LABOR MARKET INFORMATION FORUM MARYLAND BUSINESS AND EMPLOYMENT DYNAMICS

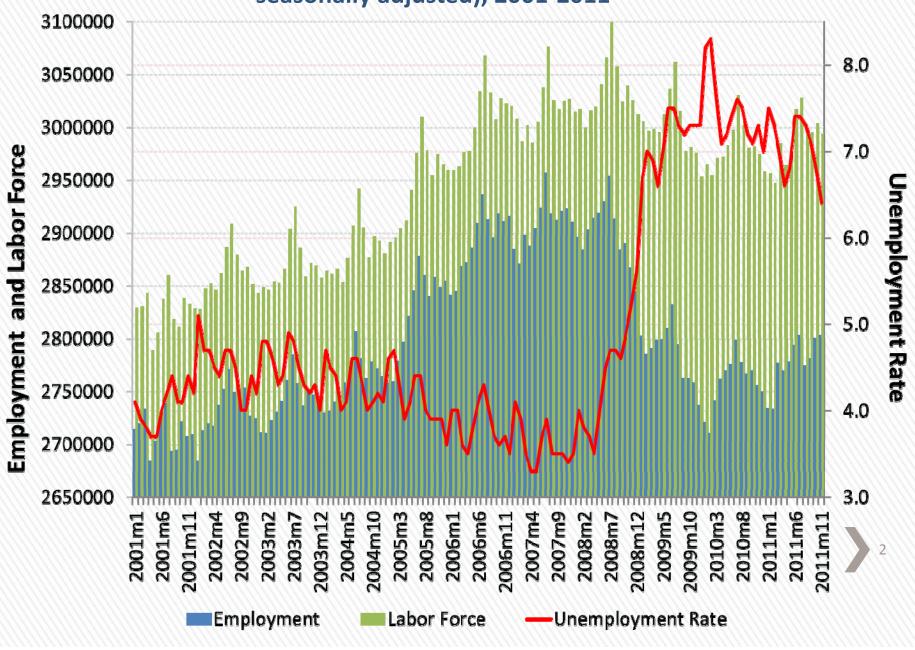
Co-hosted by:

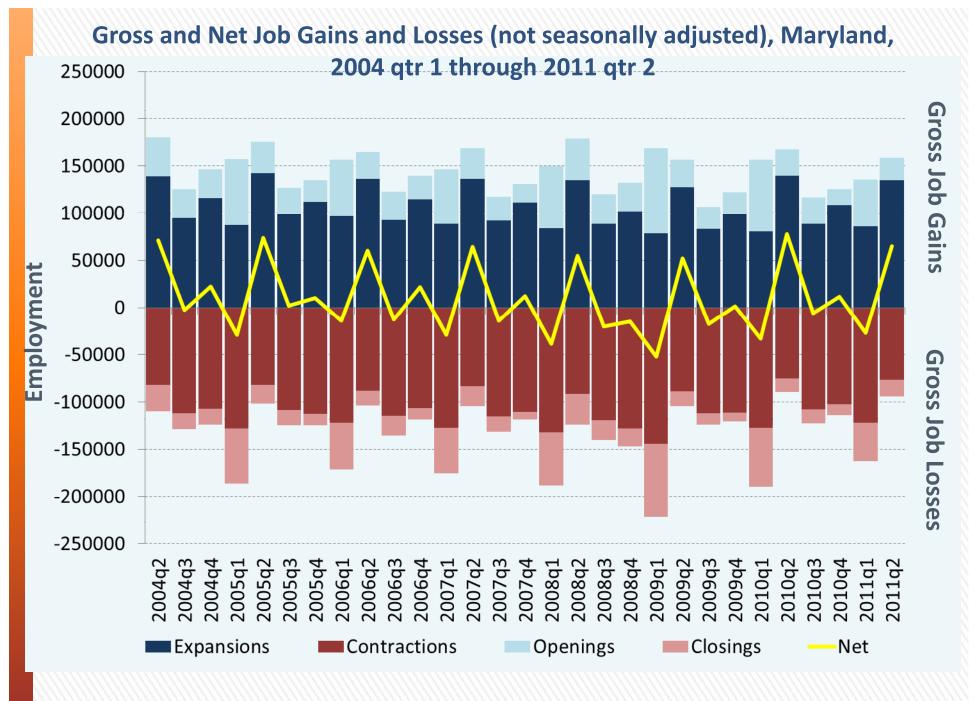
Maryland Department of Labor, Licensing and Regulation
Division of Workforce Development & Adult Learning
Office of Workforce Information and Performance

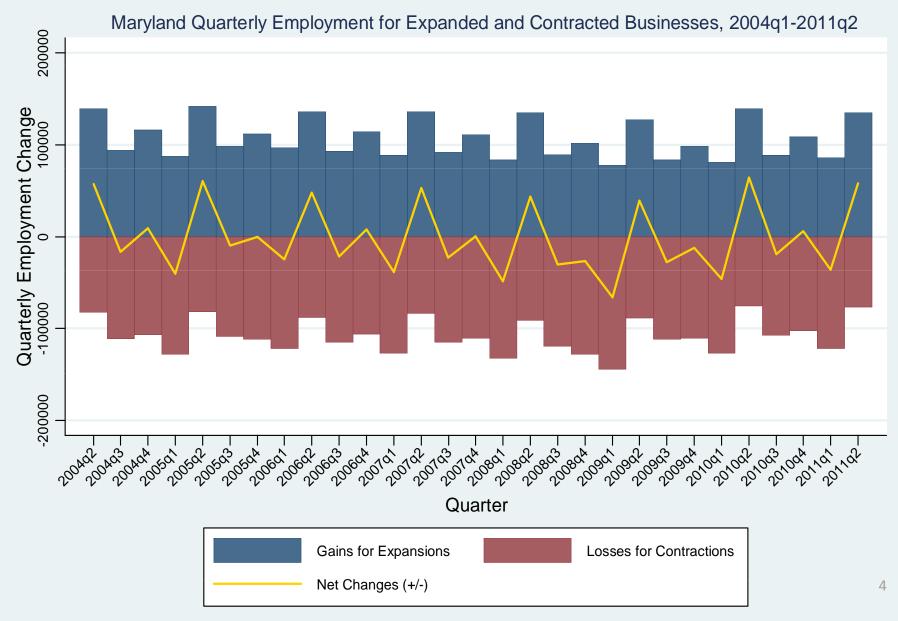
And

University of Baltimore
The Jacob France Institute

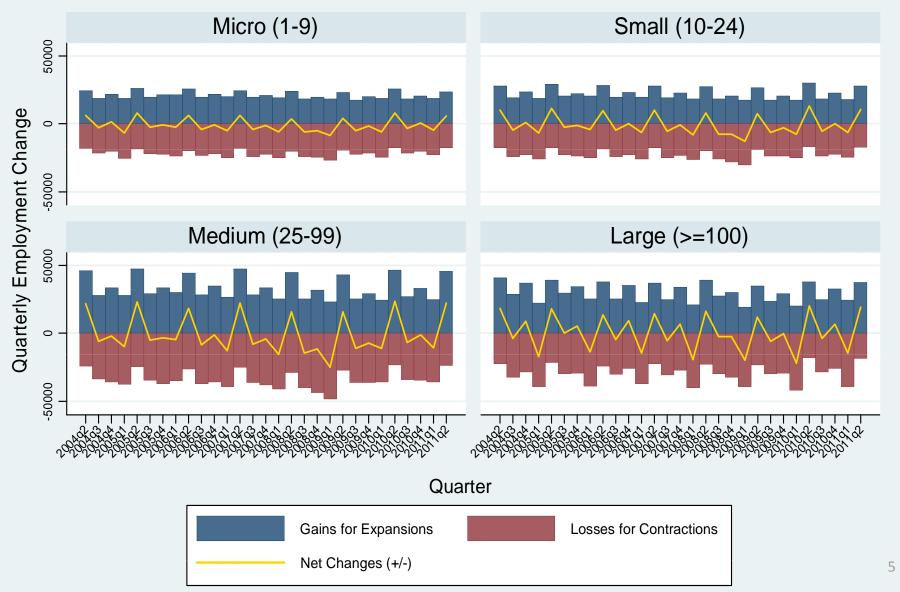
Maryland Labor Force, Employment and Unemployment Rate Estimates (not seasonally adjusted), 2001-2011



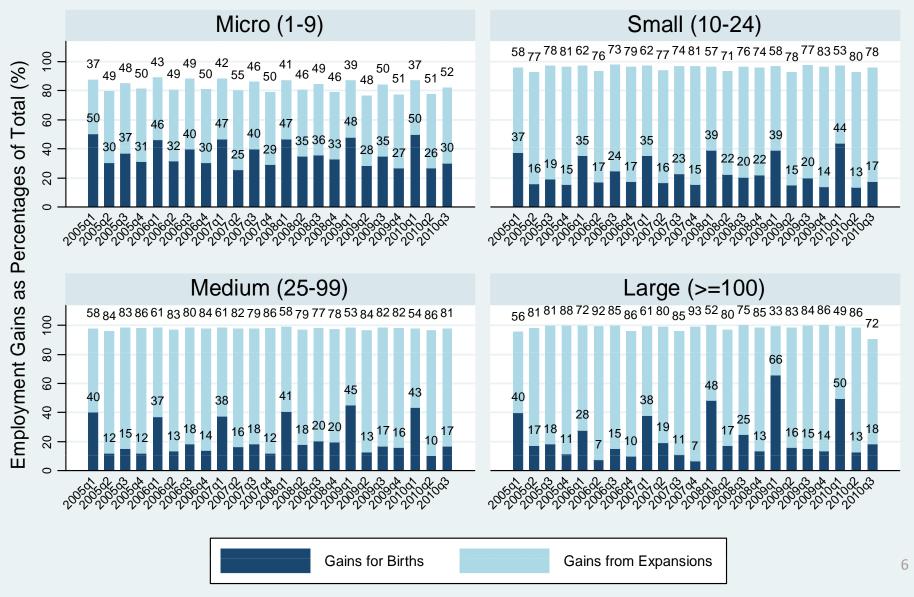




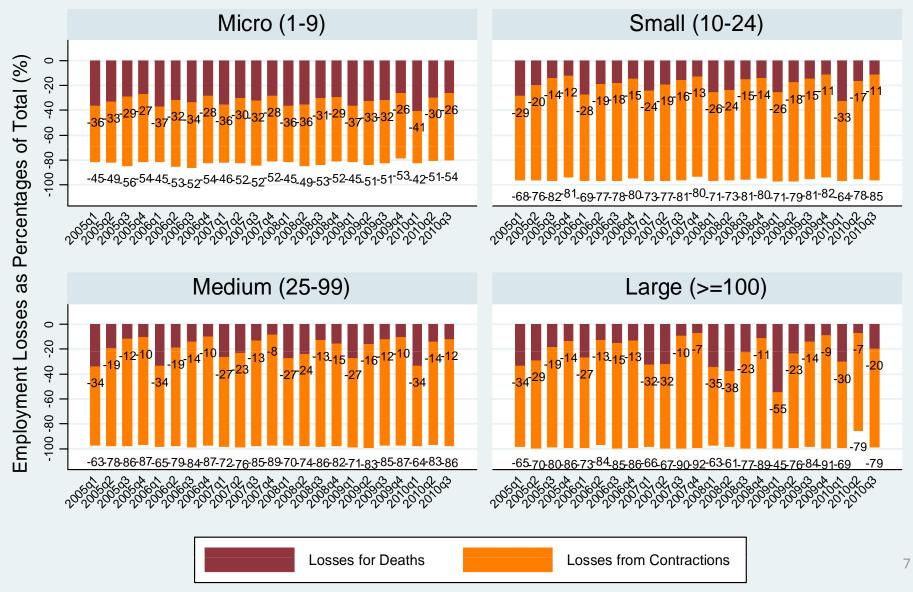
Maryland Quarterly Employment for Expanded and Contracted Businesses, 2004q1-2011q2



Maryland Quarterly Employment Gain Types in Proportions, 2005q1-2010q3

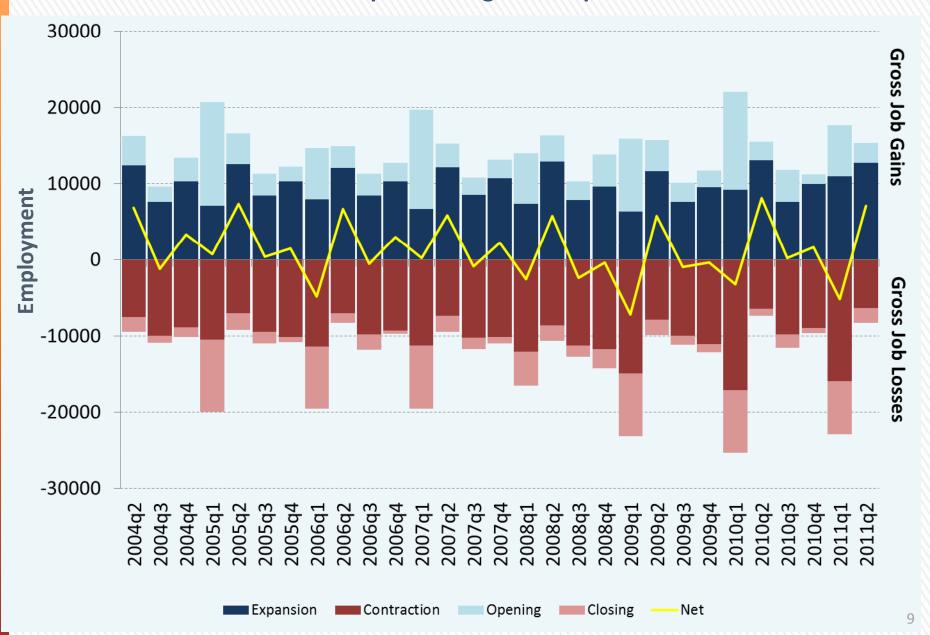


Maryland Quarterly Employment Loss Types in Proportions, 2005q1-2010q3

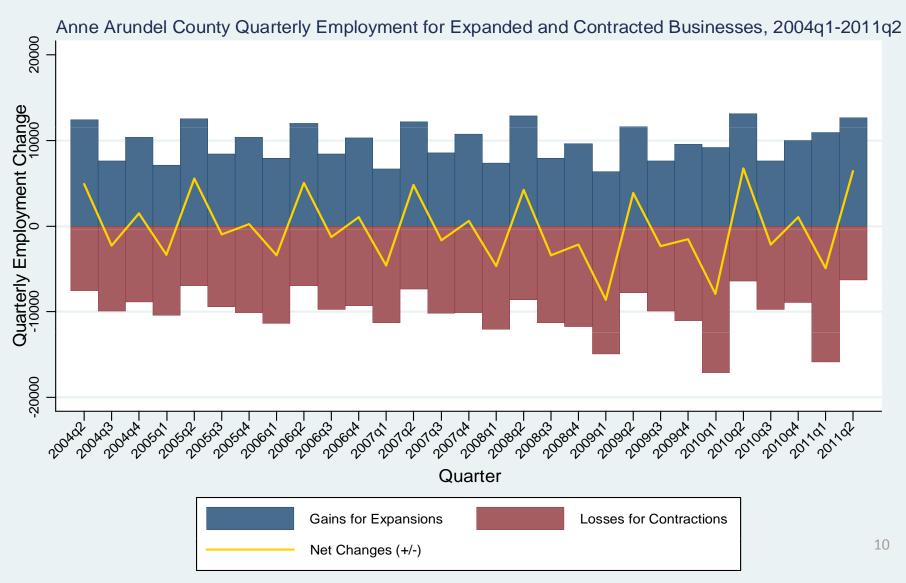


ANNE ARUNDEL COUNTY/WIB JOB CREATION 2004-2011 OVERVIEW

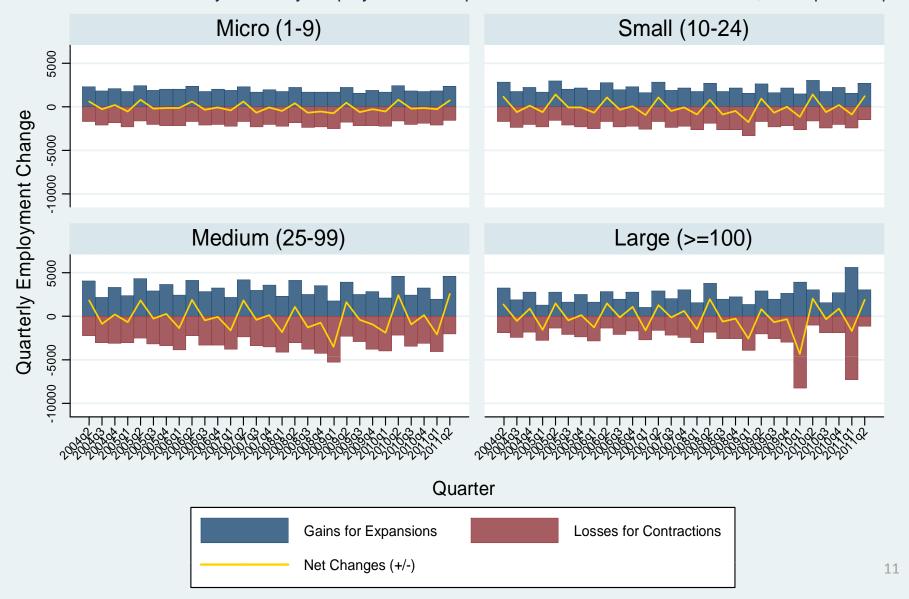
Gross and Net Job Gains and Losses (not seasonally adjusted), Anne Arundel, 2004 qtr 1 through 2011 qtr 2



Gross and Net Job Gains and Losses Reported by Continuing Businesses

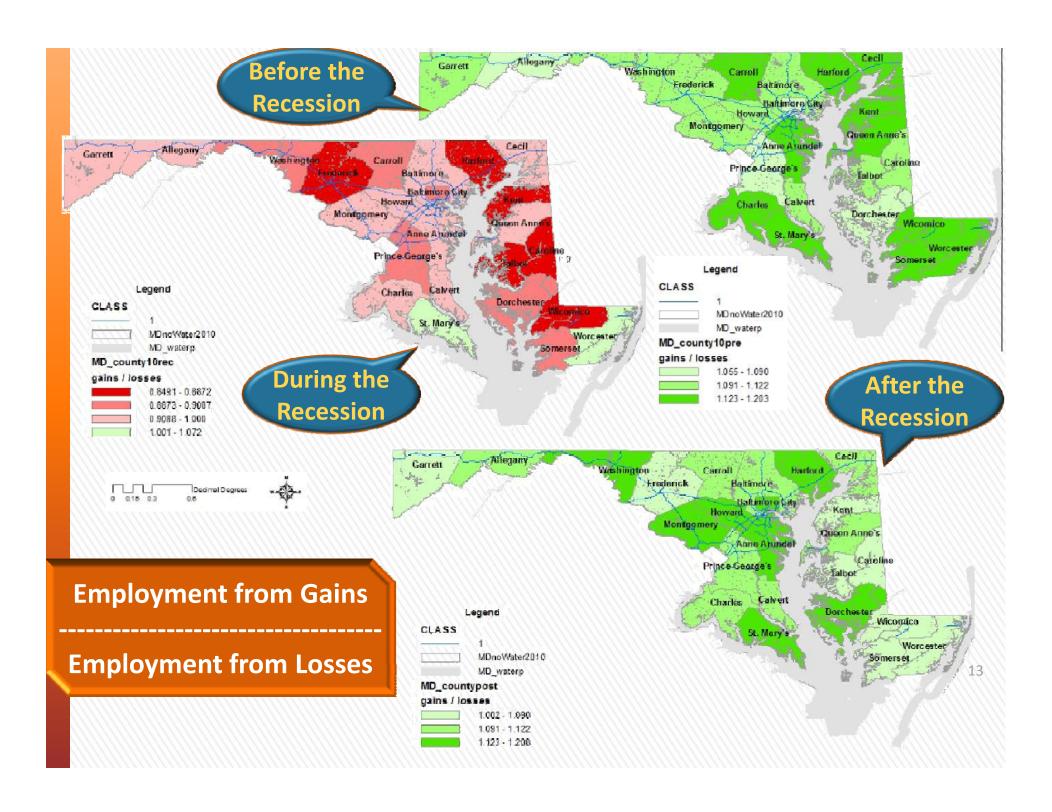


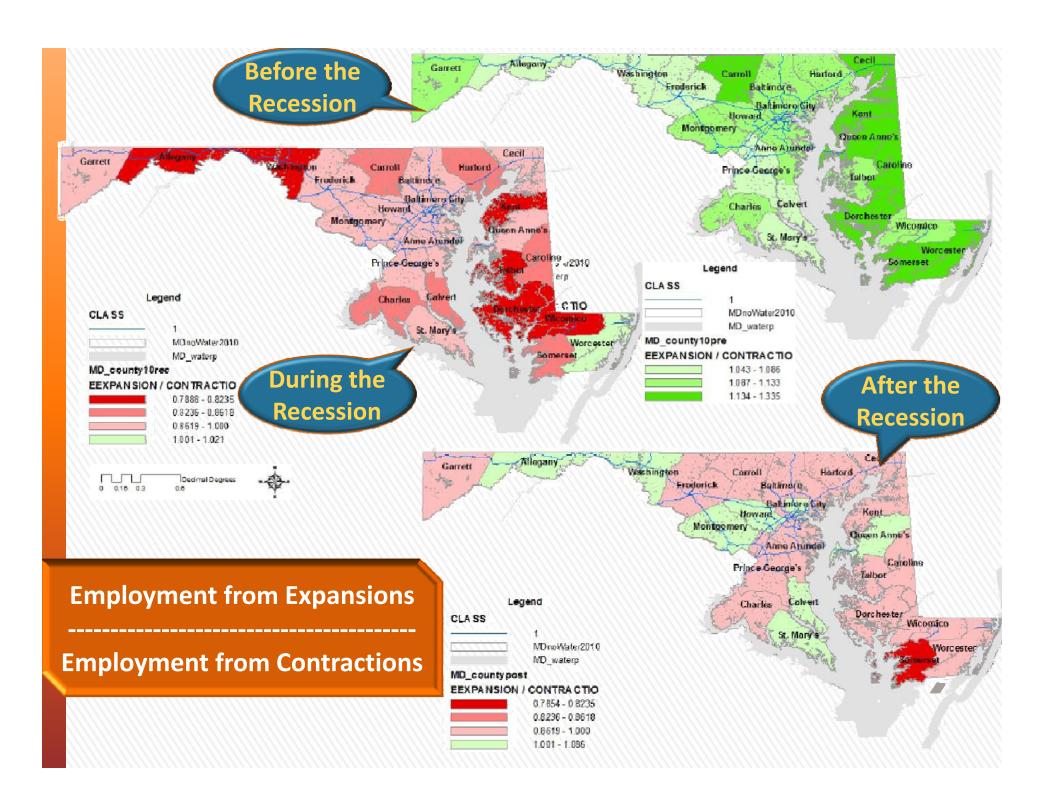
Anne Arundel County Quarterly Employment for Expanded and Contracted Businesses, 2004q1-2011q2

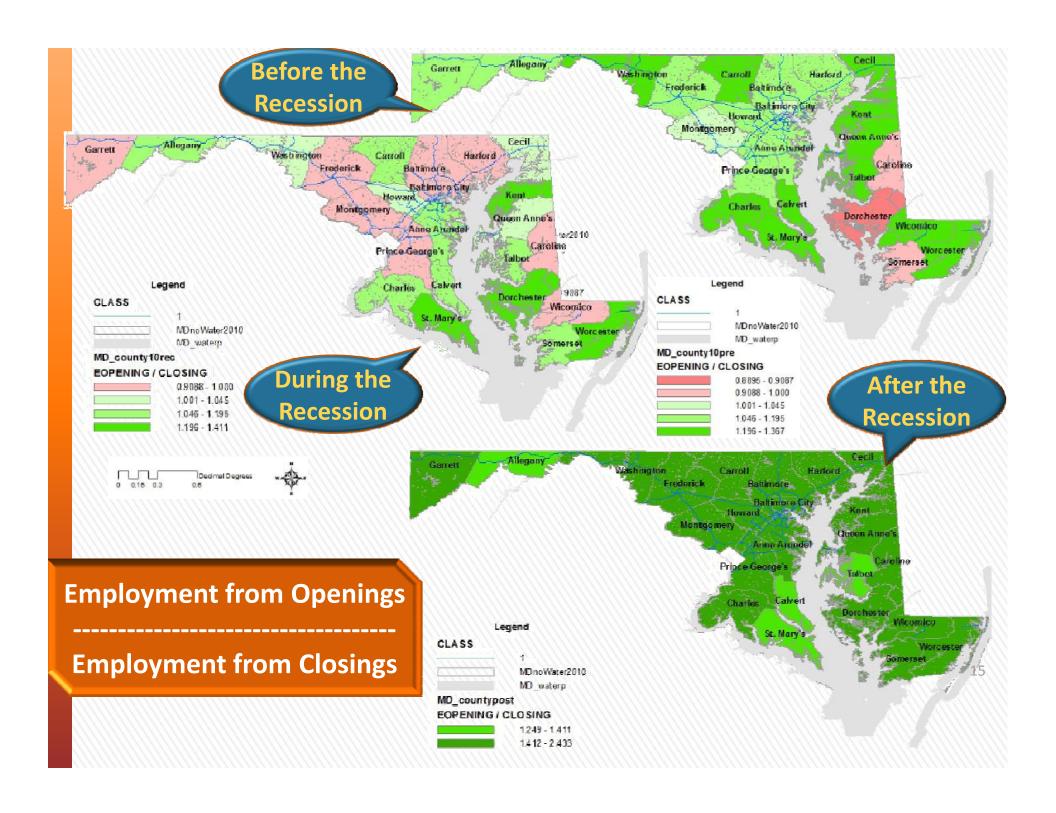


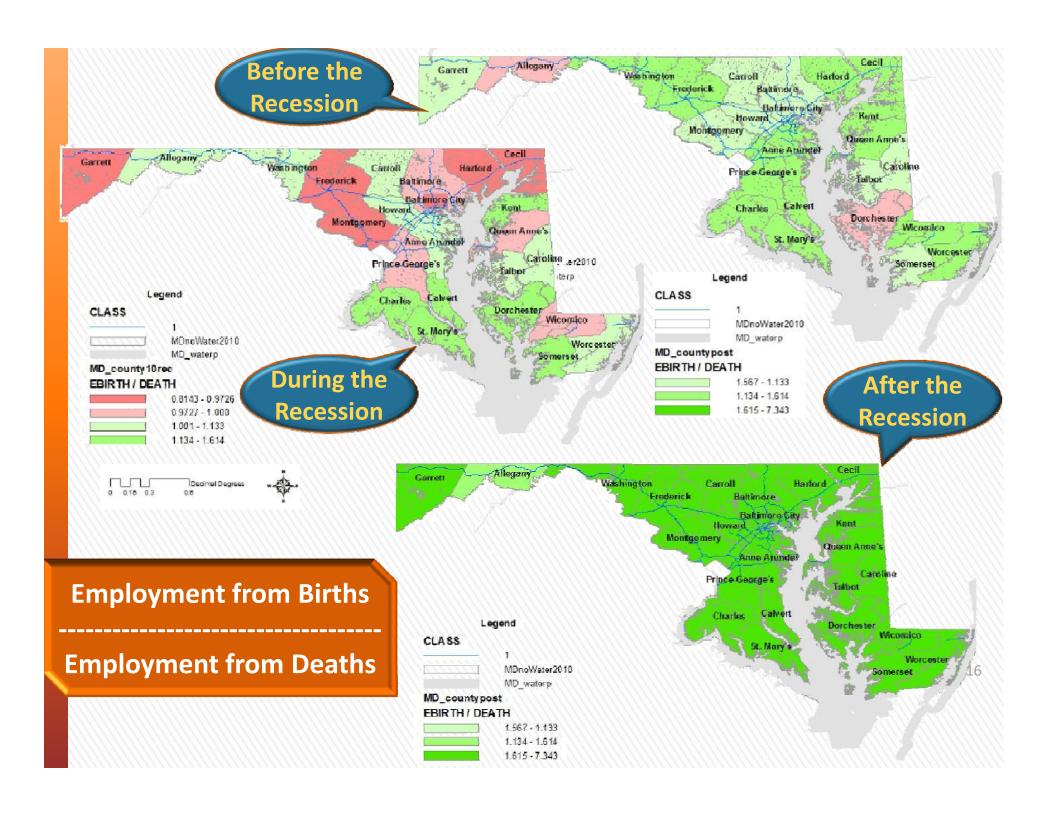


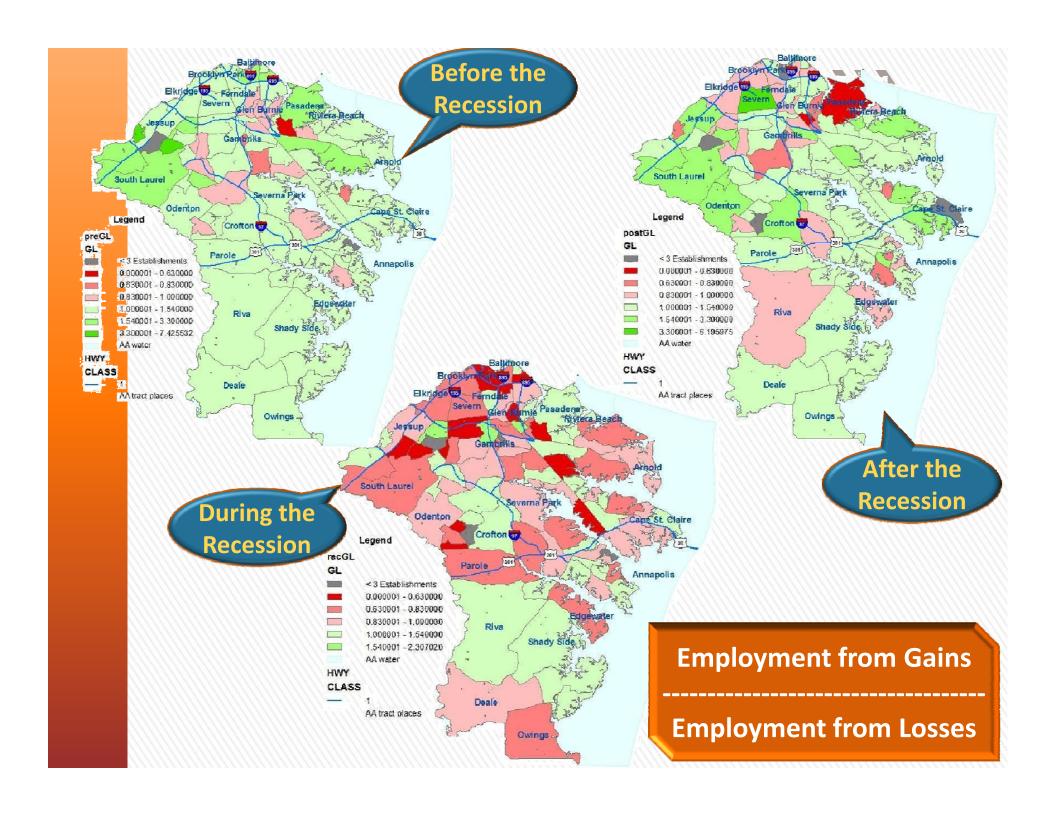
GEOGRAPHIC DYNAMICS OF MARYLAND AND ANNE ARUNDEL COUNTY EMPLOYMENT GAINS AND LOSSES BEFORE, DURING, AND AFTER THE RECESSION, 2004Q1-2011Q2

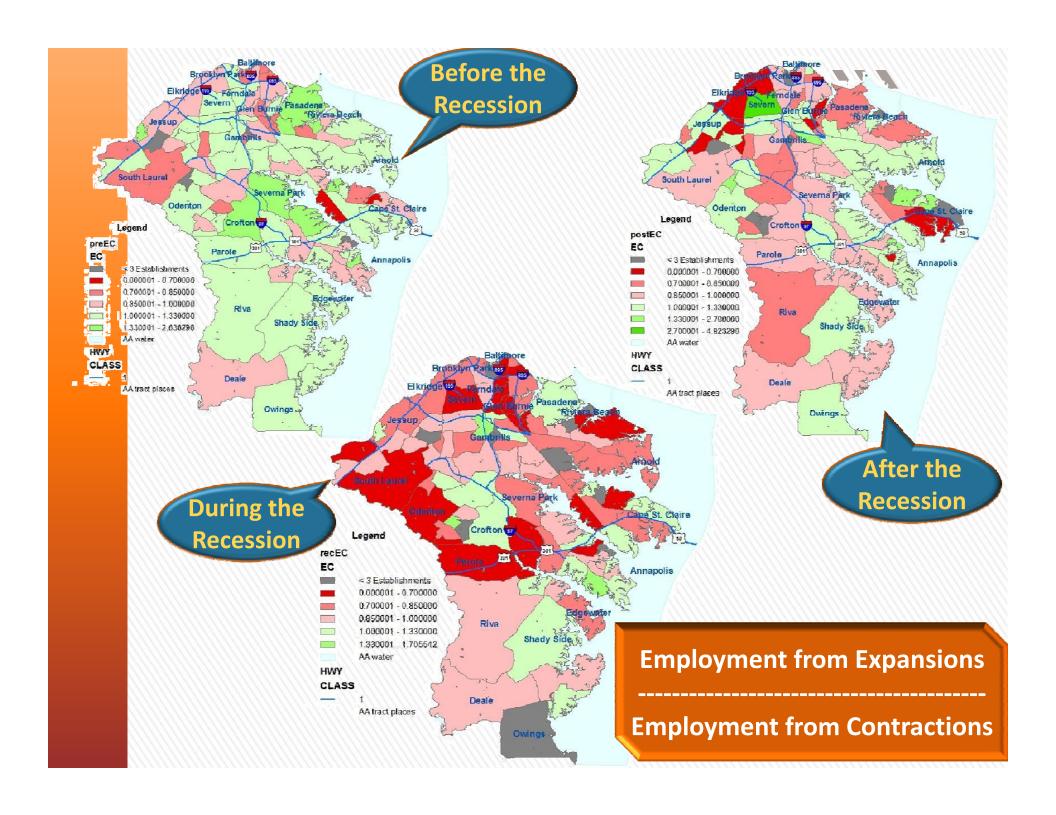


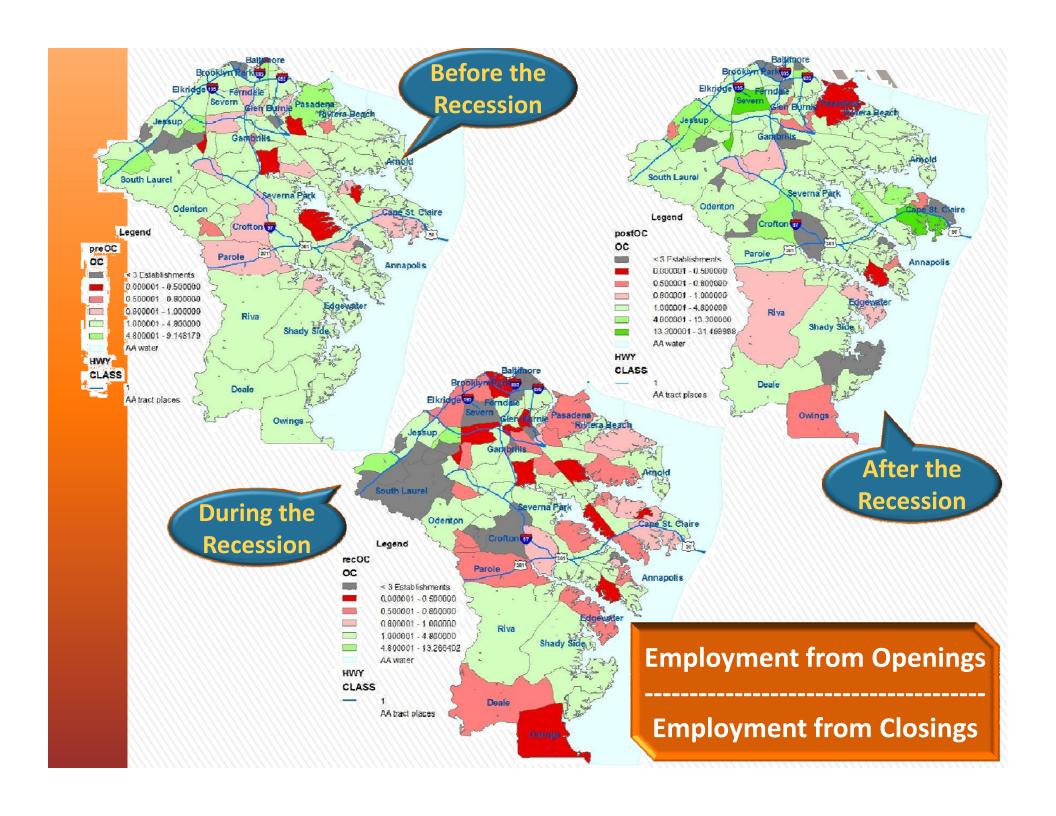


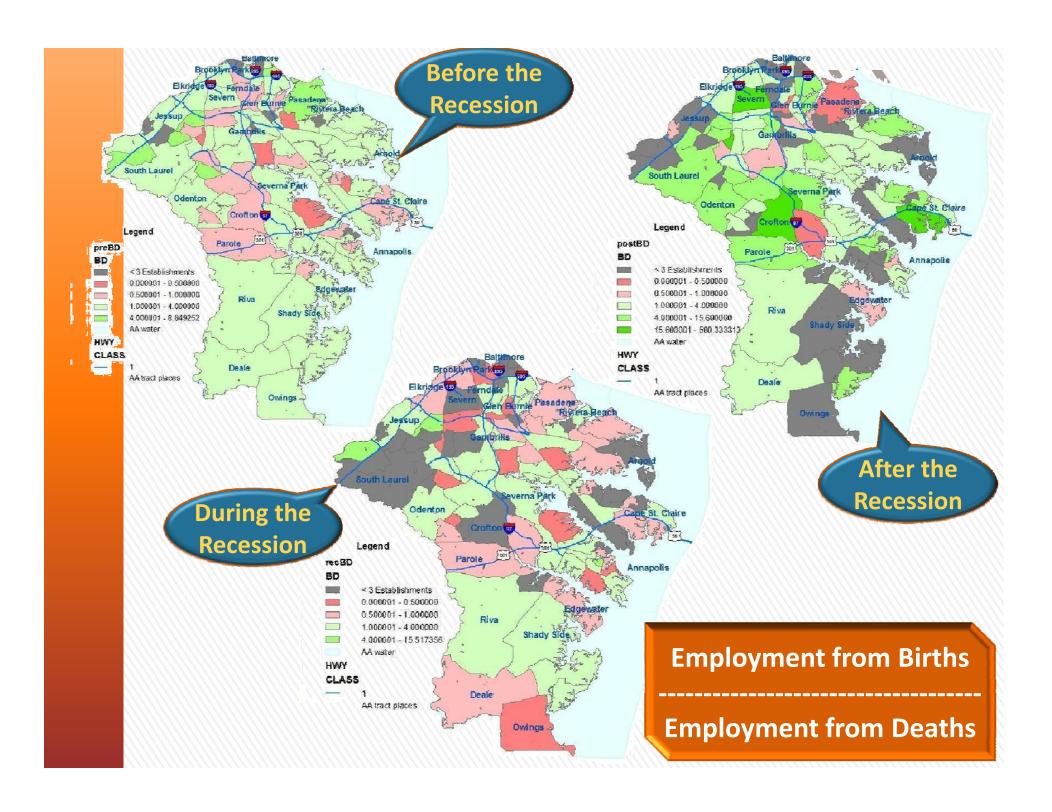


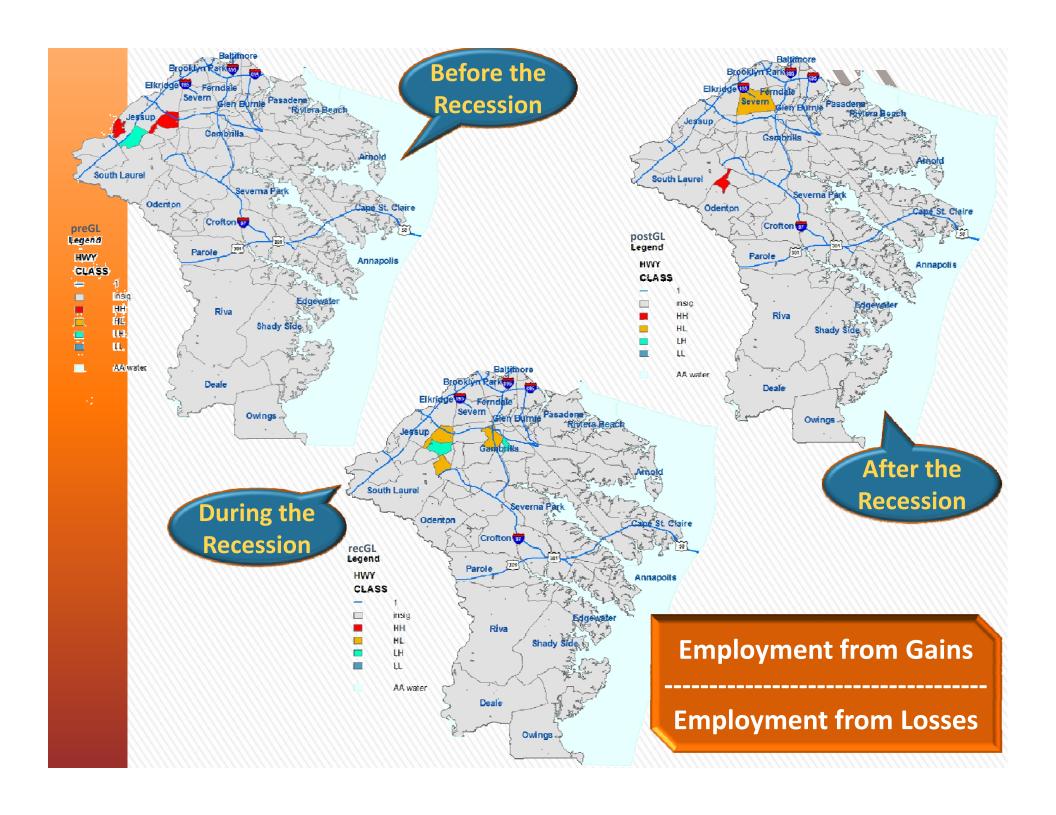


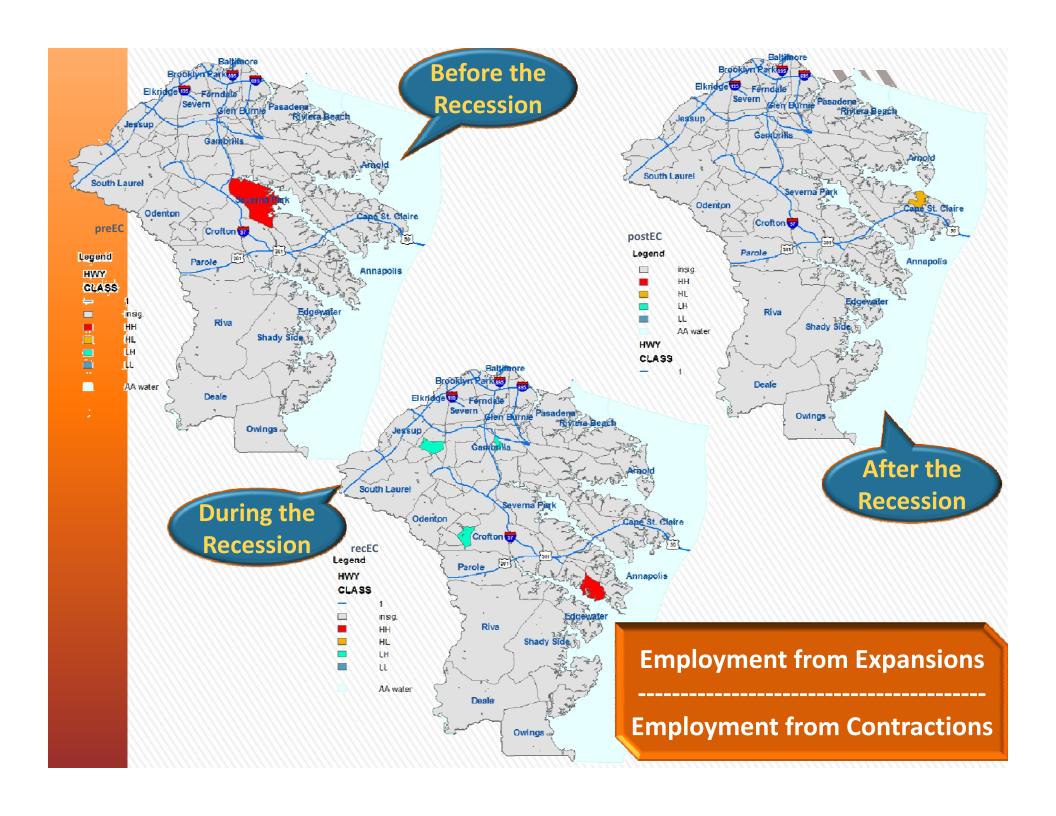


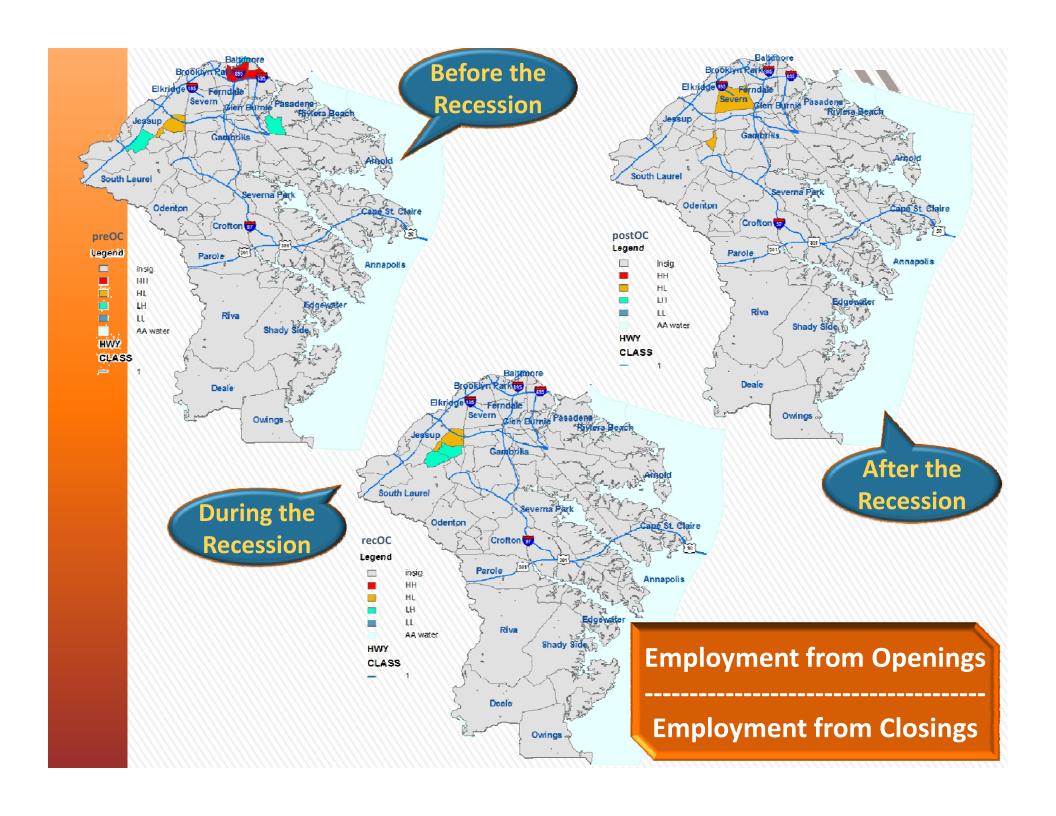


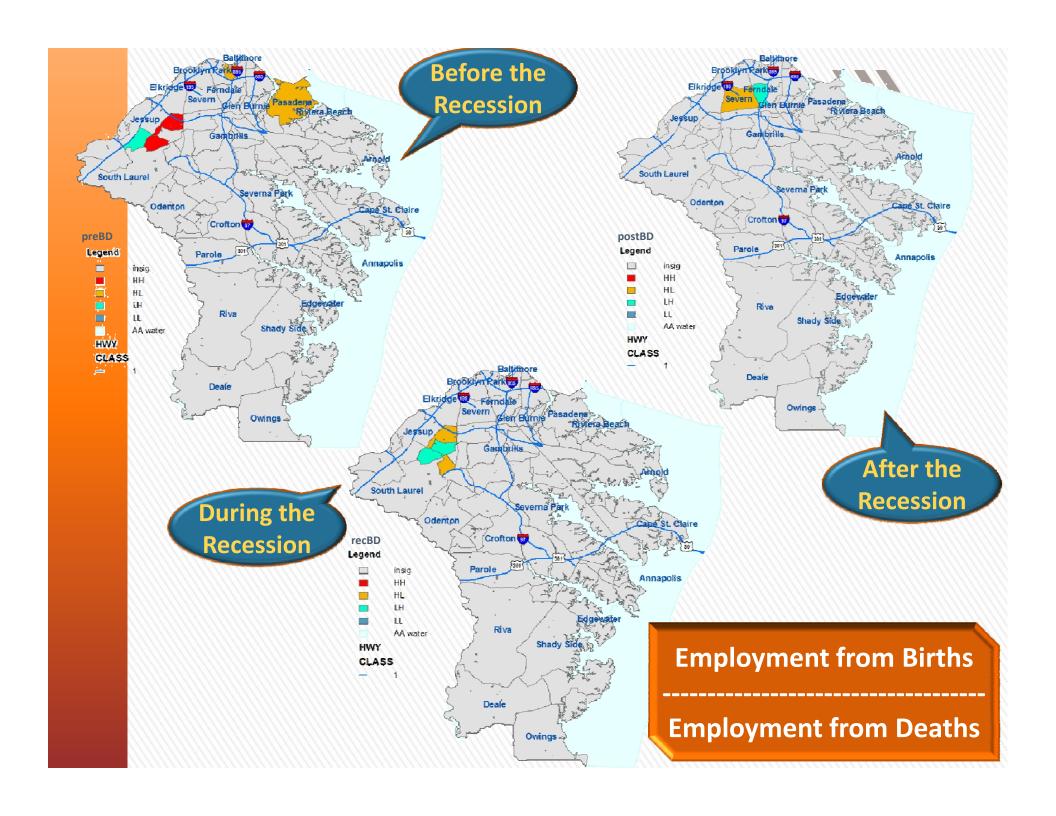












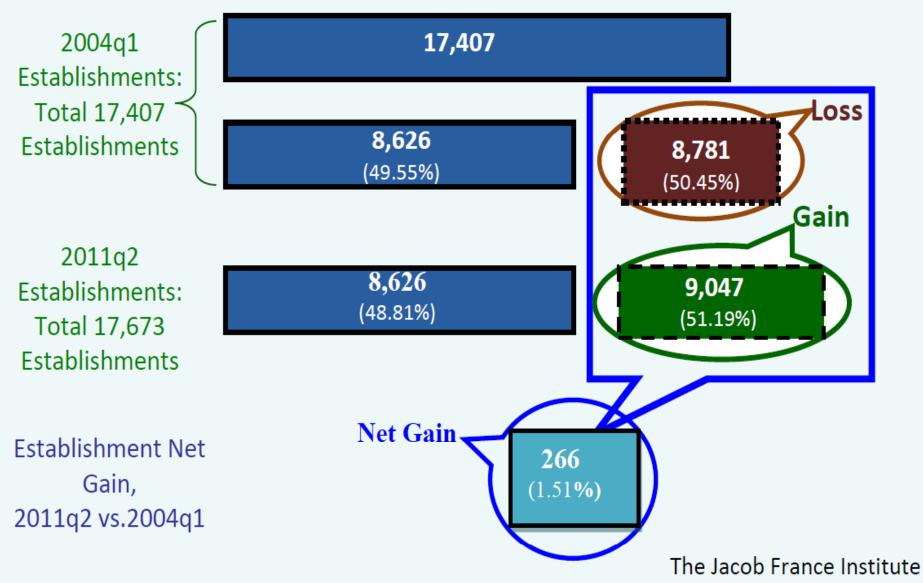
SELECTED WIB REPORT SLIDES: BALTIMORE COUNTY, 2004Q1-2011Q2

Baltimore County Business Establishment Size-Class Distribution, 2004q1 and 2011q2

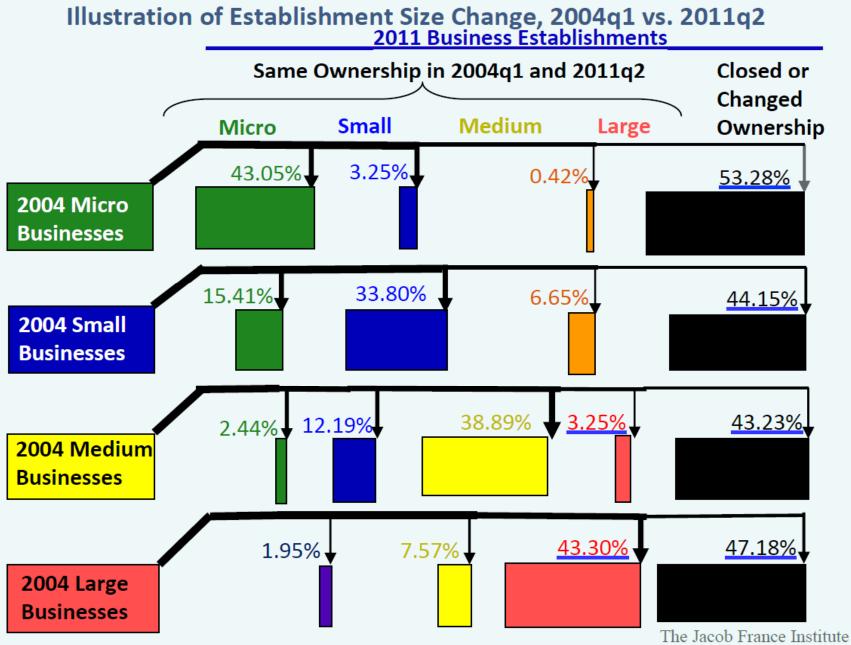
	2004q1		2011q2	
Size-Class	Establishments	%	Establishments	%
Micro (1-9)	12,022	69.06	11,992	67.85
Small (10-24)	3,024	17.37	3,201	18.11
Medium (25-99)	1,846	10.60	1,960	11.09
Large (>=100)	515	2.96	520	2.94
Total	17,407	100.0	17,673	100.0

Note: The size-class that each business establishment belongs to is defined by the highest monthly employment level reported in a reference year/quarter.

Illustration of Establishment Loss, Gain, and Net Gain, 2004q1 vs. 2011q2

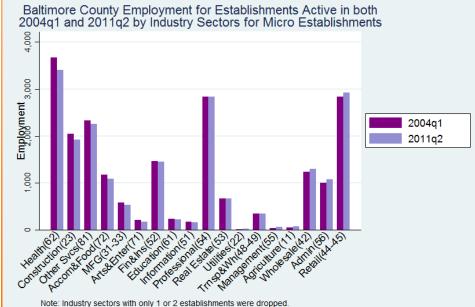


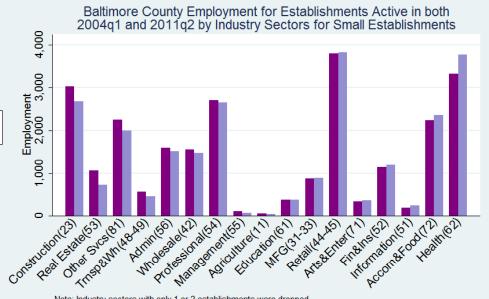
Data received from the Maryland Department of Labor, Licensing & Regulation



Data received from the Maryland Department of Labor, Licensing & Regulation

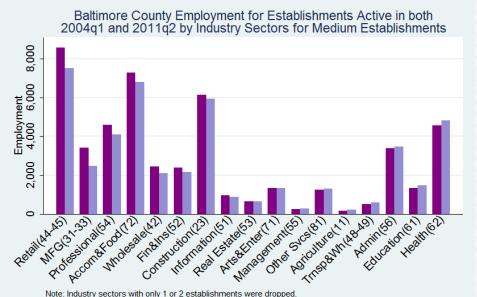
Employment for Businesses under the Same Ownership, 2004q1 vs. 2011q2





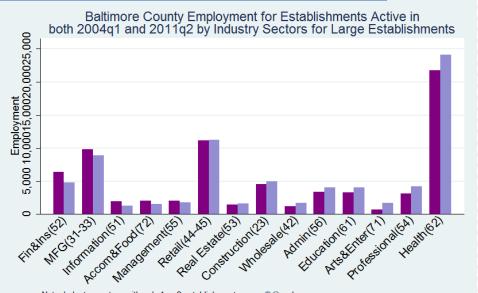
Note: Industry sectors with only 1 or 2 establishments were dropped

The Jacob France Institute Data received from the Maryland Department of Labor, Licensing & Regulation The Jacob France Institute Data received from the Maryland Department of Labor, Licensing & Regulation NAICS code definition can be found at http://www.census.gov/cgi-bin/sssd/naics/naicsrch?chart=2007.

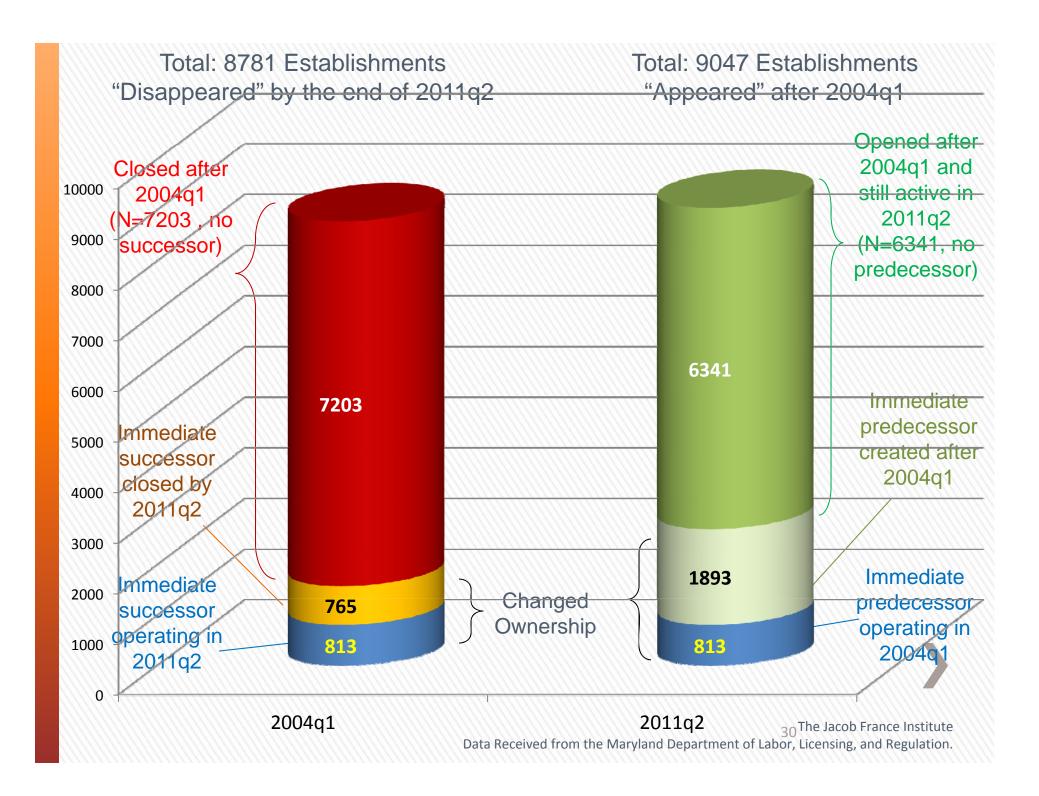


The Jacob France Institute

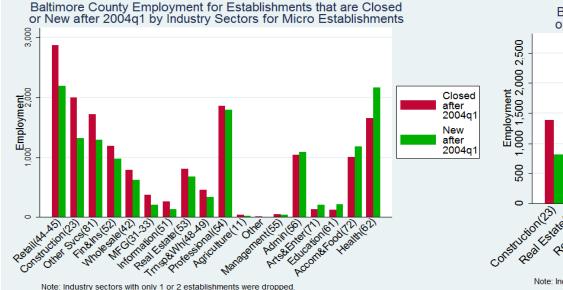
Data received from the Maryland Department of Labor, Licensing & Regulation



Note: Industry sectors with only 1 or 2 establishments were diapped



Employment Loss/Gain due to Business Closure/Creation with No Predecessor & Successor





Other Swes (B1)

Finans (52)

Baltimore County Employment for Establishments that are Closed

Real Estate (63) Trispaymas des wardenantes Professionalital

Internation (51)

undesde de de

Retailded MEG 1.33

Note: Industry sectors with only 1 or 2 establishments were dropped

The Jacob France Institute Data received from the Maryland Department of Labor, Licensing & Regulation

Educationen

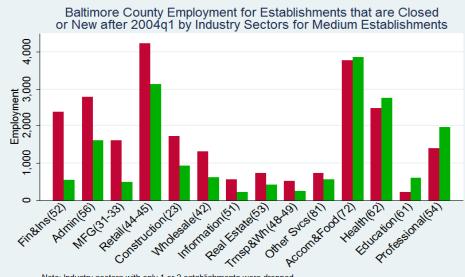
Arts & Enter (71) kscom&food[2]

Admin[6]

The Jacob France Institute Data received from the Maryland Department of Labor, Licensing & Regulation

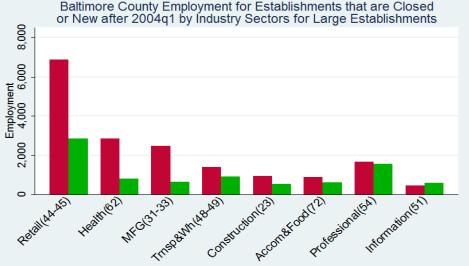
NAICS code definition can be found at http://www.census.gov/cgi-bin/sssd/naics/naicsrch?chart=2007.

500



Note: Industry sectors with only 1 or 2 establishments were dropped

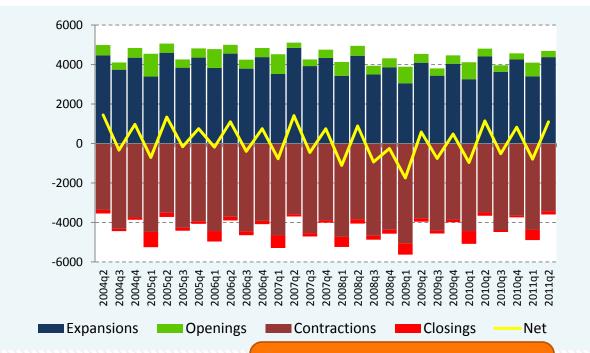
The Jacob France Institute Data received from the Maryland Department of Labor, Licensing & Regulation



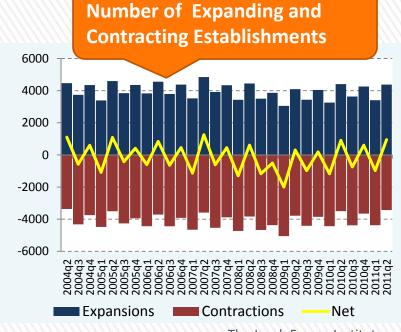
Note: Industry sectors with only 1 or 2 establishments were dropped

Number of Expanding,
Opening, Contracting, and
Closing Establishments

Number of Opening and Closing Establishments



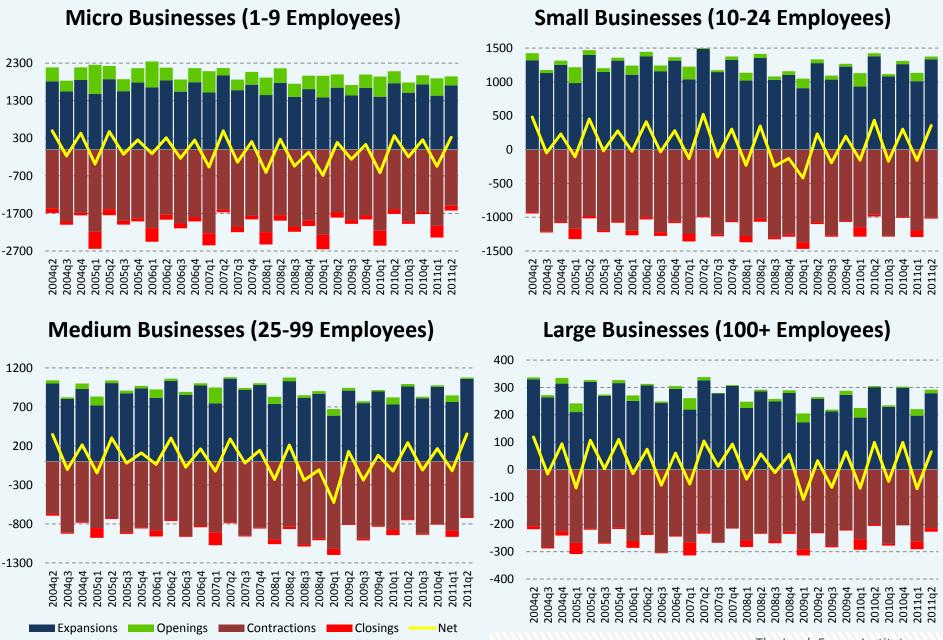




32 The Jacob France Institute

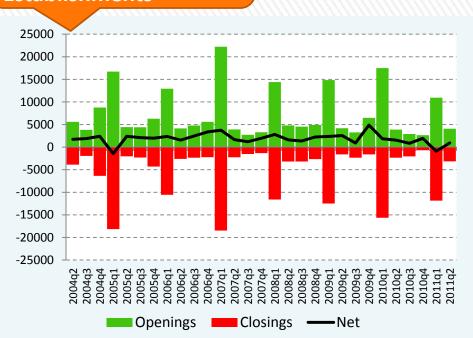
Data Received from the Maryland Department of Labor, Licensing, and Regulation.

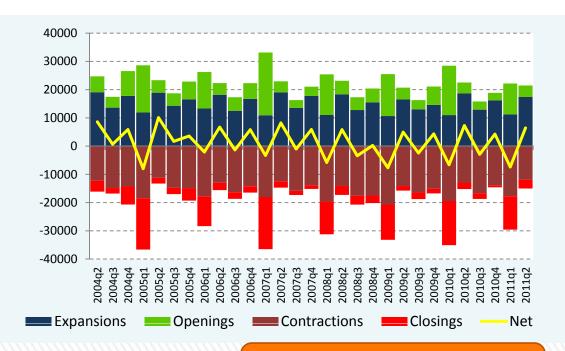
Number of Expanding, Opening, Contracting, and Closing Establishments by Size



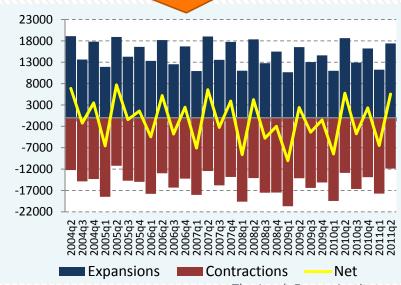
Employments of
Opening, Expanding,
Closing, and
Contracting
Establishments

Employment of Opening and Closing Establishments



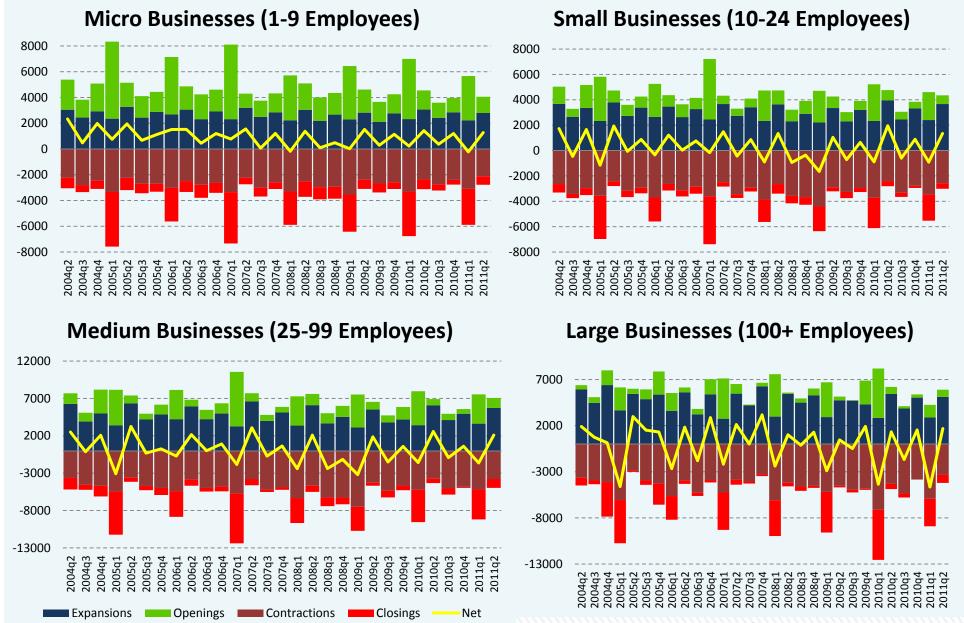


Employment of Expanding and Contracting Establishments

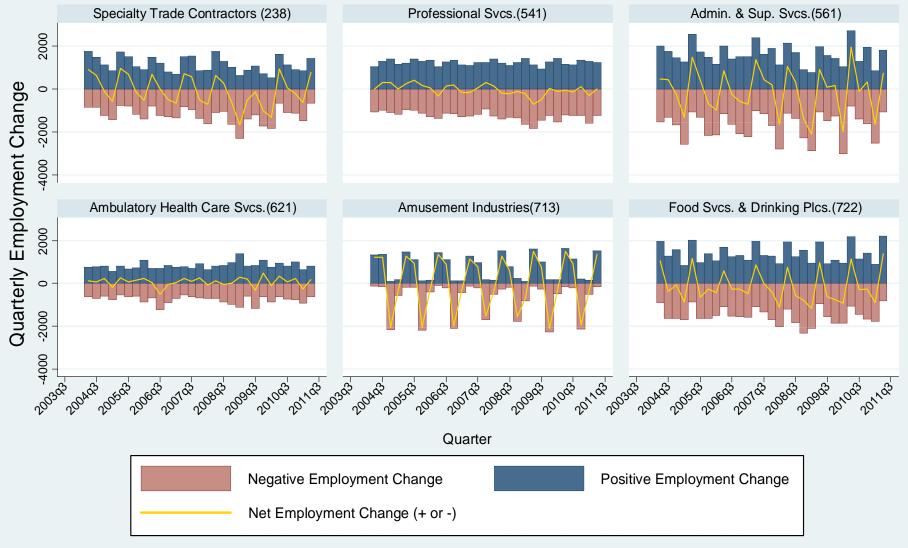


34 The Jacob France Institute

Employment of Opening, Expanding, Closing, and Contracting Establishments by Size



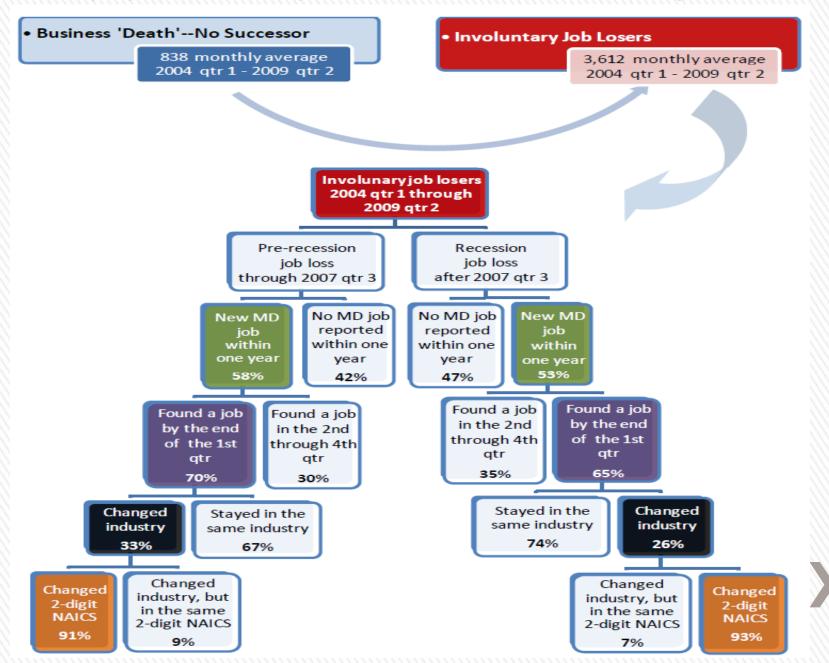
Baltimore County Quarterly Employment Change due to Business Expansions and Contractions by Selected Industry Subsectors, 2004q1-2011q2



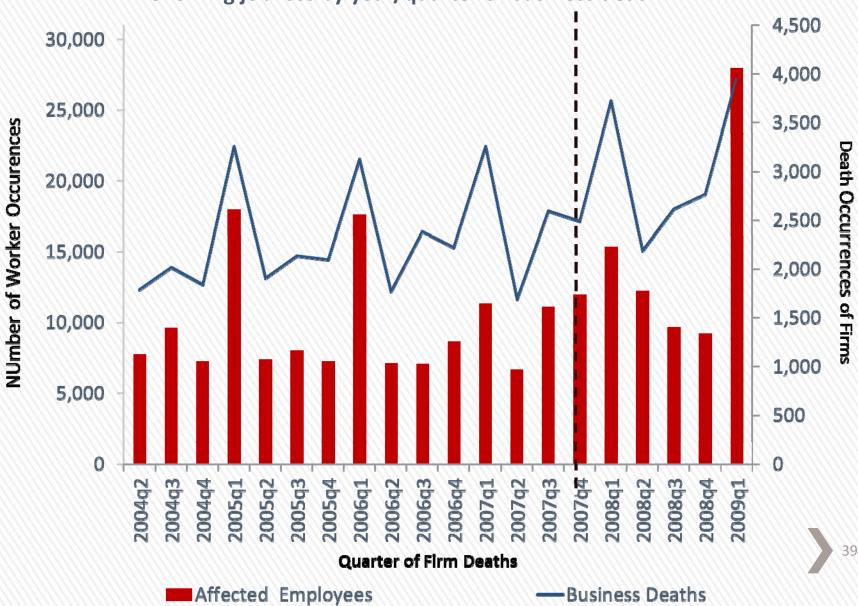
Note: Only industry subsectors with an average quarterly employment change (negative or positive) of over 600 employeess are presented.

WHAT HAPPENS TO THE EMPLOYEES WHEN A BUSINESS CLOSES? FOR DEATH QUARTERS OF 2004Q1-2009Q2

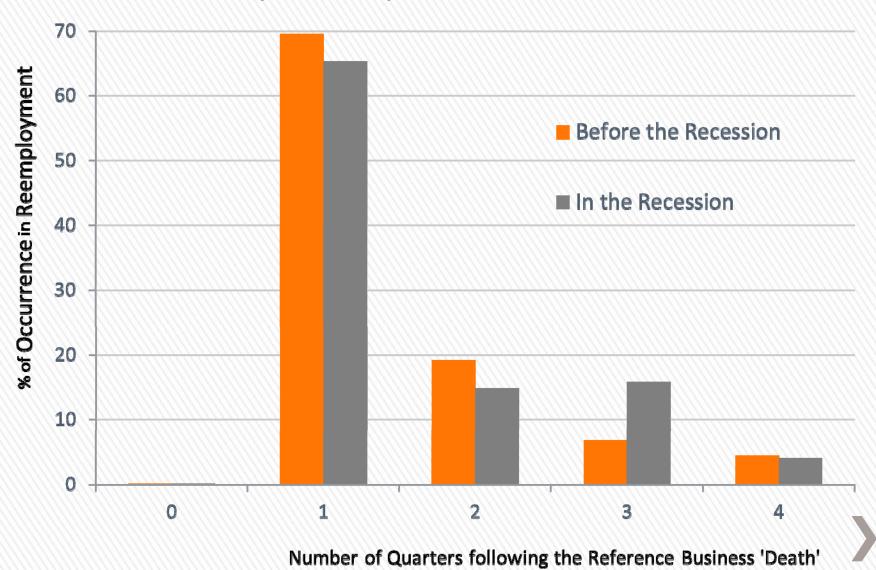
Flow of Employees Affected by Business Death before and during the Recession



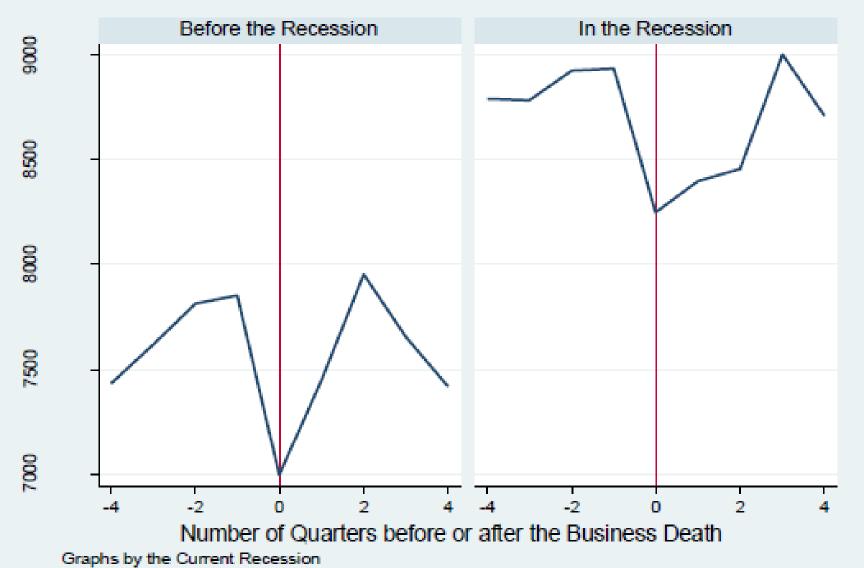
Maryland business death events and affected employees within one year following job loss by year/quarter of business death



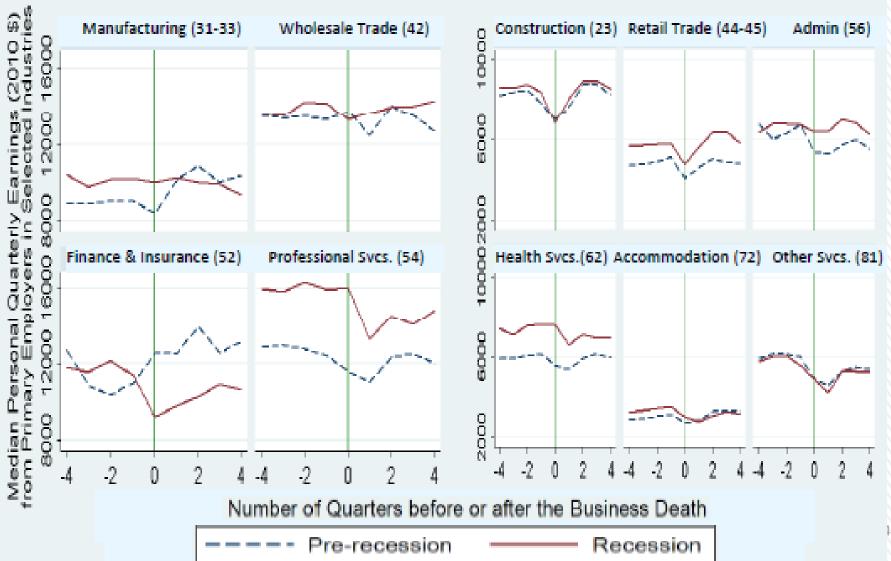
Timing for former employees to find a new job within one year of their previous business affiliation death

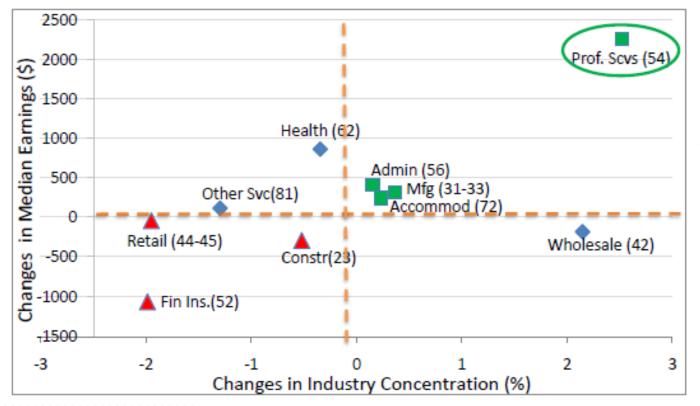


Job losers' quarterly real earnings before and after causal business death events



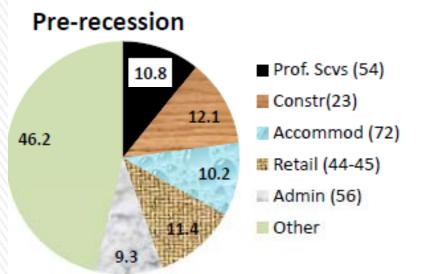
Job losers' quarterly real earnings before and after causal business death events by selected industries

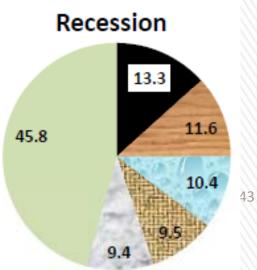




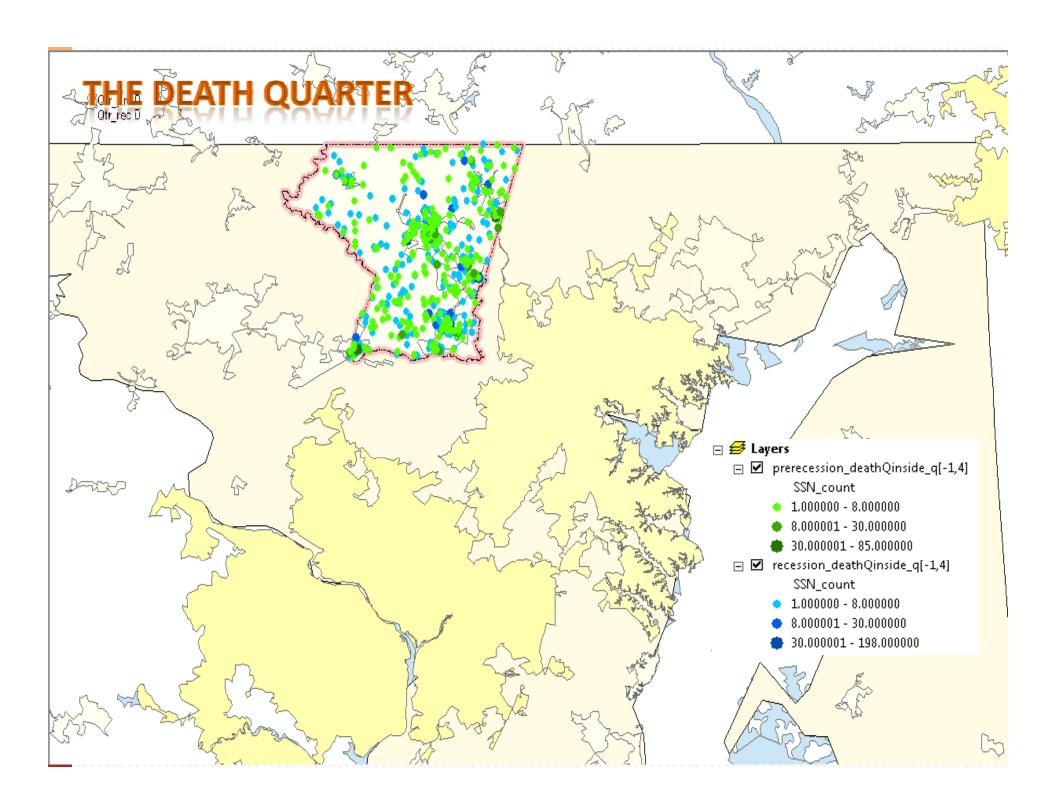
Changes in job
losers' quarterly real
earnings and
industry shares
for the pre-recession
and recession
business deaths

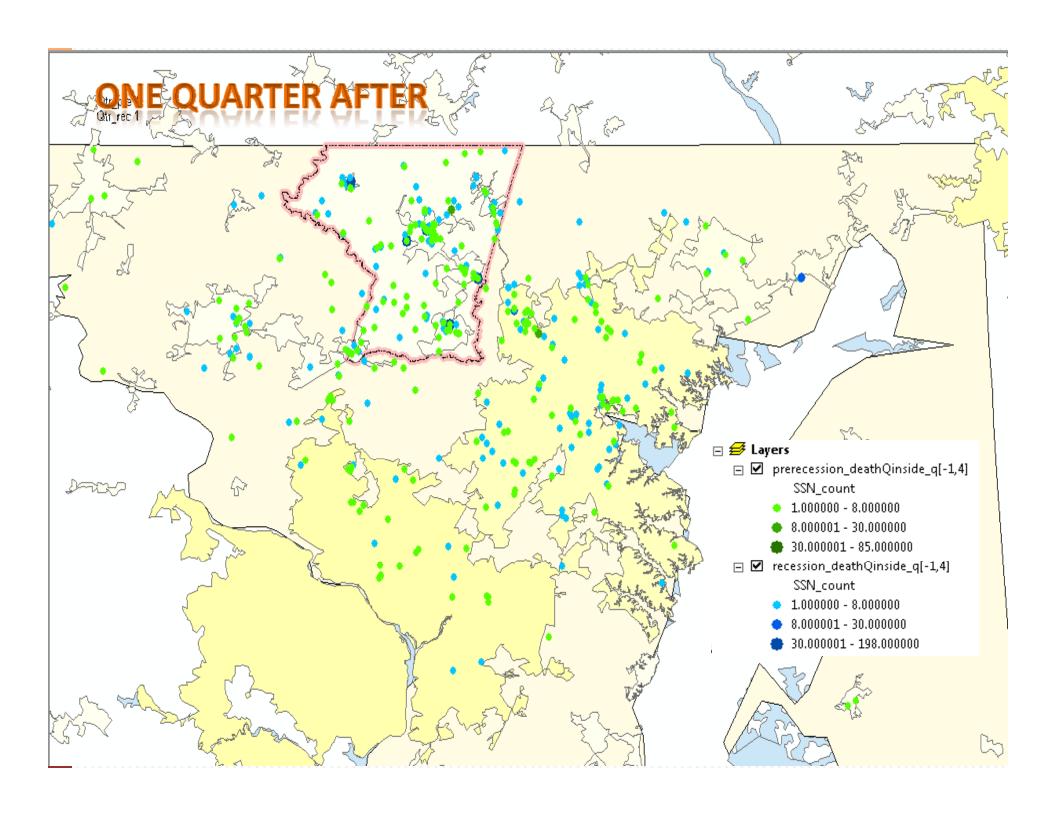


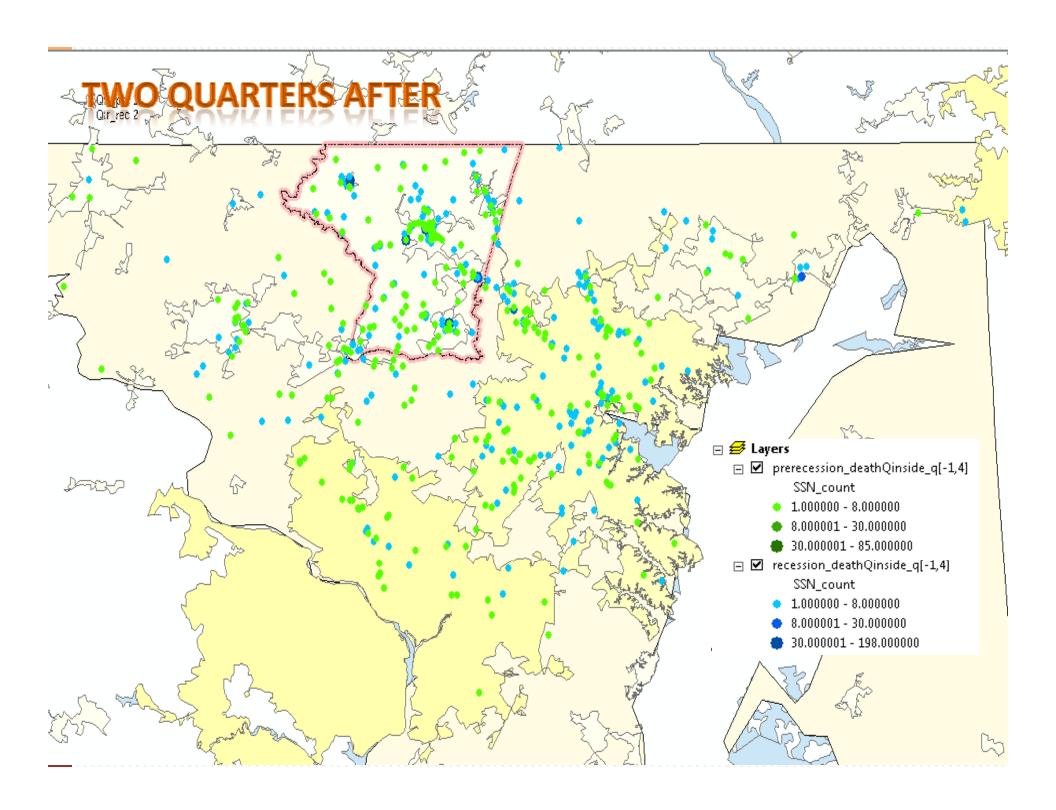


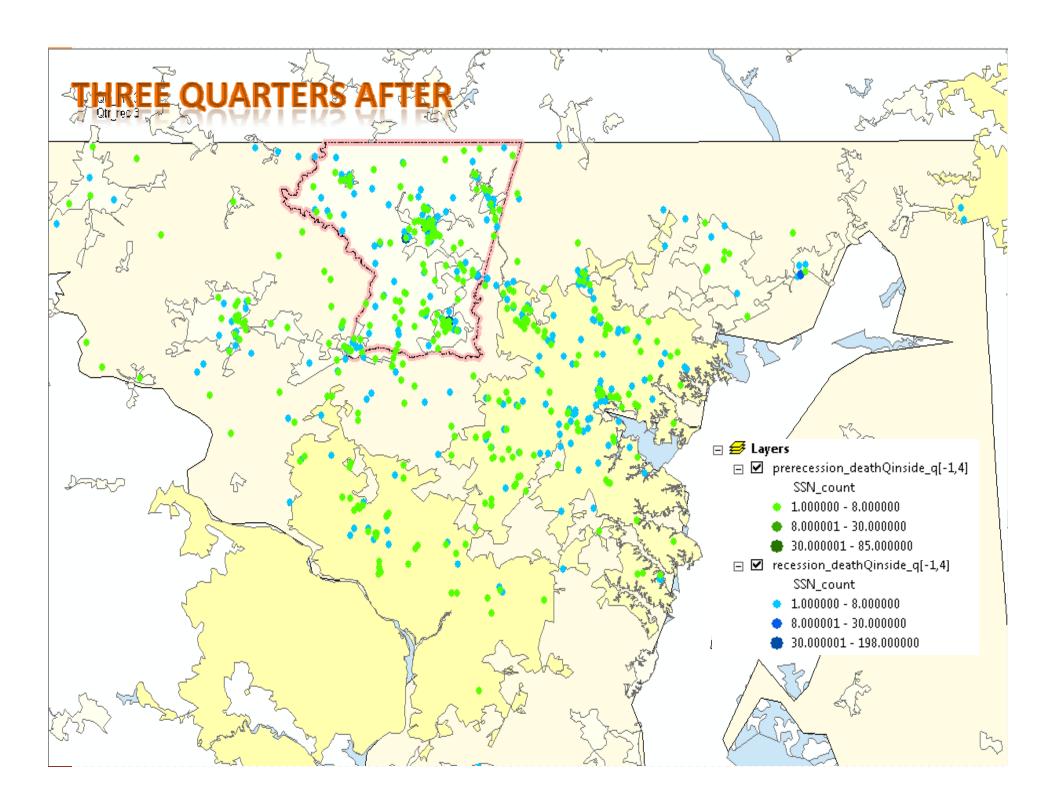


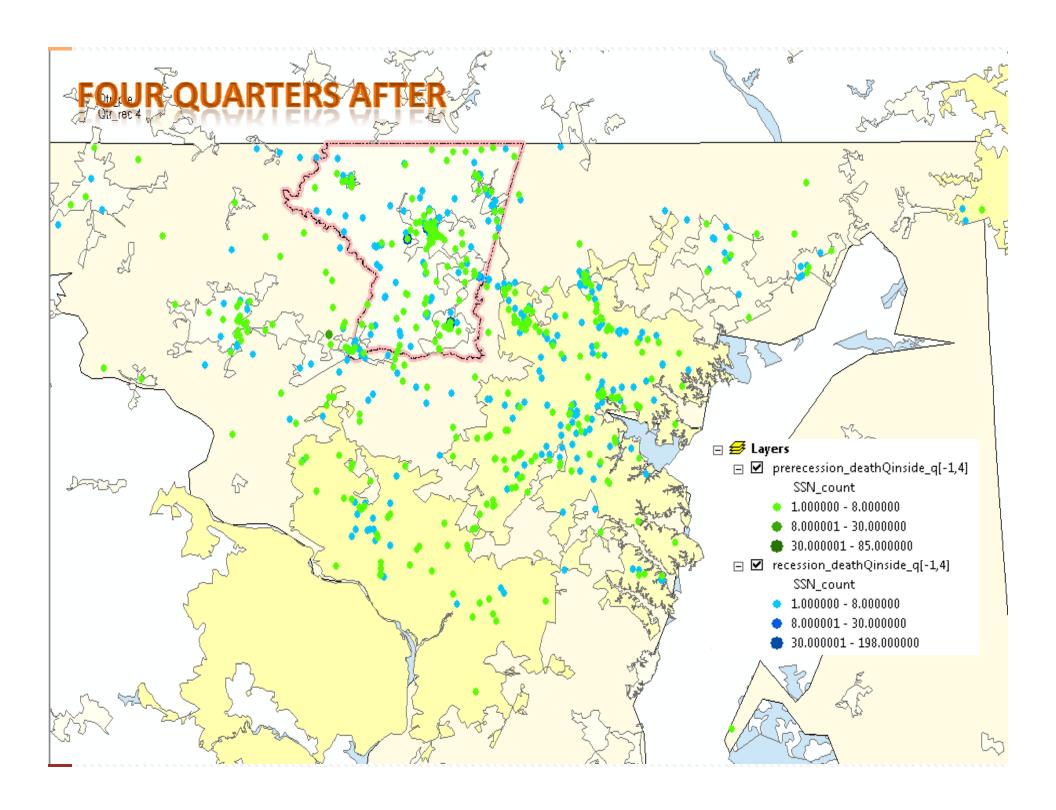
FLOW OF CARROLL COUNTY BUSINESS DEATH RESULTED DISLOCATED WORKERS, PRERECESSION VS. RECESSION FOR DEATH QUARTERS OF 2004Q1-2009Q3



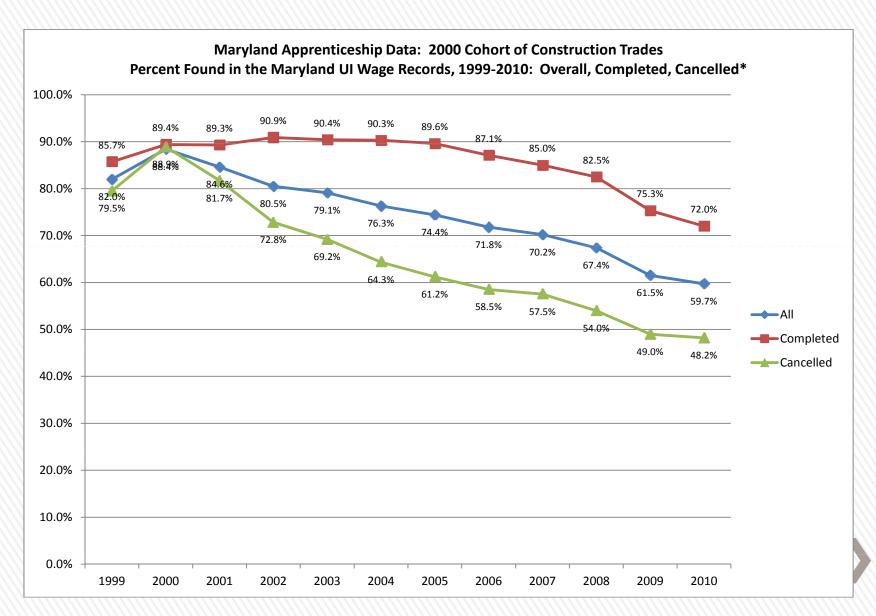


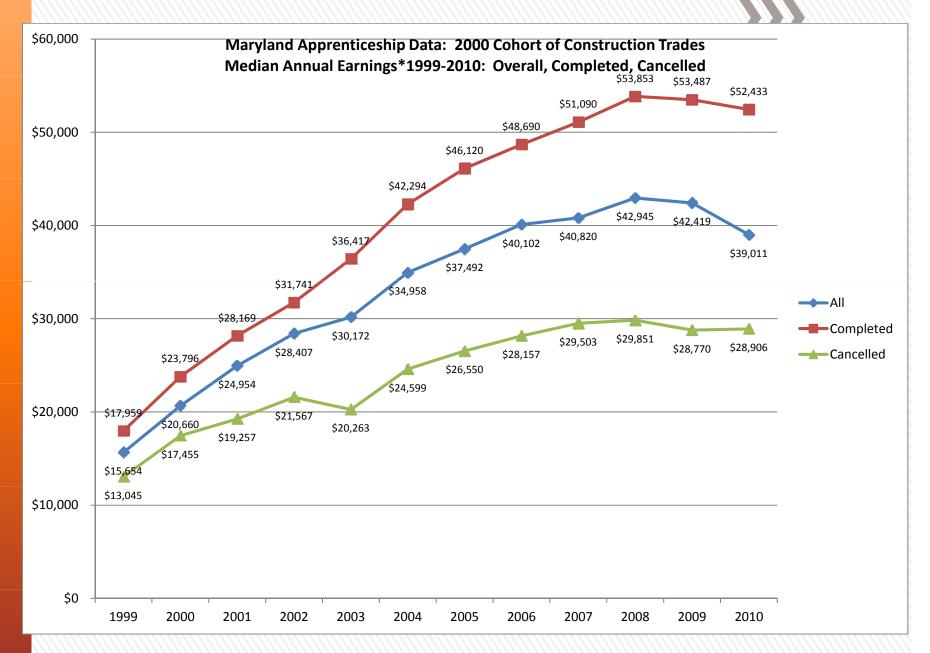




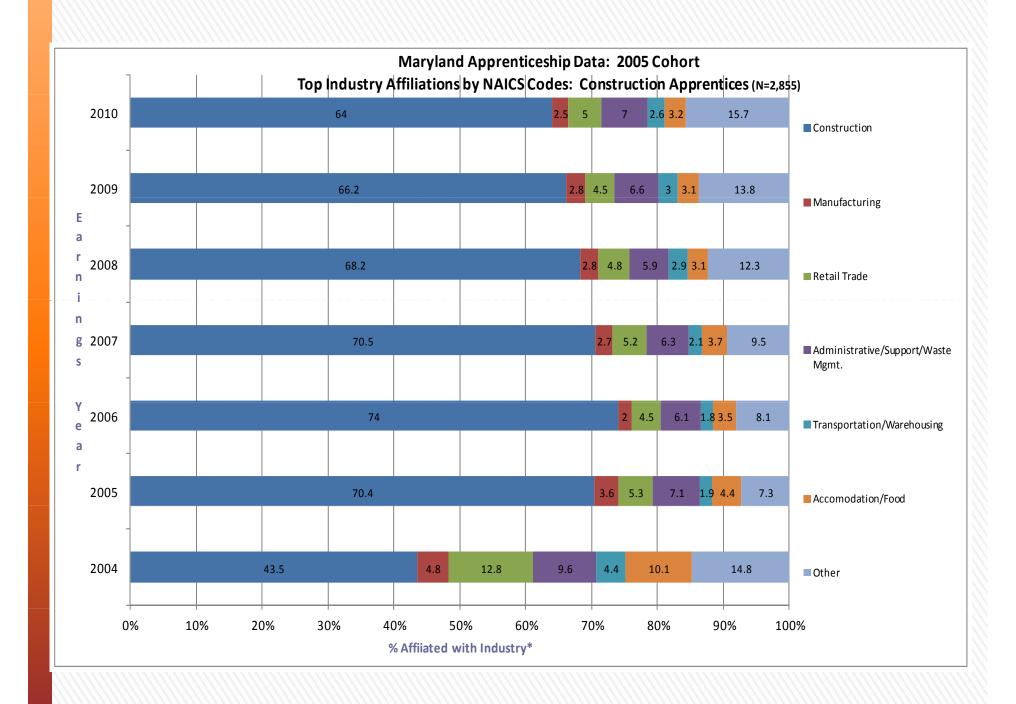


EXAMPLES OF ANALYSES USING LINKED ADMINISTRATIVE DATA



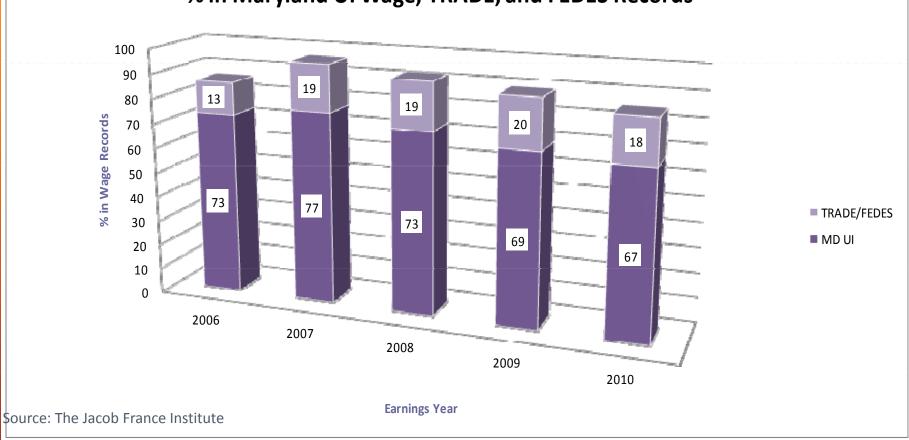


Cancelled N=989



MARYLAND ASSOCIATION OF COMMUNITY COLLEGES -JFI PARTNERSHIP



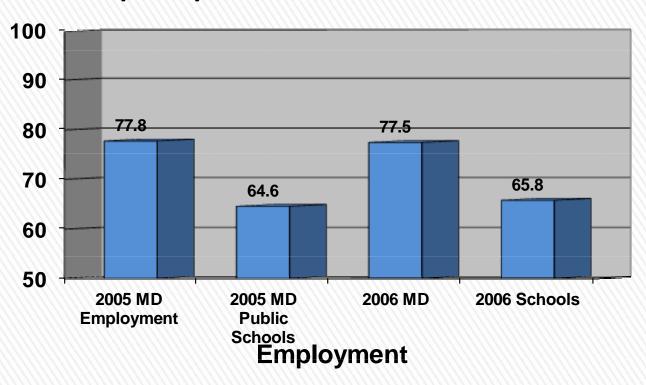




Montgomery College 2007 Occupational Degree Graduates* Percent Found in Maryland UI Wage Records, TRADE** and FEDES*** 2006-2010 100 90 3.5 4.3 **P** 80 2.6 4.4 22.9 4.4 е **r** 70 16.7 23.4 21.4 С 20.3 **e** 60 n ■ FEDES **t** 50 ■ TRADE **F** 40 ■ MD UI 0 63.9 **u** 30 61.2 57.2 54.1 52.6 d^{20} 10 0 2006 2007 2008 2009 2010 **Earnings Year**

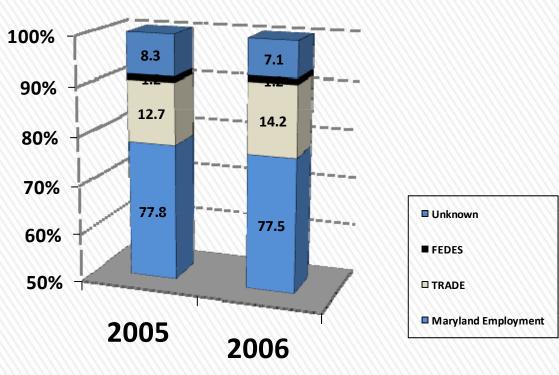
UNIVERSITY OF MARYLAND SYSTEM/JFI PARTNERSHIP: TEACHER RETENTION STUDY

USM Education Bachelor Degree Recipients (2004): Workforce Affiliation

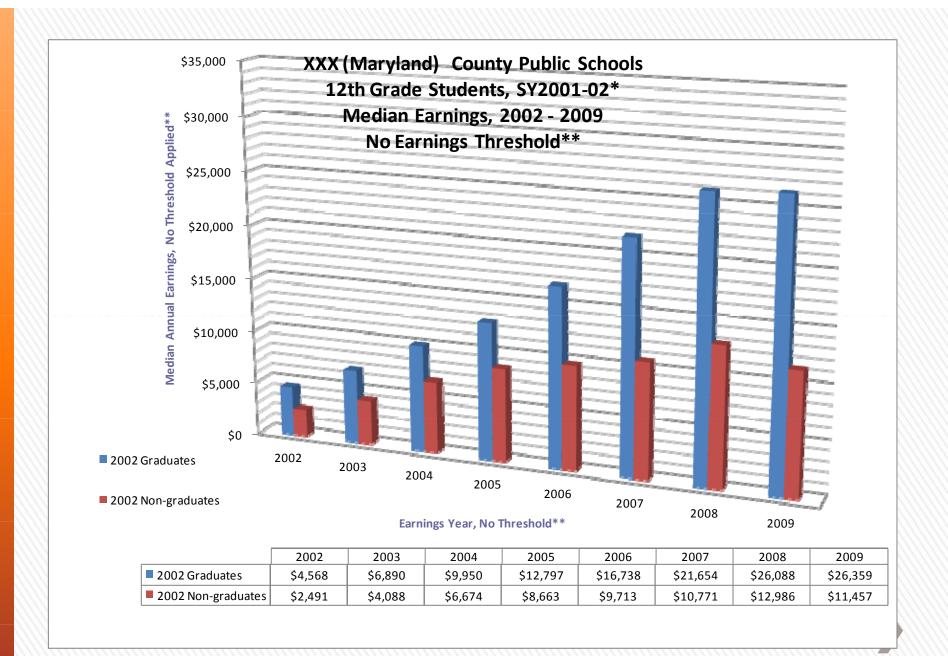


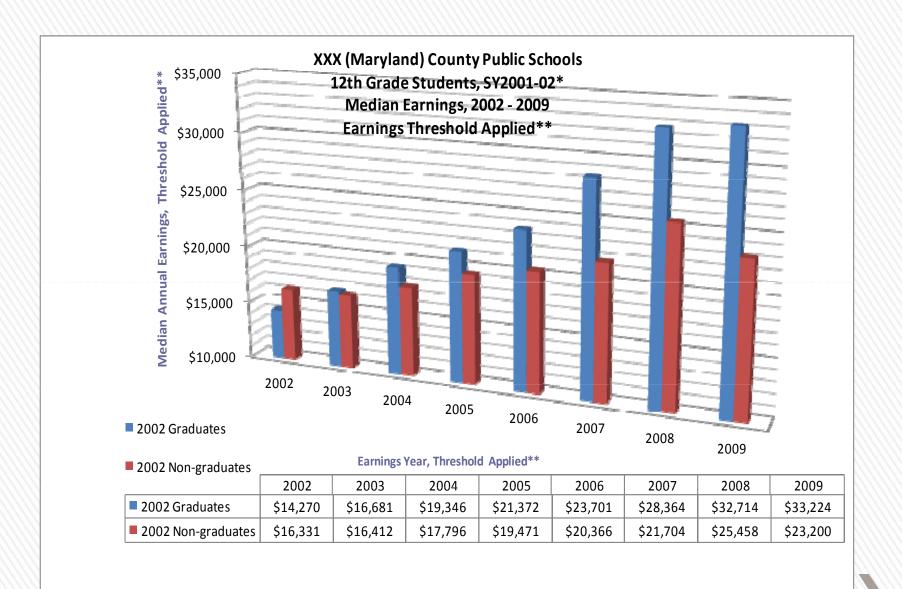
UNIVERSITY OF MARYLAND SYSTEM/JFI PARTNERSHIP: TEACHER RETENTION STUDY

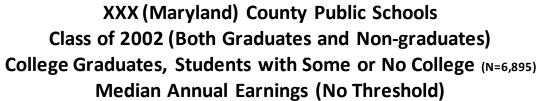
USM Education Bachelor Degree Recipients (2004): Workforce Affiliation

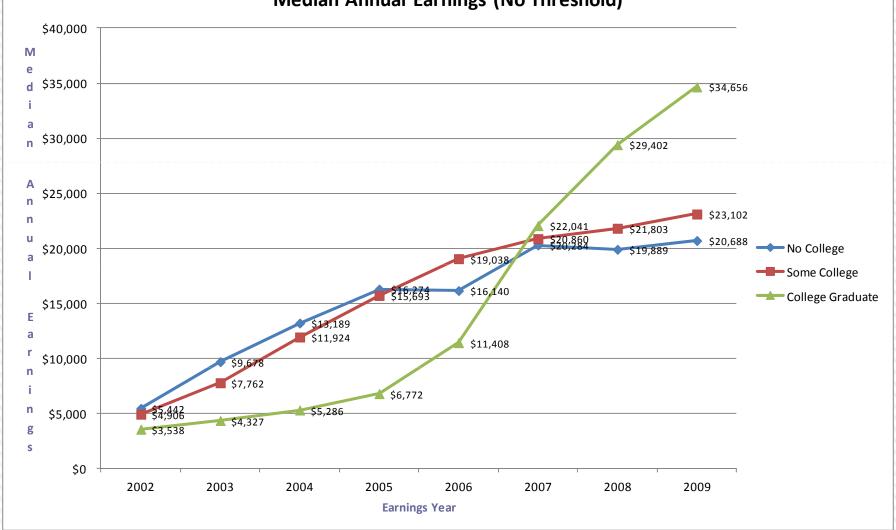


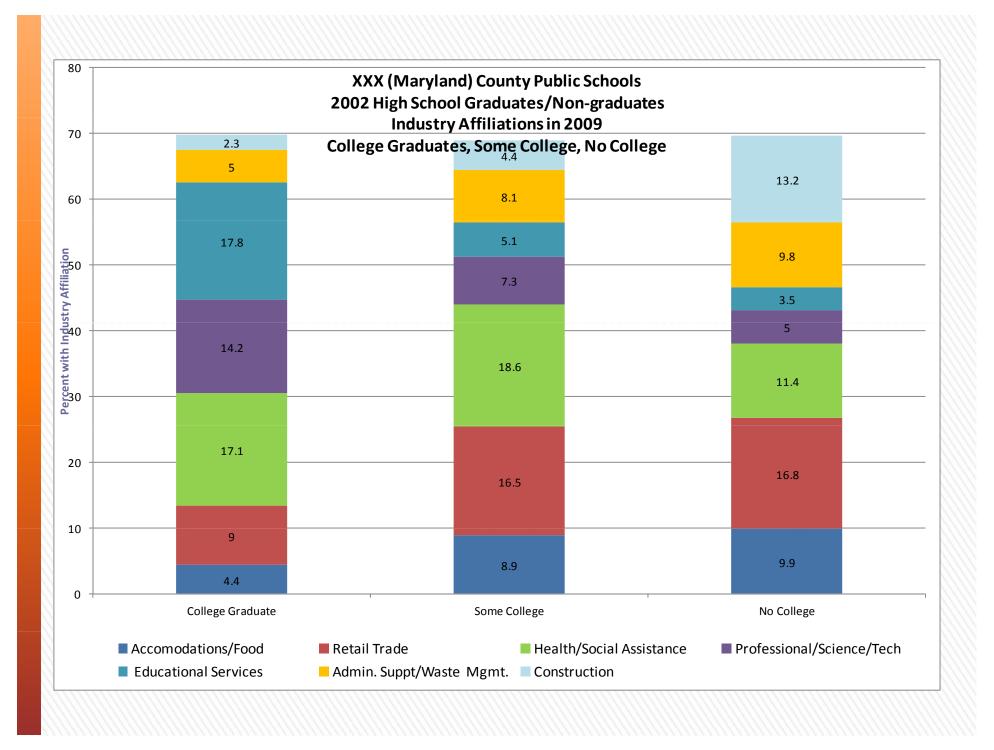
Employment

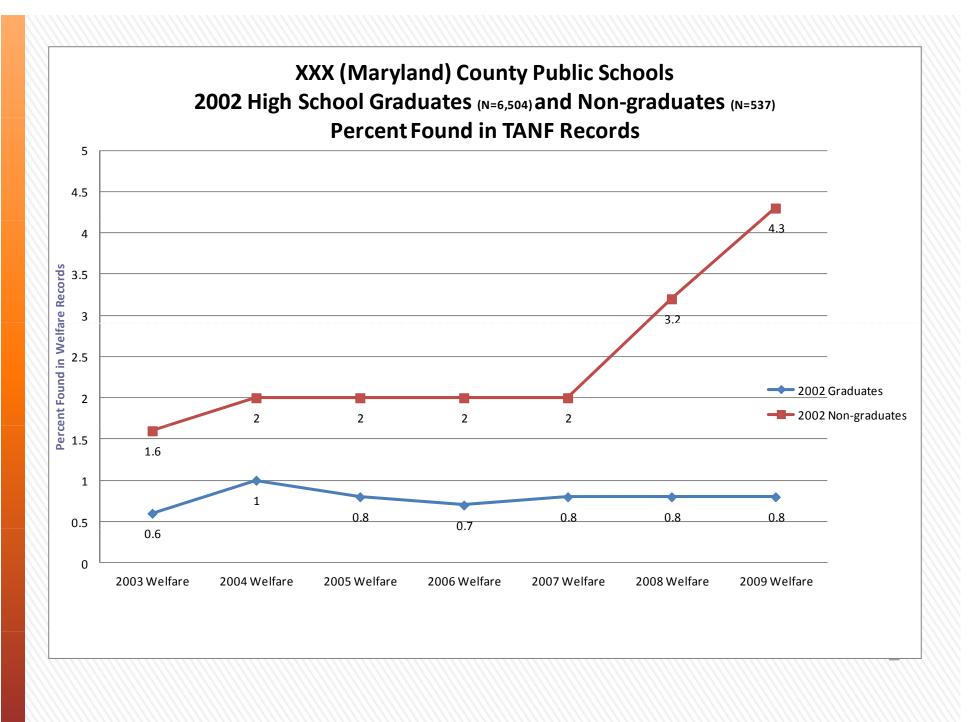












LINKING ADMINISTRATIVE DATA USING PROBABILISTIC MATCHING

SDAD Data: Same DOB, Name and Education, but Different SSN

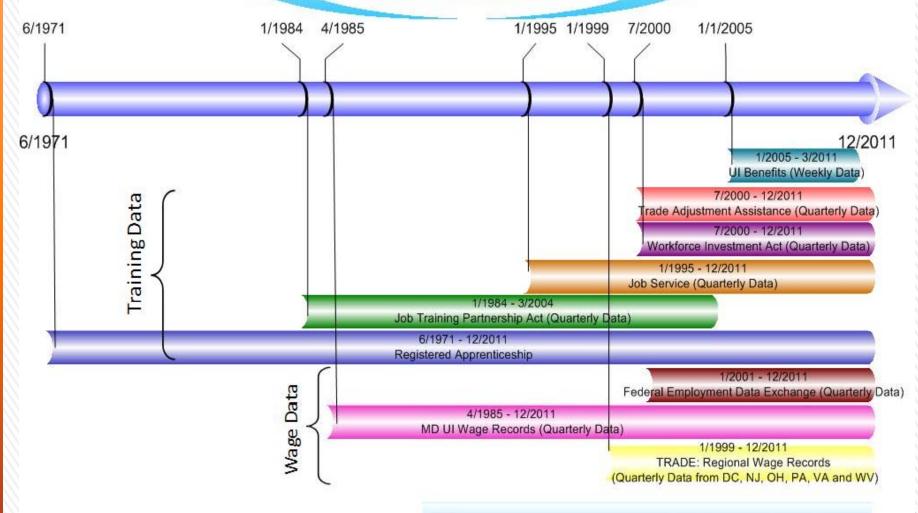
JTPA Data: Same DOB, Name, Race and Gender, but Similar SSN

	SSN	DOB	First Name	Last Name	ethnicity	Gender	Middle Initials	College Graduat e
Record 1	XXXXXXXO XX	D (same)	D (same)	D (same)	D (same)	D (same)		Yes
Record 2	XXXXXX9 XX	D (same)	D (same)	D (same)	D (same)	D (same)		

Summary of Potential Matches between JTPA and SDAD Data

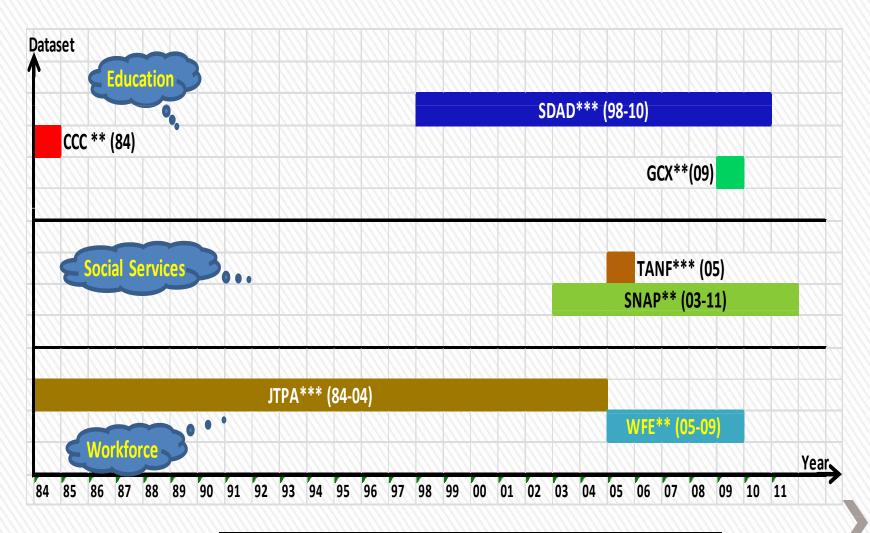
Situati	SSN	DOB	Name					
on								
a	D (same)	19861209 vs.	D (same)					
		19861229						
b	D (same)	XXXX0824 vs.	Cory Smith vs. Corey Smith					
		XXXX0823						
С	Different in One	D (same)	John Mccormic vs. John Mccormick					
	digit							





The Jacob France Institute, University of Baltimore Original Data Source: Maryland Department of Labor, Licensing and Regulation

Profile of Datasets Used



^{**} SSN + DOB, or SSN + Name, or +gender (or ethnicity or education).

^{***} SSN + Name + DOB + gender (or ethnicity or education or address).

Combinations of Program Engagements (Selected for Presentation)

# of Datase ts	# of Prog Types	Overlapping Participation in over One Data Sources					Edu	Soc- ial	Work- force	Freq.	%	Cum.%
2	2	GCX	WFE				*		*	120	0.36	0.38
2	2	SDAD	JTPA				*		*	918	2.77	3.15
2	2	SDAD	WFE				*		*	2,309	6.98	10.13
2	1	JTPA	WFE						*	9,551	28.87	39.00
3	2	SDAD	JTPA	WFE			*		*	183	0.55	40.14
3	2	SDAD	SNAP	GCX			*	*		345	1.04	41.18
3	3	SDAD	SNAP	JTPA			*	*	*	392	1.18	42.36
3	2	TANF	JTPA	WFE				*	*	1,036	3.13	45.49
3	3	SDAD	SNAP	WFE			*	*	*	1,153	3.48	48.97
3	2	SNAP	JTPA	WFE				*	*	7,878	23.81	72.78
4	3	SDAD	SNAP	JTPA	WFE		*	*	*	123	0.37	73.41
4	3	SDAD	SNAP	TANF	JTPA		*	*	*	188	0.57	73.98
4	3	SDAD	SNAP	TANF	WFE		*	*	*	577	1.74	75.72
4	2	SNAP	TANF	JTPA	WFE			*	*	7,937	23.99	99.71
5	3	SNAP	TANF	CCC	JTPA	WFE	*	*	*	19	0.06	99.77
5	3	SDAD	SNAP	TANF	JTPA	WFE	*	*	*	69	0.21	99.98
Total									33,088			