Map Design Outline—storymap format, scrolling side panels with a map that updates in the background

1. Intro about pollution in general: different types, the EPA—map shows EPA regions, introduce the TRI and Superfund Program
2. TRI inventory introduction- show general location of all TRI sites (clustered)
3. Superfund sites- show general location and info about program (clustered) The sites shown are on the NPL, with a hazard ranking score above 28.5
4. Where are all these sites concentrated? hexgrid choropleth showing total site density
5. What does the TRI monitor? Look at total lbs released vs risk score. How risk assessment has to take other factors than just amount into consideration- RSEI scores, graduated circles, dropdown between total release in pounds and RSEI scores to show how total release doesn’t necessarily convey the total risk or hazard
6. For example, Harris County Texas has the highest total RSEI score
   1. Show all TRI facilities in the county, graduated circles based on score
   2. bring in ethylene oxide releasing facilities that are causing the high score—bring in air quality for Texas census tracts, show reach of air pollution
7. After Houston, which is in Harris County, Chicago has the next highest RSEI score-look at census data for vulnerable populations underneath TRI facilities (symbolized by graduated circles)
8. Who is operating these facilities—parent company map—narrative about different industries, bar graph of breakdown?
9. Superfund sites on the other hand are mostly the result of facilities that are no longer in service and that operated prior to EPA regulations, leaving toxic waste behind. These sites are all highly contaminated but some are more serious than others. The Superfund program classifies sites as to whether or not they have groundwater mitigation/human exposure under control and HRS score helps classify which pose the most risk-show sites that don’t have at least one factor under control, symbolized with graduated circles according to HRS score. Then zoom into 3 different Superfund Site stories:
   1. GE - Housatonic River in Pittsfield MA-clean-up activities scheduled all the way down Housatonic river through Connecticut (<https://semspub.epa.gov/work/01/644045.pdf>)
      1. First zoom to site and talk about contamination there,
      2. then zoom all the way out to river and mention how contaminants travelled.
   2. Zoom to Depue/New Jersey Zinc/Mobil Chemical Corp. in Depue IL-info-georeferenced site map showing outlines (<https://www2.illinois.gov/epa/topics/community-relations/sites/new-jersey-zinc/Pages/default.aspx>)
      1. Zoom to area
   3. Old Lead Mining Belt in Missouri-7 Superfund NPL sites encompass 4 entire counties in Missouri.
      1. Zoom to area and discuss
      2. Then bring in TRI facilities that still contribute to pollution here
10. How does this affect you? Address search—create buffer around point, find TRI facilities with buffer populate info box with release total release amounts and scores, find Superfund sites within buffer, and show distance to closest one (link to site’s webpage)