

## Environmental Data Mapping Tools

The Council on Environmental Quality, in partnership with the U.S. Digital Service and in collaboration with other Federal agencies and departments, developed the Climate and Economic Justice Screening Tool (CEJST) pursuant to Executive Order 14008 on Tackling the Climate Crisis at Home and Abroad. Other Federal agencies have also used publicly available climate, environmental and health data to create geospatial mapping tools. The table below shows the similarities and key differences between these tools.

	Council on Environmental Quality (CEQ) + U.S. Digital Service  <a href="#">Climate and Economic Justice Screening Tool (CEJST)</a>	Environmental Protection Agency (EPA)  <a href="#">EJScreen</a>	Department of Health and Human Services (HHS)  <a href="#">Environmental Justice Index (EJI)</a>	National Oceanic and Atmospheric Administration (NOAA)  <a href="#">Climate Mapping for Resilience and Adaptation (CMRA)</a>	Department of Energy (DOE)  <a href="#">Energy Justice Mapping Tool - Disadvantaged Communities Reporter</a>	Department of Transportation (DOT)  <a href="#">Transportation Disadvantaged Census Tracts</a>
<b>Purpose</b>	As required by EO 14008, help Federal agencies guide the benefits of certain programs, including those in the Justice40 Initiative, by identifying disadvantaged communities that are overburdened by pollution and underserved.	Highlight vulnerable communities facing higher environmental burdens using nationally available and consistent datasets.	Help public health officials and communities identify and map areas most at risk for the health impacts of environmental burden by measuring the cumulative impacts through the lens of human health and health equity.	Help community members learn about their climate hazard exposure, develop climate resilience plans, and get directed to grants. Integrates information from some of these other tools and links to them.	Give DOE and community members the ability to explore and produce reports on census tracts the DOE has identified as disadvantaged pursuant to the Justice40 Interim Guidance.	Help DOT Justice40 program applicants in identifying whether a project is located in a census tract that meets the definition of disadvantaged community set forth in the Justice40 Interim Guidance.
<b>Intended audience/s</b>	Federal agencies and community members	EPA, government partners, and community members	HHS, public health officials, scientists, researchers, and community members	Community members and leaders at all levels of government	DOE and community members	DOT Justice40 program applicants
<b>Developed by</b>	CEQ + USDS	EPA	HHS/Centers for Disease Control and Prevention/Agency for Toxic Substances and Disease Registry (CDC/ATSDR)	Partnership led by NOAA; developed by Esri	DOE	DOT
<b>Type of methodology/ how is it calculated</b>	Threshold methodology that looks across multiple categories of indicators	Full analytical tool with multiple methods of calculation. EJScreen creates indexes by combining a single environmental burden indicator with socioeconomic factors, including threshold maps for a cumulative outlook across multiple burdens, provides various reports, and allows overlays of multiple datasets.	Cumulative impacts score calculated using 36 indicators across categories of social vulnerability, environmental burden, and health vulnerability	Displays real-time hazard exposure data and future climate projections. Also integrates info from the CEJST and FEMA's National Risk Index and National Building Code Adoption Tracker	Cumulative burden score derived from 36 equally weighted indicators, selected from top 20% of tracts in each state, and further selected by income	Threshold methodology that looks across multiple categories of indicators