

LED Enhancements

Annual LED Partnership Workshop

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with inputs from other LEHD staff

We started small...

- LEHD started with 7 states
- Processing model: state-based
- Core Inputs:
 - state-provided UI wage files (jobs)
 - state-specific extracts of Census data on people (7 out of 50)
 - state-specific extracts from state and Census data on firms/workplaces (7/50)

The internal LEHD database

- Outputs included:
 - state-specific Employer Characteristics Files (ECF) (workplace and firms)
 - state-specific Individual Characteristics Files (ICF) (people)
 - state-specific Employment History Files (EHF) (jobs)

Advantages of per-state processing

- accelerated processing of states that are complete
- sequencing of processing on constrained hardware
- (initially) reduced file sizes for extracts of national files

... and then we grew

- LEHD now:
 - 42 states in regular production
 - nearly 120 million workers
 - nearing full coverage of private sector jobs
 - upcoming integration of federal/postal/self-employed workers
- => nearing full coverage of all jobs

Growing disadvantages of current processing model

- significant overlap in ICF files
- non-UI job information (different structure)
 - OPM: point-in-time information, national file
 - Self-employed: yearly information, national file

Challenges

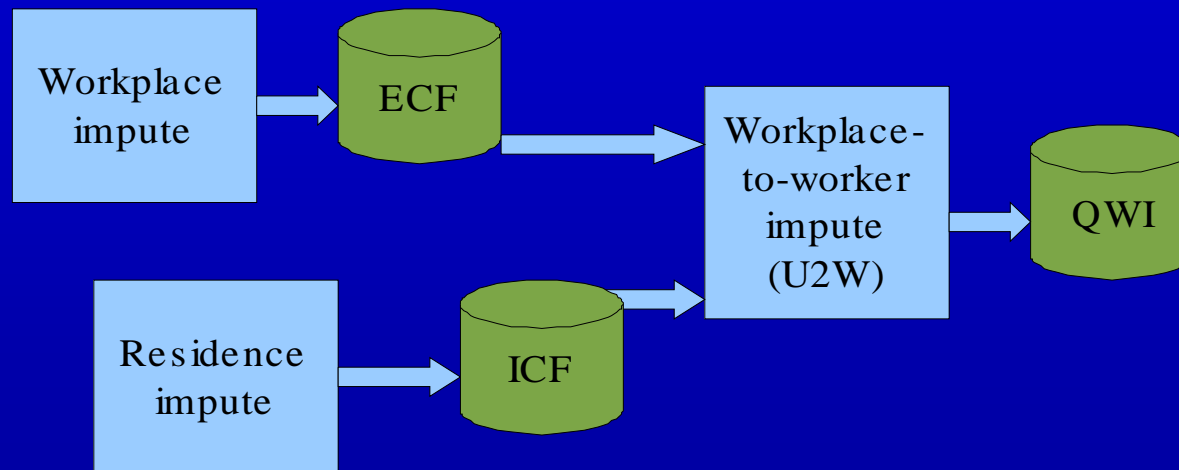
- creating a national workhistory for each worker
- restructuring job information to the UI wage record “standard”
- better information => better imputes
- increase in production efficiency

LE(H)D enhancements

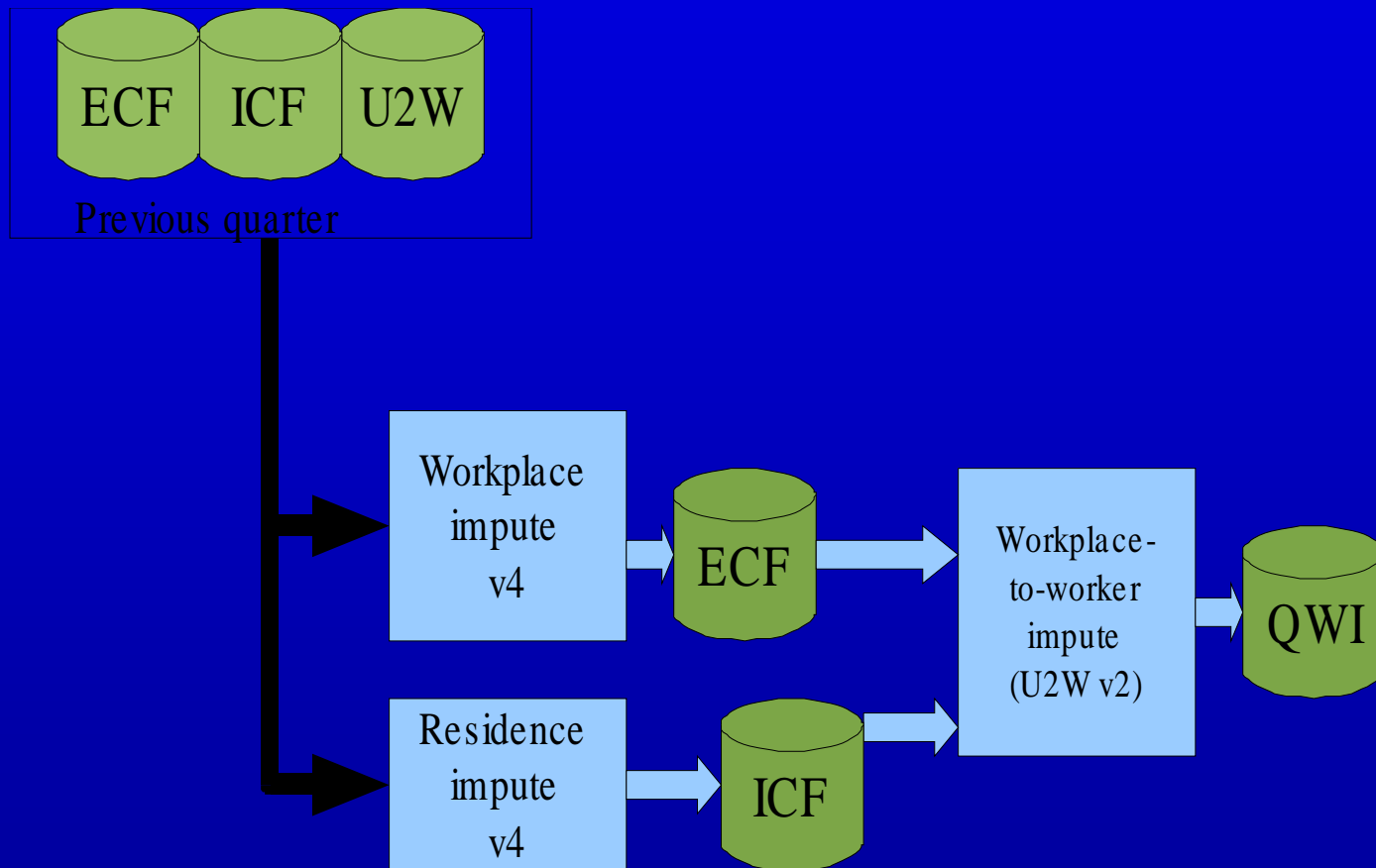
- **Structure of the overview**
 - 1.Improving current processing
 - 2.Increasing coverage
 - 3.Increasing information content
 - 4.Increase in production efficiency

Improving current processing

- Improved geo-imputation for missing information (workplace, residence, U2W)



Improving current processing



Improving current processing

- Improved workhistory
 - missing record imputation for problematic quarters (historical, Katrina), locked-in
 - Better handling of time-inconsistent top coding and extreme earnings values

Increasing coverage

- Improved workhistory (2)
 - incorporating information from
 - federal workers (OPM)
 - self-employed (BR+)
 - other
 - integrating efficiently out-of-state information (labor force state)

Increasing information content

- Improved protection system
 - synthesizing small cells (no missing cell data)
- Additional demographics
 - Hispanic
 - Immigrant status
- Additional geography

Contact Us

General Comments/Suggestions

did.local.employment.dynamics@census.gov

Local Employment Dynamics Website

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