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Project Proposal

## Analysis of Wildland Fire in the United State

**Introduction**

In the US, there are more than 50,000 wild fire occurs every year, which cost billions of dollars for suppression. Due to the complex consequence of wildfire to the environment, society, climate and wildlife, various of researches are conducted to analyze the relationship between the wild fire and human activities and environmental conditions, as well as the potential method of predicting and preventing wild fire. To better understand the factors and the consequences, a visualized analysis of wild fire in the US is proposed in this project.

**Objectives**

The primary objective of this project is to visualize the wild fire statistics data from 2010 to 2018. The factors that will be analyzed in this project includes the geographical distribution of the wild fire, the categorized wild fire cause, the number of death and destroyed structures, the affected area of wild fire, duration of fires, and the cost for suppressing the fire. The data used in this project is obtained from various data sources, including the National Interagency Fire Center (NIFC), the California Department of Forestry and Fire Protection, and US Forest Service.

**Proposed System and Platform**

The project will be presented as an HTML webpage with CSS style. The visualization for this project will be created using D3.js and Tableau.