

SKY TROOPER

MOBILE SURVEILLANCE SYSTEM

PROGRESS REPORT

Team # 4

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Problem Statement

- Thousands of casualties and fatalities occur due to excessive speeding and/or drunk driving
- Predictable law enforcement strategies
 - Stationary Cameras
 - Habitual location of officers
- Illegal immigration rises every year
- Rising operational costs (fuel, salaries, etc...) create increased strain on city and state budgets
- Scarcity of resources in border regions and high crime areas

Functional Analysis

- Input – Function - Output
 - Inputs:
 - Speeding/Erratic vehicles
 - Motion along border
 - Function:
 - Detecting, identifying, and reporting speeding vehicles and erratic driving behavior
 - Monitoring borders and alerting border patrol to illegal immigrants and drug smugglers
 - Output:
 - Decrease in traffic/border violators
 - Lower operational expenses and better allocation of scarce resources