

# Integrating GIS into Emergency Response Workflows at Oklahoma DEQ

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# How Emergency Response Operates at DEQ

- Emergency Support Functions (ESF) 3 and 10
  - 3 – Public Works Infrastructure, Debris Management
  - 10 – Hazardous Materials
- Team of EPCRA staff and ECLS staff
- Integrated efforts between Main Office and Field Office Staff

# GIS into Workflow

- Recent addition to official workflows
- Both offline and online capabilities
- Ability to do outreach to potentially impacted facilities
- Would not work without Federal and State Partners

# Offline GIS at DEQ

- Uses an EPA Software Suite called CAMEO (Computer Aided Management of Emergency Operations)
  - 4 interconnected program – Database, Mapping Program, Chemical Database, Plume Modeling
- Made to work in Emergency Situation, no WIFI needed
- All data is stored locally

# Offline GIS Workflow

Partner send in preliminary boundary layer

GIS Layer is imported into MARPLOT

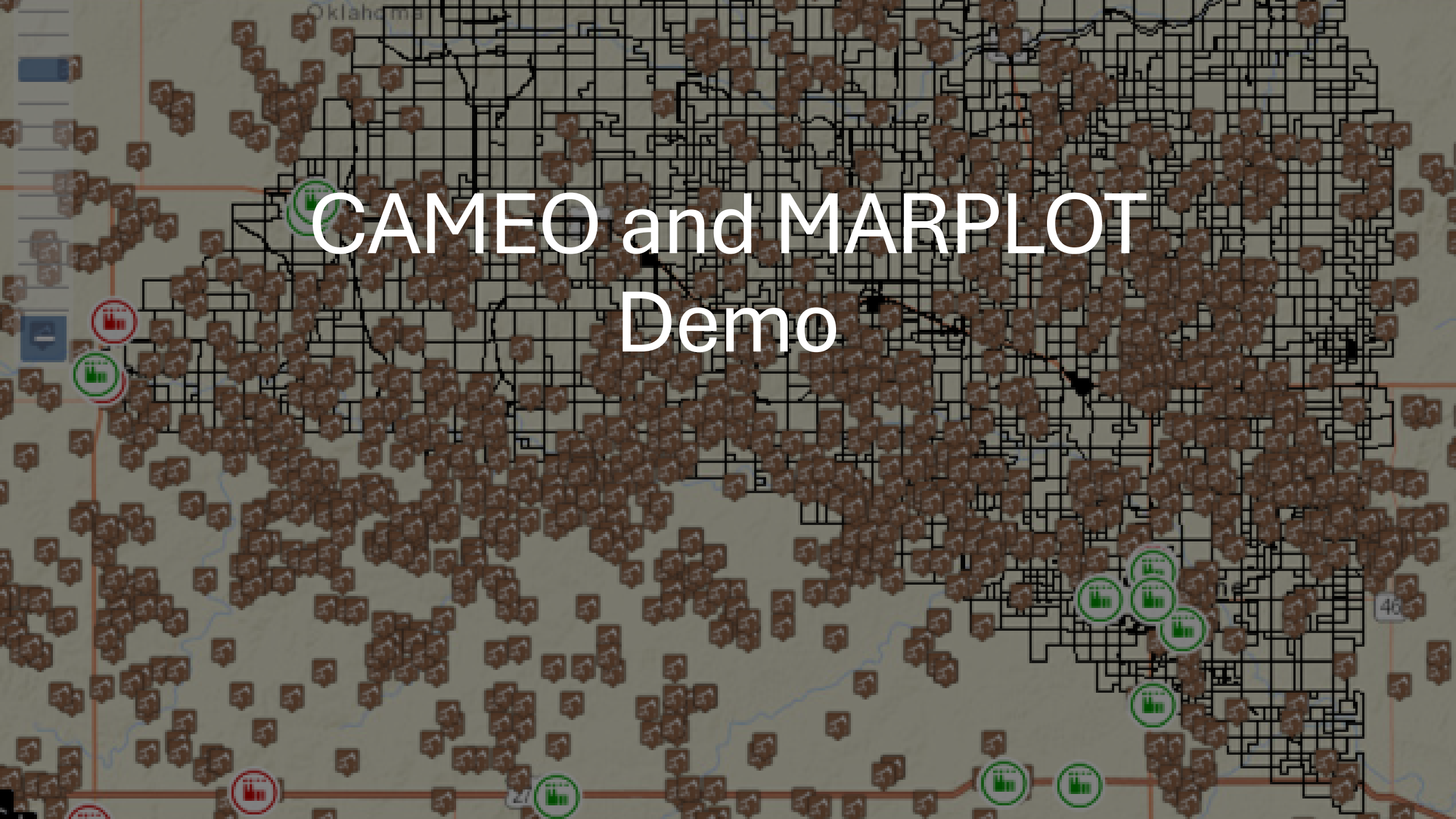
Use Geographic area to run a search for all potentially impacted Chemical Storage Facilities

Using CAMEO, impacted chemical reports are pulled up

DEQ staff makes contact to potentially impacted facilities

DEQ Response Team, DEQ Managers, Impacted Emergency Managers, and LEPCs are sent impacted reports

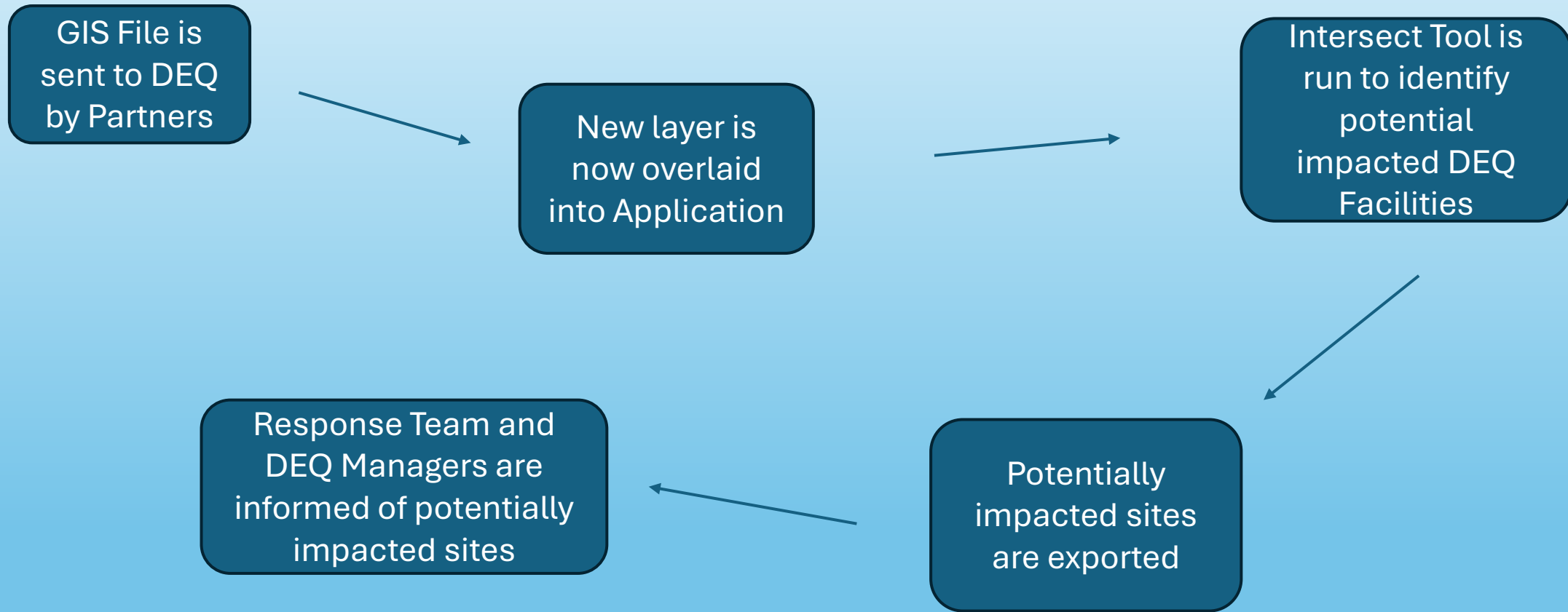
# CAMEO and MARPLOT Demo

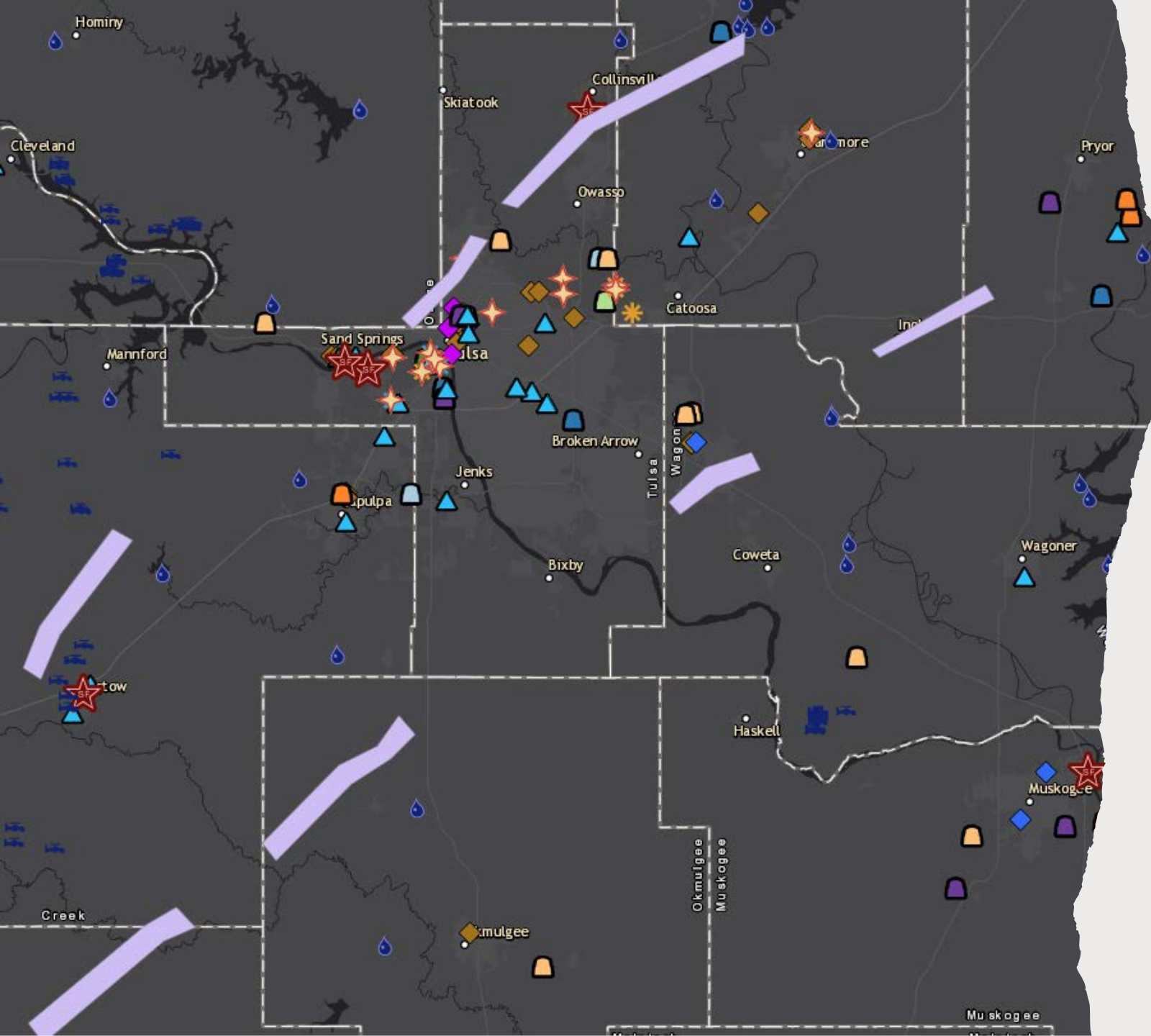
The background is a map of a city, likely Oklahoma City, showing a dense grid of brown icons representing buildings or data points. Overlaid on this map are several circular icons: a green circle with a white building icon, a red circle with a white building icon, and several green circles with white building icons. The text "CAMEO and MARPLOT Demo" is centered over the map in a large, white, sans-serif font.

# Online GIS at DEQ

- Set up AGO and Enterprise System
- DIRT – App made in 2020, fully integrated into the workflow
- Easily Customizable with Data needs
- Lives on Enterprise System – DEQ users only

# DIRT Application Workflow





DIRT Demo

# What's Next?

- Continued integration of DEQ Data
- More use internally
- ?? Who knows what else

# Questions?



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