

Transportation Secure Data Center

Real-World Data for Planning, Modeling, and Analysis



About the TSDC

- Houses data from travel surveys and transportation studies conducted across the nation
- Covers millions of miles of travel data from personal vehicles and other modes—transit, biking, and walking
- Includes millions of data points—second-by-second GPS readings, vehicle characteristics, and demographics
- Initial data screened for quality control, translated into consistent format, and interpreted for spatial analysis
- Features added information on vehicle fuel economy and road grades and joins data points to the road network

Two Levels of Access

Cleansed data – Publicly available data sets include highlevel summary statistics, vehicle and participant demographic information, second-by-second speed profiles, and NREL processing results

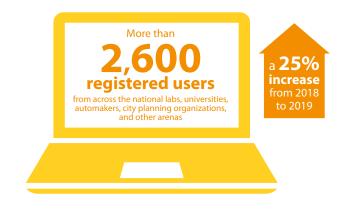
Detailed spatial data – Full data sets, accompanied by tools and reference data, accessible via a secure online portal after completing application and approval process



The U.S. Department of Energy's National Renewable Energy Laboratory (NREL) maintains the TSDC in partnership with the U.S. Department of Transportation.

Transportation Secure Data Center by the Numbers:







40 MILLION MILES

of data from travel diaries



165 research publications



Front side photo from iStock 11/4/008053



NREL is a national laboratory of the U.S. Department of Energy Office of Energy Efficiency and Renewable Energy Operated by the Alliance for Sustainable Energy, LLC The TSDC is integrated with the U.S. Department of Energy's Livewire Data Platform.

