QWI Production

Annual LED Partnership Workshop

Suitland, MD
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U.S. Census Bureau
Update Topics

• LED Partnership
• QWI Production
• Performance Measures
• Production System
• Emerging Data Infrastructure
• The Production and QA Teams
LED Partner States

Local Employment Dynamics
Partner States

Partner States  "OnTheMap" States  Not Partner States

US CENSUS BUREAU

February 25, 2008
LED Partnership Status

Partners, including DC 47
Non-Partners

- In process of joining – CT, NE, VI 3
- Legislative change pending – NH 1
- Not yet partners - MA, PR 2

Total 53
The Operational Model

Local Employment Dynamics
- Historical worker wage records for each business
- Quarterly worker wage records for each business

Flagship Product
- Quarterly Workforce Indicators (QWI)

New Products & Services
- QWI Online
- Industry Focus
- OnTheMap
- Profiles of Older Workers
- Com Econ Dev HotReports
  - [Assisting BRAC]
  - [Measuring Innovation]
  - [Emergency Preparedness]
- SIPP Synthetic Beta

Snapshot Extracts
- Restricted Use Files

State Partners

Census Bureau

Policy-makers
- Analysts
- Researchers

Public Use

Approved Projects at Research Data Centers

Data Processing and Integration

LEHD Data Infrastructure
Growth of QWI Employment Coverage

![Bar chart showing the growth of QWI employment coverage from 2000 to 2008. The chart displays the employment coverage in millions for both existing and new states. The y-axis represents the millions of employees, and the x-axis represents the years from 2000 to 2008. The chart indicates a steady increase in employment coverage over the years.]
Two Types of QWI Production

Experimental Production

- After a state joins LED
- Processes historical files via standard procedures
- Waives requirements on time
- State concurrence before Regular Production and public release

Regular Production

- Begins quarterly time requirements on file delivery and QWI production
- Posts QWI results regularly on website for public use
QWI Production Status

Experimental (3)
- District of Columbia
- New York
- South Dakota

Regular (43)
- States (Quarterly) 42
- CA (Annual) 1

Convert CA to quarterly schedule beginning 2008Q2
QWI Production System

- Upgraded to 36 CPU/240 GB RAM about 6 months ago
- Upgraded to about 100TB of usable storage in January
- Almost 6,500 processing hours for 42 states each quarter
- CA to add another 1,800 hours; total for national LED will exceed 10,000 hours
Emerging Data Infrastructure

- About 150 million current workers, 190 million current jobs, and 20+ million current employers
- To cover private and public sector jobs and self-employed
- Quarterly data going as far back as 1990
- Currently 6+ billion records and growing
Preparing for the (near) future

• On schedule to begin migration to blade technologies for computing starting in 2008

• Initial deployment:
  – 2 blades; 8-way CPU/32GB RAM

• Full deployment cluster:
  – 56 cpu/448GB RAM/150TB storage

• Additional clusters for test and development environments
# The LED Production and QA Teams

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<tr>
<th>Production</th>
<th>Quality Assurance</th>
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<tbody>
<tr>
<td>Walter Kydd</td>
<td>Emily Isenberg</td>
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<tr>
<td>Tao Li</td>
<td>Erika McEntarfer</td>
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<tr>
<td>Cindy Ma</td>
<td>Stephen Tibbets</td>
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<tr>
<td>Camille Norwood</td>
<td>Lars Vilhuber</td>
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<td>Claudia Perez</td>
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<td>Chaoling Zheng</td>
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Average Daily Hits at LED Website by Month

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</tbody>
</table>
Daily Hits at LED Website
(December 2007 - February 2008)
Contact Us

General Comments/Suggestions
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Production Team
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Local Employment Dynamics Website
http://lehd.did.census.gov