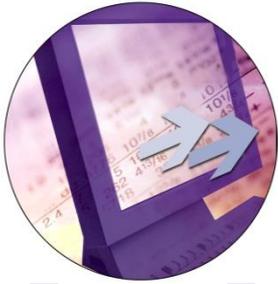




History of the Star Metrics World: Part III

Lou Schwarz
Factor 21, Inc.



Star Metrics...history



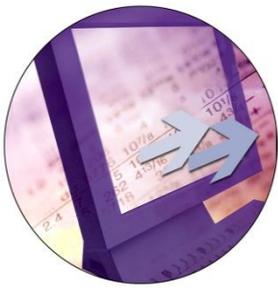
- **Origins**



- **Early Days**



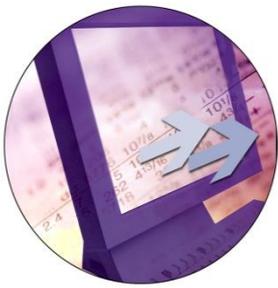
- **Revisions**



Star Metrics...history

Origins

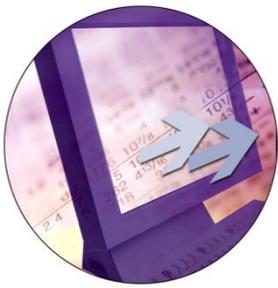
- Concerns over surveys
 - Timeliness & Frequency
 - Statistical representativeness (sample errors)
 - Expense, expense, expense
- Administrative records analysis
 - Scandinavian research 70's & 80's
 - Event history analyses (health, education, labor, etc.)
 - Population projections using administrative records and Markov chains
 - LEHD (“21st Century Census”)
 - 50 partner states
 - 100+ terabytes of partner provided unemployment and employer wage records (quarterly updates)



Star Metrics...history

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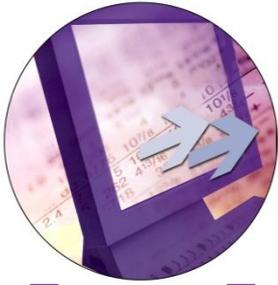
Star Metrics...history

Origins

- Concerns over surveys
- Administrative records analysis
- ARRA Reporting Concerns
 - Labor intensive
 - Manually assembled
 - Accuracy of calculations



Opportunity for
administrative records
analysis!



Star Metrics...history

• **Origins**

• **Early Days**

• **Revisions**

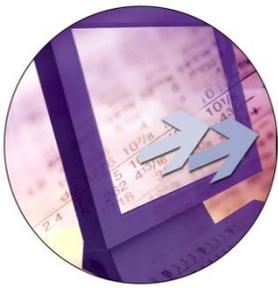


Star Metrics...history

Early Days

- Many meetings and presentations
 - Partner agencies (\$)
 - OSTP
 - Potential partner institutions
 - FDP

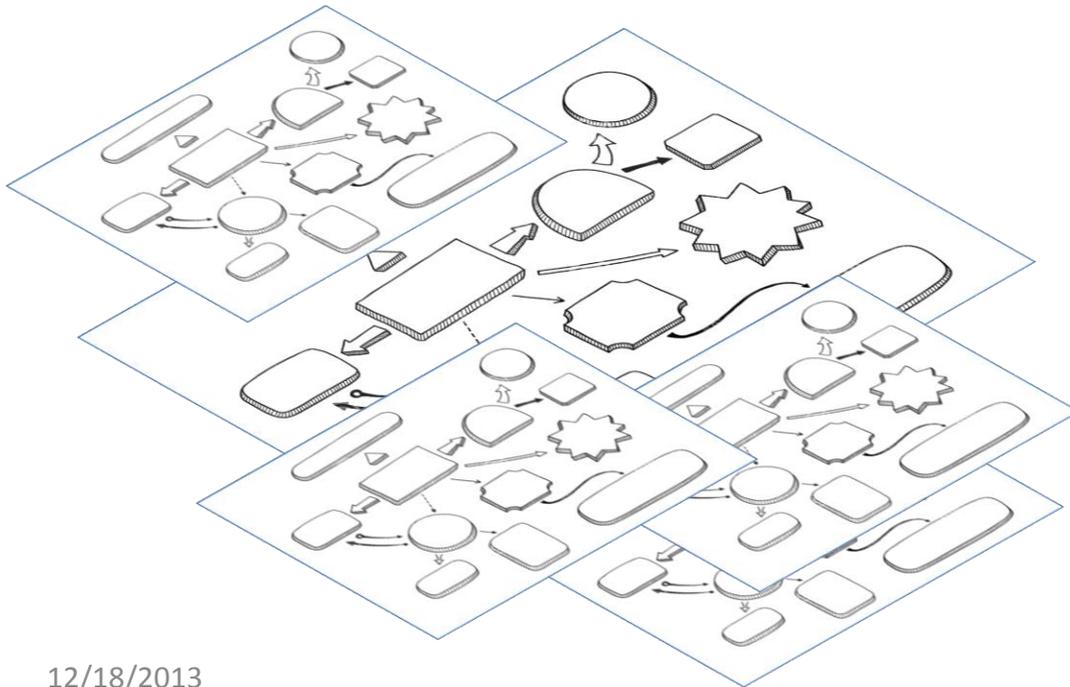


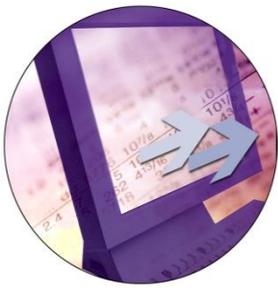


Star Metrics...history

Early Days

- Lots of coffee
- Lots of napkins

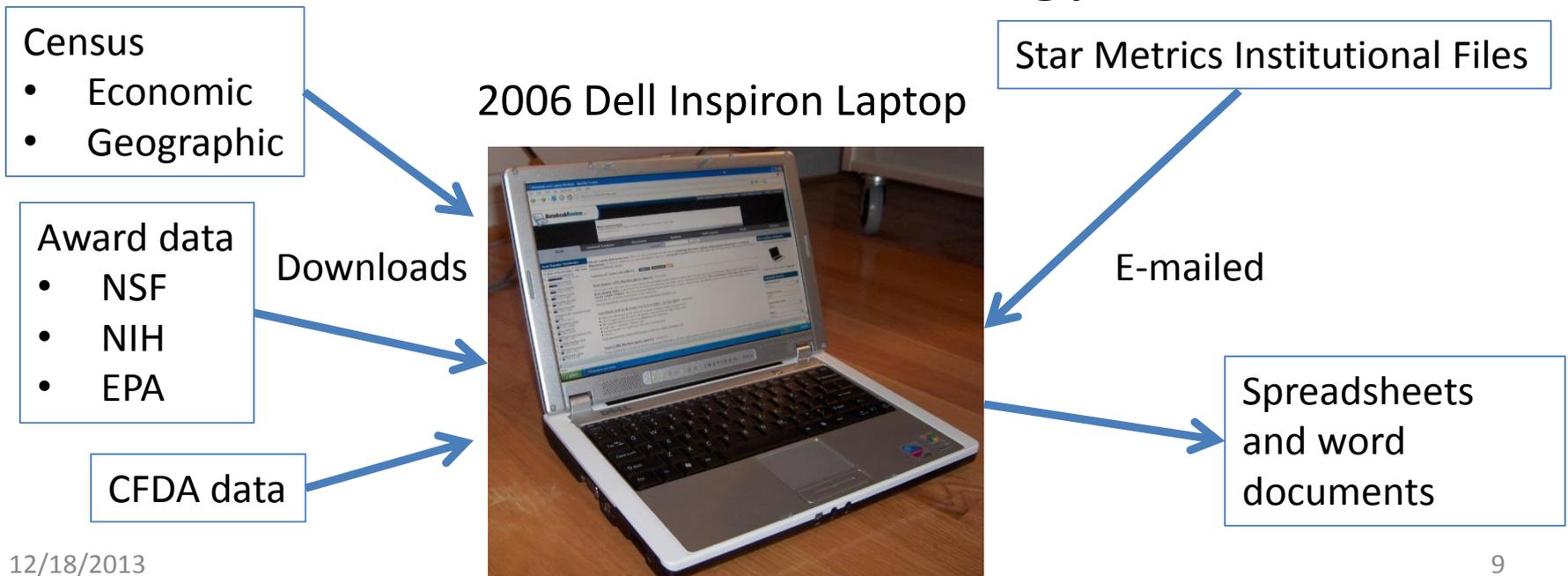




Star Metrics...history

Early Days

- Proof of concept
- Off-site website (Synthosys)
- State of the art technology



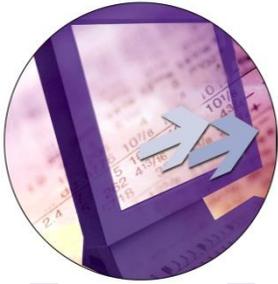


Star Metrics...history

Early Days

- Tons of paperwork and correspondence
 - MOUs
 - Legal approval
 - NIH systems procurement



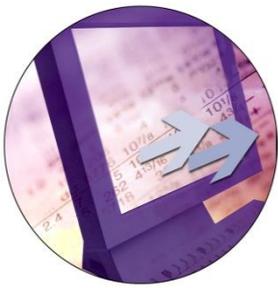


Star Metrics...history

• **Origins**

• **Early Days**

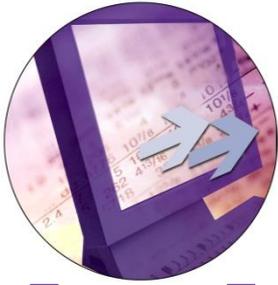
• **Revisions**



Star Metrics...history

Revisions

- Actively listened to institutions
 - More relevant tables and charts
 - Revised occupational classifications
 - Create additional data quality control reports (duplicates , over allocation, award coding, etc.)
- Data uploads to website
- Automated CFDA uploads
- OSTP coding of science awards
- Created institutional profile
 - Allows optional improvement to the calculation of institutional support jobs (historical rate, average salaries)



Star Metrics...history



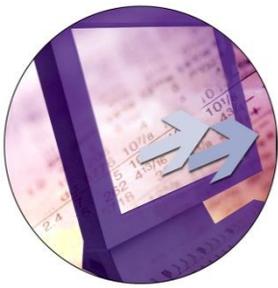
- Origins



- Early Days



- Revisions



Star Metrics...history

DISCUSSION: Revisions Explored

- Transitioning to interactive reporting (web OLAP systems)
- Prioritizing institutions for recruitment
- Investigate methods to improve NAICS and ZIP coding of subaward and vendor data