

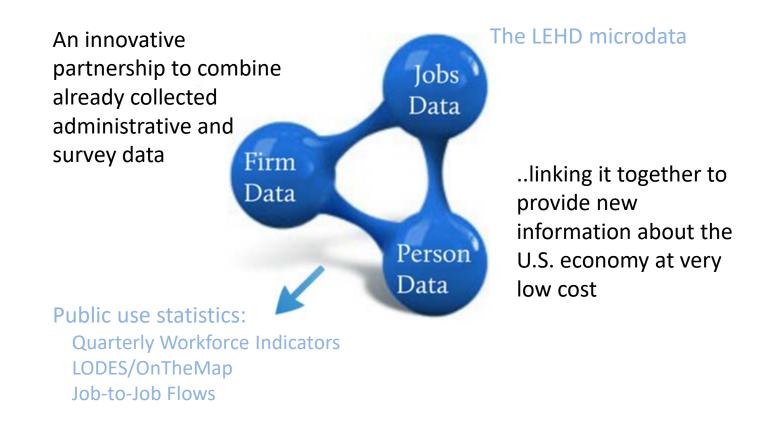
Longitudinal Employer-Household Dynamics Job Related Data Tools

Tennessee State Data Users Conference August 21, 2018

Earlene Dowell Program Analyst Longitudinal Employer-Household Dynamics Program Center for Economic Studies, U.S. Census Bureau

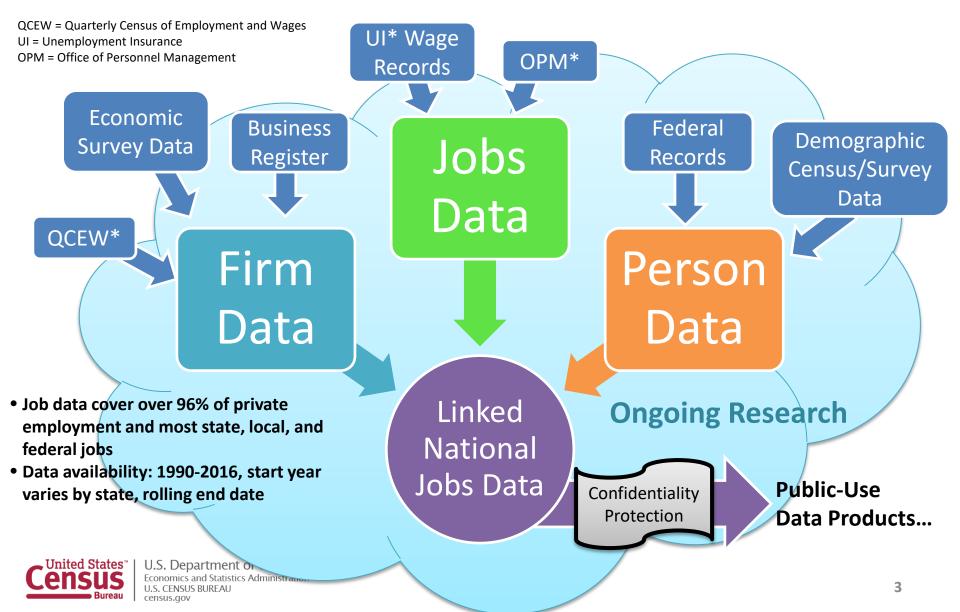


The Local Employment Dynamics (LED) state-federal partnership





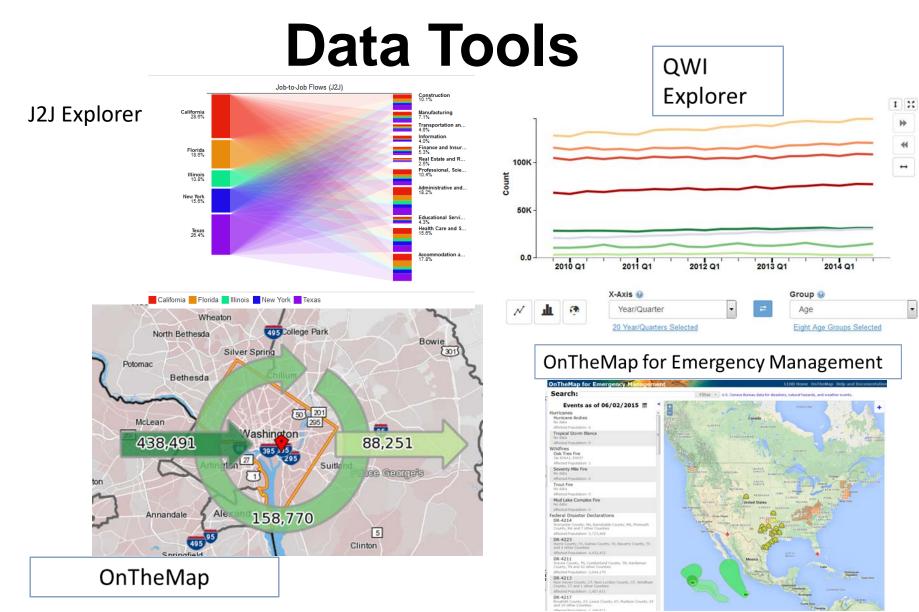
LEHD Data Infrastructure



Data Products

- Quarterly Workforce Indicators (QWI)
 - 32 indicators by
 - Industry (NAICS 2, 3, and 4-digit), Firm Age, Firm Size
 - Worker Age, Race, Ethnicity, Sex, Education
 - State, County, CBSA, WIB Area
 - >150 Million job records processed each quarter
 - Longitudinal series starts in 1990 for some states
- LEHD Origin-Destination Emp. Statistics (LODES)
 - Connects a job/worker's employment and residential locations
 - Data at census block detail
 - Less characteristic detail than QWI
- Job-to-Job Flows (J2J) Beta
 - Flows between jobs as well as into/out of nonemployment

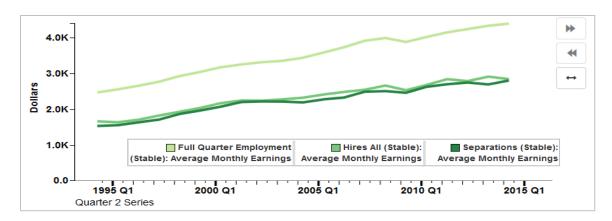






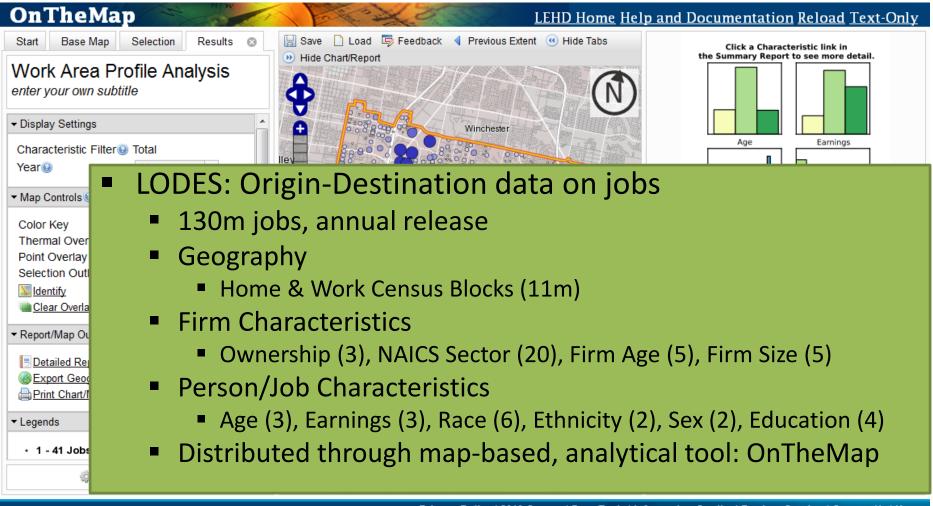
Why are LED Data Tools Important?

- Accessibility
- "Explorability"
- Provide context
- Visualizations lead to insight
- Promote/market the data
- Provide "value-add" for our state partners





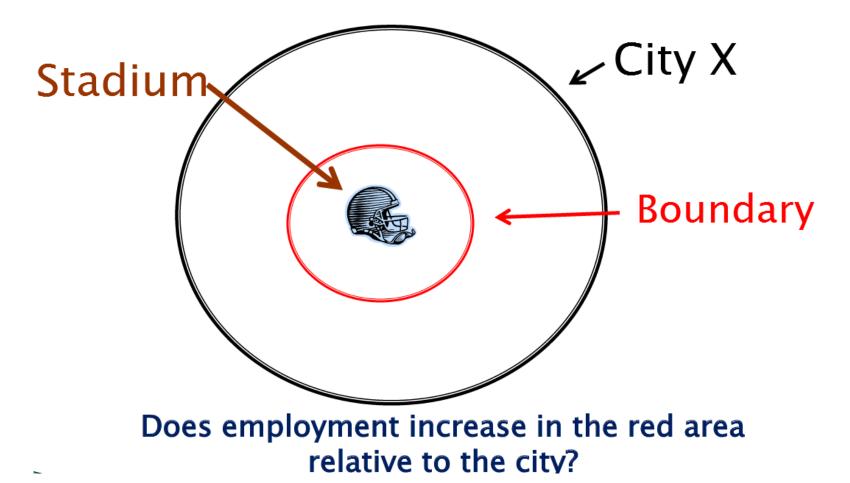
LODES/OnTheMap



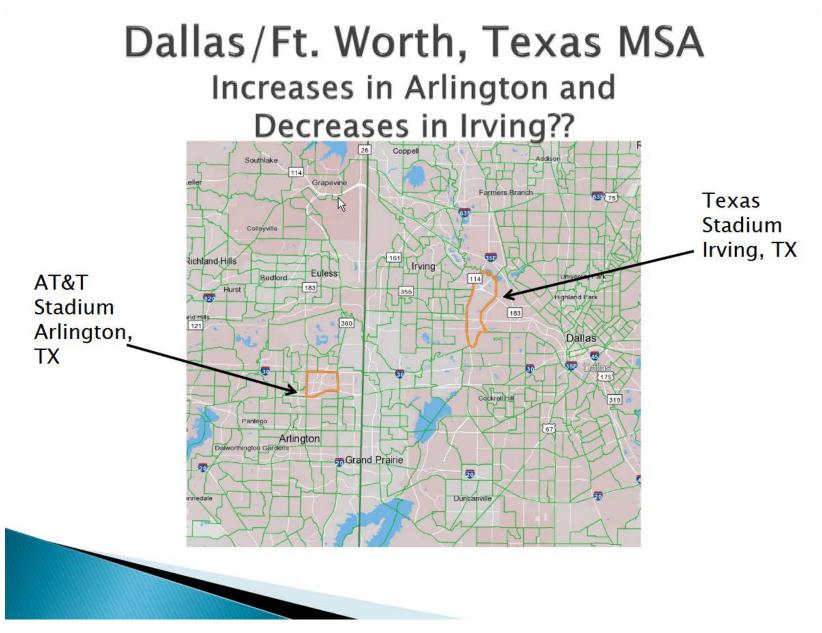
Census Bureau

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU census.gov Privacy Policy | 2010 Census | Data Tools | Information Quality | Product Catalog | Contact Us | Home Source: U.S.Census Bureau, Center for Economic Studies | e-mail: <u>CES.OnTheMap.Feedback@census.gov</u>

If you build it will they come?









Irving/Arlington

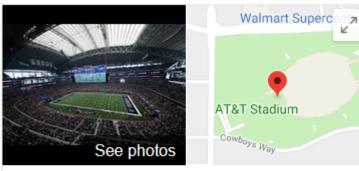
2008

Texas Stadium



Texas Stadium in November 2008 2401 East Airport Freeway Location Irving, Texas, U.S.

2009



AT&T Stadium

Website Directions

Save

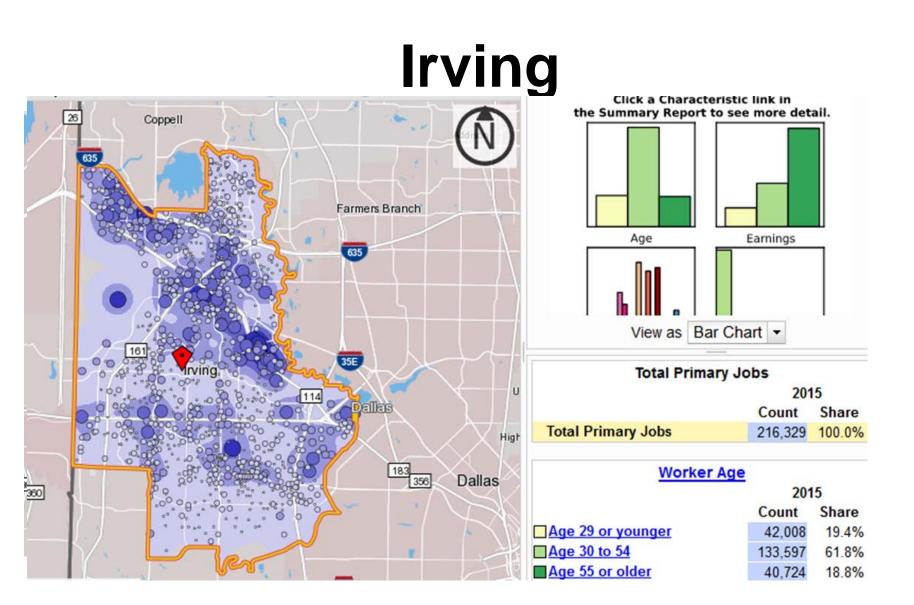
4.6 **** 9,770 Google reviews Stadium in Arlington, Texas

AT&T Stadium, formerly Cowboys Stadium, is a retractable roof stadium in Arlington, Texas, United States. It serves as the home of the Dallas Cowboys of the National Football League and was completed on May 27, 2009. Wikipedia

Address: 1 AT&T Way, Arlington, TX 76011

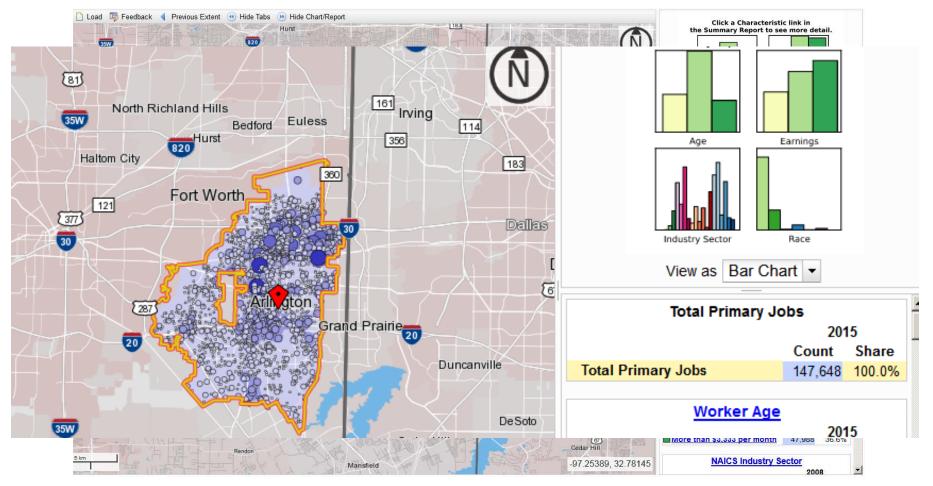
400 000





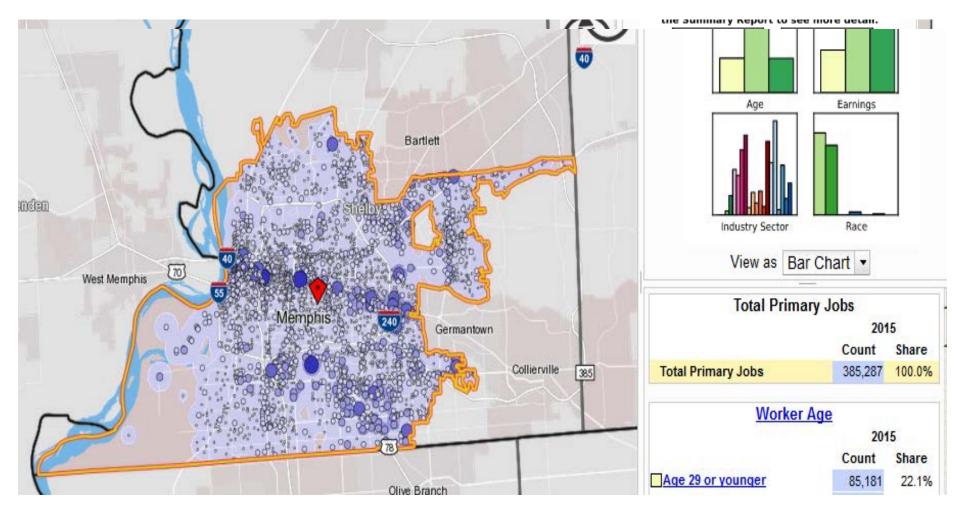


Arlington





Memphis





Dr. Mitchell's Results

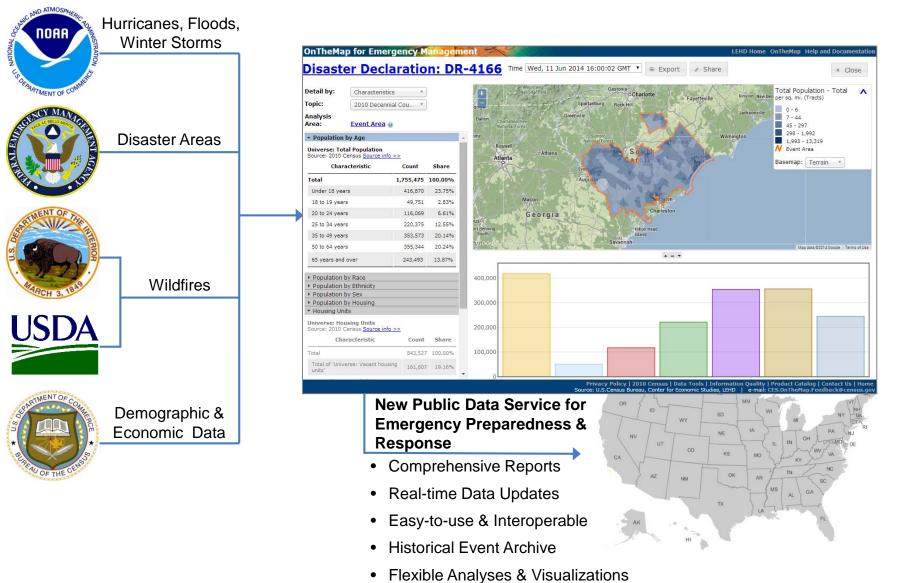
Conclusions

- Building stadiums and arenas probably don't increase the number¹ of jobs in the city
- There is some evidence that building stadiums and arenas might change the distribution of employment within a city
- High wage employment, total employment, and sportscentric employment does grow at a faster rate relative to identical state level measures
- Cities might be able to use stadiums and arenas to 'fix' blight or to bring 'jobs' to certain parts of the city that might otherwise be devoid of employment growth



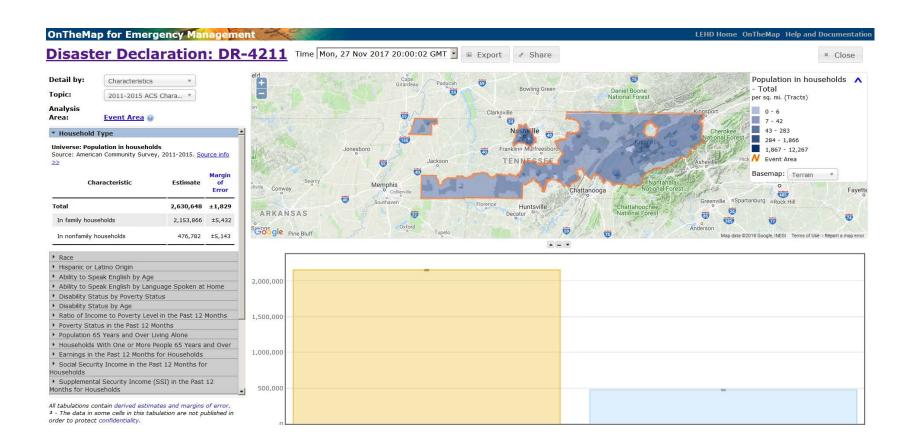


OnTheMap for Emergency Management



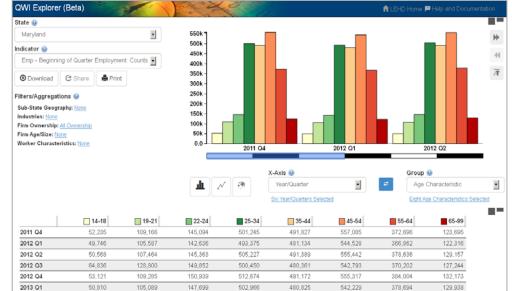


OnTheMap for Emergency – DR-4211 Severe Winter Storm and Flooding



QWI Explorer

- 32 Quarterly Workforce Indicators
- Flexible Pivot Table and Map/Chart interface
- Data on detailed interactions between firms and workers include employment, employment change (individual and firm), and earnings
- Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex



- Analyze/report by firm characteristics: NAICS classification (sector, 3, 4), firm age, and firm size
- Quarterly data very current (9-12 months old)
- National and 50 states available (plus DC)



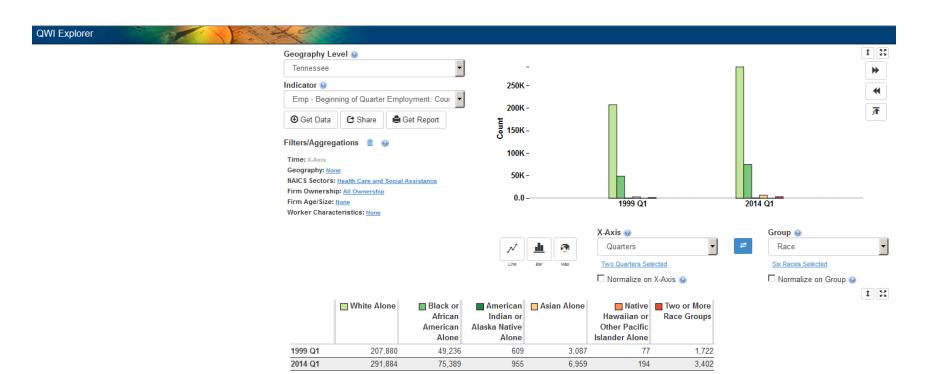
Diversity in Greater Minnesota

Table 3: Health Care and Social Assistance Jobs by Race or Origin, 1995-2014						
	Twin Cities			Greater Minnesota		
	Jobs, 1995	Jobs, 2014	Change from 1995-2014	Jobs, 1995	Jobs, 2014	Change from1995-2014
All Races	139,870	242,620	73.5%	131,509	212,581	61.6%
White Alone	125,153	183,386	46.5%	128,388	199,429	55.3%
Black or African American	9,244	37,164	301,0%	528	4,933	834.3%
American Indian or Alaska Native	1,033	1,732	67.7%	823	2,264	175.1%
Asian or Other Pacific. Islander	3,250	16,081	394.8%	1,100	3,887	253.4%
Two or More Races	1,189	4,256	257.9%	668	2,068	209.6%
Hispanic or Latino	2,482	8,753	252.7%	1,281	5,080	296.6%

Source: U.S. Census Bureau, LEHD, Quarterly Workforce Indicators



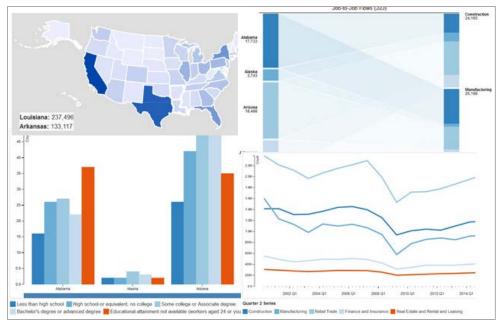
Healthcare





J2J Explorer

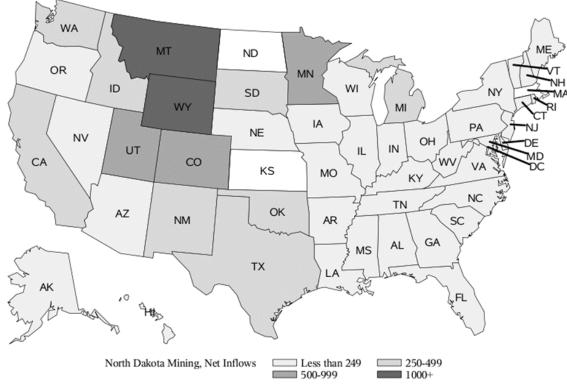
- ✓ 40 Measures of Worker Reallocation
- Six Visualization Modules with a flexible dashboard interface
- Export reports to Excel or CSV
- Trace worker movements through industries, geographic labor markets, and to/from employment
- Analyze/report by origin and destination geographies: national and state-level tabulations



- Analyze/report by origin and destination firm characteristics: NAICS Sector, firm age, and firm size
- Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex
 - Data updated every quarter



Net migration of out-of-state workers into the North Dakota mining sector: 2010-2014



 J2J gives us a better understanding of reallocation of workers across different geographies

Source: U.S. Bureau of Census, Job-to-Job Flows

Source: J2J origin-destination data. J2J data is not yet available for Massachusetts and Kansas, data for all other states is present. Net migration of out-of-state workers is hires into the North Dakota mining sector of workers who recently held a job in a different state, minus flows of North Dakota mining workers to jobs in that state.





1. Start Here

Frame your question by selecting from the three dropdowns below; then click one of the blue links on the right to go to your customized results.



2. Then Choose an Analysis



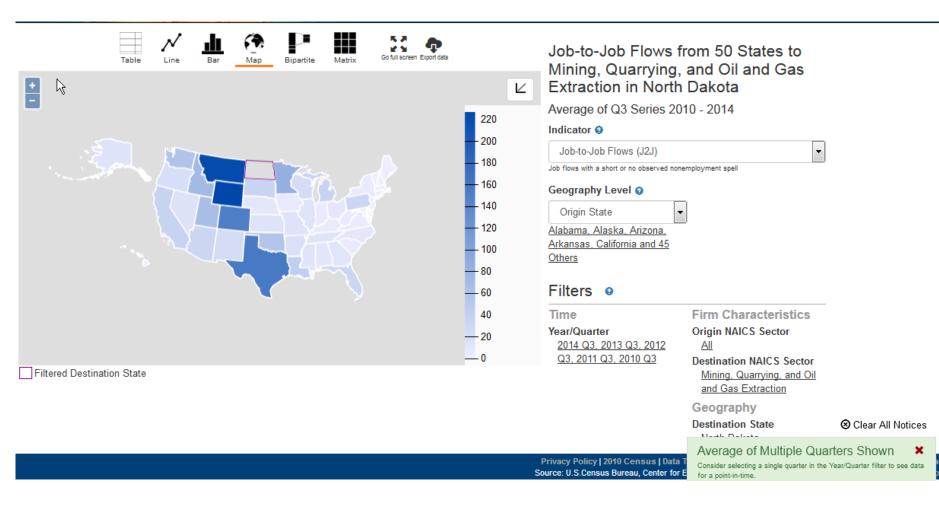
Not sure? Try one of these recommended options:

Which age groups are driving worker reallocation out of New England states?
 Are workers without a college degree in North Dakota more likely to be hired from another job or from persistent nonemployment?
 What states and firm ages are workers in California start-ups hired from?

Which industries have the highest connectivity in terms of national job flows?

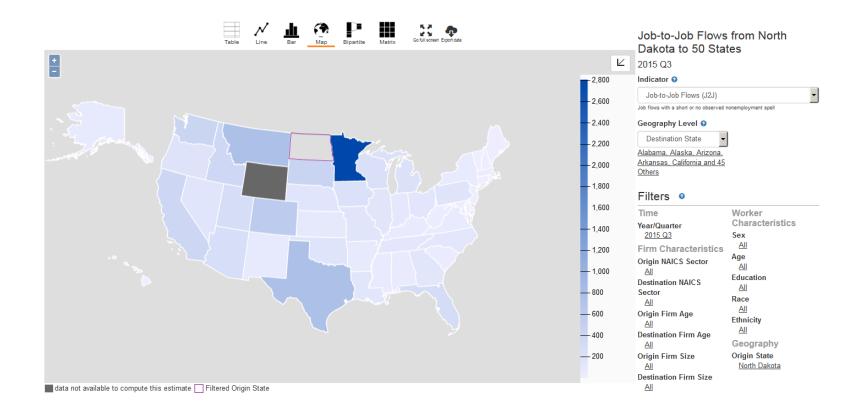


J2J Explorer



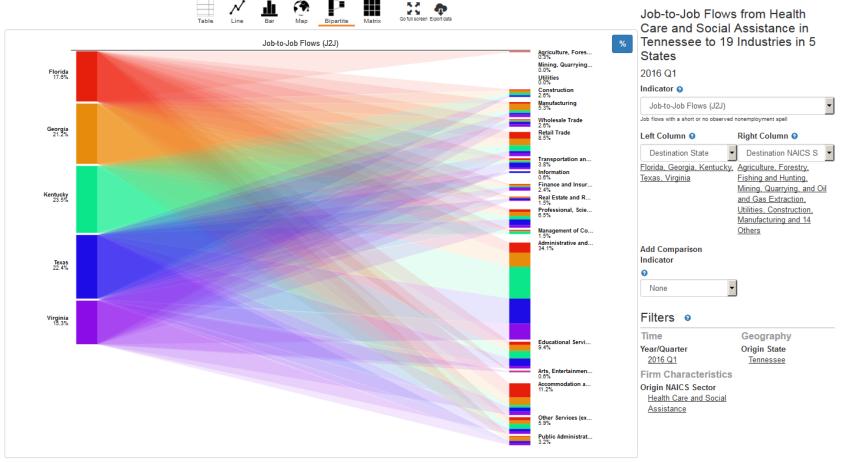


Separation From





Separation from Health Care and Social Assistance in Tennessee



📕 Florida 📕 Georgia 🗧 Kentucky 📕 Texas 📕 Virginia

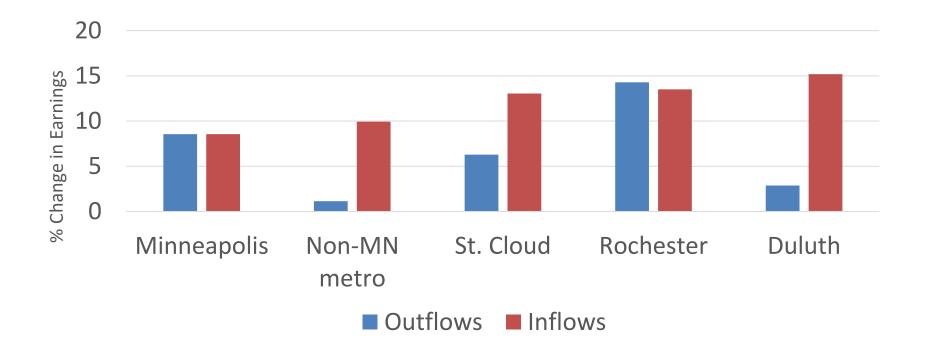


New Data and Tools Released

- New LODES data release
 - 2015 data
- Job-to-Job Flows v2.0
 - New metro-area tabulations
 - New earnings variables
 - More detailed cross-tabulations
- J2J Explorer
 - New tool to analyze Job-to-Job Flows data

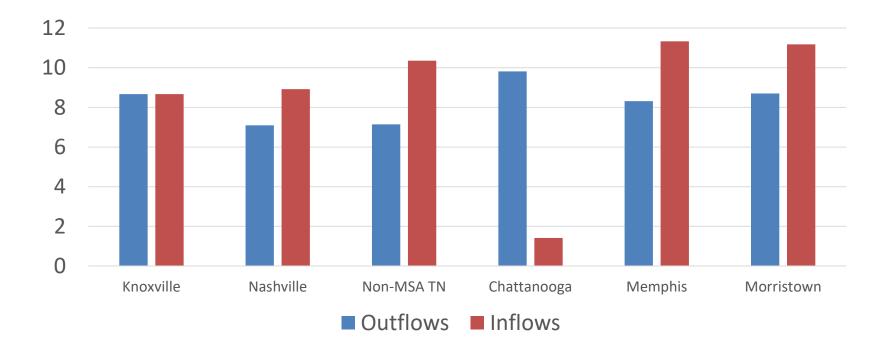


Earnings increased more for job changers whose new jobs were in Minneapolis





Earnings increased more for job changers whose new jobs were in Knoxville.





What's New in LEHD's Applications

- National QWI and cross-state queries in QWI Explorer and LED Extraction Tool
- Local Storage in QWI Explorer
 - Customize your preferences choose to remove conflict popups, set default settings, etc.
- 2015 data in OnTheMap (with 2016 TIGER geographies)



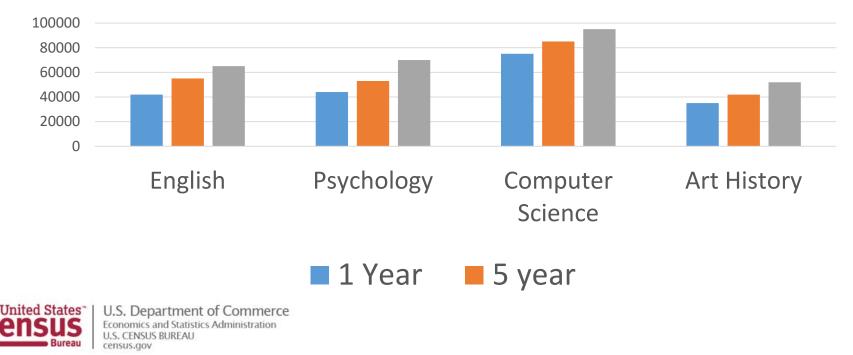
Planned Education Pilot Project

- In the federal statistical data infrastructure, one major missing link is between administrative education and earnings data
- Previous data products linking these data have had limitations:
 - College Scorecard only considers incoming cohorts, those receiving federal aid
 - State-level analyses can only match to in-state earnings



Earnings Data Release Example

Median Earnings - University A Graduates



Thank you!

Link to Applications

- <u>Lehd.ces.census.gov/applications</u>
 Link to Raw Data
- Lehd.ces.census.gov/data

Questions or Feedback?

- CES.Local.Employment.Dynamics@census.gov
- CES.OnTheMap.Feedback@census.gov
- CES.QWI.Feedback@census.gov
- CES.J2J.Feedback@census.gov

