People, Employers and Jobs: New Data, Reliable Analysis, Better Confidentiality

National Science Foundation-Census Bureau partnership for research improving the social data infrastructure

Social Data Infrastructure

NSF support initiated the research leading to the creation of the first 21st century statistical system at the Census Bureau

Longitudinally integrated employer-employee data from multiple administrative record sources, updated quarterly

Covers 160 million workers and 20 million businesses from 1990 to the present
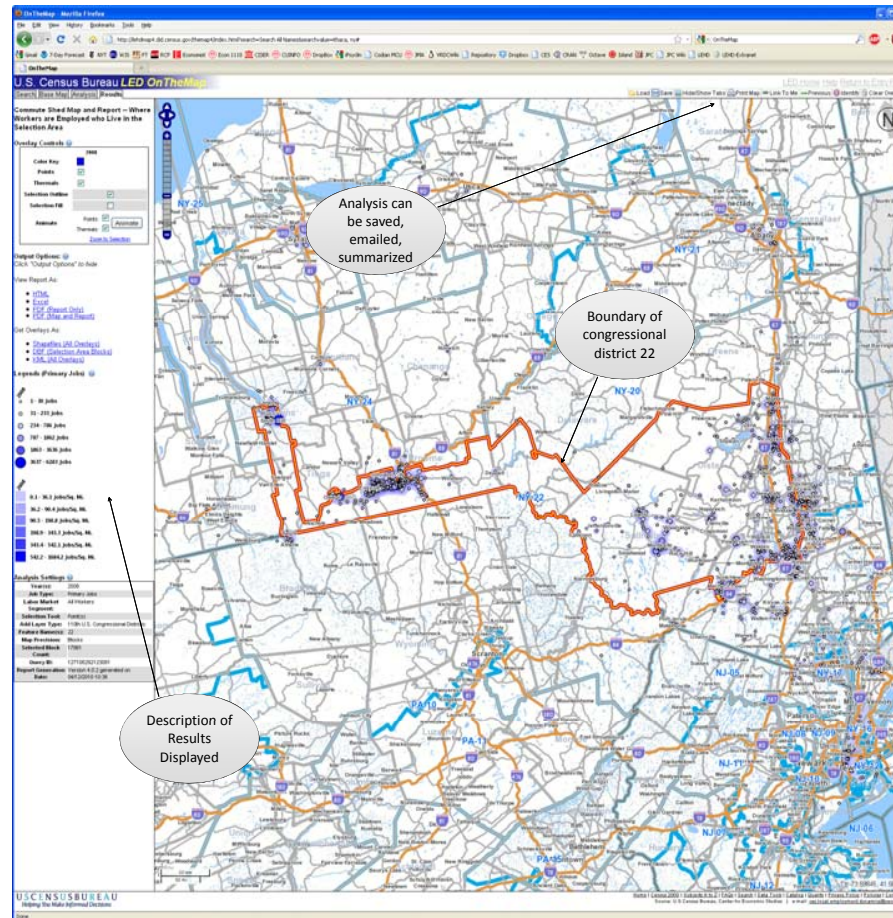
Now funded through the Census Bureau's Local Employment Dynamics initiative (FY 2010)

Strong Privacy Protection

Protecting the confidentiality of business and household information is a legal and ethical mandate

The systems developed with direct support from the NSF for use by the Census Bureau provide strong, provable privacy protection—no source's confidentiality is ever breached

Reliable data are published annually at the census block level (8.2 million geospatial areas within the U.S.) and quarterly for core-based statistical areas

Analysis can be saved, emailed, summarized

Boundary of congressional district 22

Description of Results Displayed

OnTheMap

Flagship application illustrated above

Shows the relation between residence and workplace distributions for arbitrary user-defined areas and for different age, earnings and industry groups

Full reports generated online (samples available)

Graphic above shows where the residents of congressional district 22 (home of Cornell University) work—many other analyses are possible (demos here)

Census Research Data Centers

National Science Foundation led and funded initiative to foster research collaboration between the Census Bureau and external researchers

Ten Census Bureau locations around the country (Washington DC, Ann Arbor, Berkeley, Boston, Chicago, Ithaca, Los Angeles, Minneapolis, New York City, Raleigh-Durham)

Hundreds of research projects ongoing and completed to improve the national statistical infrastructure using confidential business, household, and integrated data

Innovative scientific work in economics, demography, sociology, and statistics

Strictest confidentiality and data security protocols

Used to develop the data systems described here and the privacy protection protocols

Model for other countries

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