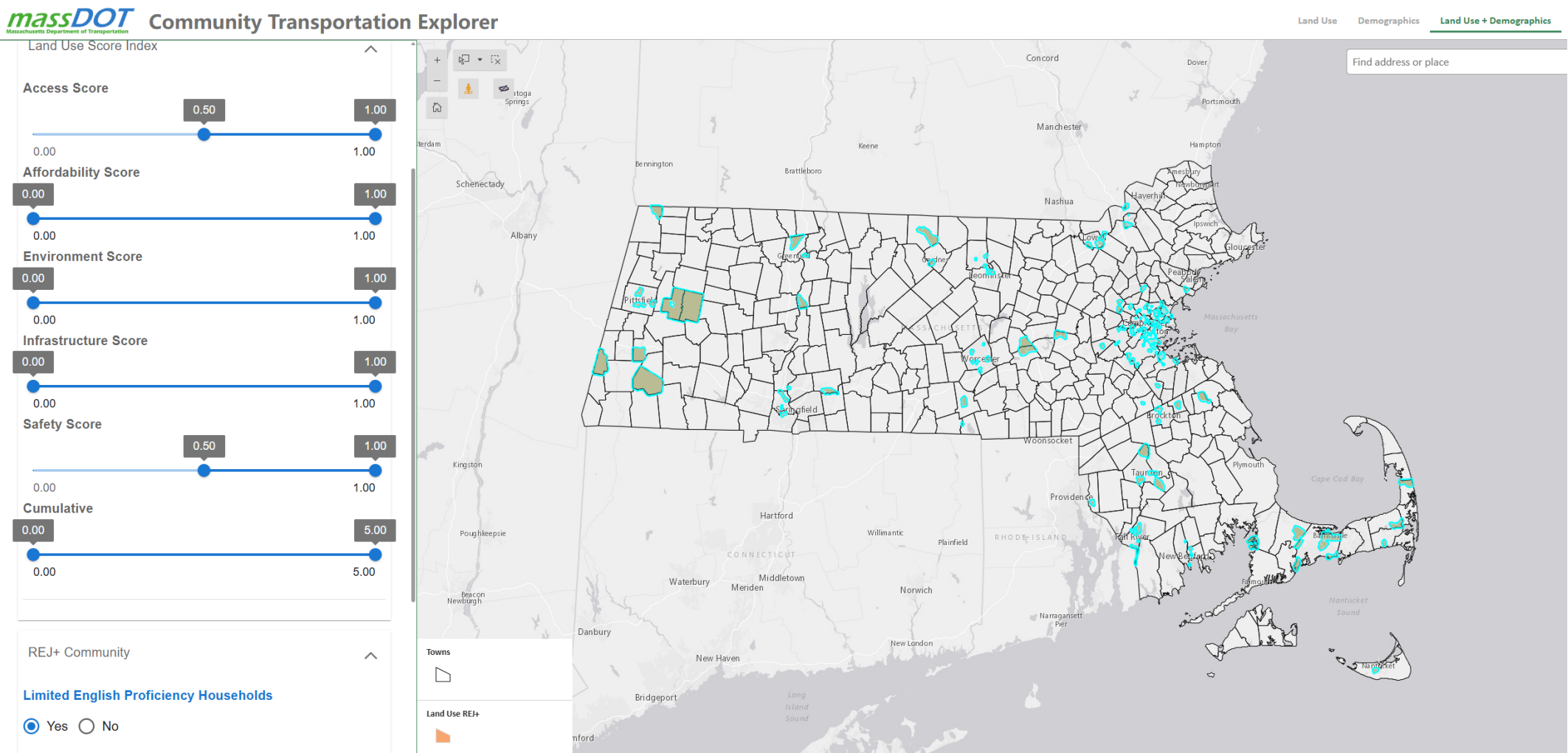


Community Transportation Explorer

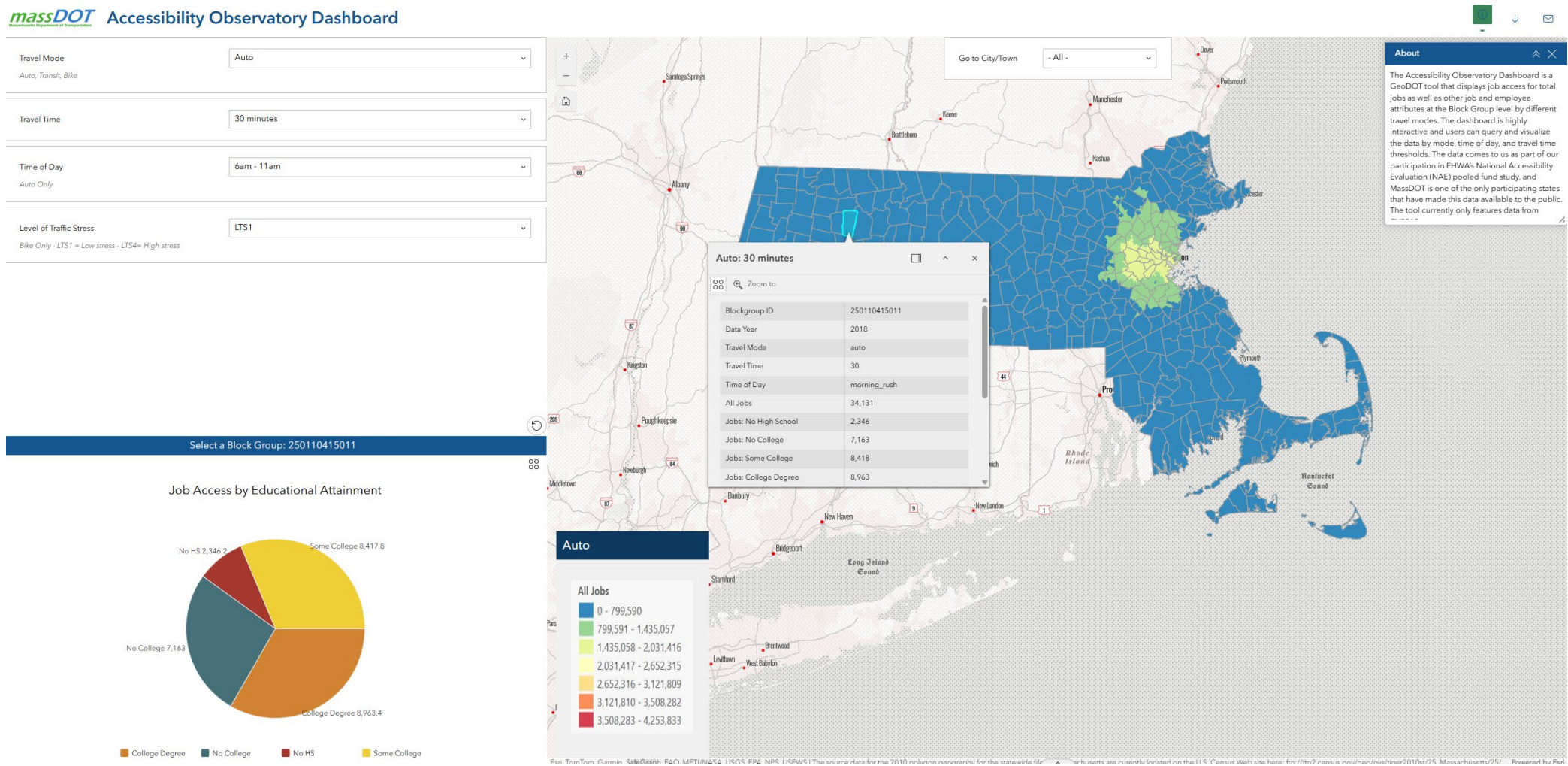
What It Does how is this new	Brings land use data about transportation and demographic data about community composition together on one dashboard
Intended Audience aka people who....	• make project prioritization/funding decisions • do project concept and development work • need to understand existing conditions of an area or community, or the distribution of a community across the state • want to understand where there are concentrations of certain transportation network elements
Data Used where and how assembled	1. demographic data comes from the Census, is normalized to MPO region to set thresholds 2. land use data comes from many sources, all publicly available
Questions It Can Answer what to do with it	• How safe is the transportation infrastructure in places where people with disabilities live? • How much job access do low-income households have? • Where are the safest, most affordable communities from a transportation perspective?



The above map shows places in Massachusetts that score highly (>.5, out of 1) on destination access AND safety elements, as well as have relatively high concentrations of people that are of limited English proficiency.

Accessibility Observatory Dashboard

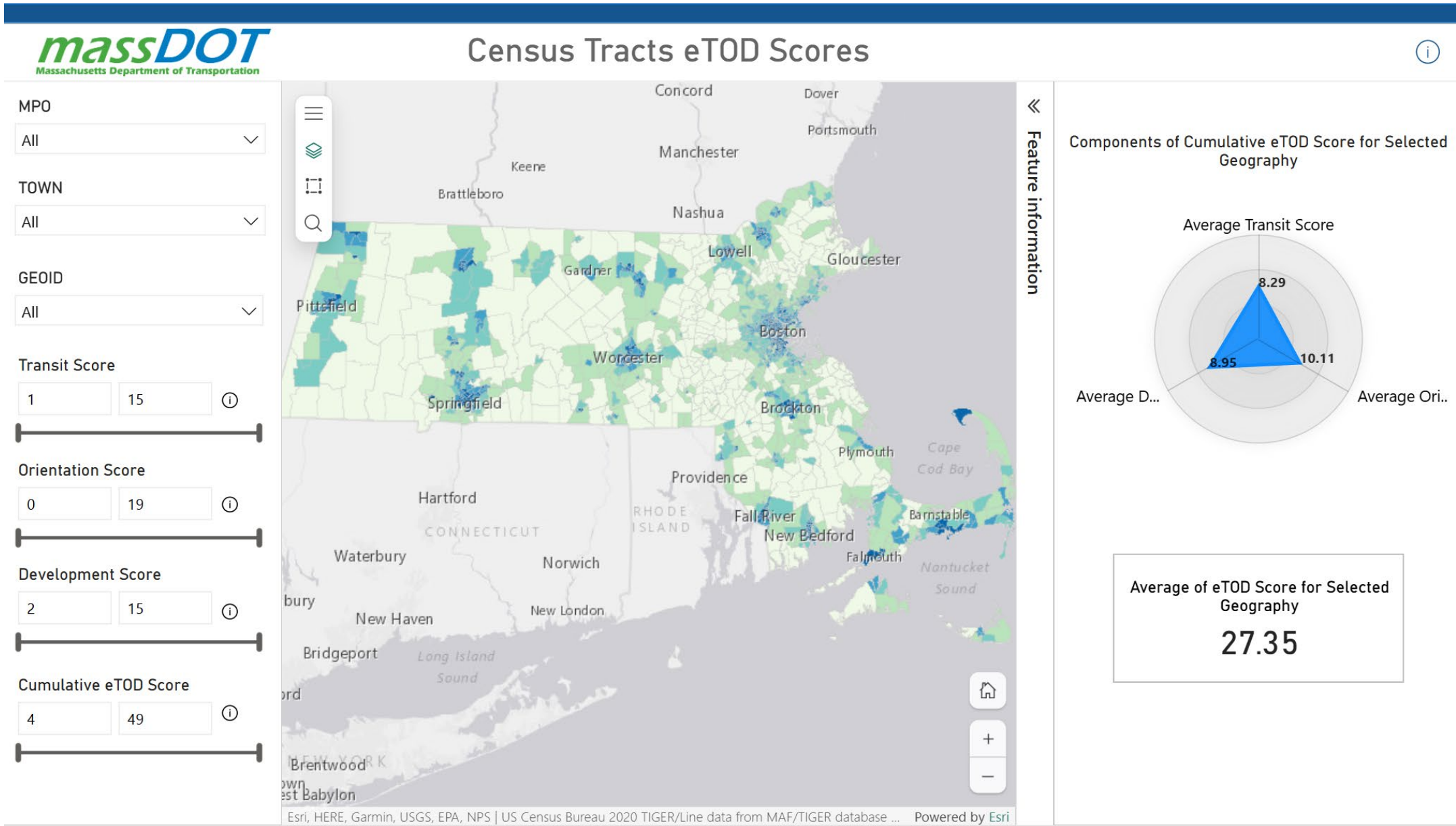
What It Does how is this new	Visualizes job and other destination accessibility data
Intended Audience aka people who....	• need to understand existing conditions of an area or community, or the distribution of destination accessibility across the state • are comparing outcomes of transit service or bicycle/pedestrian infrastructure to those of driving
Data Used where and how assembled	• Data is provided from the University of Minnesota’s Accessibility Observatory (primarily sourced from LEHD/LODES)
Questions It Can Answer what to do with it	• How many jobs can I get to from a certain neighborhood within a certain amount of travel time, by a certain mode? • How many more (or less) jobs can I get to via driving as compared to transit, or walking?



The above map shows how many jobs are accessible from each Census block in Massachusetts within a 30 minute drive, between the hours of 6 and 11am; places around Greater Boston have the most job access during this travel time period. The chart on the bottom left shows job access by educational requirements.

eTOD score Dashboard

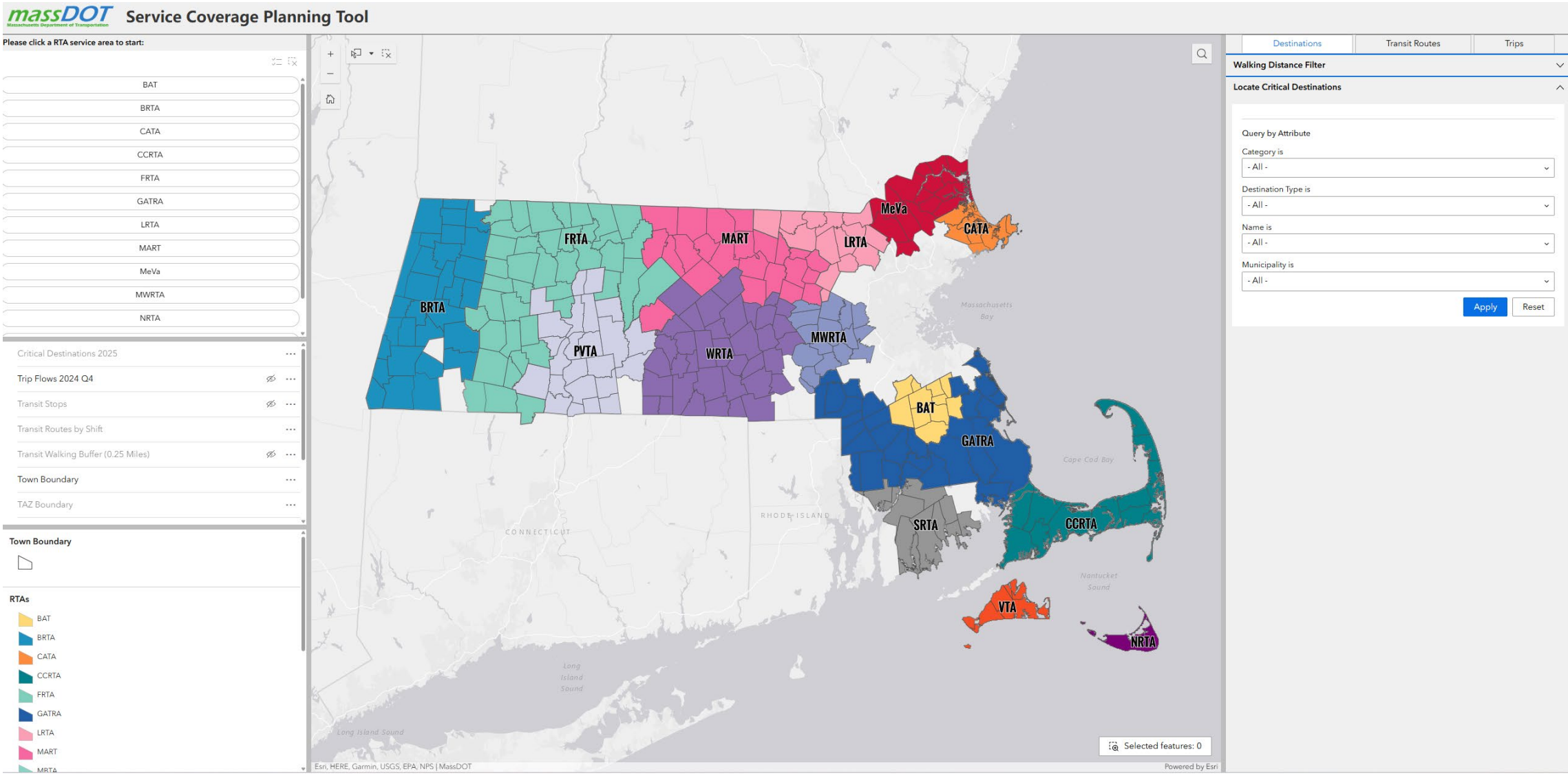
What It Does how is this new	Identifies locations with characteristics that support above-average transit usage
Intended Audience aka people who....	Want to know the places that are well-suited for transit expansions or have potential for successful transit service
Data Used where and how assembled	- Scores reflect aggregate index scores that measure transit coverage, connectivity, and mode share; demographic characteristics; and residential and job density, and walkability - Data is initially sourced from publicly available sources including the Census and GTFS feeds but also uses platforms like Conveyal, and is ultimately scored, indexed, and aggregated
Questions It Can Answer what to do with it	Where are places that have residential populations that have propensities for transit service, but where service is not well available?



The above map shows the home page of the eTOD score dashboard. On the left, users can select specific geographies, or filter by transit; orientation; or development scores, or total cumulative score. The right-hand side explains the score composition by category.

RTA Service Coverage Planning Tool

What It Does how is this new	- Visualizes transit routes and stops on top of key critical destinations and travel demand “flows” - Isolates routes according to temporal characteristics, including time of day and day of week
Intended Audience aka people who....	- Plan transit services for RTAs and need to understand destination coverage and synthesis with demand - Want to take transit services and know if it will accommodate their travel plans
Data Used where and how assembled	- Most data is public, including GTFS route and schedule data as well as the location of destinations, but some comes from proprietary sources like Data Axle and Replica - Temporal data classifies routes according to run times, broken into first/second/third shift
Questions It Can Answer what to do with it	- Does a certain route provide access to the hospital I need or want to go, at the time I need to travel? - Which supermarkets in my region are served by which bus routes? - Is the service provided by an RTA in an area meeting the potential demand?



The above map shows the home page of the RTA Service Coverage Planning tool. On the top left, users can select specific RTAs to evaluate services. On the right, users can locate specific destinations and sub-categories; identify specific transit routes; or identify services that run during specific time frames or days of the week.