

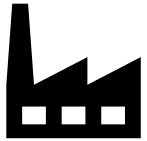


Environmental Justice (EJ) Mapping Tools in Massachusetts

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MA Toxics Use Reduction Act (TURA) of 1989



Who reports?

Massachusetts manufacturers who:

- Operate under certain Standard Industrial Classification (SIC) codes
- Have >10 employees
- Manufacture or process $\geq 25,000$ lbs (or otherwise use $\geq 10,000$ lbs) of listed substances

Covers a little over 400 MA facilities



What TURA requires

- Report to the state
- Pay a fee
- Create a Toxics Use Reduction Plan every two years

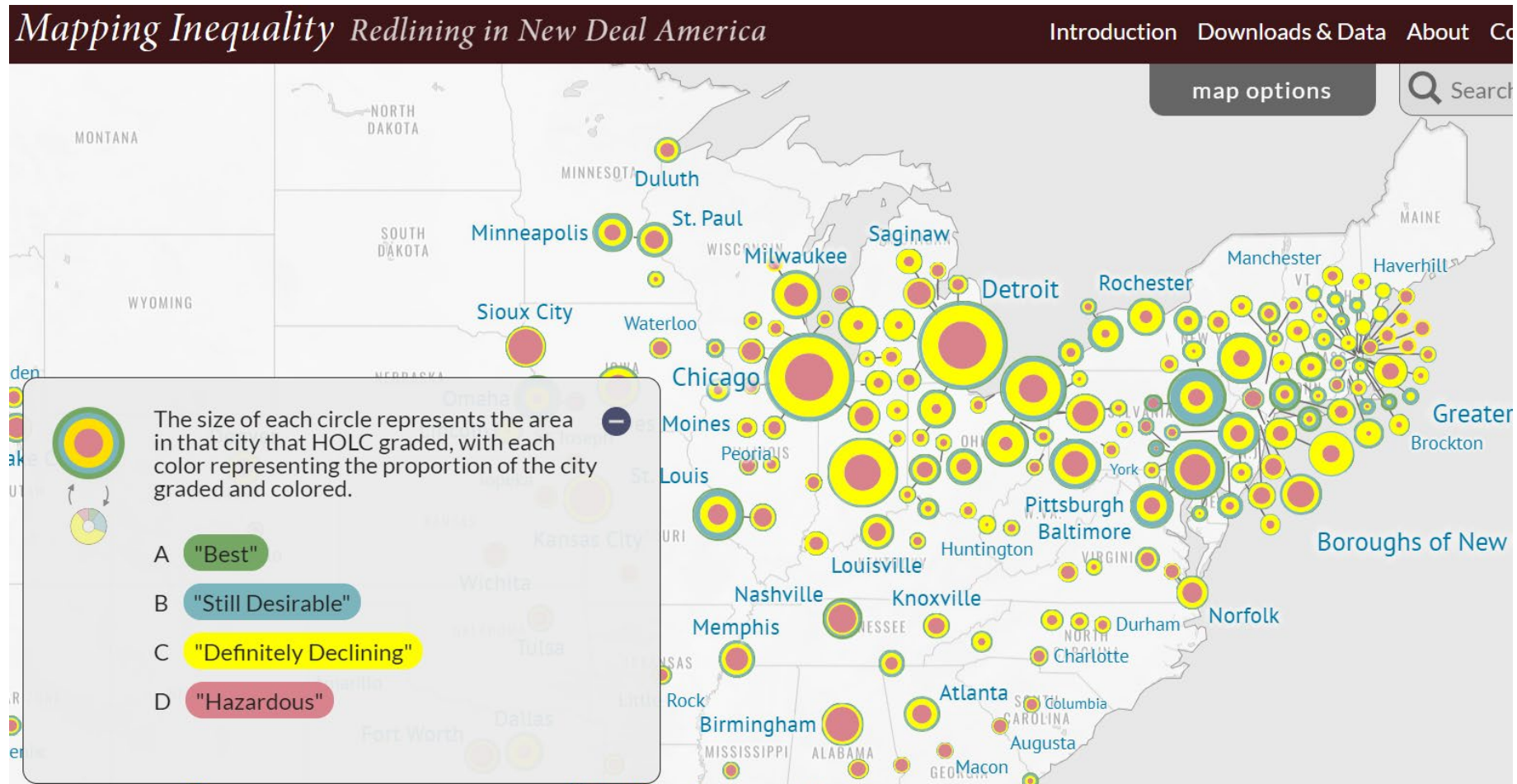
TURA does not prohibit companies from using listed chemicals.

Office of Technical Assistance (OTA)

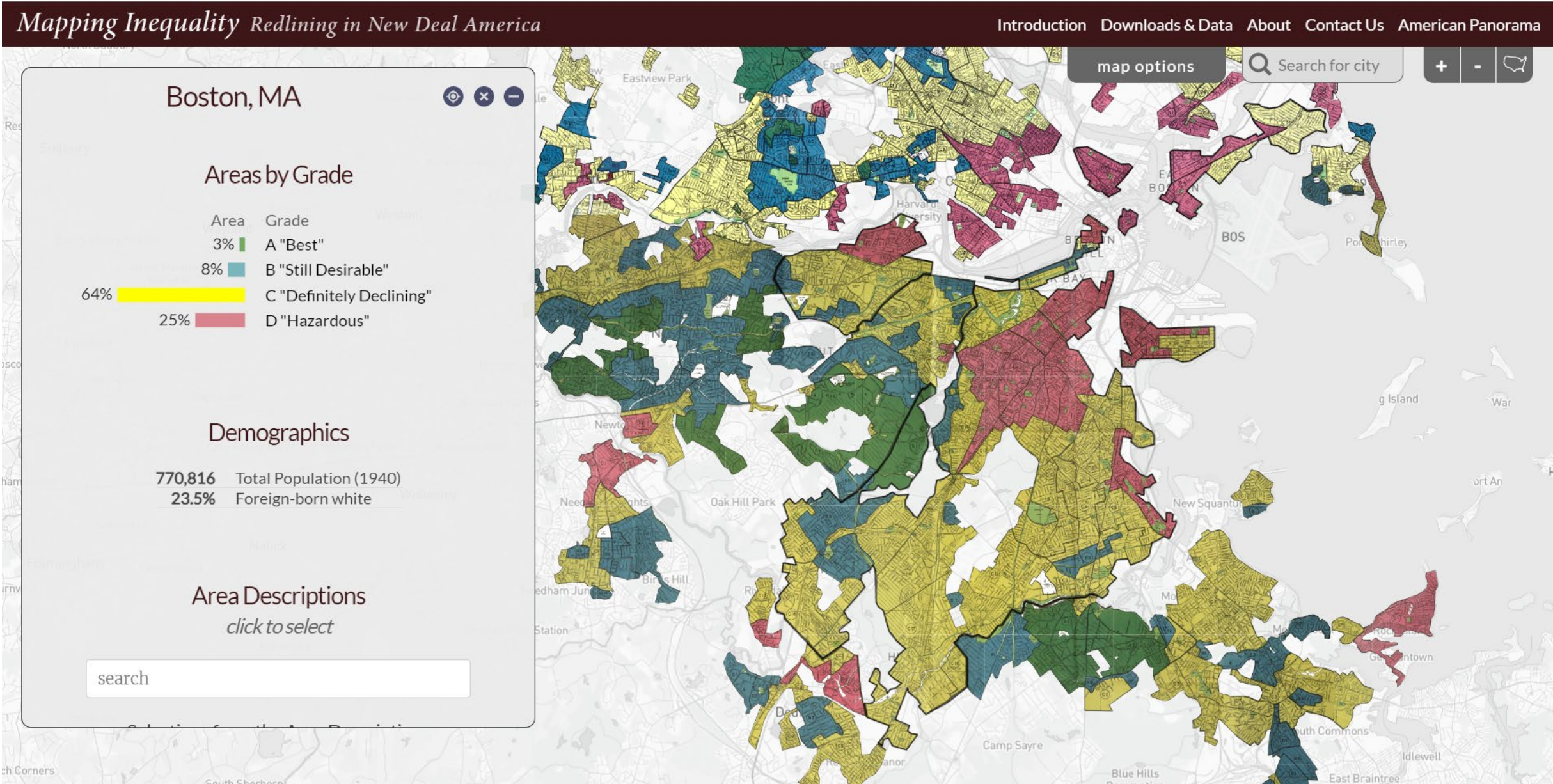
- **Non-regulatory** agency
- Provides **free, confidential** technical and compliance assistance to MA businesses that use toxic substances
- Gives **concrete recommendations** for toxics reduction and resource conservation

OTA has conducted 3,500 site visits at 1,500 facilities, reducing **millions of pounds** of toxic chemicals and **millions of dollars** in operating costs.

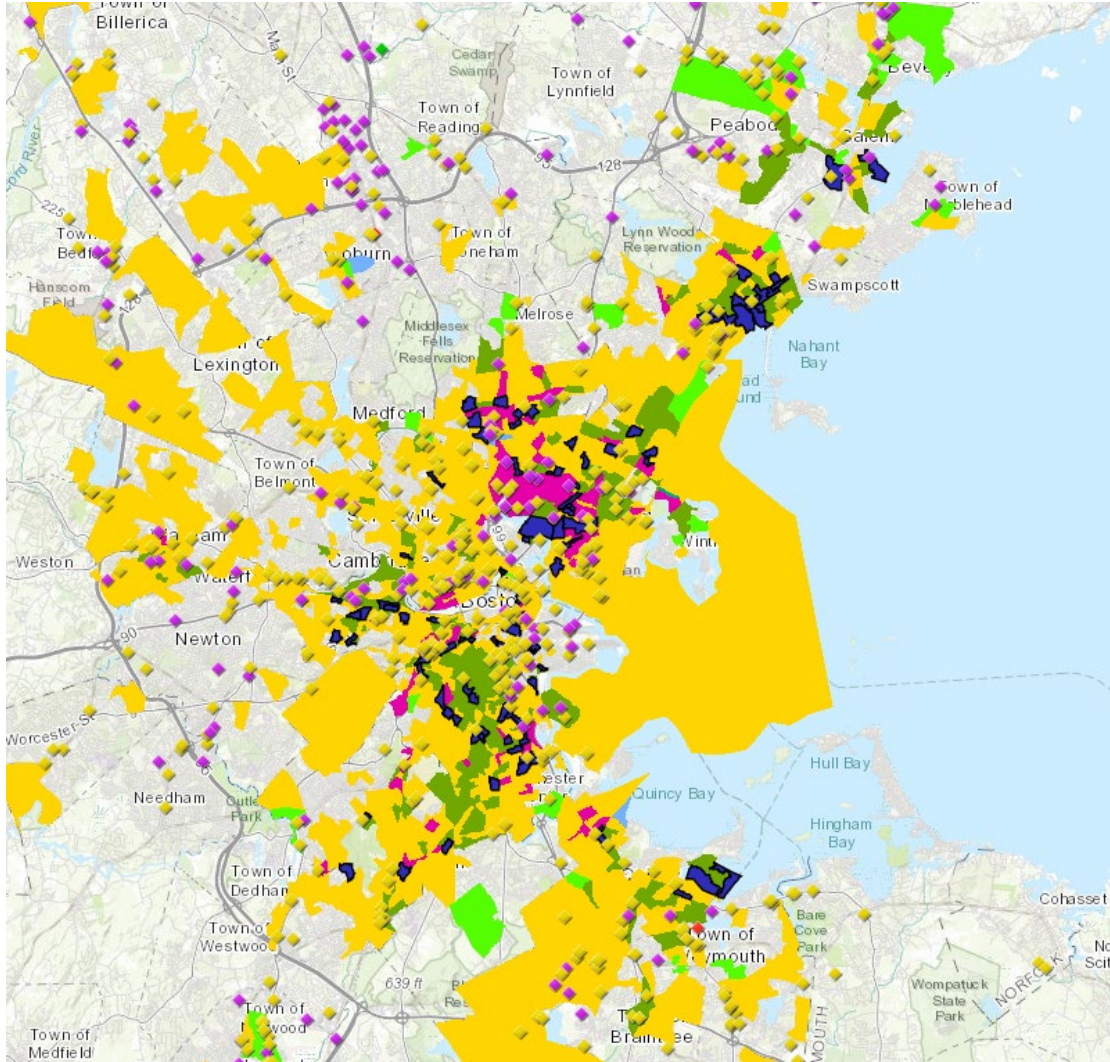
Context for Environmental Justice (EJ): Historical and Systemic Practice of “Redlining”



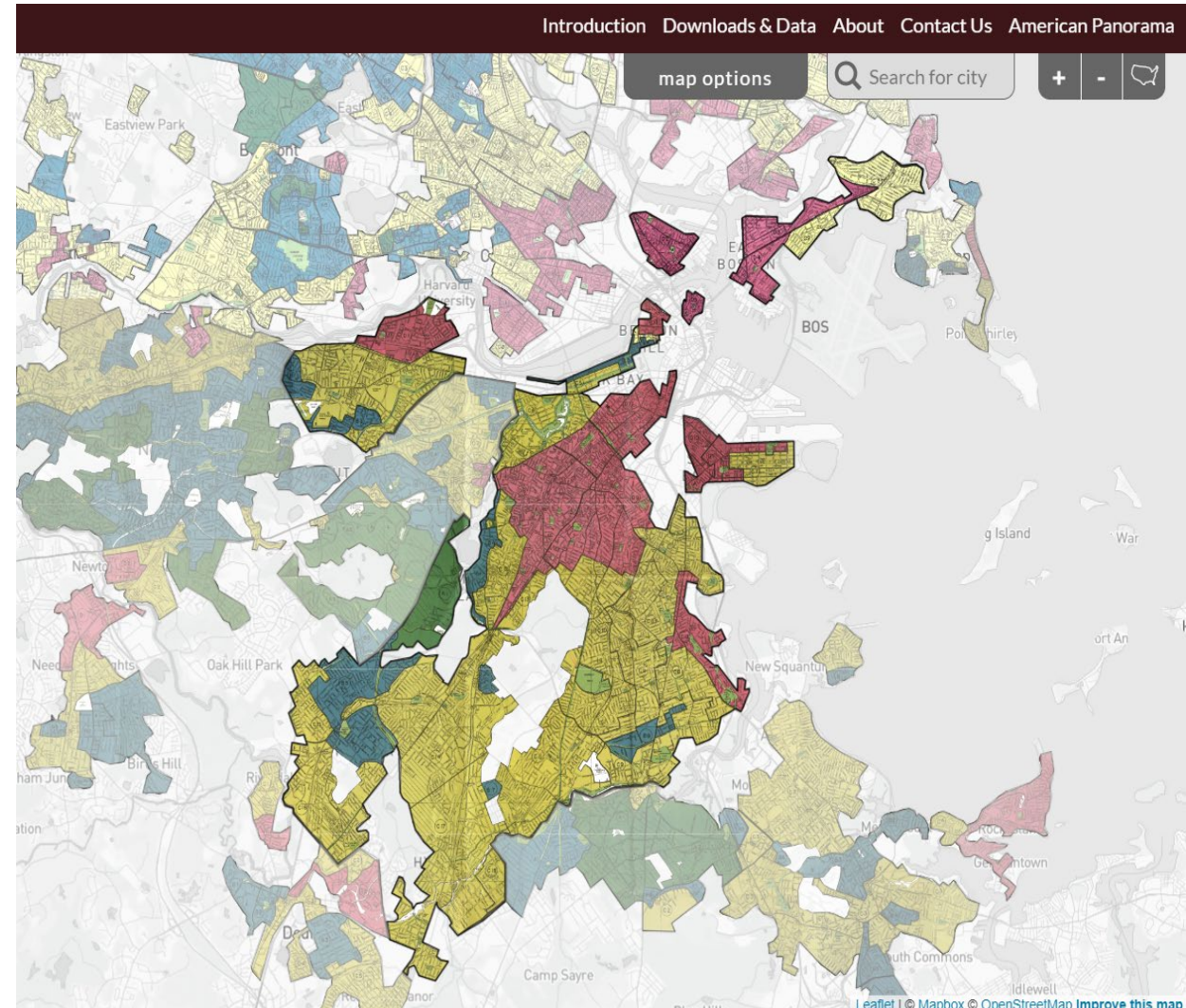
Mapping Inequality: Redlining in New Deal America



Current EJ Populations vs. HOLC Red-lining map



[OTA Mapping Tool](#)



[Mapping Inequality: Redlining in New Deal America](#)

MA Executive Office of Energy and Environmental Affairs (EEA) EJ Policy

What is EJ?

“
As defined by the Executive Office of Energy and Environmental Affairs (EEA), EJ is the principle that all people have the right to be protected from environmental hazards and to live in and enjoy a clean and healthful environment. EJ is the equal protection and meaningful involvement of all people with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies and the equitable distribution of environmental benefits.

Key Definitions of Environmental Justice in Massachusetts

Environmental Justice

Environmental Justice is based on the principle that all people have a right to be protected from environmental hazards and to live in and enjoy a clean and healthful environment regardless of race, color, national origin, income, or English language proficiency. (MA EEA Environmental Justice Policy, 2021)

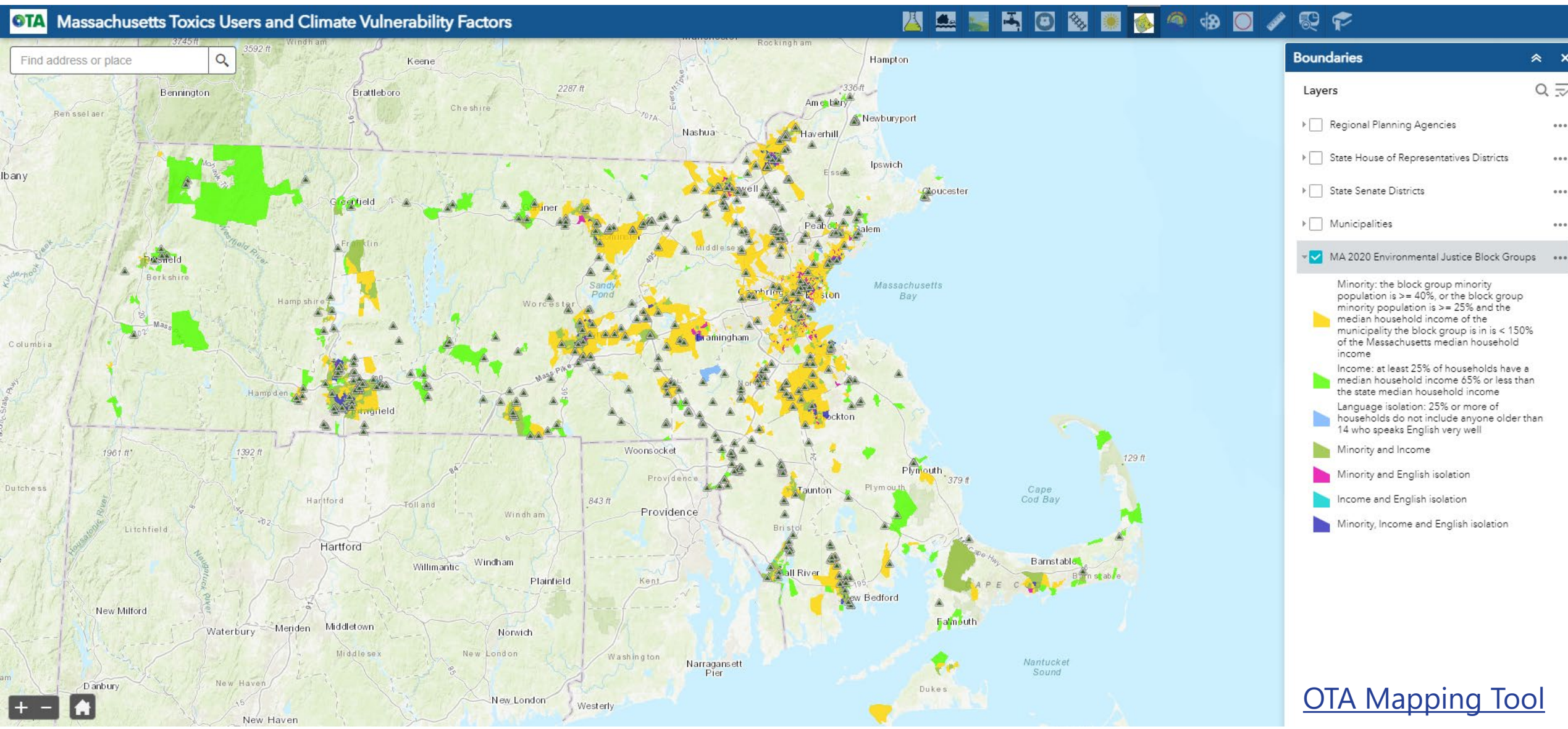
Equal Protection

The protection of all groups of people regardless of income, ethnicity, class, handicap, race, color, religious creed, national origin, sex, gender identity, sexual orientation, genetic information, or ancestry from an unfair burden of environmental hazards and/or limited access to environmental benefits (e.g., clean and natural resources). (MA EEA Environmental Justice Policy, 2021)

Meaningful Involvement

All neighborhoods have the right and opportunity to participate in energy, climate change, and environmental decision making. (MA EEA Environmental Justice Policy, 2021)

Using OTA's Mapping Tool: Environmental Justice



Environmental Justice Populations in Massachusetts

In Massachusetts, a neighborhood that meets one or more of the following:

Low Income

- Block group whose annual median household income is equal to or less than 65 percent of the statewide median (\$89,026 based on 2017 – 2021 census ACS 5-year estimates).

People of Color (Minority)

- 40% or more of the residents identify as a race other than white.

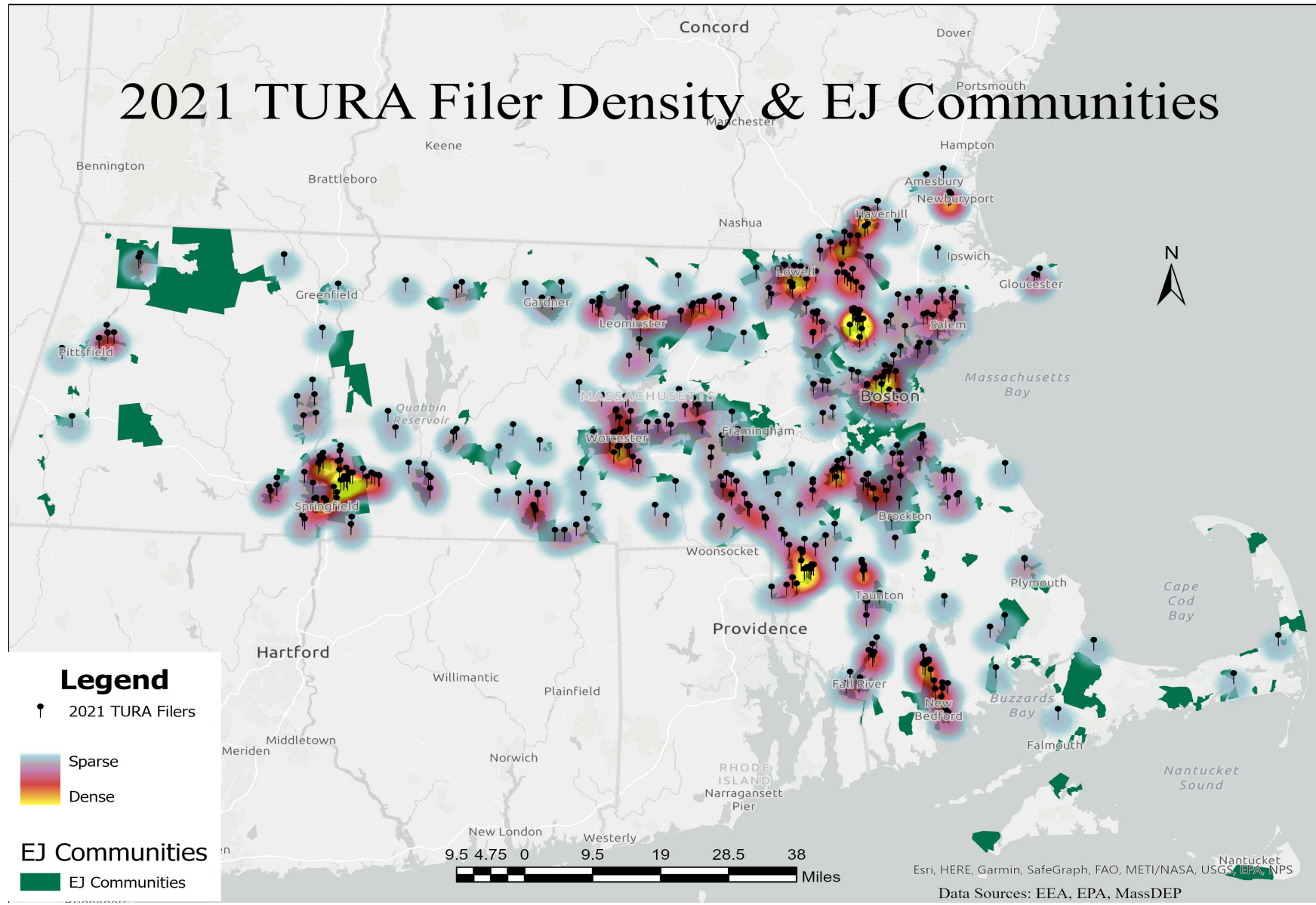
Limited English Proficiency (English Isolation)

- 25% or more of households lack English language proficiency

People of Color (Minority) and Low Income

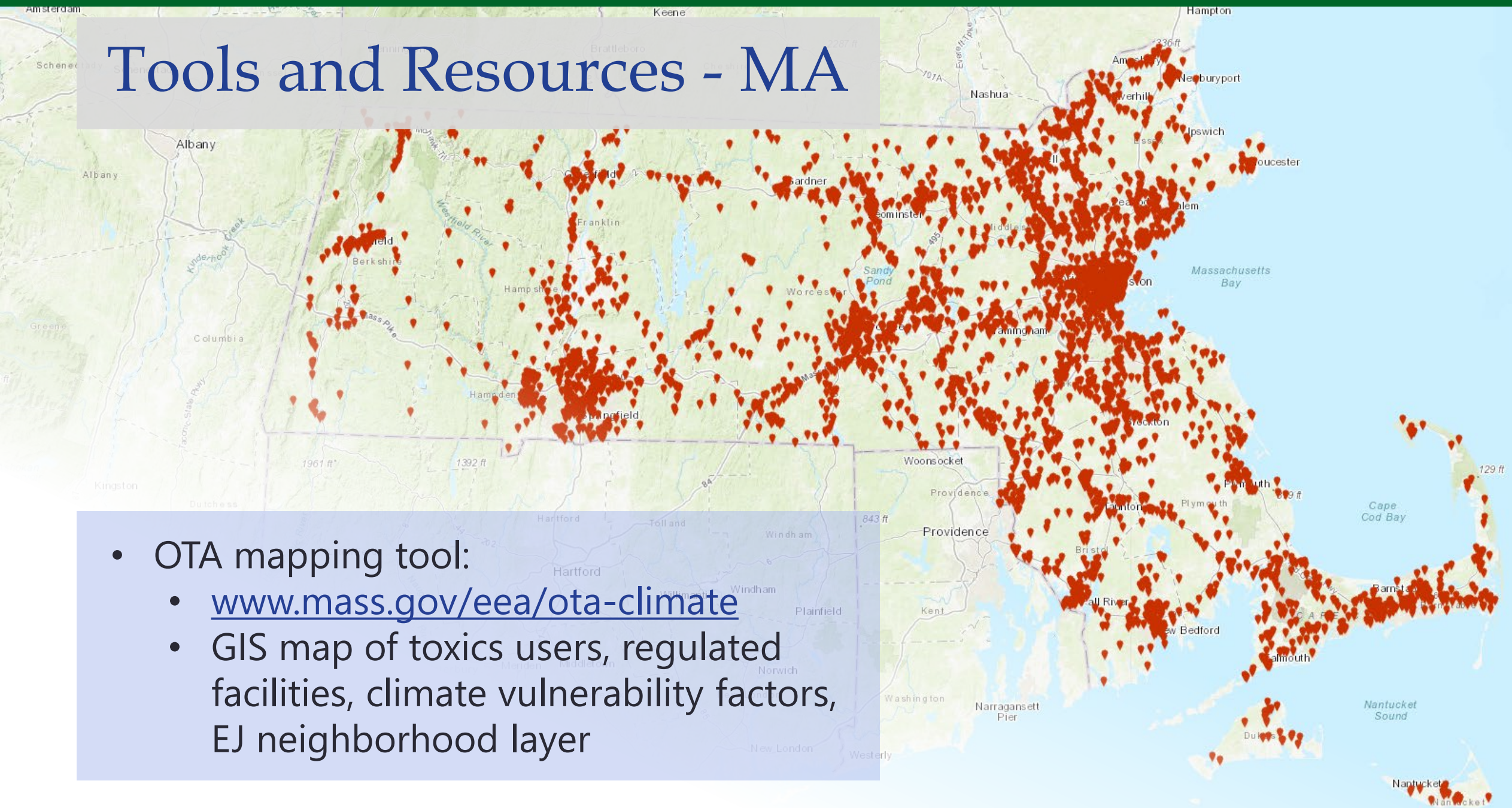
- 25% or more of the residents identify as a race other than white and annual median household income of the municipality in which the block group is located does not exceed 150% of the statewide annual median household income.

TURA Filer Density and Environmental Justice



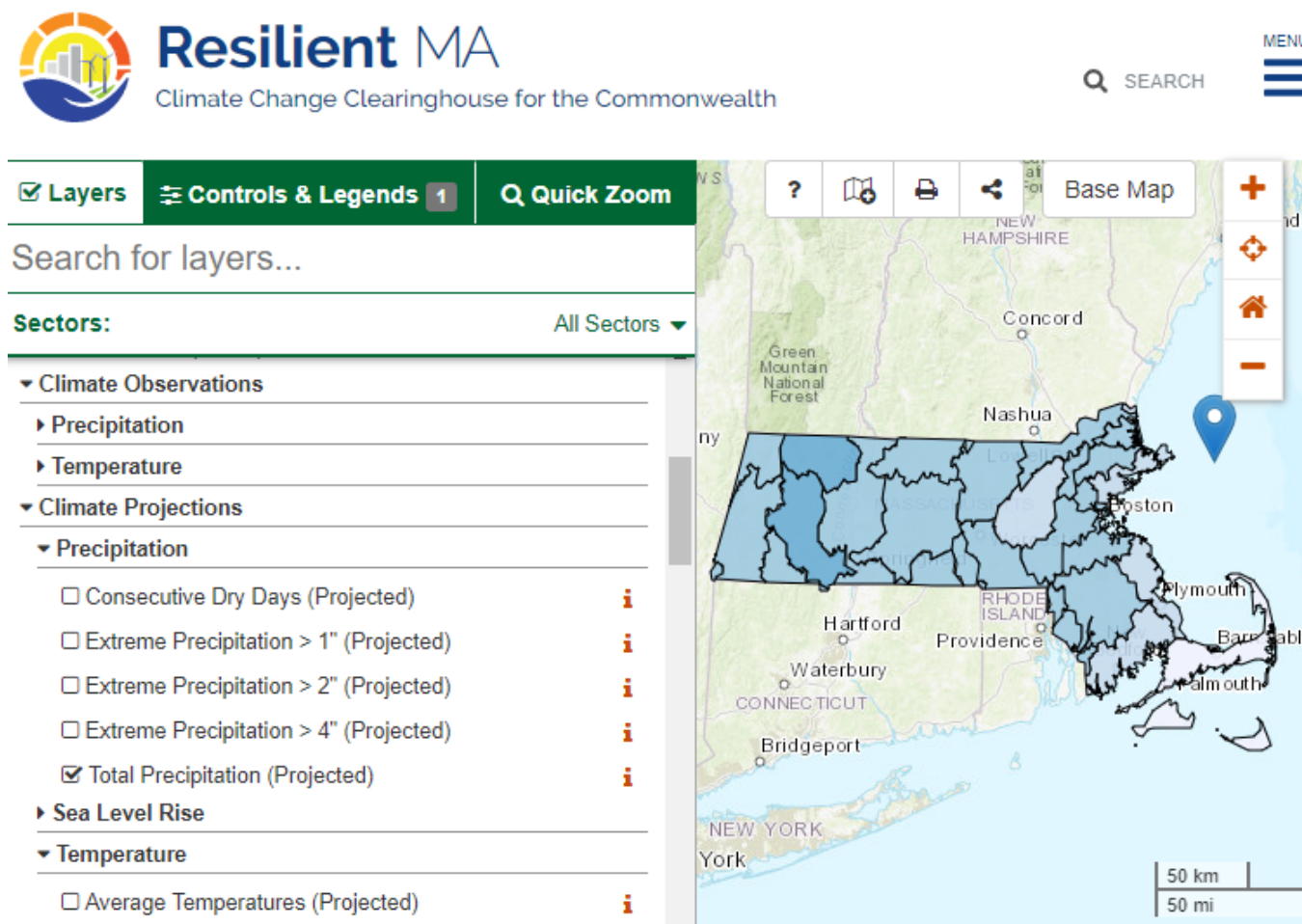
Tools and Resources - MA

- OTA mapping tool:
 - www.mass.gov/eea/ota-climate
 - GIS map of toxics users, regulated facilities, climate vulnerability factors, EJ neighborhood layer



Additional Mapping Tools - MA

- Existing data, e.g., FEMA flood maps, based on historical patterns
- Future projections for precipitation, sea level rise, and temperature based on modeling of GHG emission scenarios (RCP 4.5 & 8.5)
- EJ data layer

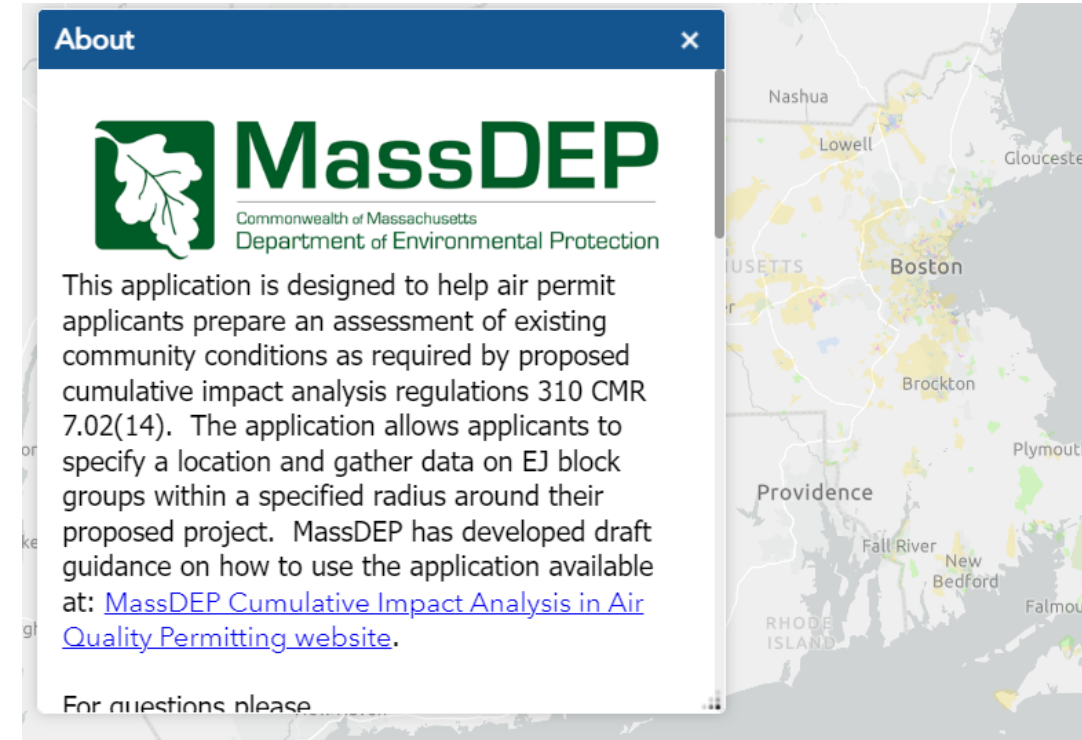


<https://resilientma.mass.gov/map/>

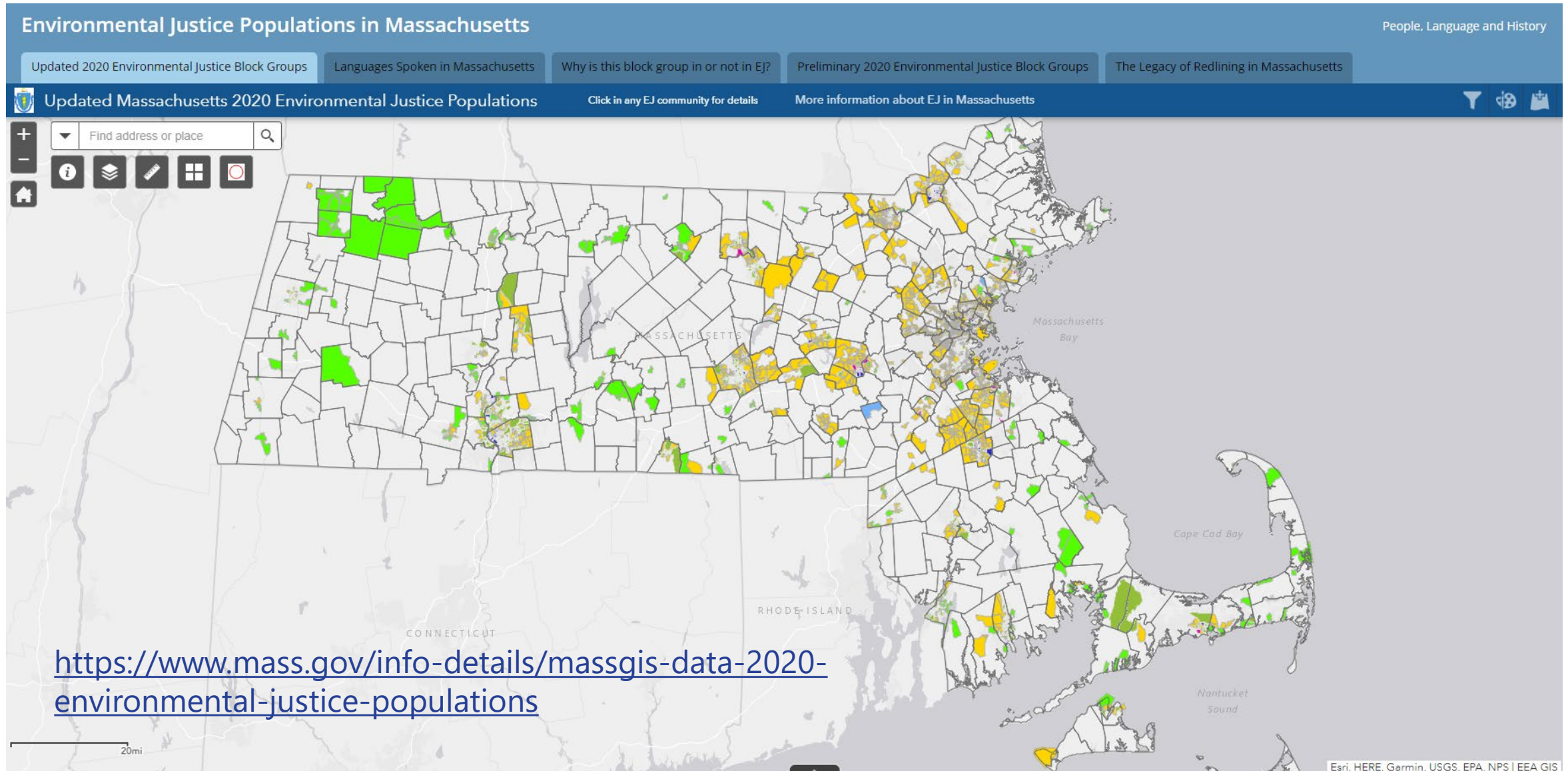
Additional Mapping Tools – MA

Massachusetts

- [EEA EJ Map Viewer](#)
- [MassDEP Cumulative Impact Analysis](#)
- [MDPH EJ Tool](#)



Additional Mapping Tools – MA EEA EJ Populations



MA DPH Environmental Justice Tool

Map How-to

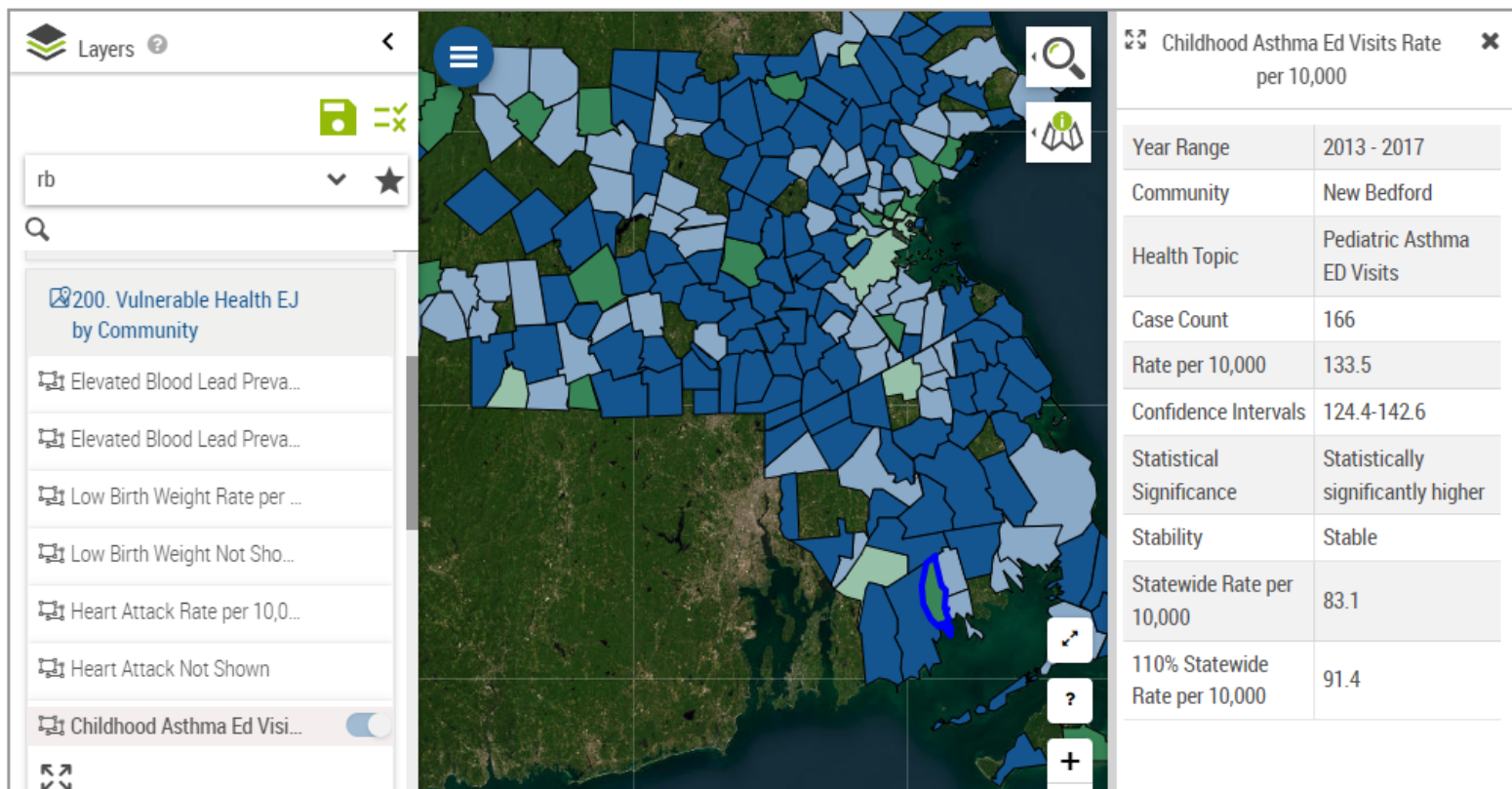
Buffer Selection
Tutorial

Map Glossary



Custom Mapping

The "Vulnerable Health EJ by Census Tract" data layers are in the process of being updated to 2020 Census Tract boundaries. The "Vulnerable Health EJ by Census Tract" data layers currently displayed, are mapped to 2010 Census Tract boundaries. If you have any questions, please email us at DPH-MA-EPHT@mass.gov.



Additional Mapping Tools – MA DPH EJ Tool

<https://matracking.ehs.state.ma.us/Environmental-Data/ej-vulnerable-health/environmental-justice.html>

Contact Us

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