

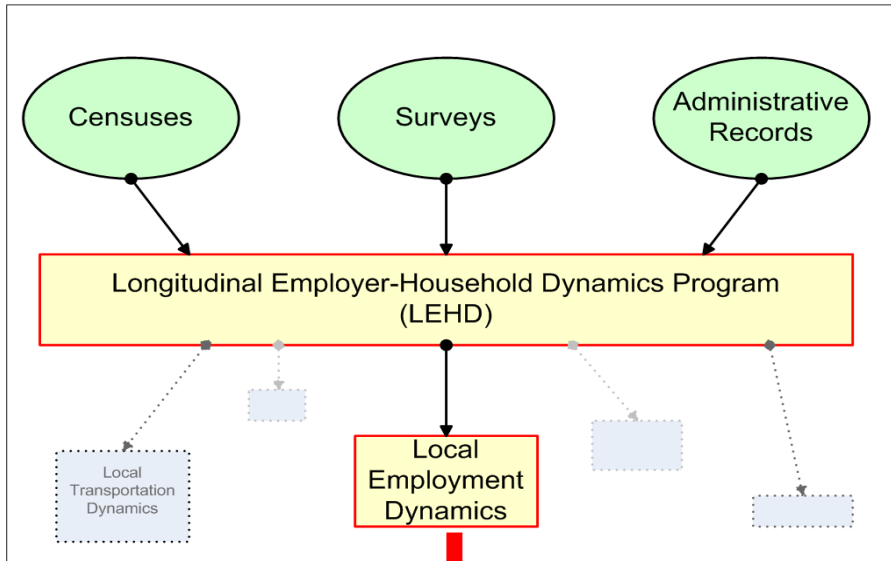
Hot Topics in Workforce Information

Local Employment Dynamics (LED): An Emerging 21st Century Statistical System

Analyst Resource Center Annual Seminar Transforming Information for the Future

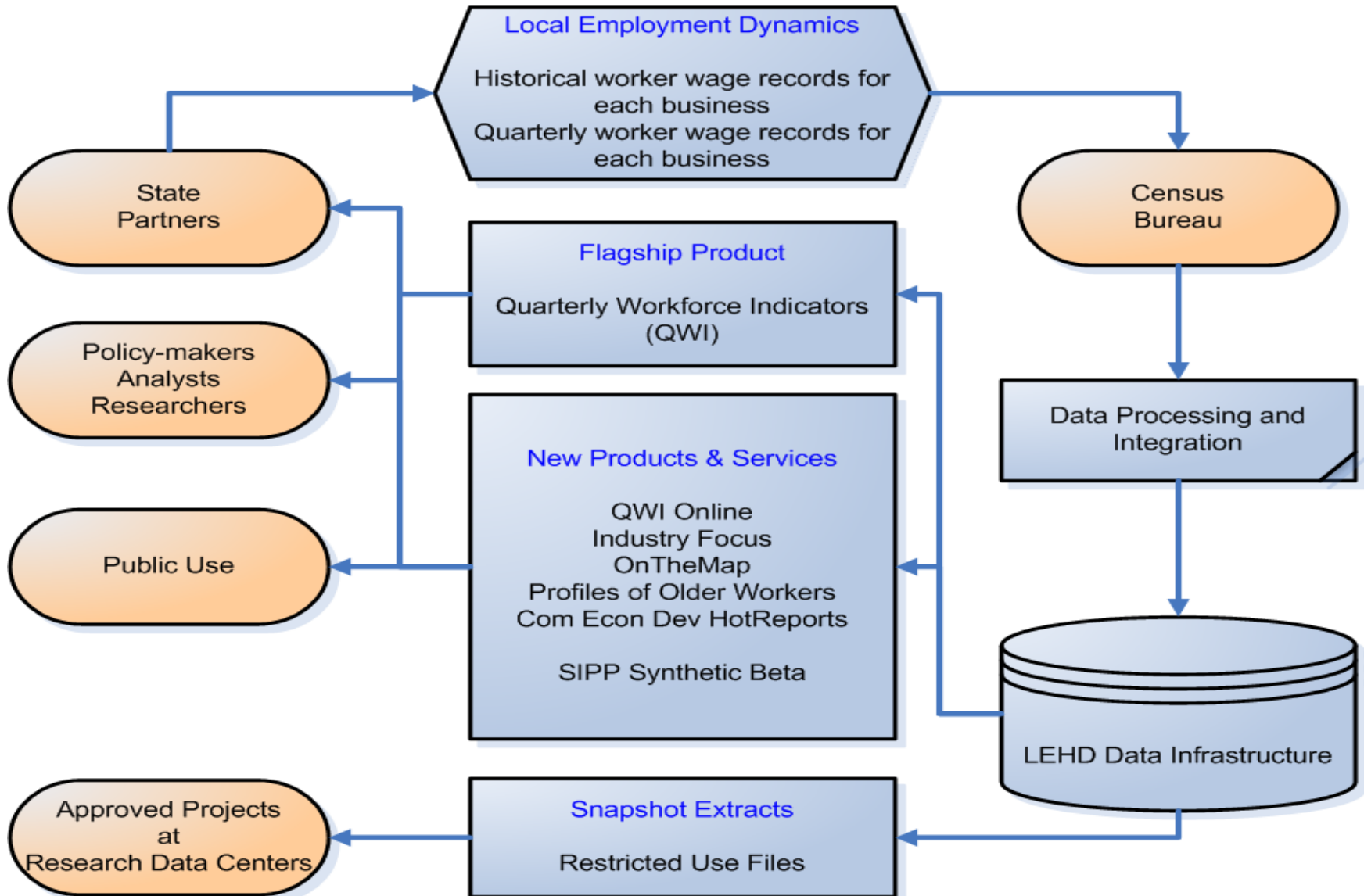
**St. Louis, Missouri
October 29, 2008**

Overview of LED



- Leverage existing data
- Create new data and products
- Make valid detailed data available while protect confidentiality
- Cost-effective
- No respondent burden
- Enhance Census Bureau operations

The Operational Model



LED Products

The Geographic Distribution and Characteristics of Older Workers in Iowa: 2004

Local Employment Dynamics

What's in This Report?

HIGHLIGHTS

The statistics about older workers in 2004 show this group's pr...

U.S. Census Bureau's
Local Employment

Change WIRED Region: Northern New Jersey | Go! | Home | IE Printer Friendly

Northern New Jersey WIRED Region

Counties: Bergen, Essex, Hudson, Morris, Passaic, Sussex, Union, Warren

U.S. Census Bureau's
Local Employment Dynamics (LED)
Site Tour

Transportation | Community Assets

Statistics for the Northern New Jersey Region

	Value
Population	4,081,755
Area	2,031,340
Population Density	1,929,662
Population per sq. mile	101,678
Population per sq. mile	9.8%
Population per sq. mile	80.1%
Population per sq. mile	30.9%

[Link to data, confidentiality protection, sampling error, and definitions.](#)

Industry Focus

QWI Online

U.S. Census Bureau's
Local Employment Dynamics (LED)
Site Tour

On the Map

Underlying LED Data

- **QWI**

- QWI Online
- Industry Focus
- Older Worker Profiles

- **QWI public use files**

- 30 indicators on employment, jobs, earnings, turnovers; 8 in QWI Online
- Age, gender, NAICS, year/quarter, job type, geography
- 22 files compressed quarterly; downloadable;
- State of Missouri
 - Largest 539MB
 - Smallest 8MB

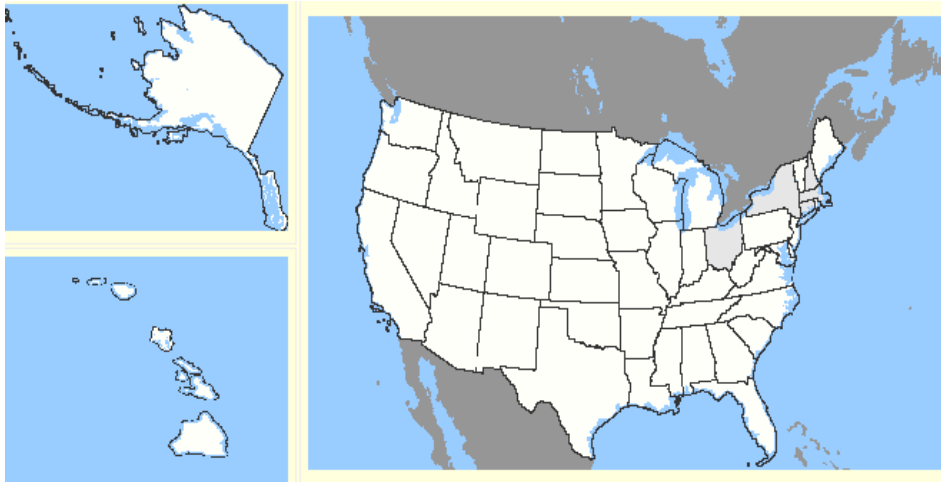
- **OnTheMap**

- OnTheMap version 3
- **OTM public use files; 4 types of files for each state**
 - Origin-Destination (OD) files; job and worker count for each of $8M \times 8M = 64$ trillion block-to-block combinations – mostly 0s
 - Work Area Characteristics (WAC) files
 - Residence Area Characteristics (RAC) files
 - **QWI (experimental) files**
 - 1.2MB to 126 MB

“Once in a while, an informational product comes along that makes the hearts of all good data geeks beat just a little faster..... This Census Bureau product is named OnTheMap.”

Workforce News

Utah Department of Workforce Services



OnTheMap

LED's online dynamic mapping and reporting tool

- ✓ Where do workers live?
 - ✓ Where do residents work?
 - ✓ Reports on age, earnings, and industries
 - ✓ Cross-state flows
 - ✓ 45 states online
 - ✓ 2002-2006 annual data
- ✓ User-selected areas
 - ✓ Base unit is Census Block
 - ✓ Innovative disclosure protection
 - ✓ Free and available 24/7

Version 4 Coming 12/2009

- 46+ states online
- 2002-2008 annual data

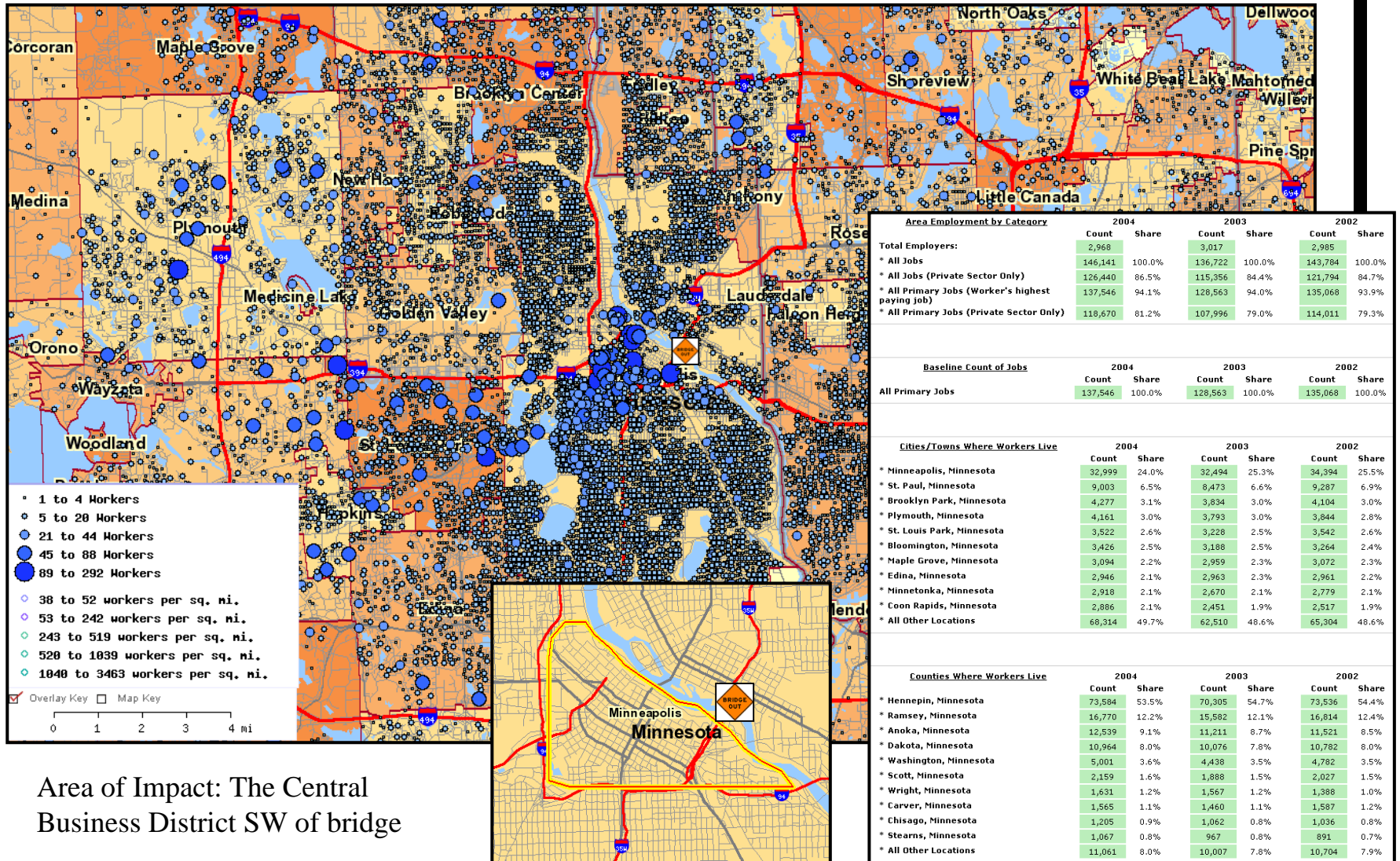
When there was

**...a bridge collapse in Minneapolis,
...a tornado touchdown in Missouri,
...a hurricane landed in Texas,
...wild fire in Southern California,
...a flood in Iowa,**

**How can LED help to assess
impact on workers and jobs?**

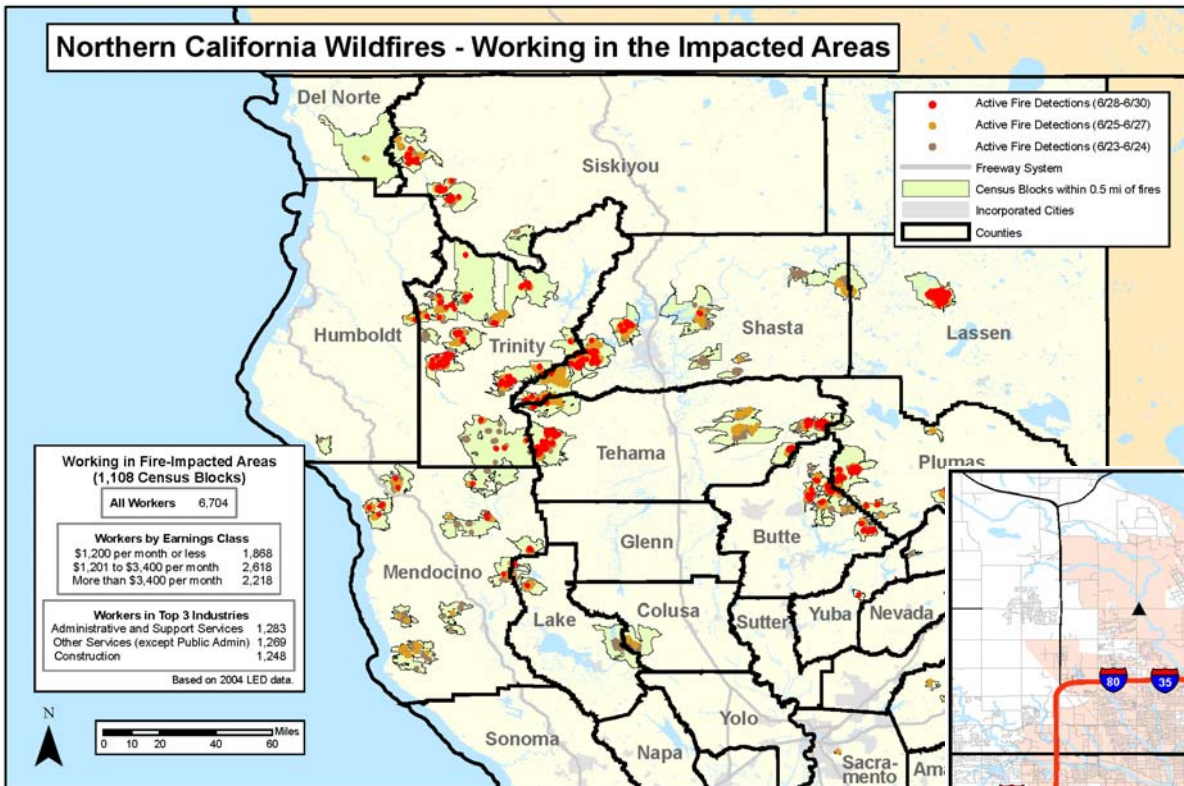
OnTheMap: Emergency Response

Minneapolis I-35W Bridge Collapse - Where Workers in the Central Business District Live



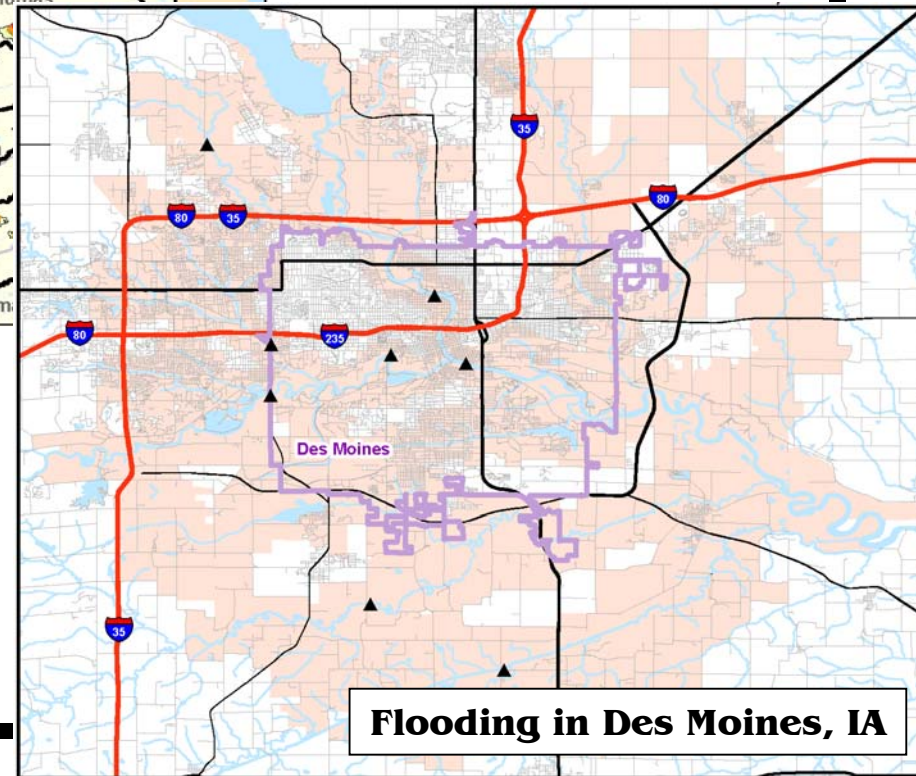
Area of Impact: The Central
Business District SW of bridge

OnTheMap: Wildfires and Floods



Detailed GIS Analysis
Using OnTheMap's
Synthetic Microdata

Analysis at the Census
Block level of
geographical detail



Flooding in Des Moines, IA

Hurricane Hanna Work Area Profile (NWS Path Prediction Through 8AM Sat.)

Overlay Controls

2006

Points

Thermals

Selection Outline

Selection Fill

Animate

Points: Animate

Thermals:

[Zoom to Selection](#)

Report Output Options:

View Report As:

- [HTML](#)
- [Excel \(XLS\)](#)
- [View Map and Report PDF](#)
- [View Report-only PDF](#)

Analysis Settings

Report Year (s): 2006

Employment Type: Jobs

Labor Market Segment: All Workers

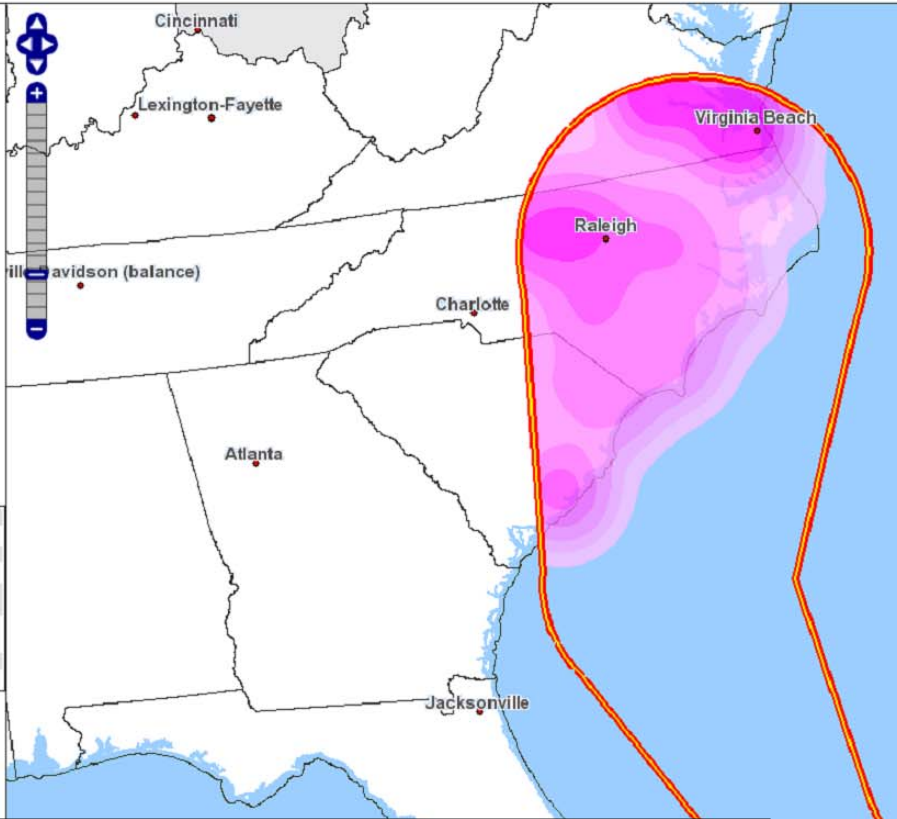
Primary Selection Layer: No layer selected.

Primary Selection Features: Only available for layer selections.

Advanced Area Selection: Ignored.

Map Shows: Counties

Query ID: 12205619229133



Hurricane Hanna

Total Jobs		2006	
	Count	Share	
Total Jobs	3,851,764	100.0%	

Jobs by Worker Age		2006	
	Count	Share	
Age 30 or younger	986,540	25.6%	
Age 31 to 54	2,223,878	57.7%	
Age 55 or older	641,341	16.7%	

Jobs by Earnings Paid		2006	
	Count	Share	
\$1,200 per month or less	1,151,809	29.9%	
\$1,201 to \$3,400 per month	1,607,250	41.7%	
More than \$3,400 per month	1,092,703	28.4%	

Jobs by Industry Type (2-digit NAICS)		2006	
	Count	Share	
Agriculture, Forestry, Fishing and Hunting	27,209	0.7%	
Mining, Quarrying, and Oil and Gas Extraction	2,960	0.1%	
Utilities	20,313	0.5%	
Construction	250,366	6.5%	
Manufacturing	432,164	11.2%	
Wholesale Trade	156,254	4.1%	
Retail Trade	484,900	12.6%	
Transportation and Warehousing	112,670	2.9%	
Information	79,120	2.1%	
Finance and Insurance	124,910	3.2%	
Real Estate and Rental and Leasing	65,712	1.7%	
Professional, Scientific, and Technical Services	201,509	5.2%	
Management of Companies and Enterprises	66,222	1.7%	
Administration & Support, Waste Management and Remediation	237,477	6.2%	
Educational Services	397,620	10.3%	
Health Care and Social Assistance	461,333	12.0%	
Arts, Entertainment, and Recreation	58,201	1.5%	
Accommodation and Food Services	350,065	9.1%	
Other Services (excluding Public Administration)	118,621	3.1%	
Public Administration	204,132	5.3%	

Work Area Profile Map

- Shows where workers employed in the selection area work.
- Projected path of Hanna based on NWS data.
- Plume selection from 20 miles to 150 miles.
- Approx. 3.9 million jobs in this selection for 2006.

North Arrow



The north arrow points to "true" or "pole" north. The centerpoint of the map is used for this calculation.

Scale

0 26 52 78 104 mi

The scalebar is calculated as an average over the entire map and is not survey accurate, especially at large scales.

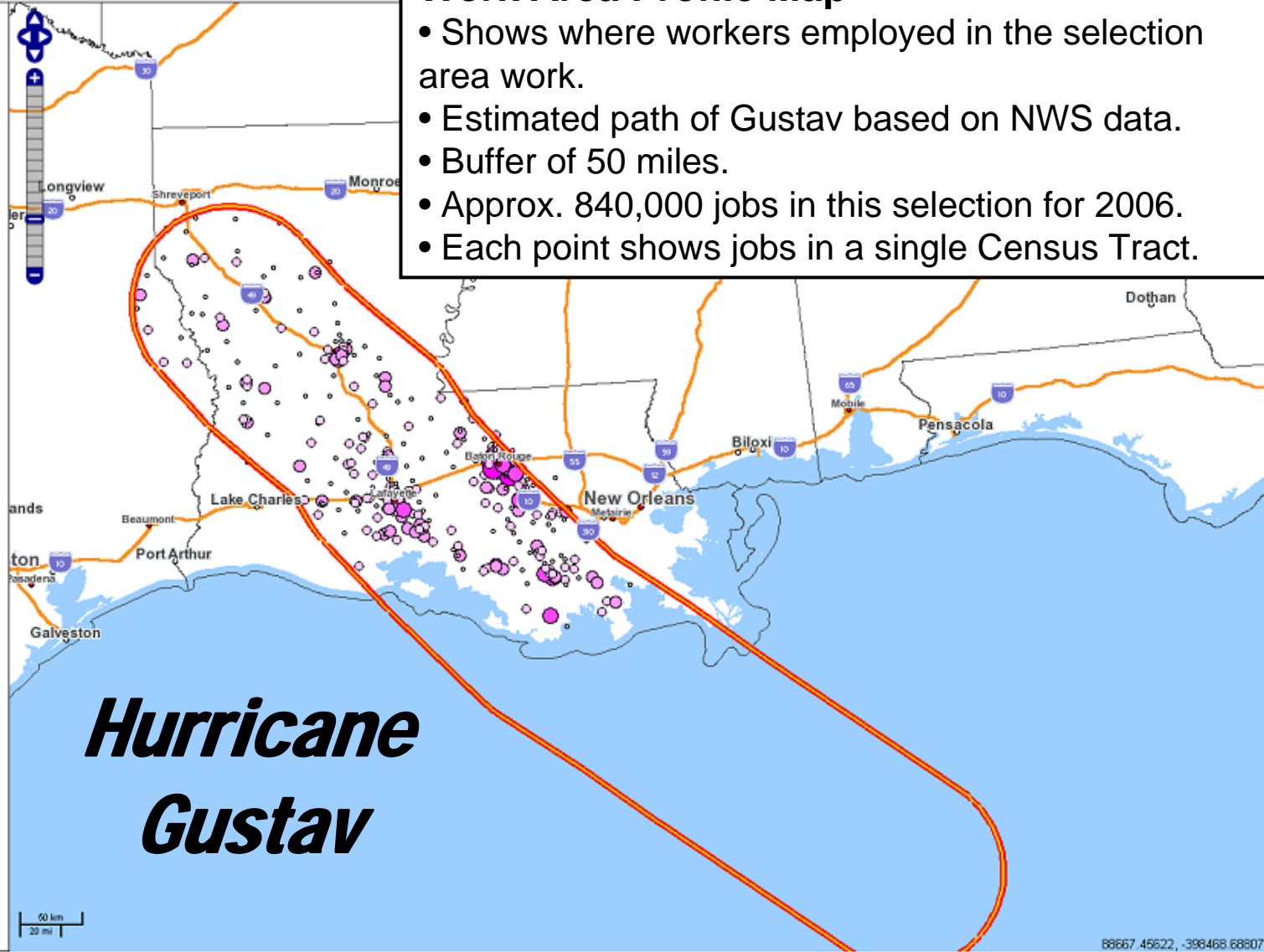
Legends

- City, Population 50,000-100,000
- City, Population 100,000-250,000
- City, Population Greater Than 250,000

Primary Selection Area

- 98 - 780 Workers
- 781 - 2635 Workers
- 2636 - 6247 Workers
- 6248 - 12201 Workers
- 12202 - 21084 Workers

- Participating State
- Non-Participating State



Hurricane Gustav

Work Area Profile Map

- Shows where workers employed in the selection area work.
- Estimated path of Gustav based on NWS data.
- Buffer of 50 miles.
- Approx. 840,000 jobs in this selection for 2006.
- Each point shows jobs in a single Census Tract.

“The Local Employment Dynamics (LED) partnership and its products, especially the Quarterly Workforce Indicators (QWI) and the On the Map online tool, have been critical to the business of analyzing the local labor market and the demographic makeup of King County’s industry sectors.”

Kris Stadelan, CEO

Workforce Development Council of Seattle-King County



search...

Home Your Community

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Fraction of Leander, Cedar Park residents stay in town to work

Written by Kara Vaught

Friday, 17 October 2008



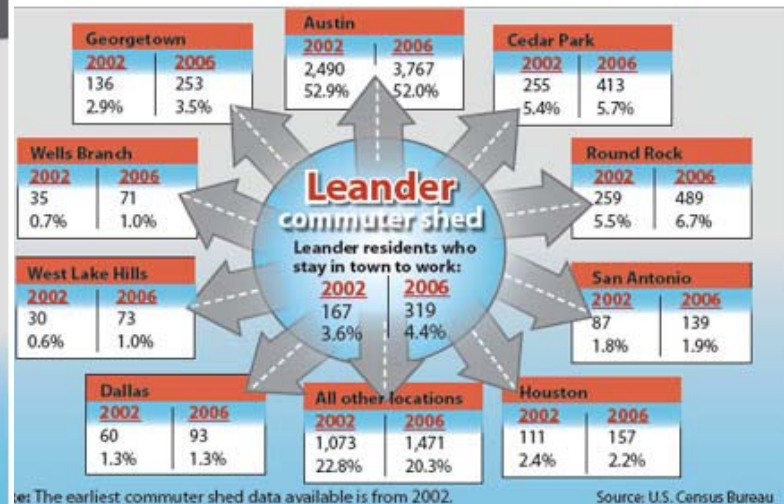
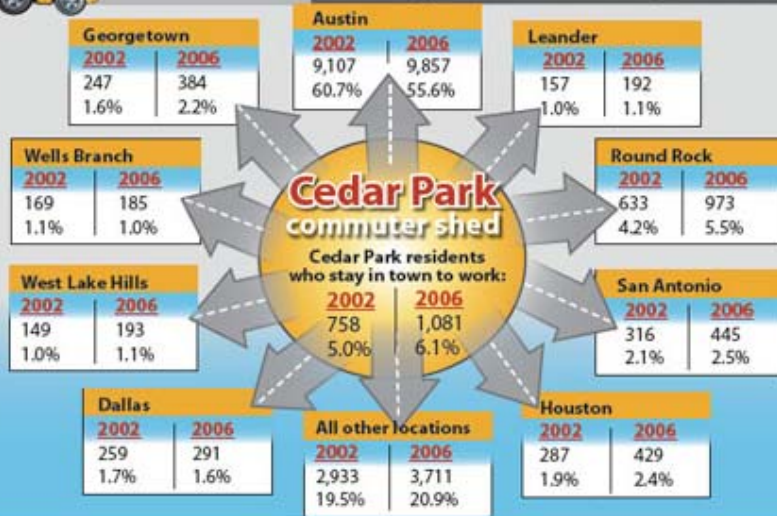
More than 90 percent of Leander and Cedar Park citizens work in other towns, according to data from the U.S. Census Bureau's Local Employment Dynamics database.

The term "commuter shed" is used to describe the portion of a city's residents who leave town to work.



Road to work

Each chart shows the number and percentage of Cedar Park or Leander residents employed full time in each town during 2002 and 2006.



ie: The earliest commuter shed data available is from 2002.

Source: U.S. Census Bureau

ELGIN COURIER

Online

Alcoa announces 660 layoffs, local region to feel effects

News that Alcoa will lay off 660 employees and limit the remaining production at the Rockdale aluminum smelter, Sandow, has caused grave concerns for employees and others who may be affected.

Alcoa has announced that it will curtail the remaining production at the Rockdale smelter beginning immediately. The reason Alcoa gives is uncompetitive power supply and overall market conditions.

The Rockdale smelter comprised 150,000 metric tons of productions a year (mtpy). In June, the company idled three of the plant's six operating potlines, which represents approximately 120,000 mtpy of production.

According to an analysis performed by the Capital Area Council of Governments (CACOG) aluminum manufacturing makes up 85 percent of the manufacturing jobs in the Rockdale zip code, 76567, which includes the area surrounding the Alcoa aluminum smelter.

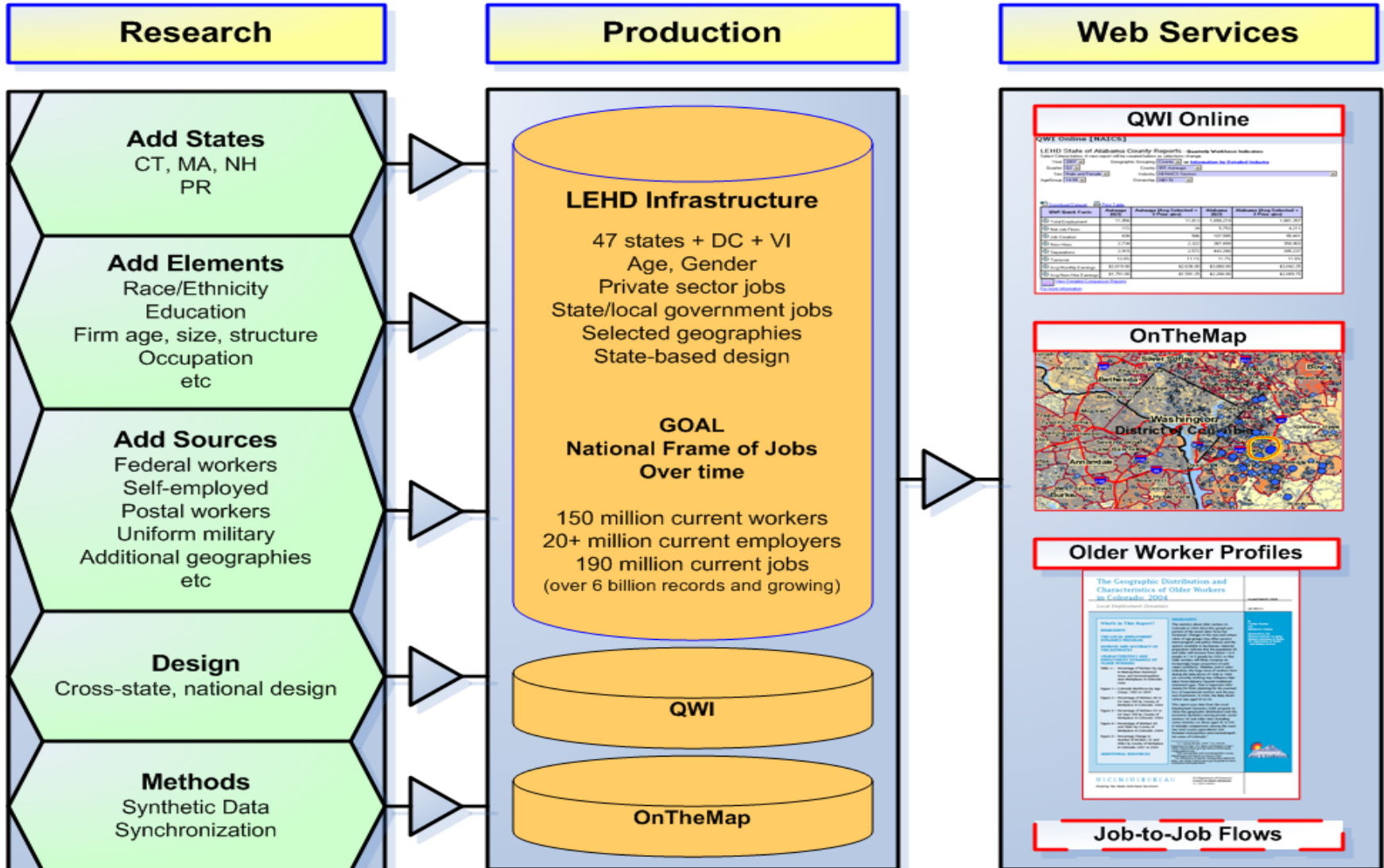
U.S. Census Bureau Local Employment Dynamics data show that half of the manufacturing workers live in Milam County; 16 percent live in Williamson and five percent live in Lee counties.

Know the Strengths and Limitations

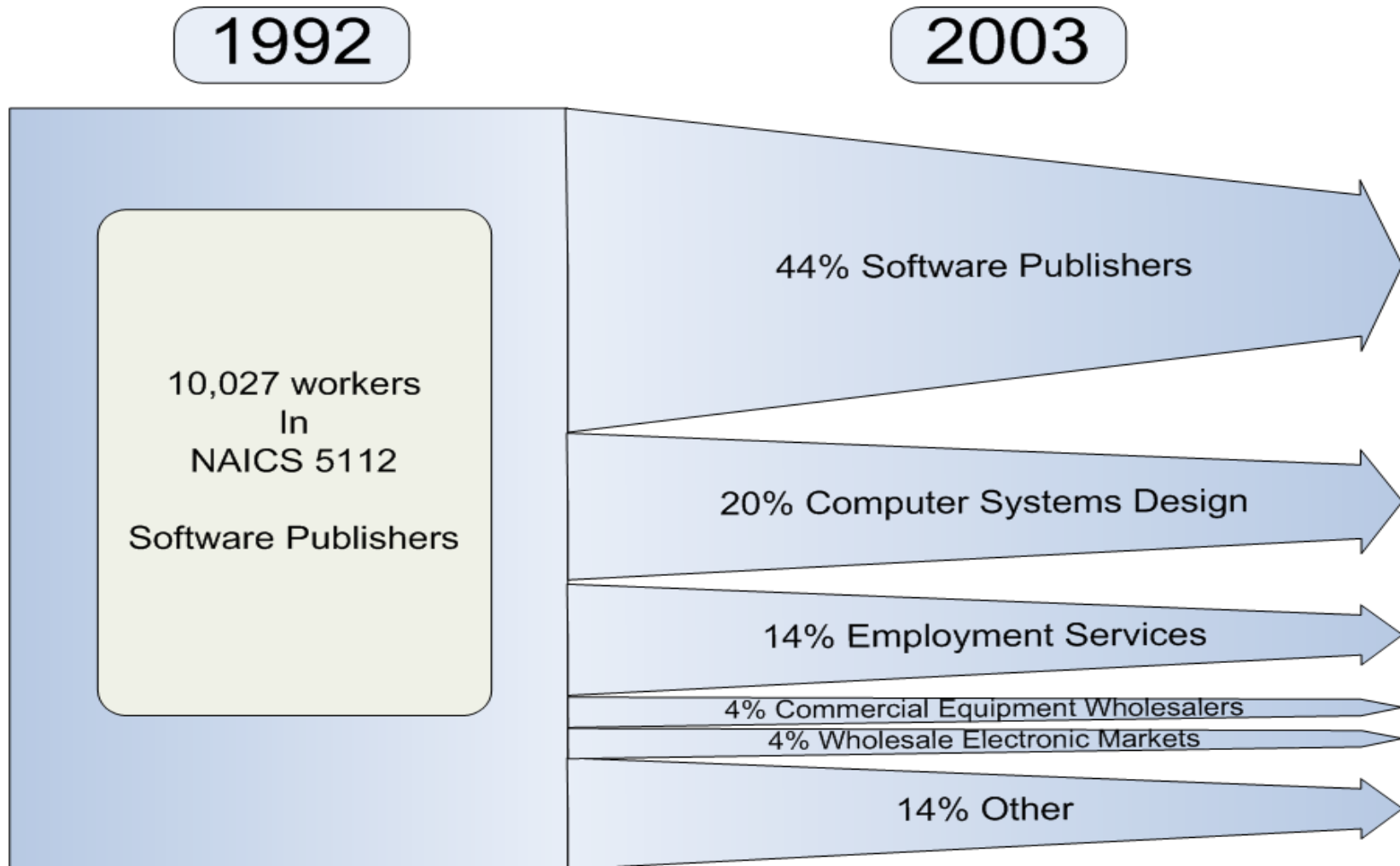
- Very large files
 - Excel will not be adequate
- Still growing
 - More states; elements; sources
- New terms/definitions
- New approach
 - Not a census
 - Not a survey
 - Integrated data
- New methods
 - Imputation
 - Noise infusion
 - Synthetic data modeling
- New look at data
 - Data visualization
 - Not point in time, but longitudinal/over time
- Downloadable

Development Plans

(assuming funding)



A Peek into the Future: Flow Statistics



Contact Us

Comments/Suggestions

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Jeremy.S.Wu@census.gov

Local Employment Dynamics

<http://lehd.did.census.gov>

Join the Listservs

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