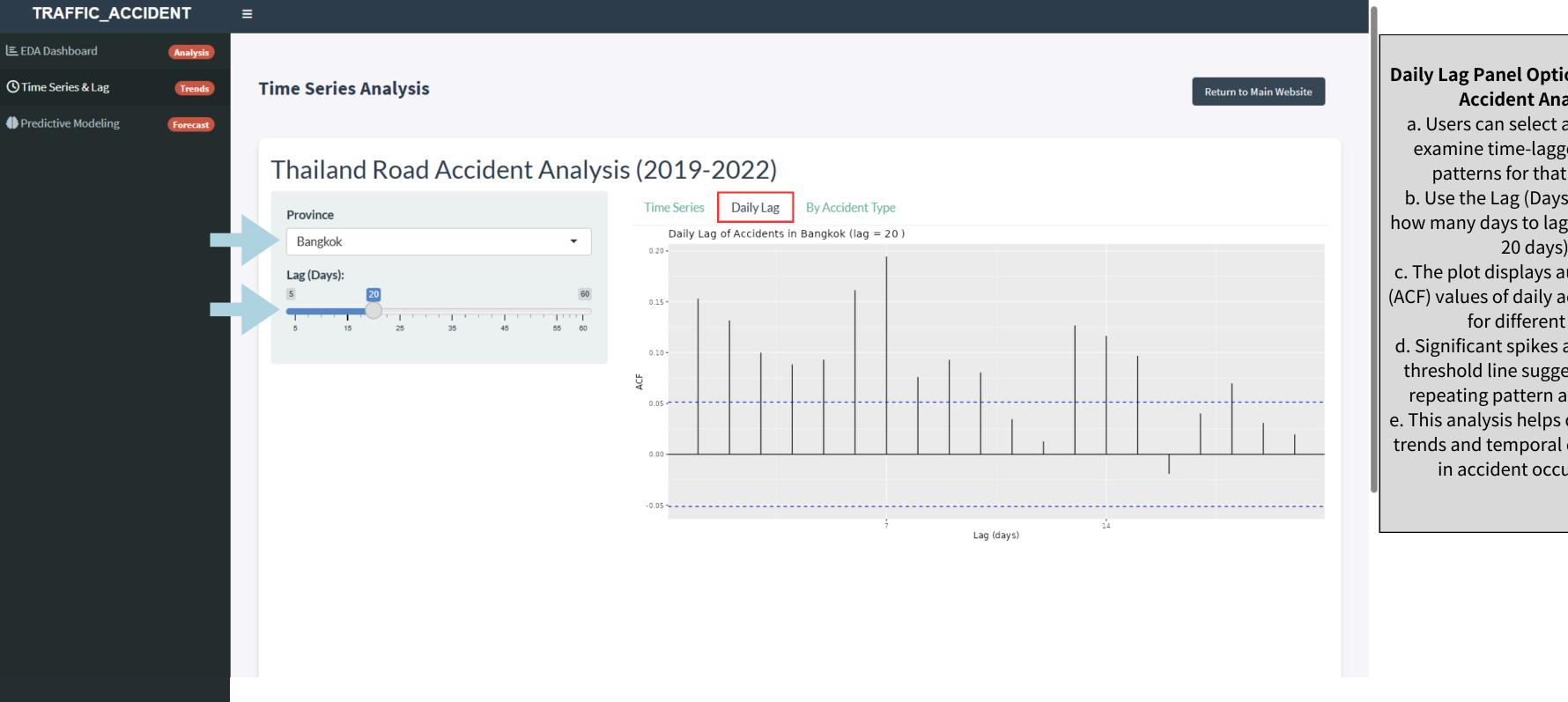
Time Series & Lag

by Province overall



Time Series & Lag

on Daily Lag

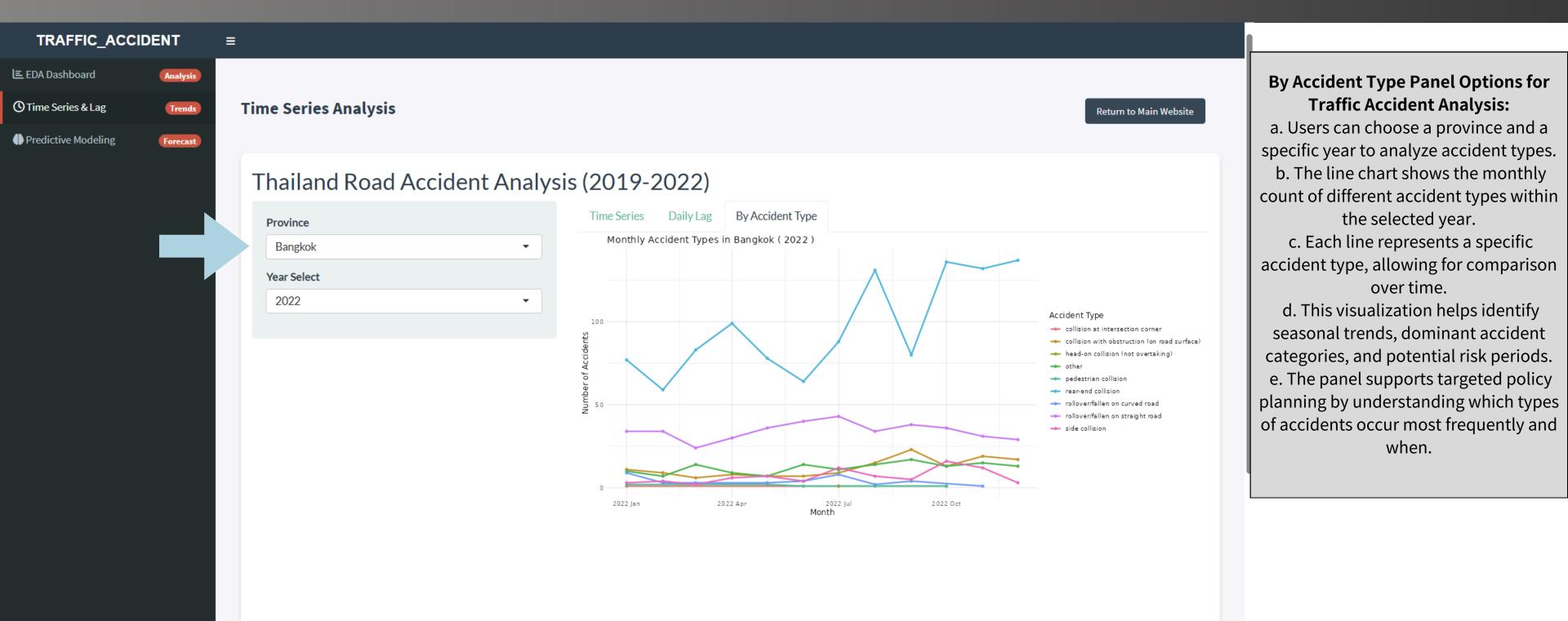


Daily Lag Panel Options for Traffic Accident Analysis:

- a. Users can select a province to examine time-lagged accident patterns for that location.
- b. Use the Lag (Days) slider to set how many days to lag the data (e.g., 20 days).
- c. The plot displays autocorrelation (ACF) values of daily accident counts for different lags.
- d. Significant spikes above the blue threshold line suggest a possible repeating pattern at those lags.
- e. This analysis helps detect periodi trends and temporal dependencies in accident occurrences.

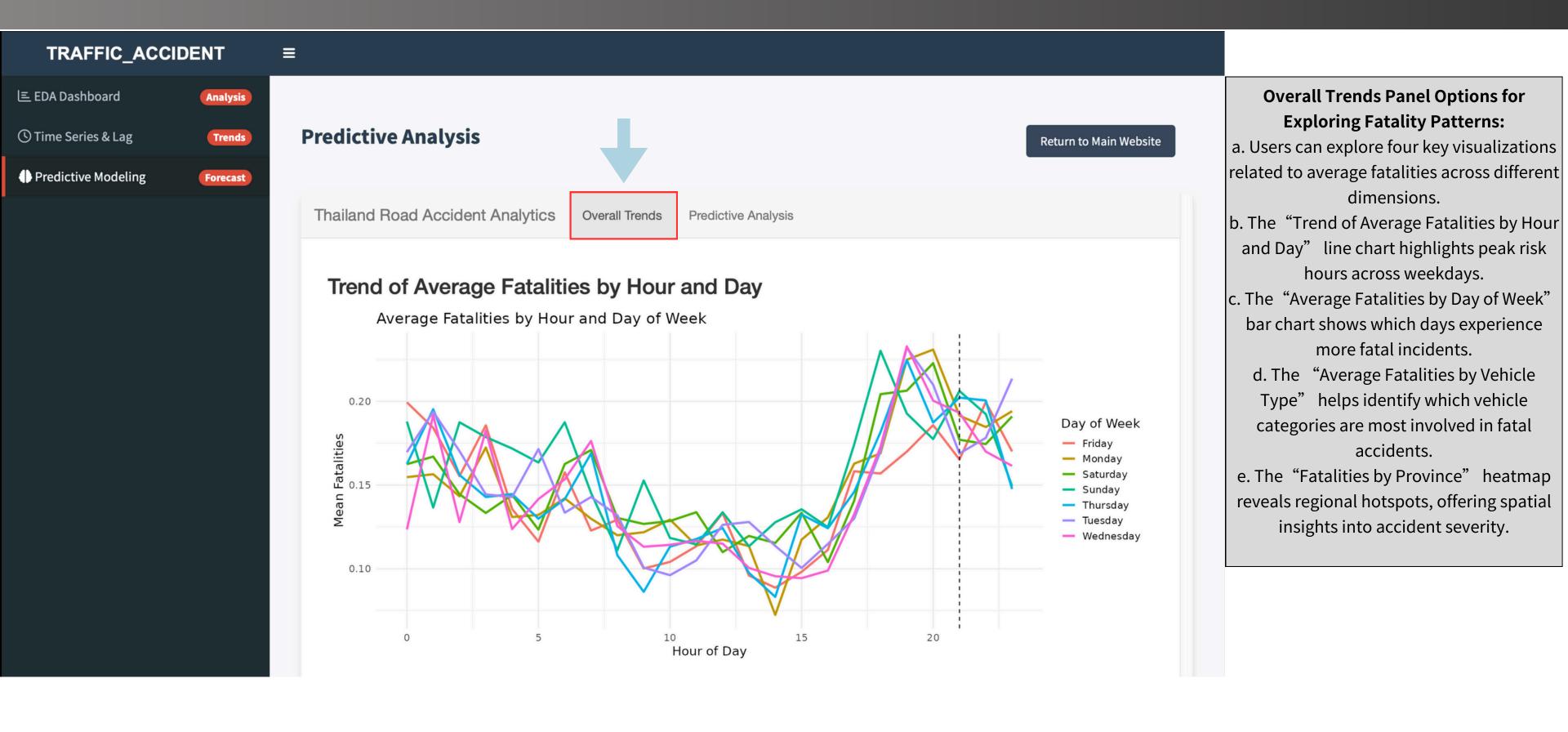
Time Series & Lag

on Accident Type



Overall Trends – Fatality Pattern Exploration

Overall Trend Panel



Predictive Analysis – Scenario-Based Fatality Estimation

Predictive Analysis Panel

