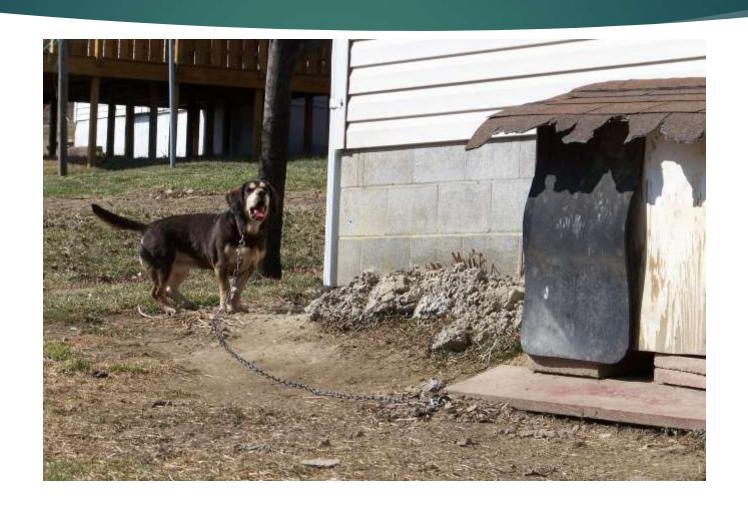


Overview

- Why am I doing this project?
- Two aspects of the project
 - ▶ 1. Chained dogs
 - ▶ Why people chain
 - ► State of current laws
 - ▶ How data helps
 - ► Smartphone application
 - ▶ 2. Dogs in custody
 - ▶ Factors
 - ► Reasons for custody
 - Disposition

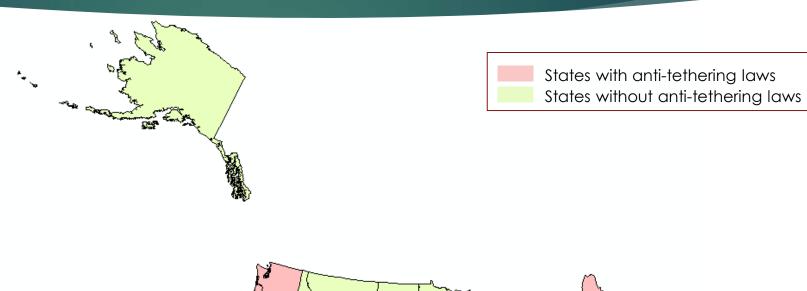
Chained dogs

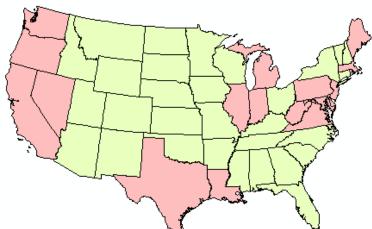


Reasons people chain their dogs

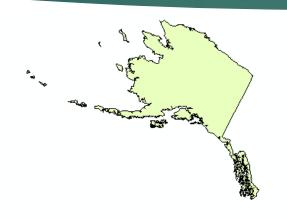
- "Protection"
- Bad behavior
- Runs away / escapes
- New partner who doesn't like / allergic
- Doesn't get along with other pets
- Aggressive behavior

State of current anti-tethering laws

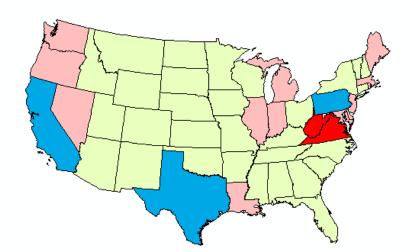




State of current anti-tethering laws



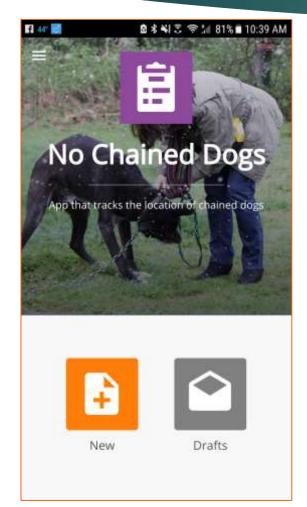


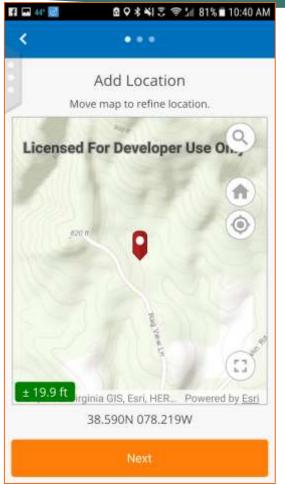


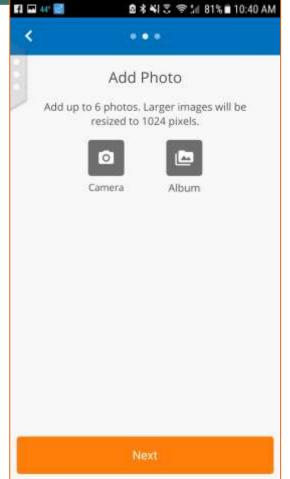
Legislation

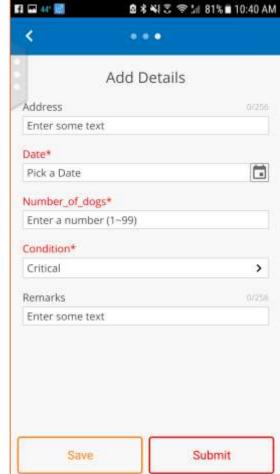
- ► How can data help?
- Who would use the data?
- ▶ To whom would the data be presented?

No Chained Dog Application

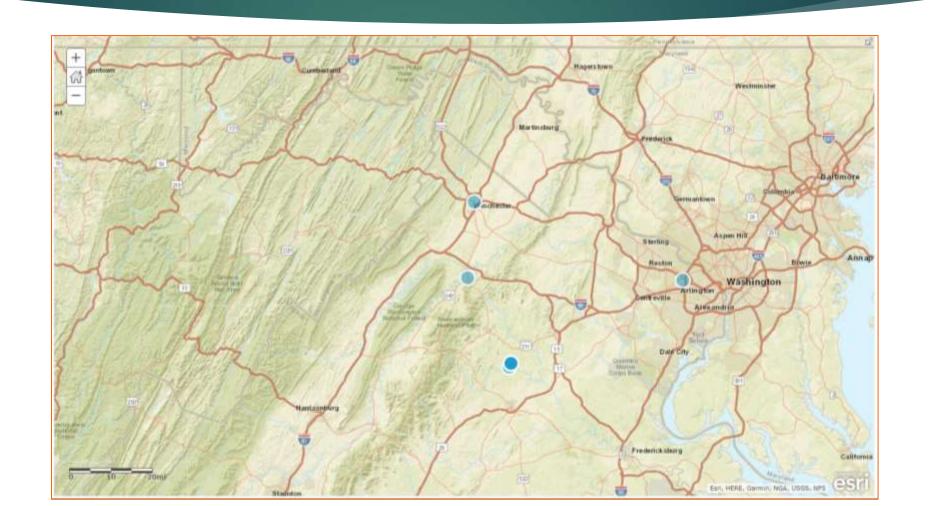




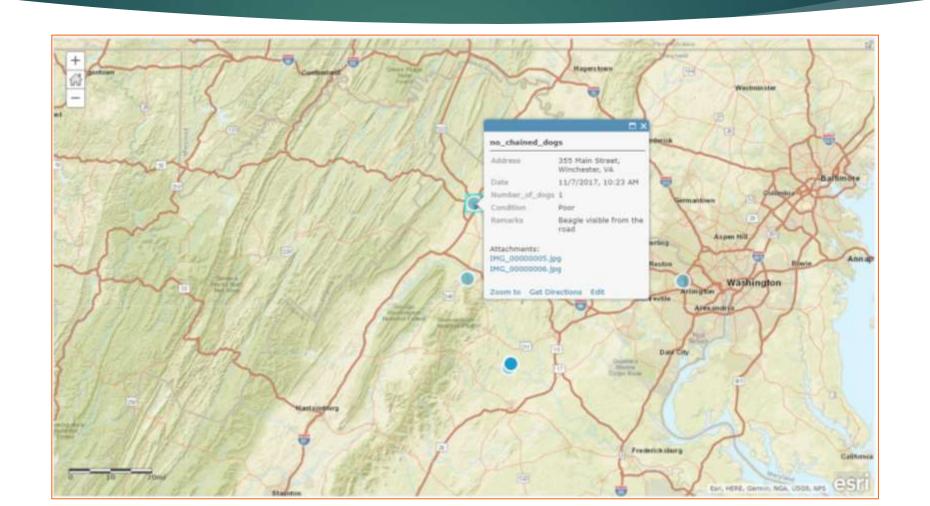




No Chained Dog Application Output



No Chained Dog Application Detail



No Chained Dog Application Image



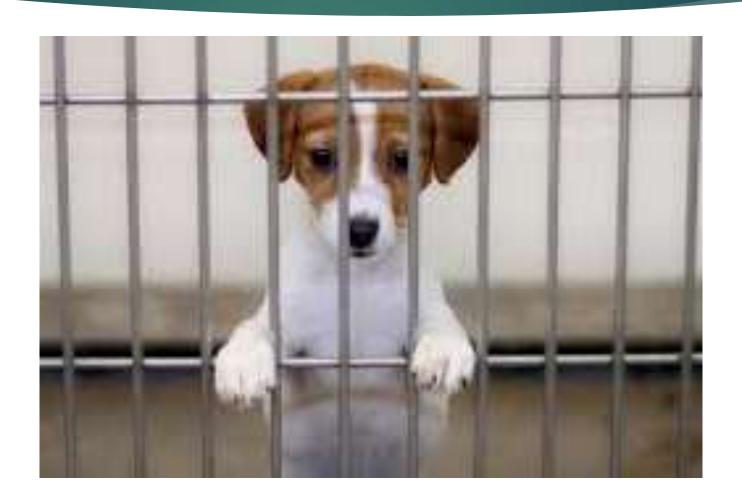
Ethics / Privacy Concerns

- ▶ No personal data released to general public
- No addresses will be collected.
- Pictures showing people will be removed
- ▶ Database will be designed to be searchable by public for general statistics

Issues to be addressed

- Application still not able to be made public
- Progress using ArcGIS stopped
- ▶ Will switch to open source option if necessary

Dogs in custody



Factors

- ► Factors possibly affecting treatment of dogs in Virginia.
 - ▶ Per capita
 - Population
- Shelter data retrieved from the Virginia Department of Agriculture and Consumer Services (VDACS)

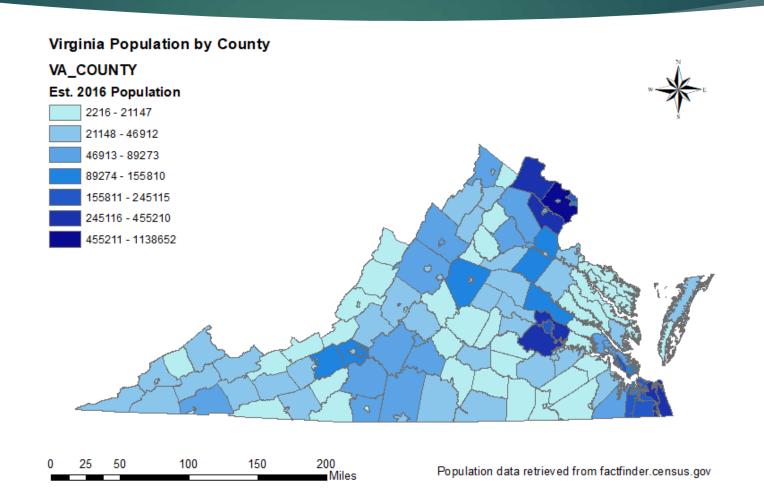
Reasons for custody

- Stray
- Seized
- Surrendered by owner
- Received from another in-state agency
- Received from out-of-state agency
- ▶ Bite case / Quarantine
- Miscellaneous (i.e. dogs born in custody)

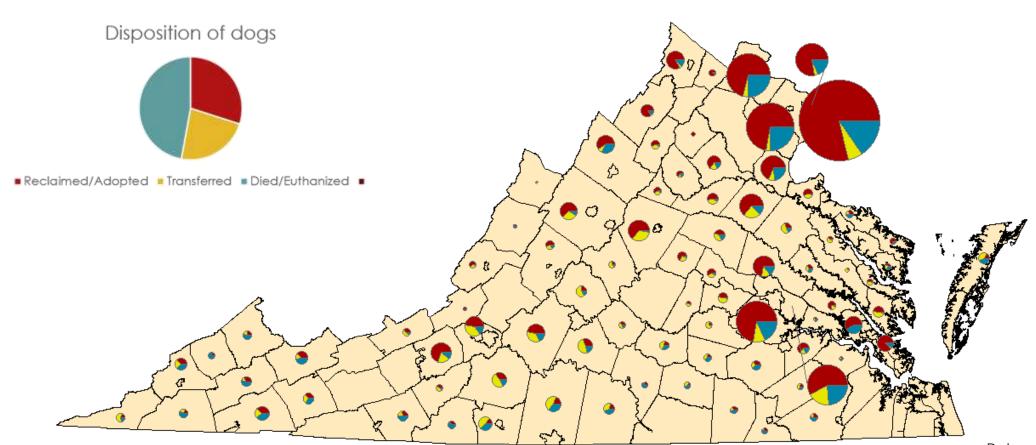
Reasons dogs are no longer in custody

- Positive outcome
 - Reclaimed by owner
 - Adopted
- Negative outcome
 - Died in custody
 - Euthanization
- Neutral
 - ► Transferred to another in-state agency
 - ► Transferred to an out-of-state agency

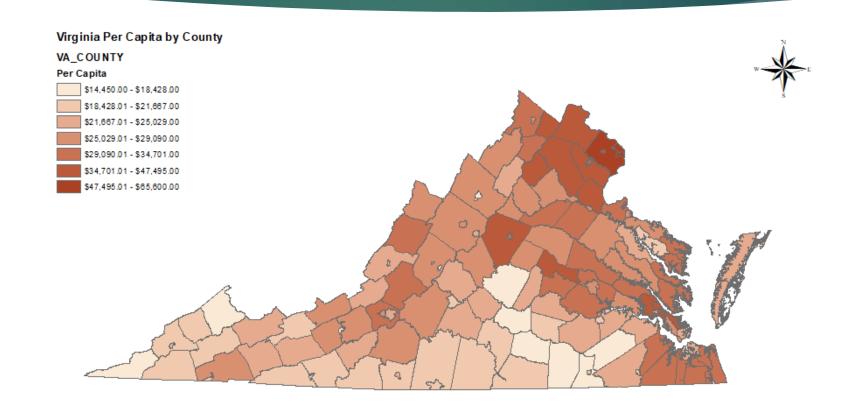
Population



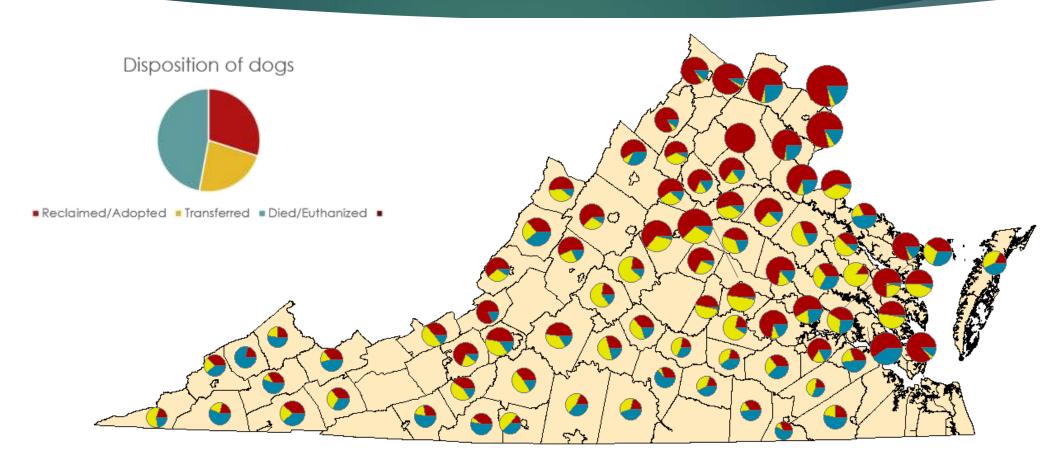
Disposition by County based on Population



Per Capita



Disposition by County based on Per Capita



Results

- ls there a correlation between per capita, population, and the number of dogs that end up in the county shelter?
- Is there a correlation between per capita, population, and the number of dogs that are chained?
- ► The data acquired from this software application will hopefully be used as a tool to bring awareness to the issue of 24/7 tethering

Conference Venues

- ▶ PA GIS in State College in May, 2018,
- Animal Rights National Conference

Resources

- VA counties map retrieved 12 Oct 17 from https://vgin.maps.arcgis.com/home/item.html?id=777890ecdb634d18a02eec604db522c6
- Animal statistics retrieved on 12 Oct 17 from https://arr.va-vdacs.com/Reports06
- List of counties per capita retrieved 12 Oct 17 from https://en.wikipedia.org/wiki/List of Virginia locations by per capita income
- Data for median income retrieved from 25 Oct 17 https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=AC\$ 15 5YR \$2001&prodType=table
- State laws that address chaining retrieved on 25 Oct 17 from https://www.peta.org/issues/companion-animal-issues/current-legislation-tethering-dogs-state-laws/
- Community laws that address chaining retrieved on 25 Oct 17 from https://www.peta.org/issues/companion-animal-issues/current-legislation-tethering-dogs-prohibited-communities/
- Communities that allow limited tethering retrieved on 25 Oct 17 from https://www.peta.org/issues/companion-animal-issues/current-legislation-tethering-dogs-limited-chaining/
- Per capita/median income statistics retrieved on 25 Oct 17 from https://www.census.gov/quickfacts/
- Source of United States map retrieved on 12 Dec 17 from https://www.arcgis.com/home/item.html?id=f7f805eb65eb4ab787a0a3e1116ca7e5
- Shelter dog picture retrieved on 12 Dec 17 from http://people.com/pets/its-official-california-is-the-first-state-to-ban-the-pet-store-sale-of-puppy-mill-dogs/

Questions?

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