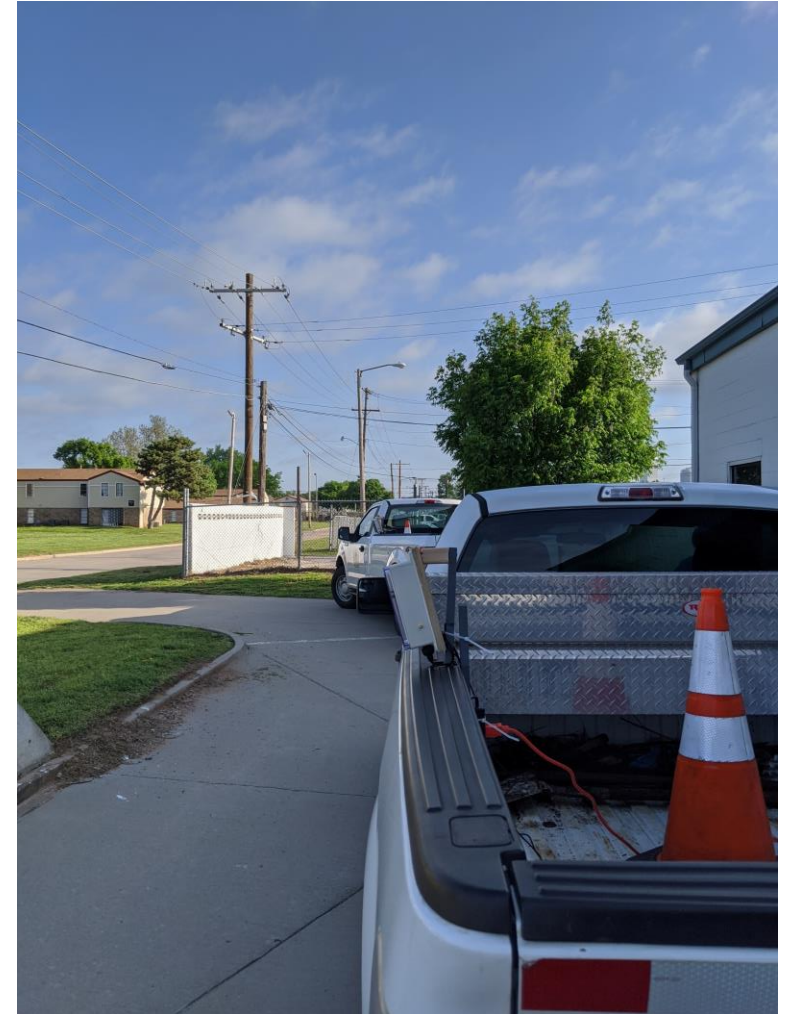# NUISANCE ABATEMENT

What is the problem?

- Code violations like tall grass, trash and cars parked in yards decrease property values

- Enforcement of code violations is costly and labor intensive

- Some property owners want to comply with property codes but do not have the means to do so

How does technology shed light on the problem

- Image data can be collected by many types of city vehicles traveling in all areas of Tulsa

- Code violation locations can be identified from the images

- AI can be trained to recognize code violations from images

- Data can be used to identify property owners and send them a code violation text message

- Data can be used to plot code violations on a map

- Data allows us to encourage community involvement

Devices

How does technology help with the solution?

- Streamlined Nuisance Abatement through website.
  - *WIN doesn't have to visit every nuisance complaint.*
  - *More Nuisances reviewed per City employee.*
  - *A broader area of the City is covered.*
- Automated communication with home owner to encourage resolving the issue themselves.
- Community engagement website allows volunteers to help those who can't afford and or incapable of performing the work themselves.
- Dashboards allow the City to concentrate efforts on problem areas.

Dashboard Demo

How does the website work?

- Develop or Hire someone to create a website.

- Property owner will receive a text message asking if they need assistance correcting their code violation.   If they choose to opt in their violation and location will be put on the public website.

- Volunteers create a user profile on the website. This will allow the volunteer to view the code violation and location then select the one (or ones) they would like to assist with.   Once their project has been completed and cleared volunteers are able to receive community service points.

Website Demo

- https://www.nlfw.org/

Next Steps

- TU Capstone Project
  - *Improving Model Accuracy using 50k+ images*

- Adding Two Cameras to each Vehicle

- Working with City of Tulsa Communications to officially kick-off website
  - *NeighborLink Website*