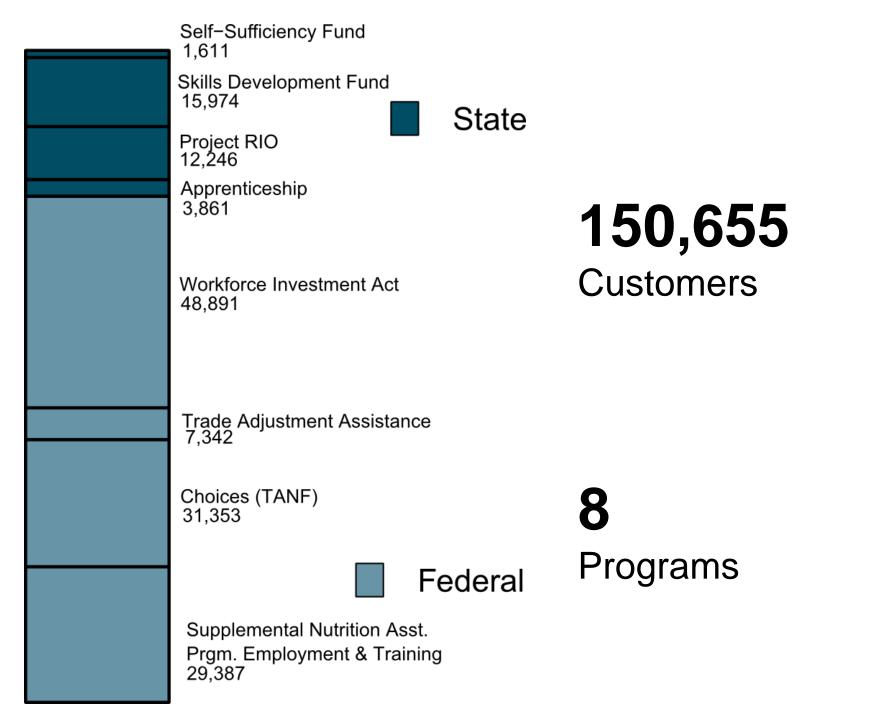


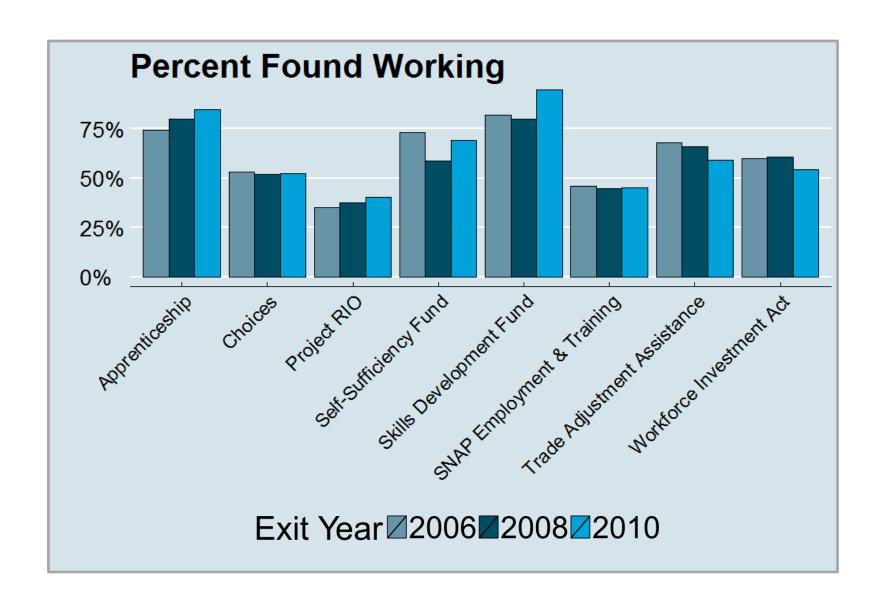
As mandated by Texas Senate Bill 281 (2003)...

We support continuous program improvement by documenting workforce, education and training outcomes using innovative reporting techniques.

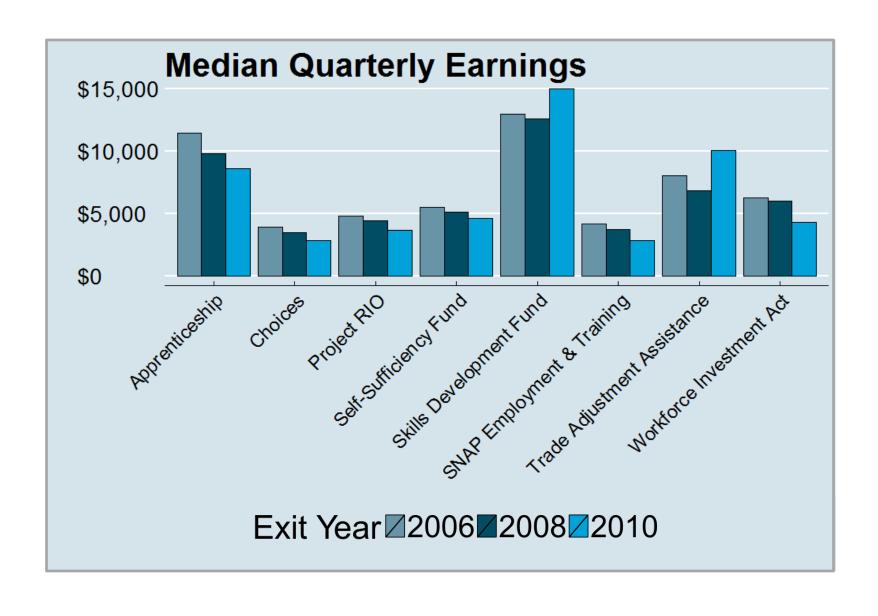




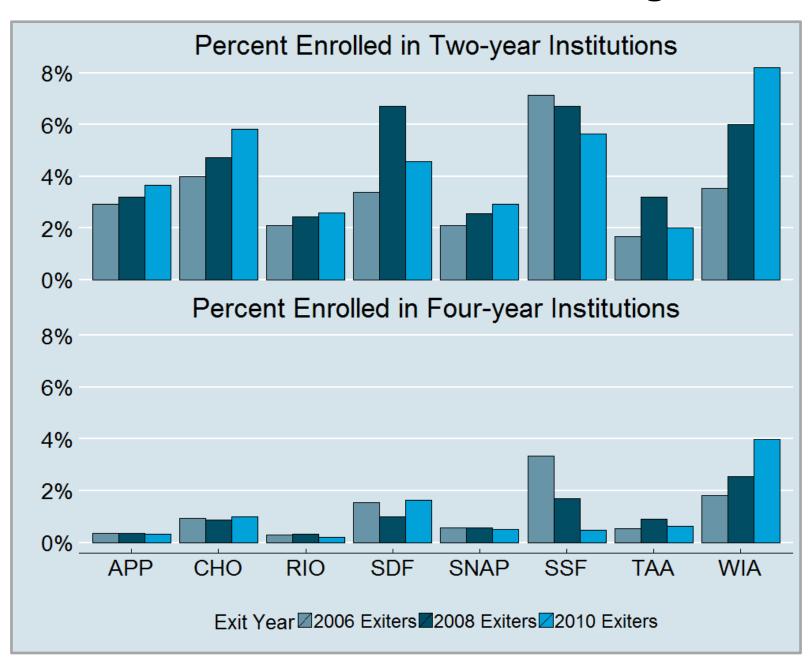
How Are Our Customers Doing?



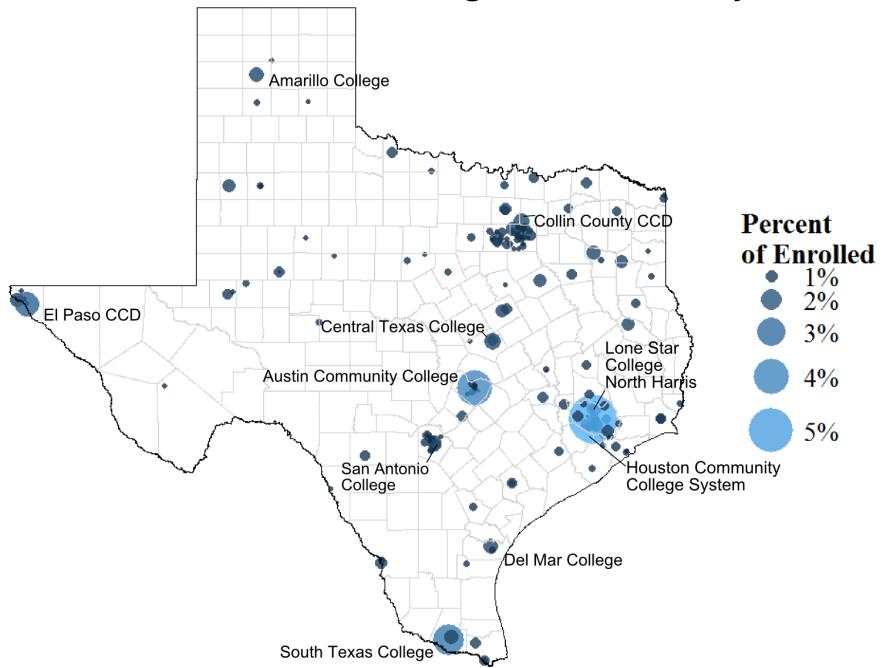
How Are Our Customers Doing?



Do Our Customers Go to College?



If Our Customers Go to College, Where Do They Go?



THEN -> NOW



THEN

Data People





Consultants and Other 3rd **Parties**



Customers









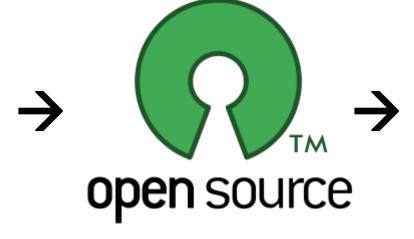
DATA

NOW

Data People Customers



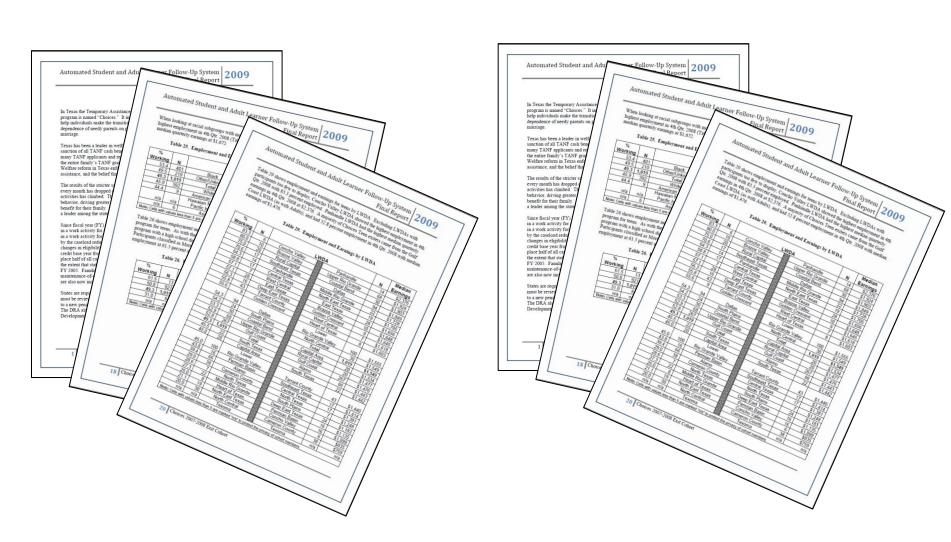




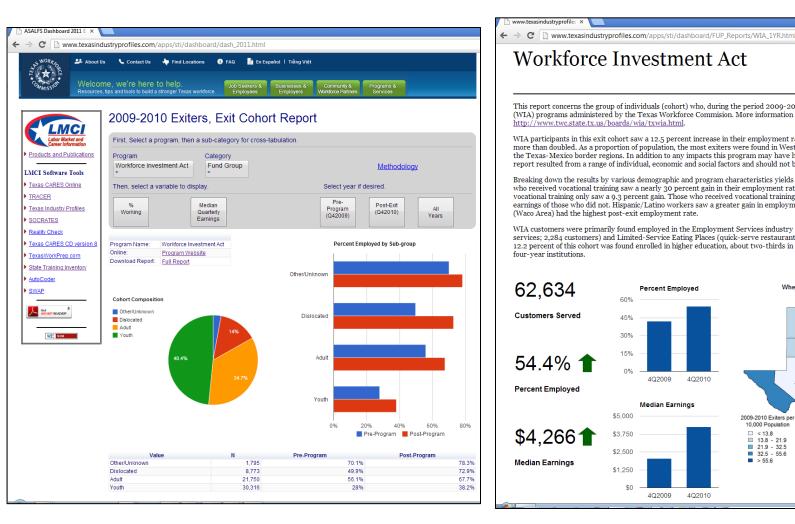


DATA

THEN



NOW





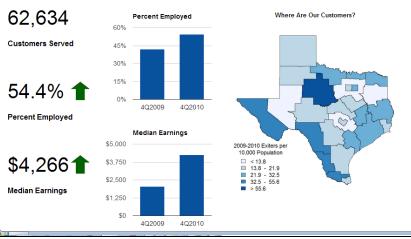
2009-2010 Exiters Exit Cohort Report

This report concerns the group of individuals (cohort) who, during the period 2009-2010, exited Workforce Investment Act (WIA) programs administered by the Texas Workforce Commission. More information on WIA in Texas is available at http://www.twc.state.tx.us/boards/wia/txwia.html.

WIA participants in this exit cohort saw a 12.5 percent increase in their employment rate along with median earnings that more than doubled. As a proportion of population, the most exiters were found in West Central WDA (Abilene), followed by the Texas-Mexico border regions. In addition to any impacts this program may have had, the outcomes described in this report resulted from a range of individual, economic and social factors and should not be construed as pure program impacts.

Breaking down the results by various demographic and program characteristics yields some interesting results. Individuals who received vocational training saw a nearly 30 percent gain in their employment rate, while those who did not receive vocational training only saw a 9.3 percent gain. Those who received vocational training also had nearly twice the median earnings of those who did not. Hispanic/Latino workers saw a greater gain in employment than others. Rural Capital LWDA (Waco Area) had the highest post-exit employment rate.

WIA customers were primarily found employed in the Employment Services industry (predominately temporary staffing services; 2,284 customers) and Limited-Service Eating Places (quick-serve restaurants; 2,431 customers). An impressive 12.2 percent of this cohort was found enrolled in higher education, about two-thirds in two-year institutions and one-third in four-year institutions.



THEN



NOW

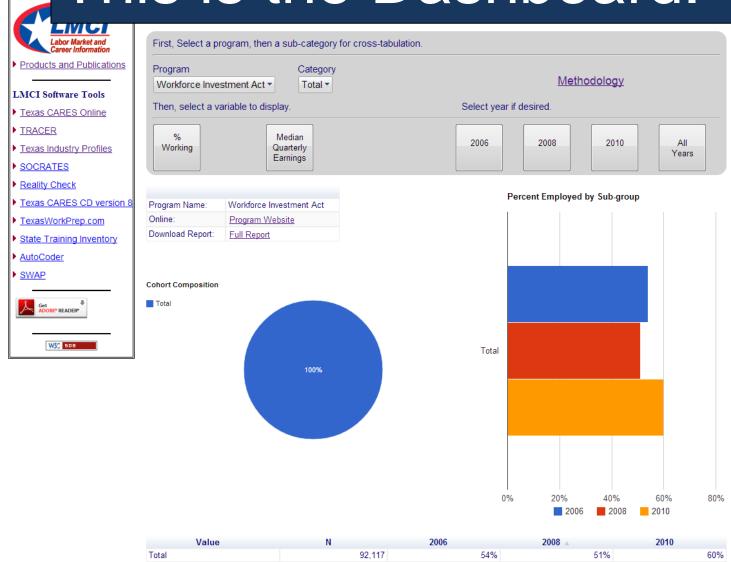


THE DASHBOARD

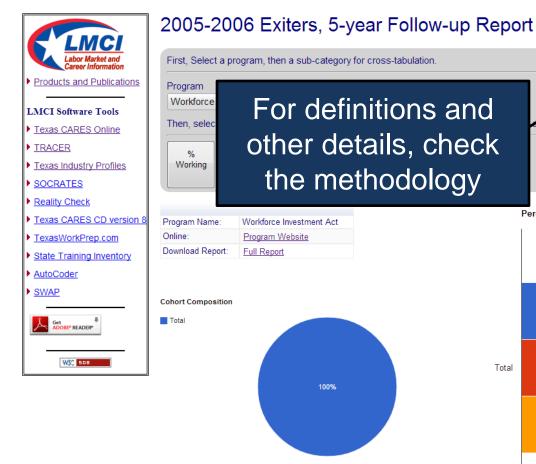


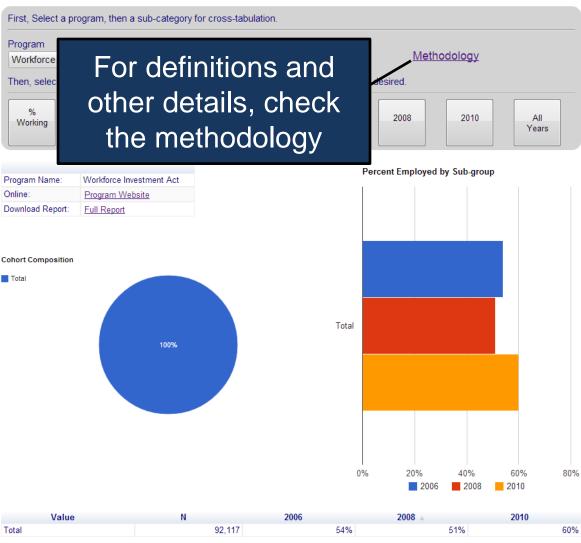


This is the Dashboard.



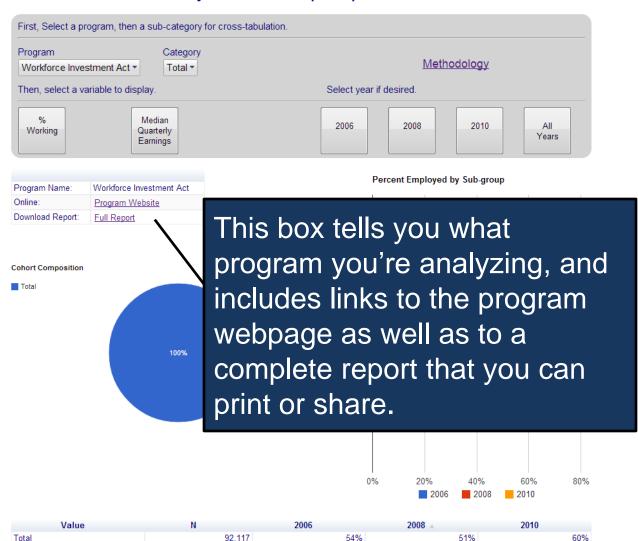


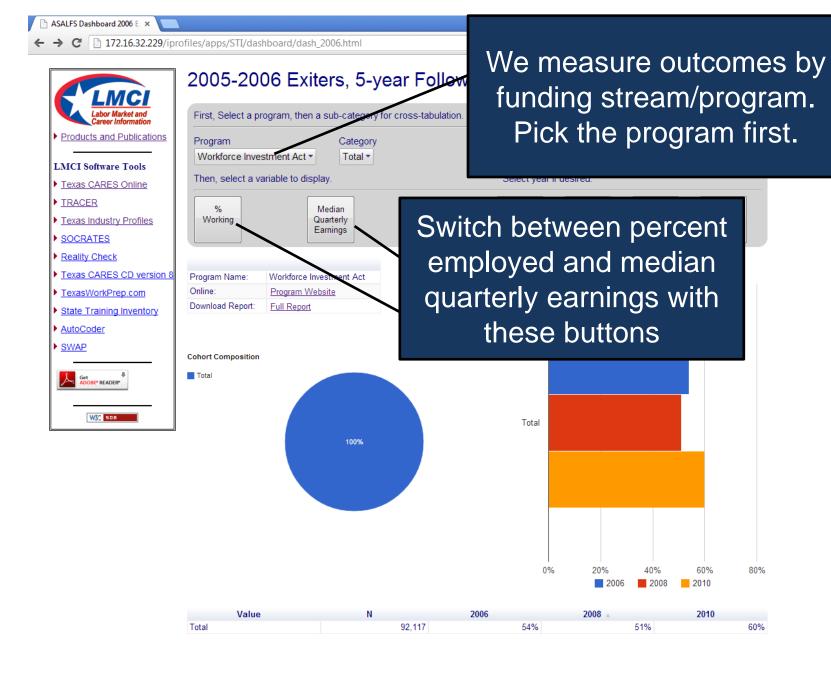


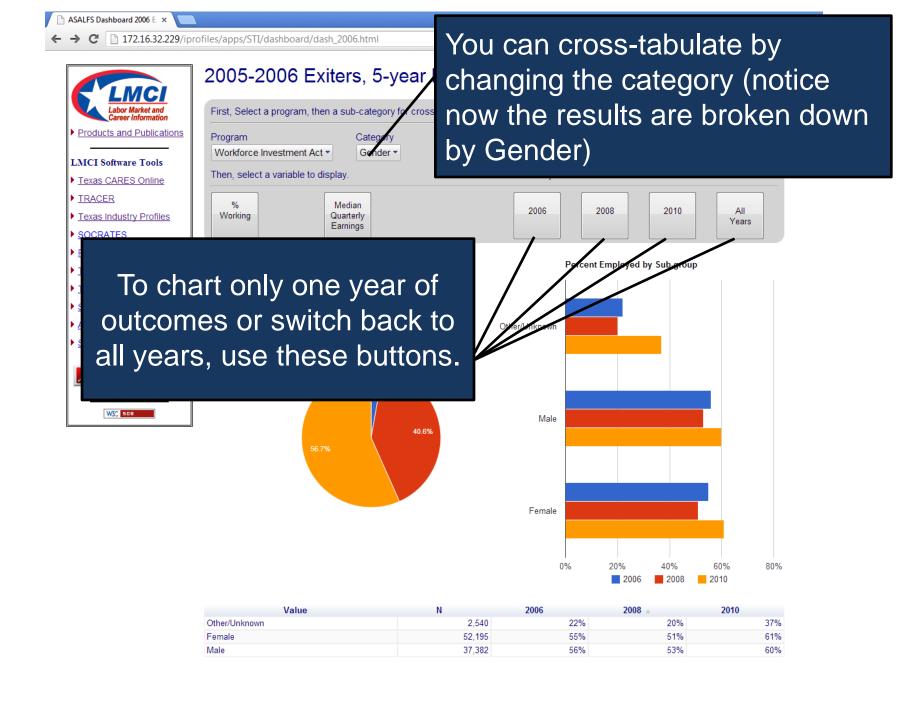


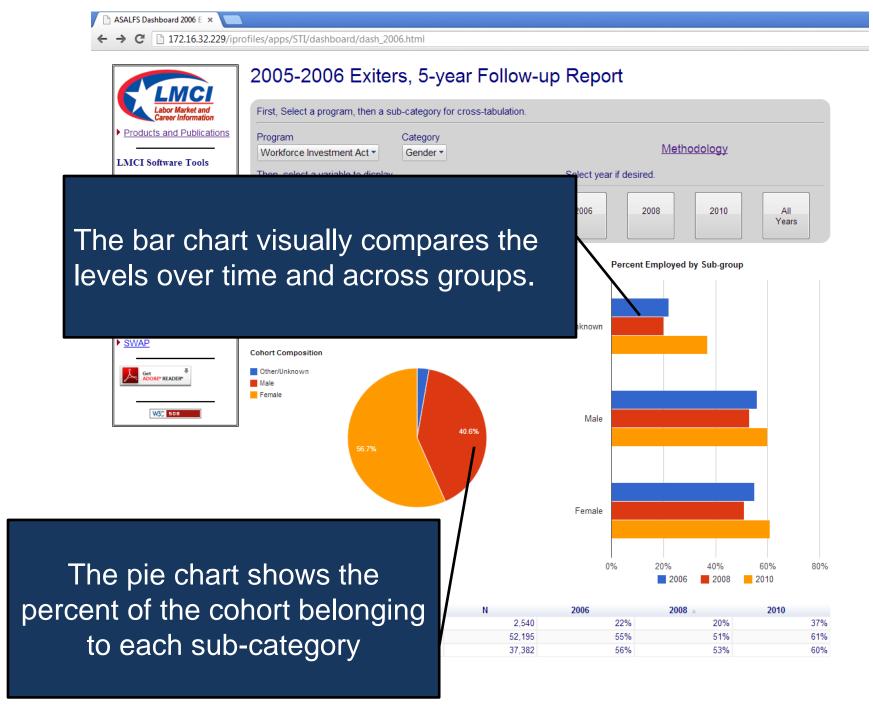


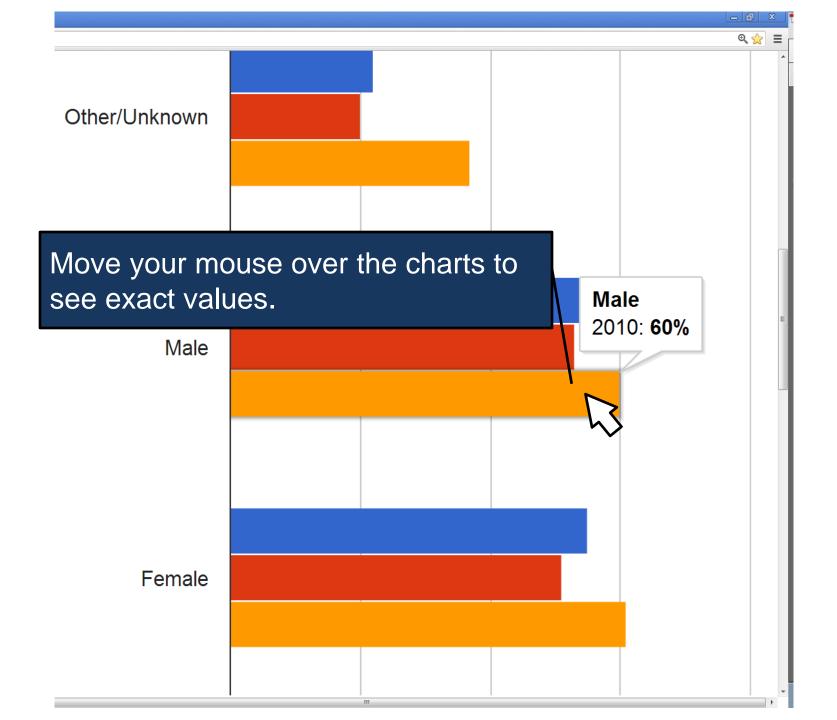
2005-2006 Exiters, 5-year Follow-up Report

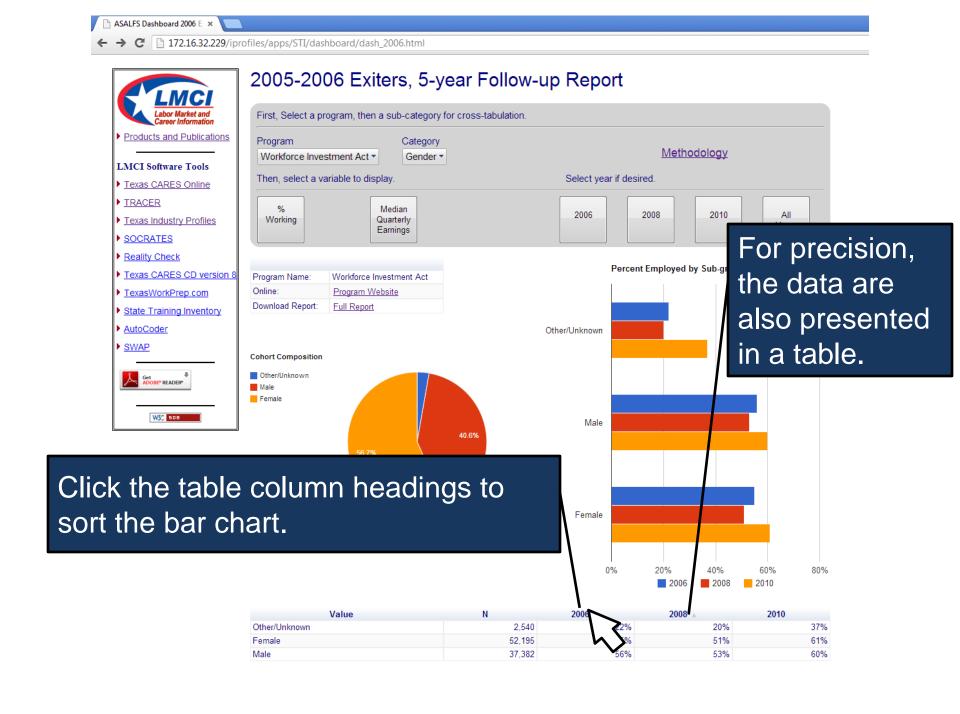










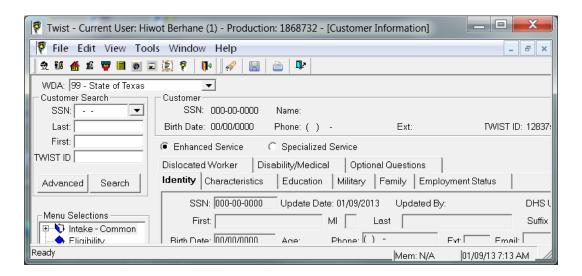


HOW'D THEY DO IT?



How do we Collect Data?

- Systematically and based on well-defined procedures!
- Main Data Sources: Unemployment Insurance Wage Records, The Workforce Information System of Texas (TWIST)
- Both Transaction data



Data Received from TWIST

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F,,,xxxxxxxxx,,,19660519,,45,,28,,,201,,,1,,,012,,,21,,,03,,,74,,,,,,,018,,,,,2,,,0,,,6,,,1,,,,,,,,
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,R,,,807434842,,,19580924,,53,,05,,,439,,,2,,,012,,,21,,,03,,,78,,,,,,99989,,,010,,,,,1,,,0,,,5,,,3,,,,
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S,,,xxxxxxxxx,,,,24,,10,,,,,,,,,,,,,,,521804,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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Convert to Flat File, Then Clean Data

- Remove rows with no SSN
- 2. Find and replace text, recode variables
- 3. Remove spaces and nonprinting characters from text
- 4. Fix numbers with leading 0s
- 5. Change dates to desired format
- 6. Merge and split columns
- 7. Transform and rearrange columns and rows
- 8. Reconcile table data by joining or matching
- 9. Find unknown activity codes
- 10. Unduplicate!

Add Outcome Variables





SSN

XXX-XX-XXXX







(Federal **Employment)**









Wage Record Interchange **System** (Out-of-State **Employment)**



UI Wage Records (TX Employment)

Start doing the Analysis

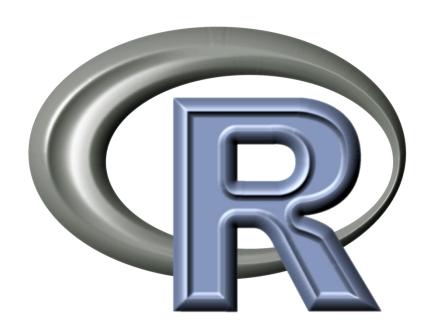
Analyze using SAS

```
PROC FORMAT
    value $gender
    '1' = 'Male'
    '2' = 'Female';
DATA work.lwdung;
    Set mylib.cohort;
  totwq=twq411+fedswq+wriswq;
   if ncs411 ^= " " then nq0= substr(ncs411,1,4);
   if dod="Y" or opm="Y" then wka=1;
   format gender $gender. ethnicity $ethnic. age age. ;
RUN;
ODS
html FILE="C:\fup2012\followup\lw'&nm'.xls" STYLE=MINIMAL;
```

Sample Output (Excel)

Local Workforce Development Board GULF COAST (28)									
				4th qtr. 2011			4th qtr 2010 (q-4)		
Program Group	Variable Name	Value	N	Post N Working	post % Working	Post Median Earning 4th qtr 2011	Pre N Working	Pre % Working	Pre Median Earning 4th qtr 2010
Apprenticeship	Gender	Male	92	70	0.761	9151	81	0.88	6575
Apprenticeship	Gender	Female	9	6	0.667	6274	8	0.889	3984
Apprenticeship	Age	BN 21 - 30	52	40	0.769	9882	45	0.865	6966
Apprenticeship	Age	BN 31 - 40	26	20	0.769	7709	24	0.923	4951
Apprenticeship	Age	GT 51	11	8	0.727	3671	10	0.909	3004
Apprenticeship	Age	BN 41-50	10	7	0.7	4461	9	0.9	4663

OPEN-SOURCE TOOLS





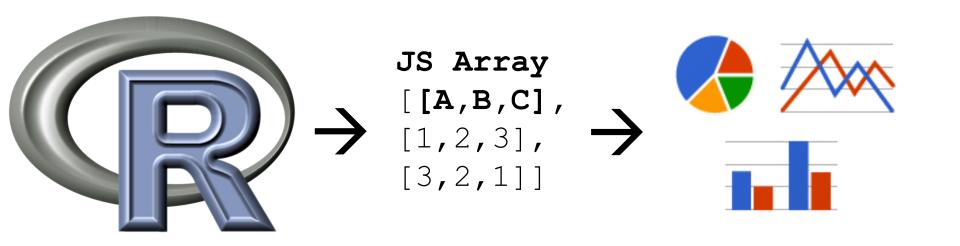
knitr

Elegant, flexible and fast dynamic report generation with R

Total Cost: \$0

Process Flow





We "R"—and so can you...

You can use these or similar techniques to present YOUR analyses at YOUR institution using YOUR DATA

Don't fear code—you too, can do this

You don't need to hire a consultant...unless his name is Jesse Sampson

See the Dashboards live!

http://www.lmci.state.tx.us/researchers/FinalReport2011.asp

TAIR 2013

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Jesse Sampson: jesse.sampson@twc.state.tx.us

February 12, 2013 Moody Gardens Galveston, Texas

