



Exploring Texas Demographic, Socioeconomic, and Transportation Indicators with the One-Stop Dashboard

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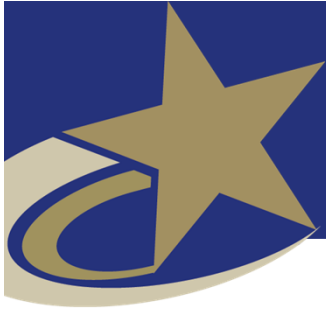
Texas Demographic Conference

Austin, TX

May 24, 2018

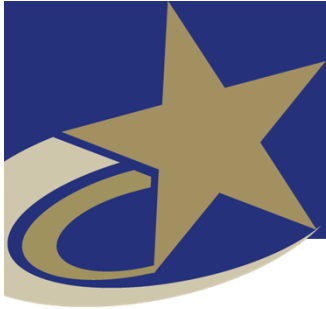
 @TexasDemography

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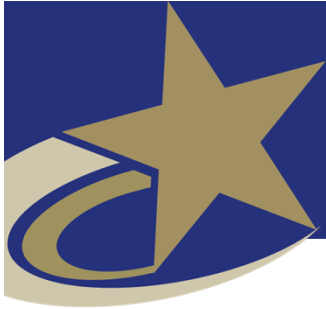
One-Stop Demographic Data Analysis Tool

- Designed to give TxDOT personnel, Metropolitan Planning Organizations (MPO) and other transportation professionals a quick and easy way to access and report general demographic information
- Compiles data from several different sources, giving users the opportunity to access up-to-date information in one place
- Serves as a starting point for reporting general trend analysis
- Reports can be generated for one or more counties, tracts, places, districts, or urbanized areas



One-Stop Demographic Data Analysis Tool

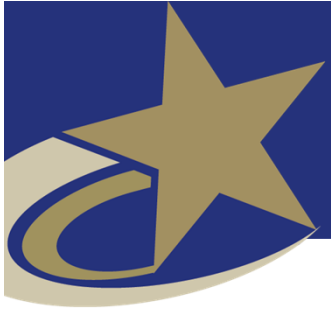
- One-Stop Demographic Data Analysis Tool Demonstration
- <https://idserportal.utsa.edu/TxDoT/OneStop/Default.aspx>



One-Stop Demographic Data Dashboard

Several dashboard builders available online

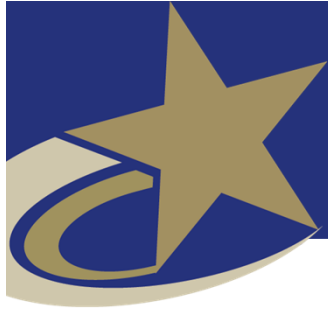
- Tableau
 - Good for analysis and visualization
- InstantAtlas Dashboard Builder
 - Designed to work within ArcGIS online
- ArcGIS Online (AGOL)
 - Everything hosted on Esri/AGOL servers
 - All data packaged along with map services
 - Application is hosted on AGOL



One-Stop Demographic Data Dashboard

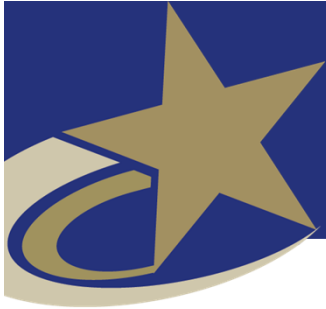
ArcGIS Online

- Operation Dashboard
 - Interactive, but does not allow direct selection of features on the map, set filters and queries
 - Designed for visualization of key performance indicators (KPI) and real time data for events, services, or assets
 - No data export functionality
- Web App Builder
 - Interactive UI, selections can be made directly on the map with the select tool or by using the search function
 - Allows user to export data for the selected features in different formats



One-Stop Demographic Data Dashboard

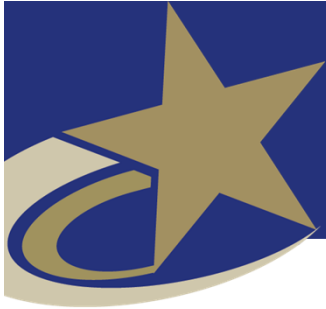
- ArcGIS Online Web App Builder using Dashboard Themes embedded in a Story Map
- Infographic widgets configured in panels to present either aggregate or individual geographic-level data in chart or graph format for easy exploration and visualization of trends.



One-Stop Demographic Data Dashboard

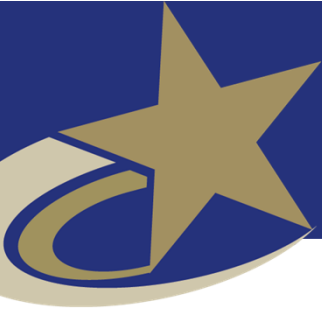
Environmental Justice and Vulnerable Populations

- FHWA Order 6640.23A: FHWA Actions to Address on Environmental Justice in Minority Populations and Low-Income Populations, dated February 11, 1994.
(<https://www.fhwa.dot.gov/legsregs/directives/orders/664023a.cfm>)
- Agencies shall identify and address disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations



One-Stop Demographic Data Dashboard

- One-Stop Demographic Data Dashboard Demonstration
- County: <https://arcg.is/1CW8Xj>
- Tract: <https://arcg.is/P9Hze>



Questions?

- Saloni Rajput, Ph.D., saloni.rajput@utsa.edu
- Jeff Jordan, Ph.D., jeff.jordan@utsa.edu

- One-Stop Demographic Data Dashboard (Development Version)
 - County: <https://arcg.is/1CW8Xj>
 - Tract: <https://arcg.is/P9Hze>
- One-Stop Demographic Data Analysis Tool
 - <https://idserportal.utsa.edu/TxDoT/OneStop/Default.aspx>