Scene Layout

Intro—title and brief description with background image?

1. Superfund Program—show clusters of sites
   1. Describe the HRS and show top sites symbolized by their HRS. But sites represented as points can be misleading, because when you think of a site it is generally not just one single point location, but rather a large area that is affected.
2. Missouri Old Lead belt: zoom in to the seven sites—narrative describing the area, highest HRS score, etc, sites have pop-ups with data
   1. Bring in county outlines and zoom out to see these, describe how all four counties are contaminated as a result of these 7 sites.
3. GE Pittsfield Housatonic River: zoom in on particular site—narrative describing site
   1. Georeferenced site map shows actual extent of the site
   2. But then describe how pollution travelled down Housatonic river and zoom out to whole river to show full extent of pollution
4. Toxic release inventory facilities-show clusters of sites
   1. Discuss complexity of system, how facilities are reported based on amounts of specific chemicals. But hazard depends on toxicity weights, and fate of chemical in environment. Show top sites by RSEI score, these scores can be compared across time and space to evaluate risk compared to other facitlities
5. ~~Tennessee Watershed-- Eastman Chemical Co Tennessee Operations on the South Fork Holston River has a total RSEI score of 802,241 by direct water release, primarily from arsenic and dioxane.~~
6. Chemical Valley in West Virginia: zoom to area—brief narrative, show facilities here
   1. 2014 Elk River chemical spill—show site that isn’t even included in TRI data because it did not properly report or have permits
   2. Zoom out to all counties affected by the spill
7. Look at facilities along waterways?
8. CDC Vulnerability index? Look at an area or two that would be most vulnerable in case of chemical spill?
9. Pollution on Tribal Lands—Puyallup Tribe?
10. End scene with geocode to find sites close to you? Maybe calculate which watershed you are in, and then show facilities in that watershed?

Other Scene Ideas to Explore

Watershed with highest scores from water releases?—or facilities located on waterways?

Chemical Valley in West Virginia—show change over time? Talk about spills

Elk River

Dupont in Washington WV

Then show facilities on waterways?

CDC Social Vulnerability Index—find an area or two that would be most vulnerable in case of chemical spill?

Pollution on Tribal Lands—discrepancies in reporting data (US Government Accountability Office found that the EPA should improve the reliability of data on NPL sites affecting Indian Tribes ([source](https://www.gao.gov/assets/700/696566.pdf))

Show all superfund sites with Native American Interest, according to EPA data—then show all sites located on tribal land by geospatial analysis—maybe a data visualization?

Show all 2018 TRI facilities on tribal land according to EPA data—then show all facilities located on reservation by geospatial analysis

Case studies?