

GMU – CoS Team

*Transportation & Mobility Hackathon
16-17 November, 2017*

CRASH ORACLE

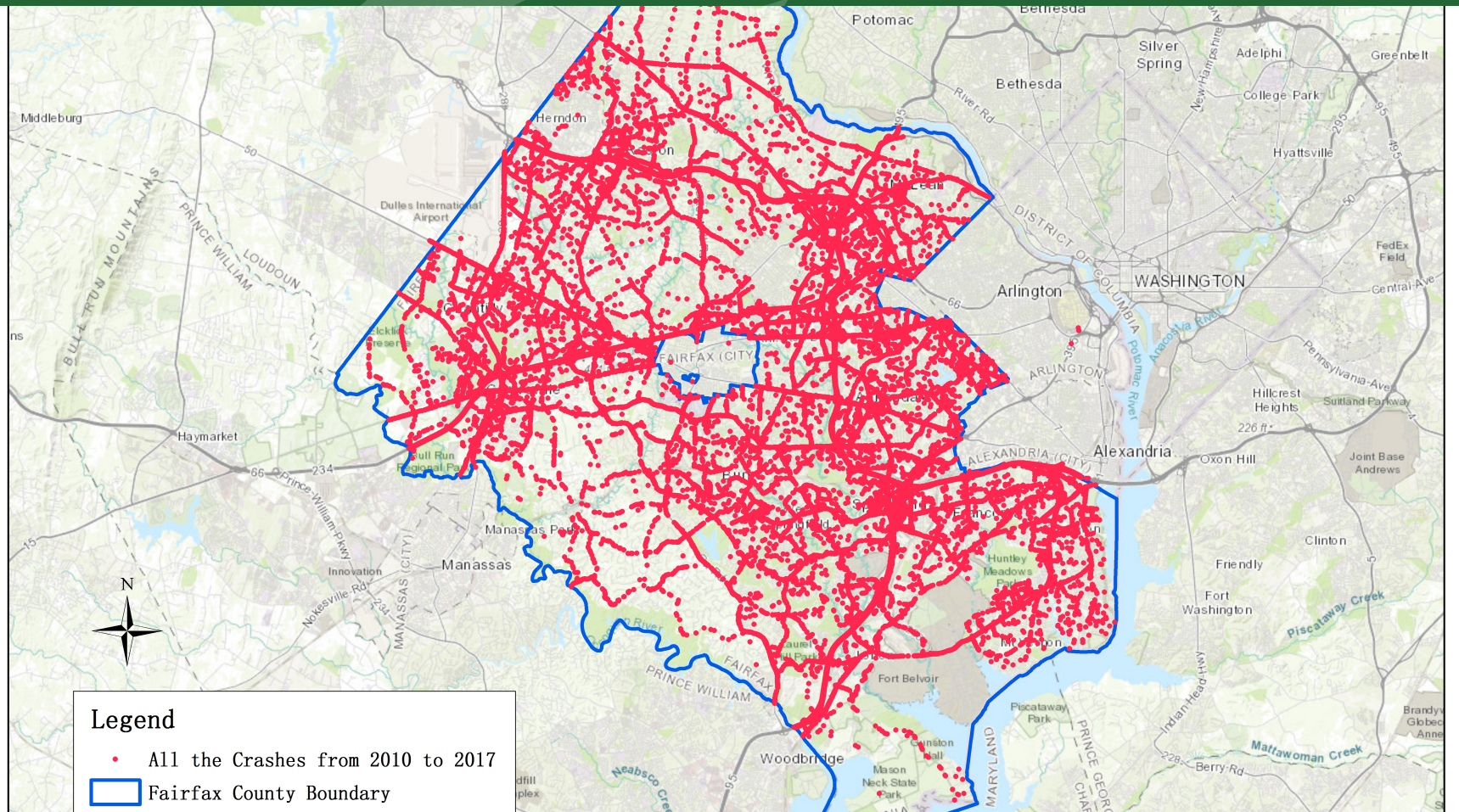
*AI-supported Early Warning of Car Accidents
in Fairfax County*

“NSF – Algorithms in the Field”

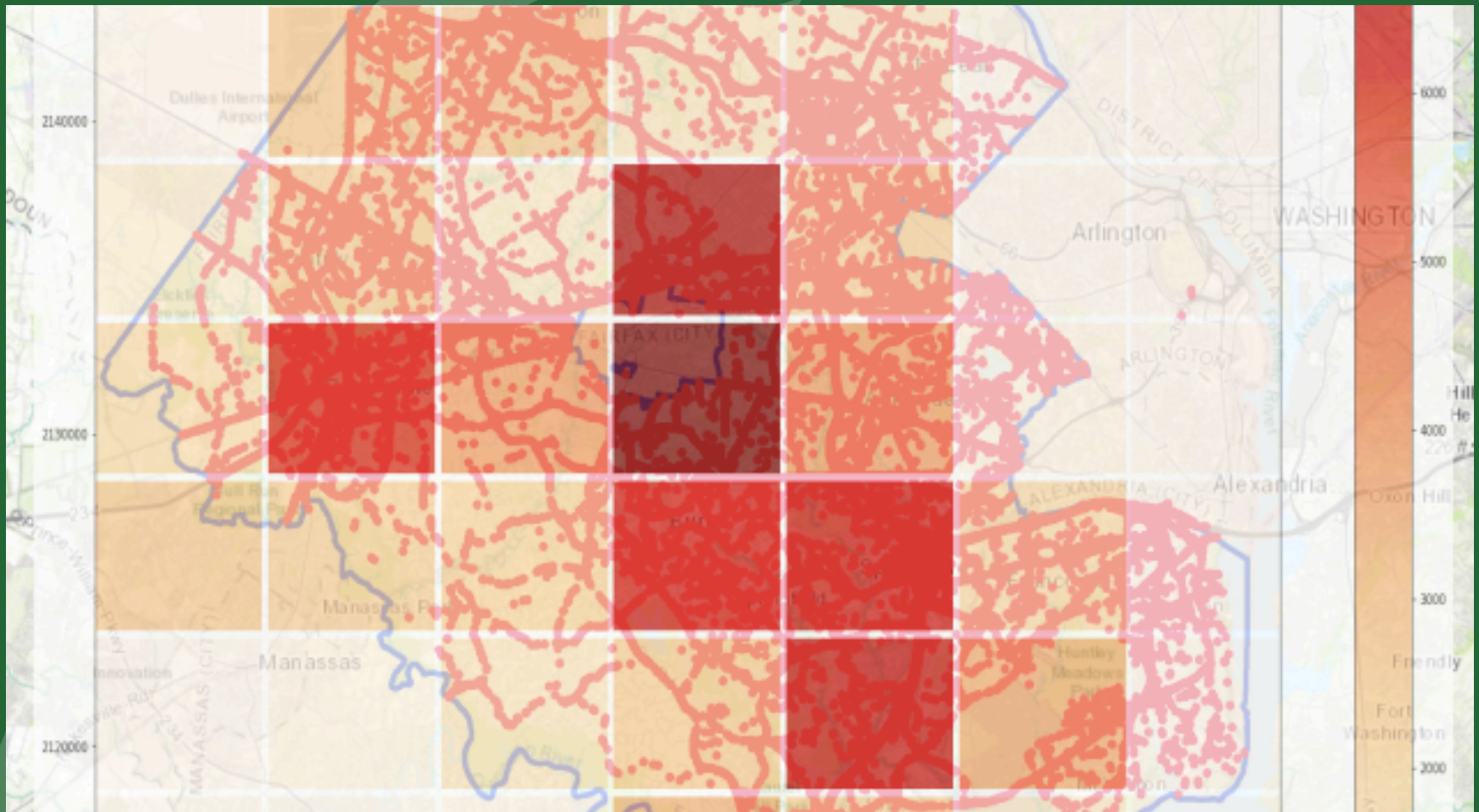


College of Science

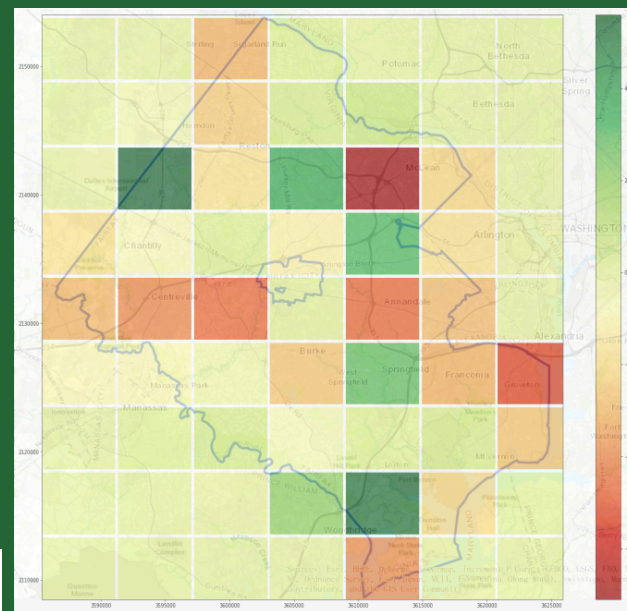
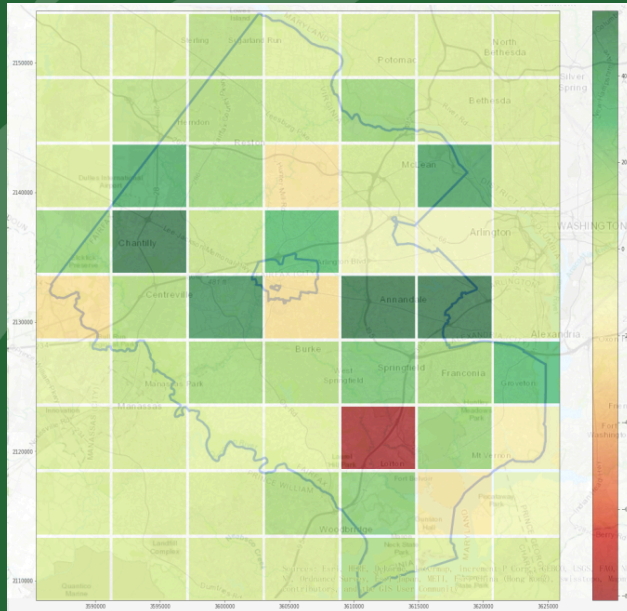
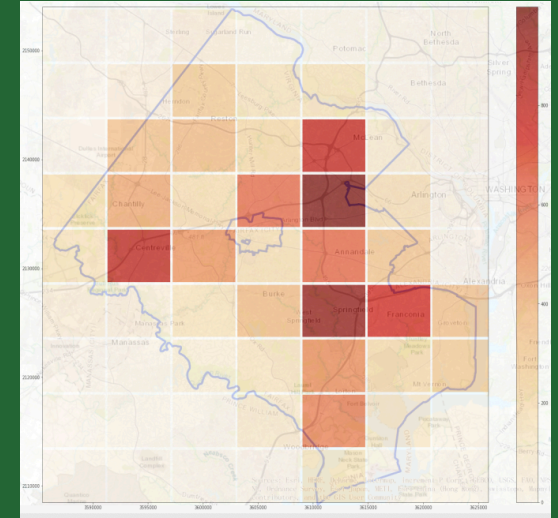
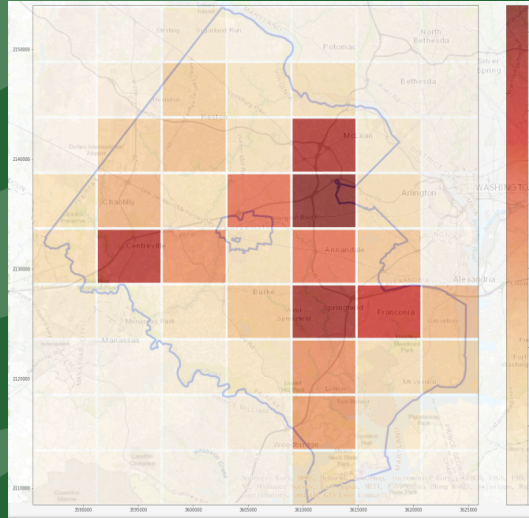
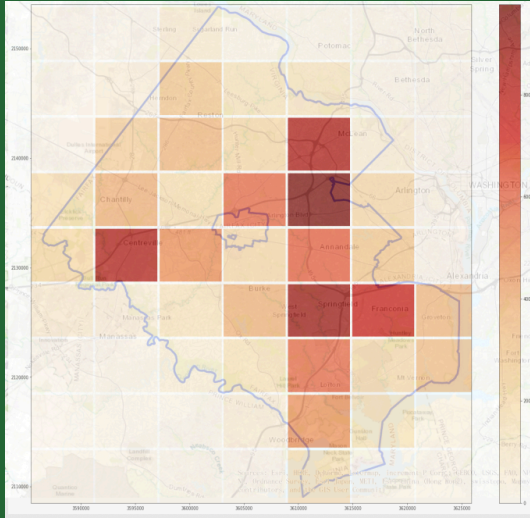
Crash incidents of Fairfax County



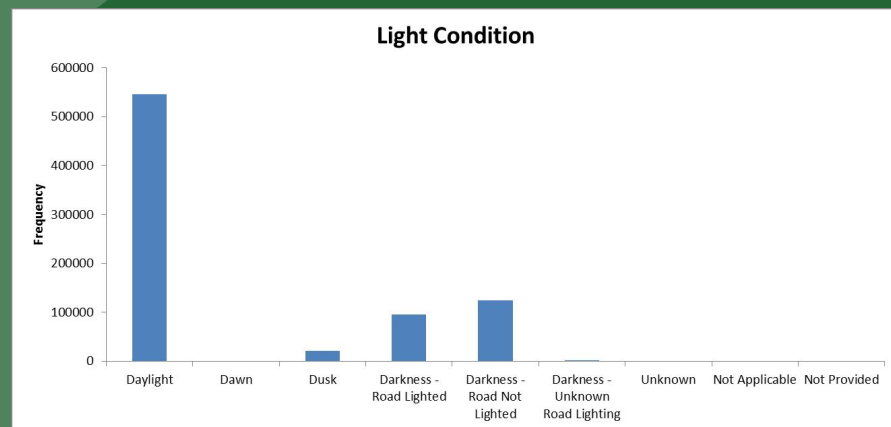
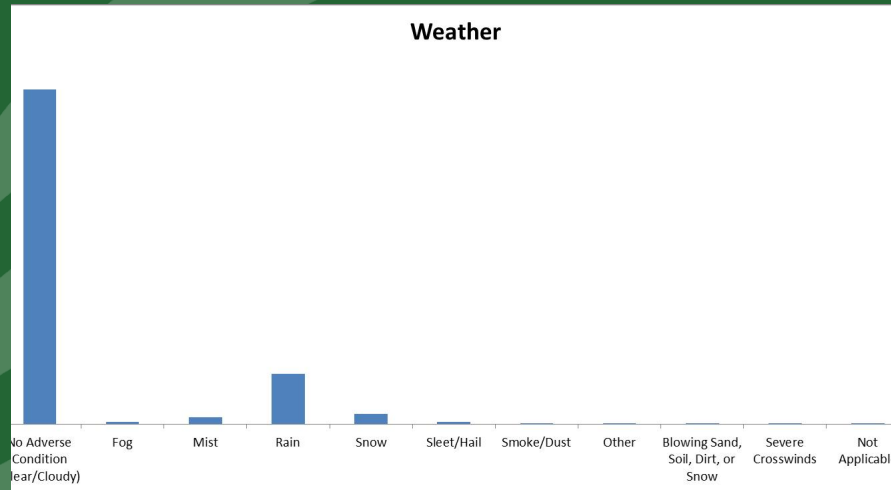
Spatial Grid – 7 years heatmap



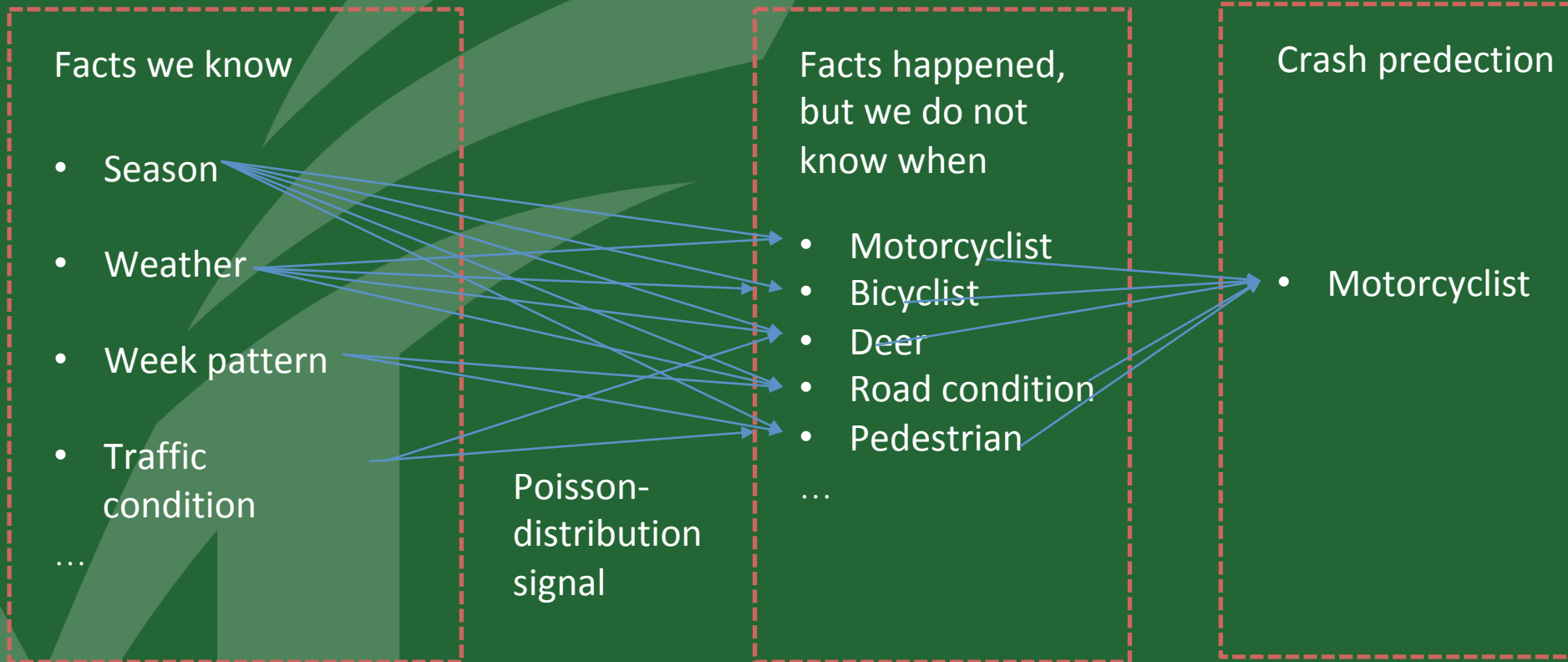
Crash Frequency in Recent Years



Different Conditions



AI system based on Knowledge-network



Conclusions

- Early Prediction of Car Accidents
 - Assists Police Brigades
 - Prepares Health Respondents
 - Alerts Drivers
 - Saves Lives!