

Business Dynamics Statistics

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*Any opinions and conclusions expressed herein are those of the authors and do not necessarily represent the views of the U.S. Census Bureau. All results have been reviewed to ensure that no confidential information is disclosed

Overview

- Motivation for BDS
- BDS content
- Background info on data sources, methods
- Examples using BDS statistics
- Plans for new BDS products

Motivation for BDS

- Tracking changes in population of businesses is important for understanding growth in jobs and living standards
- Population of businesses is constantly churning—some grow, others decline or close
- Startups replenish the population
- Over time, churning/replenishment shift employment towards higher productivity jobs

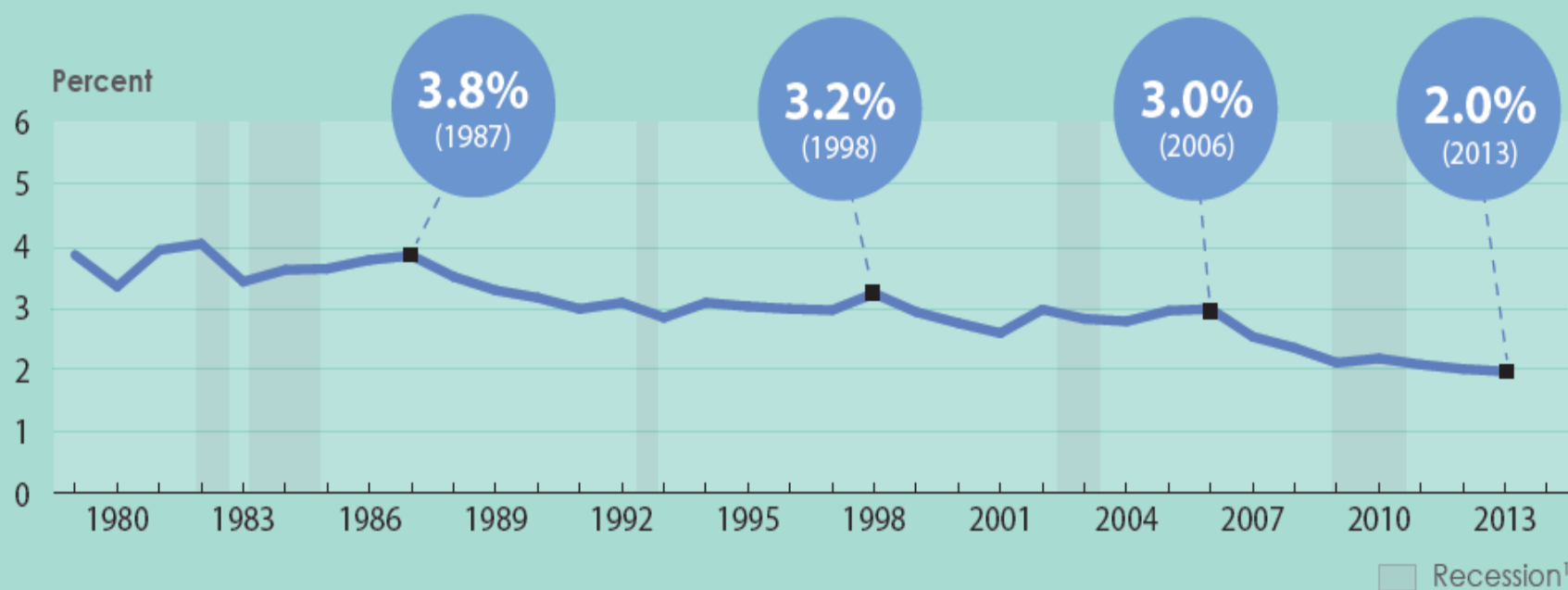
JOB CREATION IN THE UNITED STATES

The U.S. Census Bureau releases data every year describing changes at businesses operating in the United States. These Business Dynamics Statistics (BDS) include information on the number of startups (businesses that began operating in a given year) and the number of new jobs that were created by businesses of different ages.

Job Creation from Startups not yet Recovered in 2013

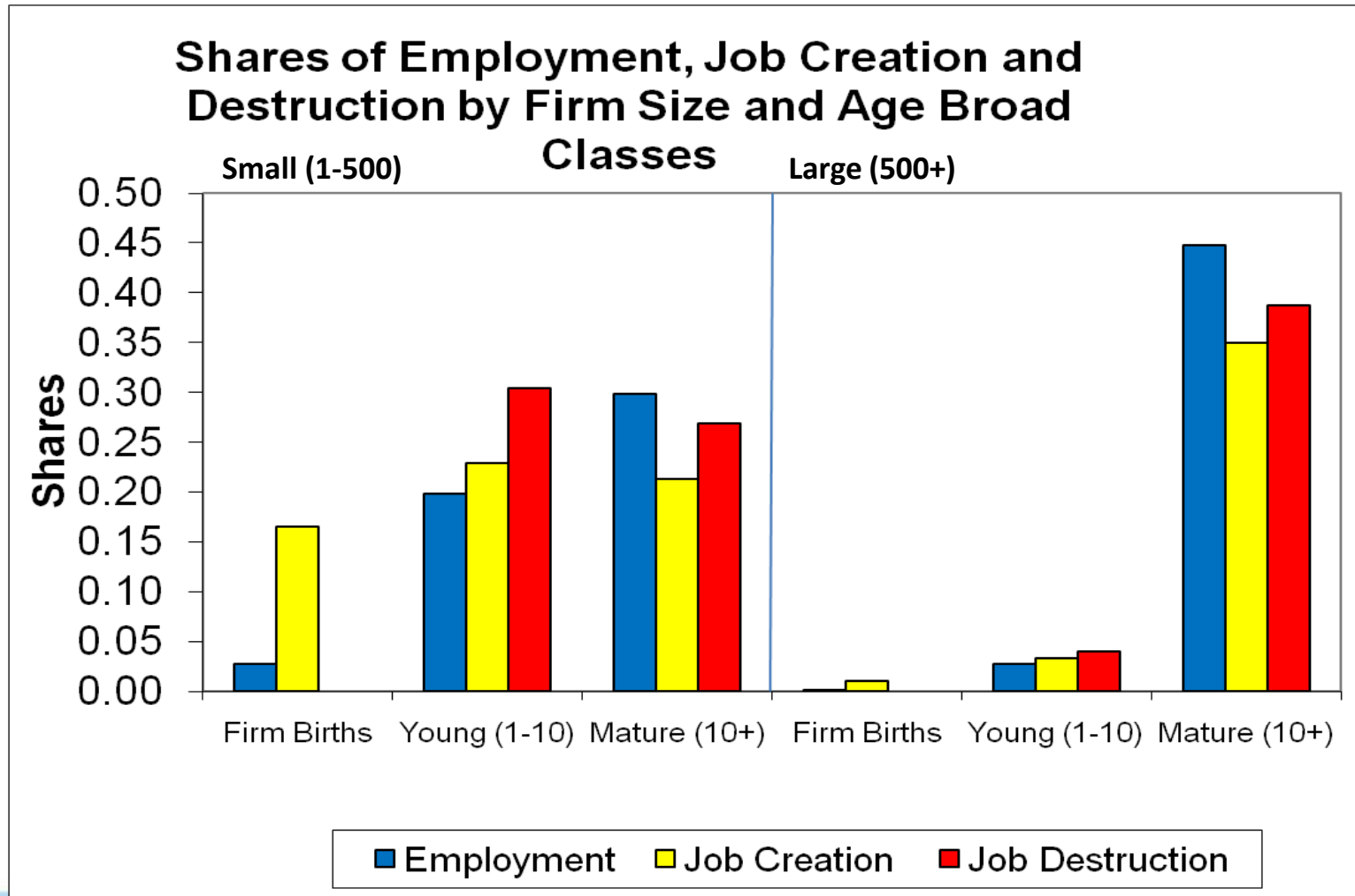
Job Creation from Startups as a Share of Private Non-Farm Employment, by Year

Startups' contribution to total number of jobs remains at a historic low in 2013. Startups were hit hard in the Great Recession (2008–2009) and have not yet recovered.



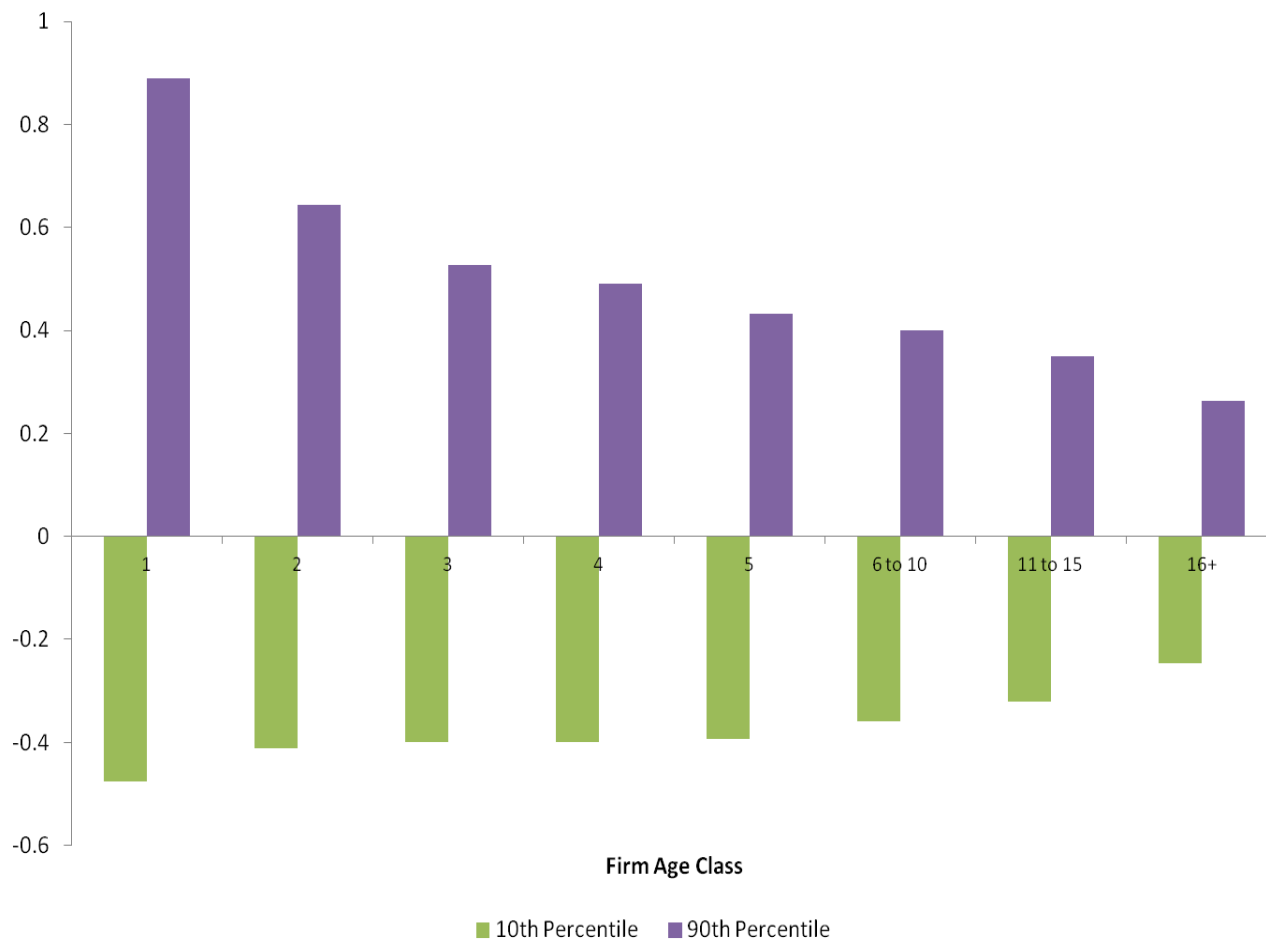
Which businesses create jobs?

Large vs Small vs Young



Firm Growth Rates by Age

90th and 10th Percentiles of Net Employment Growth Rates for Surviving U.S. Private Sector Firms by Firm Age (2003-05)



Establishments with annual growth rates > 30% accounted for 69% of job creation

Establishments with annual growth rates < -30 percent accounted for 71% of job destruction

BDS content

- Businesses:
 - Number of establishments (=business locations) and firms
 - Firm startups and shutdowns
 - Establishment openings and closings
- Jobs
 - Employment levels
 - Jobs created and destroyed

BDS statistics tabulated by:

- Firm age:
 - Age=0 for new firms “Startups”
 - 1, 2, 3, 4, 5, 6-10. ...26+, Left censored
- Firm size categories, based on employment
- State, Metro/non-metro, and MSA
- Industry sector—currently SIC based
- Some, but not all, cross classifications—e.g.
 - Firm age x firm size x metro/non-metro x state
 - But not industry sector by state

Businesses included in the BDS

- Years: 1977-2013
- All paid U.S. private sector employment
 - Except: self-employed, employees of private households, railroad employees, overseas employees
 - Includes employees of govt-owned/sponsored hospitals, depository institutions, credit agencies, liquor stores
- Comparable in scope to Census's County Business Patterns (CBP) and Statistics of U.S. Businesses (SUSB)

Source Data: The Business Register (BR)

- Sampling frame for Census business surveys—e.g. Economic Census, annual business surveys
- Master list of employers filing federal payroll withholding, except private household employers
- Primary sources of information are employer payroll tax and business income tax filings
- Census collects additional info on business location(s), common ownership, industry classification that allow it to delineate statistical units: firms/establishments
- Provides source data for CBP, SUSB, BDS

Information maintained on BR

- Industry
- Geography (in recent years, incl latitude/longitude)
- Employment
- Payroll
- Legal form of organization
- Sales
- Company name and establishment addresses

Important BR features

- Information on common ownership allows measure of firm size, rather than size of unit filing tax form
- Long time series useful for disentangling long-term trends versus business cycle effects
- Location, industry information useful for describing variation across areas and types of businesses

Challenge: Linking BR over time key to measuring employment dynamics

- Accurately measuring creation and destruction of jobs requires following individual businesses over time.
- Survey/tax information on BR provide some links
- But mergers/acquisitions, other reorganizations, often break longitudinal tax-id links
- Smaller firms often not in sample surveys except in Economic Census years

Longitudinal Business Database (LBD)

- Longitudinally linked version of the BR
- Uses name and address matching to identify establishments that change identifiers, but have similar name/address
- Focus on finding pairs of businesses with similar names/addresses where one shuts down as the other starts up—recode these pairs as a single continuing business rather than 1 death + 1 birth

Business Dynamics Statistics

BDS
Main

Methodology

Publications

Data

Visualization
Tools

Definitions

FAQs

Related Links

- [BLS Business Employment Dynamics](#)
- [County Business Patterns](#)
- [Longitudinal Business Database](#)
- [Nonemployer Statistics](#)
- [Statistics of U.S. Businesses](#)
- [Synthetic Longitudinal Business Database](#)
- [Virtual RDC](#) 

Useful Links

- [Acronyms and Definitions](#)
- [Center for Economic Studies](#)
- [Data Protection Policy](#)
- [Economist Positions](#)
- [Federal Statistical Research Data Centers](#)
- [LEHD](#)

Contact Information

Data

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2013 Release

The September 2015 release of BDS data contains data for 1976–2013 and includes tables by establishment type and size.

- [Firm Characteristics Data Tables](#)
Describes job flow and entry/exit patterns for establishments in the U.S. classified according to firm size and type.
- [Establishment Characteristics Data Tables](#)
Describes job flow and entry/exit patterns for establishments in the U.S. classified according to establishment type and size.

Important Note: The BDS uses longitudinal information on firms and establishments to generate measures of job flows. Having more years of data surrounding the year in question improves the quantity and quality of the release. Measures of job flows from firm and establishment births are especially sensitive to this source of information.

Economic Census years (years ending in '2' and '7') present particular challenges in the computation and reconciliation of the Economic Census and administrative data takes time and involves substantial editing. The year ending in 7 is typically designated as a last year. ([Further background information](#))

Legacy Versions

Legacy data tables for earlier versions of the BDS are available upon request.

Firm Characteristics Data Tables

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	Excel	Comma-Delimited	SAS
Economy Wide	EW.xls	EW.csv	EW.sas
Sector	SIC.xls	SIC.csv	SIC.sas
Firm Size	SZ.xls	SZ.csv	SZ.sas
Initial Firm Size	ISZ.xls	ISZ.csv	ISZ.sas
Firm Age	AGE.xls	AGE.csv	AGE.sas
State	ST.xls	ST.csv	ST.sas
Metro/Non-Metro	MET.xls	MET.csv	MET.sas
MSA	MSA.xls	MSA.csv	MSA.sas
Firm Age by Firm Size	AGExSZ.xls	AGExSZ.csv	AGExSZ.sas
Firm Age by Initial Firm Size	AGExISZ.xls	AGExISZ.csv	AGExISZ.sas
Firm Age by Sector	AGExSIC.xls	AGExSIC.csv	AGExSIC.sas
Firm Age by Metro/Non-Metro	AGExMET.xls	AGExMET.csv	AGExMET.sas
Firm Age by MSA	AGExMSA.xls	AGExMSA.csv	AGExMSA.sas
Firm Age by State	AGExST.xls	AGExST.csv	AGExST.sas
Firm Size by Sector	SZxSIC.xls	SZxSIC.csv	SZxSIC.sas
Firm Size by Metro/Non-Metro	SZxMET.xls	SZxMET.csv	SZxMET.sas
Firm Size by MSA	SZxMSA.xls	SZxMSA.csv	SZxMSA.sas
Firm Size by State	SZxST.xls	SZxST.csv	SZxST.sas
Initial Firm Size by Sector	ISZxSIC.xls	ISZxSIC.csv	ISZxSIC.sas
Initial Firm Size by Metro/Non-Metro	ISZxMET.xls	ISZxMET.csv	ISZxMET.sas
Initial Firm Size by State	ISZxST.xls	ISZxST.csv	ISZxST.sas
Firm Age by Firm Size by Sector	AGExSZxSIC.xls¹	AGExSZxSIC.csv	AGExSZxSIC.sas
Firm Age by Firm Size by State	AGExSZxST.xls²	AGExSZxST.csv	AGExSZxST.sas
Firm Age by Firm Size by Metro/Non-Metro	AGExSZxMET.xls (Metro) AGExSZxNonMET.xls (Non-Metro)	AGExSZxMET.csv	AGExSZxMET.sas

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Country: USA													
2	Variable: Estabs													
3	Unit of Analysis: Active Establishments*													
4	Source: Longitudinal Business Database 1977-2013													
5	*Establishment activity is defined by the existence of March 12 employment													
6														
7														
8	1977 Firm Size													
9	Firm Age	a) 1 to 4	b) 5 to 9	c) 10 to 19	d) 20 to 49	e) 50 to 99	f) 100 to 249	g) 250 to 499	h) 500 to 999	i) 1000 to 2499	j) 2500 to 4999	k) 5000 to 9999	l) 10000+	
10	a) 0	486,984	61,613	33,057	19,856	6,688	3,944	1,373	528	392	82	191	5	
11	b) 1													
12	c) 2													
13	d) 3													
14	e) 4													
15	f) 5													
16	g) 6 to 10													
17	h) 11 to 15													
18	i) 16 to 20													
19	j) 21 to 25													
20	k) 26+													
21	l) Left Censored	1,545,006	647,305	385,842	262,132	110,686	95,945	55,967	49,500	66,567	57,911	48,383	213,785	
22	m) ALL	2,031,990	708,918	418,899	281,988	117,374	99,889	57,340	50,028	66,959	57,993	48,574	213,790	
23	1978 Firm Size													
24	Firm Age	a) 1 to 4	b) 5 to 9	c) 10 to 19	d) 20 to 49	e) 50 to 99	f) 100 to 249	g) 250 to 499	h) 500 to 999	i) 1000 to 2499	j) 2500 to 4999	k) 5000 to 9999	l) 10000+	
25	a) 0	435,857	46,004	16,578	7,170	1,425	917	221	262	31				
26	b) 1	261,229	86,021	52,986	36,915	13,827	8,194	2,976	1,412	828	354	128	281	
27	c) 2													
28	d) 3													
29	e) 4													
30	f) 5													
31	g) 6 to 10													
32	h) 11 to 15													
33	i) 16 to 20													
34	j) 21 to 25													
35	k) 26+													
36	l) Left Censored	1,464,006	647,305	385,842	262,132	110,686	95,945	55,967	49,500	66,567	57,911	48,383	213,785	
37	m) ALL	1,945,990	708,918	418,899	281,988	117,374	99,889	57,340	50,028	66,959	57,993	48,574	213,790	

Number of Firms by Firm Size and Firm Age, 2013

Firm Age	2013 Firm Size											
	a) 1 to 4	b) 5 to 9	c) 10 to 19	d) 20 to 49	e) 50 to 99	f) 100 to 249	g) 250 to 499	h) 500 to 999	i) 1000 to 2499	j) 2500 to 4999	k) 5000 to 9999	l) 10000+
a) 0	355,011	31,080	13,010	5,638	1,027	429	107	36	14	1		
b) 1	217,449	54,247	26,133	13,599	3,041	1,070	247	83	41	12	9	21
c) 2	173,496	51,306	26,086	13,921	3,370	1,340	271	112	43	19	10	12
d) 3	140,548	45,079	23,735	13,049	3,230	1,441	348	131	68	16	10	14
e) 4	130,793	43,260	23,662	13,120	3,319	1,241	274	108	65	19	7	13
f) 5	135,293	45,235	25,007	13,866	3,664	1,433	349	124	67	16	6	10
g) 6 to 10	546,116	199,064	110,005	61,245	16,174	7,266	1,782	733	351	92	51	72
h) 11 to 15	353,738	142,930	84,220	50,448	14,850	7,213	1,832	852	497	136	67	63
i) 16 to 20	251,419	108,143	64,028	37,752	10,372	4,838	1,211	587	371	107	52	64
j) 21 to 25	180,104	83,867	50,730	31,836	9,462	4,916	1,431	671	439	157	68	79
k) 26+	246,885	132,359	84,321	59,284	21,004	13,151	4,507	2,177	1,381	540	256	213
l) Left Censored	115,564	84,202	67,216	59,587	26,031	19,513	7,030	3,974	2,752	1,172	714	796
m) ALL	2,846,416	1,020,772	598,153	373,345	115,544	63,851	19,389	9,588	6,089	2,287	1,250	1,357

Source: U.S. Census Bureau, Business Dynamics Statistics at http://www.ces.census.gov/index.php/bds/bds_home

Employment by Firm Size and Firm Age, 2013

Firm Age	2013 Firm Size											
	a) 1 to 4	b) 5 to 9	c) 10 to 19	d) 20 to 49	e) 50 to 99	f) 100 to 249	g) 250 to 499	h) 500 to 999	i) 1000 to 2499	j) 2500 to 4999	k) 5000 to 9999	l) 10000+
a) 0	829,995	379,003	335,265	320,825	136,366	126,305	74,571	47,220	D	D		
b) 1	433,349	361,965	366,996	424,149	211,656	160,675	83,748	47,219	46,581	22,187	194	2,212
c) 2	350,159	334,768	356,879	423,378	234,487	202,085	91,840	73,528	58,132	32,261	10,796	492
d) 3	283,086	291,584	321,268	397,755	224,475	220,685	115,190	85,568	80,633	32,633	20,504	39,156
e) 4	262,761	278,557	318,876	395,752	229,644	186,701	92,884	71,176	D	D	D	D
f) 5	271,735	291,324	335,414	418,420	252,607	214,312	116,327	81,374	63,702	23,580	D	D
g) 6 to 10	1,107,250	1,271,565	1,465,158	1,834,680	1,113,452	1,085,282	589,537	466,961	386,384	213,503	176,641	114,994
h) 11 to 15	731,798	909,307	1,117,169	1,513,340	1,022,186	1,092,557	616,177	534,177	633,548	374,007	209,665	352,101
i) 16 to 20	528,265	685,334	847,520	1,123,580	709,841	729,716	414,034	372,899	457,602	290,657	261,034	569,101
j) 21 to 25	385,283	532,286	670,636	951,505	650,022	744,825	488,236	431,566	580,982	428,118	339,652	1,343,539
k) 26+	546,959	838,787	1,117,431	1,789,877	1,452,904	2,018,917	1,527,167	1,456,594	1,929,580	1,672,649	1,475,484	4,508,156
l) Left Censored	268,272	540,444	899,279	1,832,284	1,817,895	3,006,281	2,402,023	2,672,493	3,973,055	3,590,850	4,046,669	25,624,456
m) ALL	5,998,912	6,714,924	8,151,891	11,425,545	8,055,535	9,788,341	6,611,734	6,340,775	8,321,486	6,738,218	6,559,020	32,556,671

Source: U.S. Census Bureau, Business Dynamics Statistics at http://www.ces.census.gov/index.php/bds/bds_home

Net Job Creation by Firm Size and Firm Age, 2013

Firm Age	2013 Firm Size											
	a) 1 to 4	b) 5 to 9	c) 10 to 19	d) 20 to 49	e) 50 to 99	f) 100 to 249	g) 250 to 499	h) 500 to 999	i) 1000 to 2499	j) 2500 to 4999	k) 5000 to 9999	l) 10000+
a) 0	829,995	379,003	335,265	320,825	136,366	126,305	74,571	47,220	D	D		
b) 1	-133,900	-5,543	6,167	3,107	-25,541	-31,240	10,015	2,251	-587	6,262	-114	698
c) 2	-64,038	-11,262	1,484	3,709	4,901	6,279	2,389	-414	-3,323	4,276	-2,323	-157
d) 3	-46,455	-14,629	-3,656	1,502	6,285	5,499	2,176	4,880	7,602	2,883	286	3,055
e) 4	-40,013	-12,693	-5,320	1,747	7,408	6,959	5,630	2,796	7,907	D	D	1,179
f) 5	-36,421	-12,742	-6,558	1,713	4,740	3,154	1,651	8,469	D	-2,673	D	-381
g) 6 to 10	-131,557	-58,008	-31,015	-16,127	5,313	10,462	17,151	15,658	21,932	17,831	20,336	10,463
h) 11 to 15	-78,900	-42,166	-28,686	-26,332	1,081	9,606	18,002	5,217	15,341	1,794	3,839	3,057
i) 16 to 20	-57,194	-32,791	-20,878	-15,682	-5,202	8,623	19,373	7,184	-10,191	1,010	4,254	29,633
j) 21 to 25	-42,741	-23,253	-20,207	-14,124	928	12,008	12,158	4,414	615	-25,026	6,138	79,203
k) 26+	-66,043	-45,161	-35,387	-32,966	9,311	41,510	44,794	45,395	48,959	52,181	40,186	173,126
l) Left Censored	-36,892	-34,032	-37,986	-45,161	-9,256	41,533	49,335	44,069	100,452	96,784	119,118	486,066
m) ALL	95,781	84,023	153,223	182,211	136,334	240,698	257,245	187,139	228,340	210,386	185,661	785,942

Firms

31%

Activity

57%

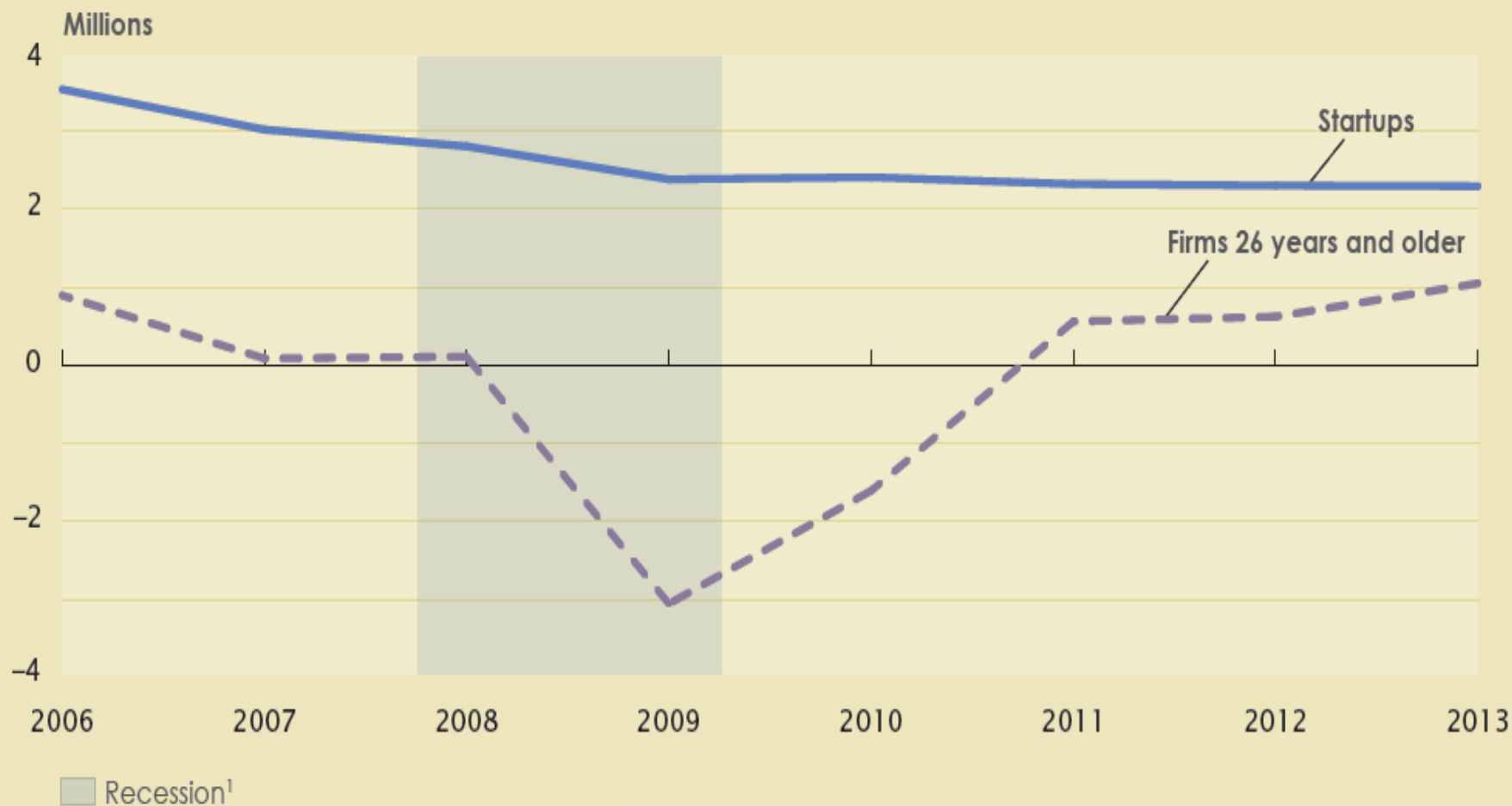
51%

Source: U.S. Census Bureau, Business Dynamics Statistics at http://www.census.gov/ces/dataproducts/bds/data_firm.html

Recovery by the Oldest Firms Continued in 2013

Net Job Creation at Startups and Firms 26 Years and Older: 2006-2013

Net job creation by the oldest firms (those 26 years and older) increased in 2013 reaching prerecession levels with 1.0 million net new jobs created. In contrast, startups' contribution to net job creation in 2013 was 2.3 million, well below its prerecession peak of 3.5 million jobs in 2006.



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	A	B	C	D	E	S	T	U	V	W	X	Y
473		2008										
								Net_Job_				
						Job_Destruction	Net_Job_	Creation_	Reallocation	Firmdeath	Firmdeath	Firmdeath
474	Firm Age	Firms	Estabs	Emp	Denom	_Rate	Creation	Rate	_Rate	_Firms	_Estabs	_Emp
475	a) 0	490,834	496,354	2,858,440	1,455,904	0.0	2,805,072	192.7	0.0			
476	b) 1	387,717	392,560	2,729,461	2,864,479	33.5	-270,035	-9.4	48.2	100,148	100,148	474,327
477	c) 2	355,234	370,629	2,925,414	3,064,507	26.5	-278,186	-9.0	35.0	60,870	60,889	334,994
478	d) 3	308,145	319,541	2,731,943	2,827,844	23.6	-191,803	-6.8	33.6	45,706	45,725	266,032
479	e) 4	265,831	274,735	2,427,194	2,498,667	21.3	-142,945	-5.8	31.0	35,007	35,036	204,666
480	f) 5	232,799	248,594	2,395,729	2,471,282	20.8	-151,108	-6.2	29.2	27,000	27,004	189,742
481	g) 6-10	920,675	997,568	11,290,966	11,511,131	17.3	-440,330	-3.8	27.0	81,583	81,774	569,174
482	h) 11-15	638,325	691,322	8,575,289	8,703,392	15.7	-256,205	-3.0	25.4	44,202	44,283	303,358
483	i) 16-20	469,847	559,215	8,583,850	8,665,581	14.4	-163,462	-1.9	25.0	28,036	28,081	200,170
484	j) 21-25	390,131	519,230	9,997,476	10,019,248	11.6	-43,545	-0.4	22.4	19,791	19,944	152,355
485	k) 26+	316,586	518,556	11,905,216	11,891,550	11.8	27,332	0.2	23.6	15,922	16,050	125,814
486	l) Left Censored	464,726	1,479,787	53,668,383	53,626,566	10.9	83,635	0.1	21.8	18,747	19,027	225,964
487	m) ALL	5,240,850	6,868,091	120,089,361	119,600,151	13.8	978,420	0.8	27.6	477,012	477,961	3,046,596
488		2009										
								Net_Job_				
						Job_Destruction	Net_Job_	Creation_	Reallocation	Firmdeath	Firmdeath	Firmdeath
489	Firm Age	Firms	Estabs	Emp	Denom	_Rate	Creation	Rate	_Rate	_Firms	_Estabs	_Emp
490	a) 0	409,065	413,491	2,414,722	1,223,159	0.0	2,383,126	194.8	0.0			
491	b) 1	353,802	360,152	2,384,402	2,604,518	38.0	-440,233	-16.9	42.2	96,227	96,298	444,308
492	c) 2	317,560	322,908	2,339,942	2,521,434	30.5	-362,984	-14.4	32.2	61,754	61,765	312,848
493	d) 3	300,673	316,177	2,533,152	2,713,543	26.9	-360,782	-13.3	27.2	48,958	49,057	246,974
494	e) 4	265,693	277,328	2,404,118	2,558,447	25.5	-308,658	-12.1	26.8	38,092	38,124	199,380
495	f) 5	232,411	241,469	2,143,459	2,277,786	24.3	-268,653	-11.8	25.0	29,789	29,826	168,771
496	g) 6-10	893,760	960,049	10,103,992	10,650,654	21.0	-1,093,323	-10.2	21.6	86,204	86,517	551,146
497	h) 11-15	641,542	712,059	8,563,118	8,980,830	19.2	-835,424	-9.3	19.8	47,484	47,716	309,124
498	i) 16-20	461,314	543,715	7,574,537	7,901,395	18.1	-653,716	-8.3	19.6	29,129	29,228	190,728
499	j) 21-25	391,108	512,553	9,588,159	9,902,987	15.0	-629,655	-6.4	17.2	20,839	20,914	156,029
500	k) 26+	355,098	585,867	12,801,286	13,185,025	14.7	-767,479	-5.8	17.8	17,898	18,463	128,832
501	l) Left Censored	445,502	1,445,106	50,851,236	51,995,689	12.9	-2,288,906	-4.4	17.0	17,620	18,513	199,108
502	m) ALL	5,067,528	6,690,874	113,702,123	116,515,467	16.5	-5,626,687	-4.8	23.4	493,994	496,421	2,907,248

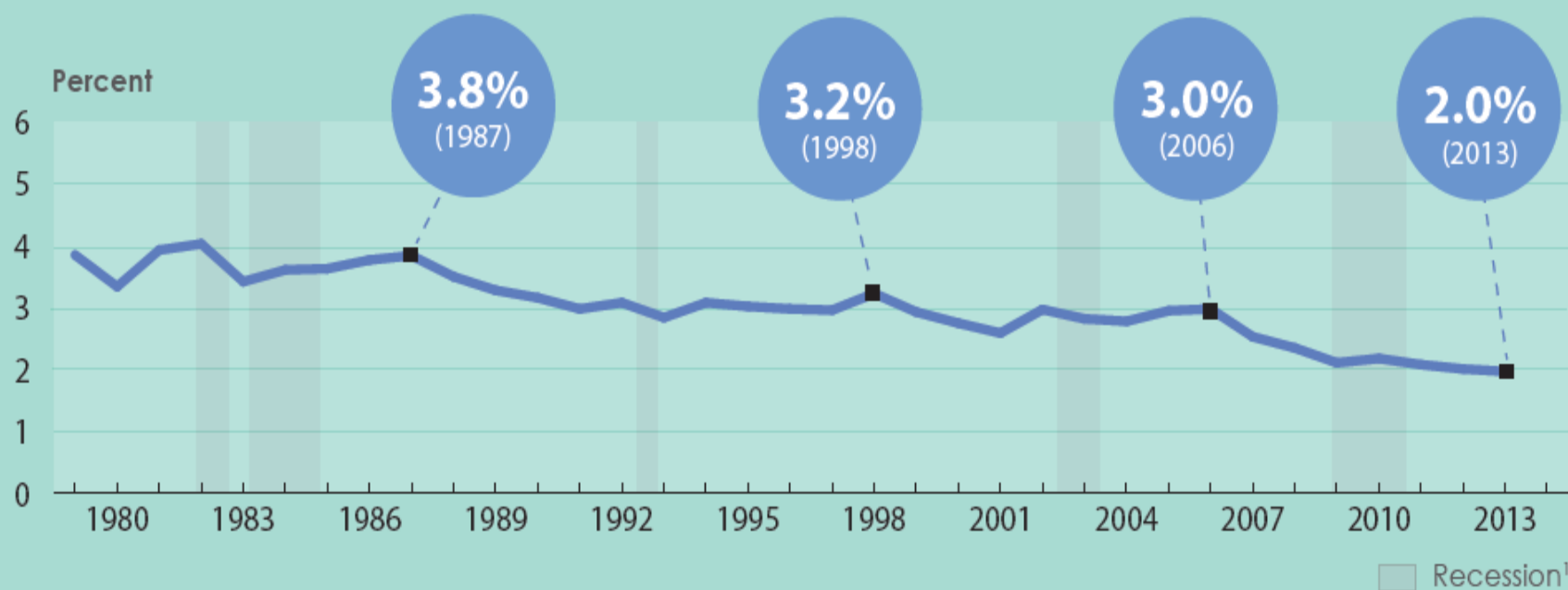
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Job Creation from Startups as a Share of Private Non-Farm Employment, by Year

Startups' contribution to total number of jobs remains at a historic low in 2013. Startups were hit hard in the Great Recession (2008–2009) and have not yet recovered.



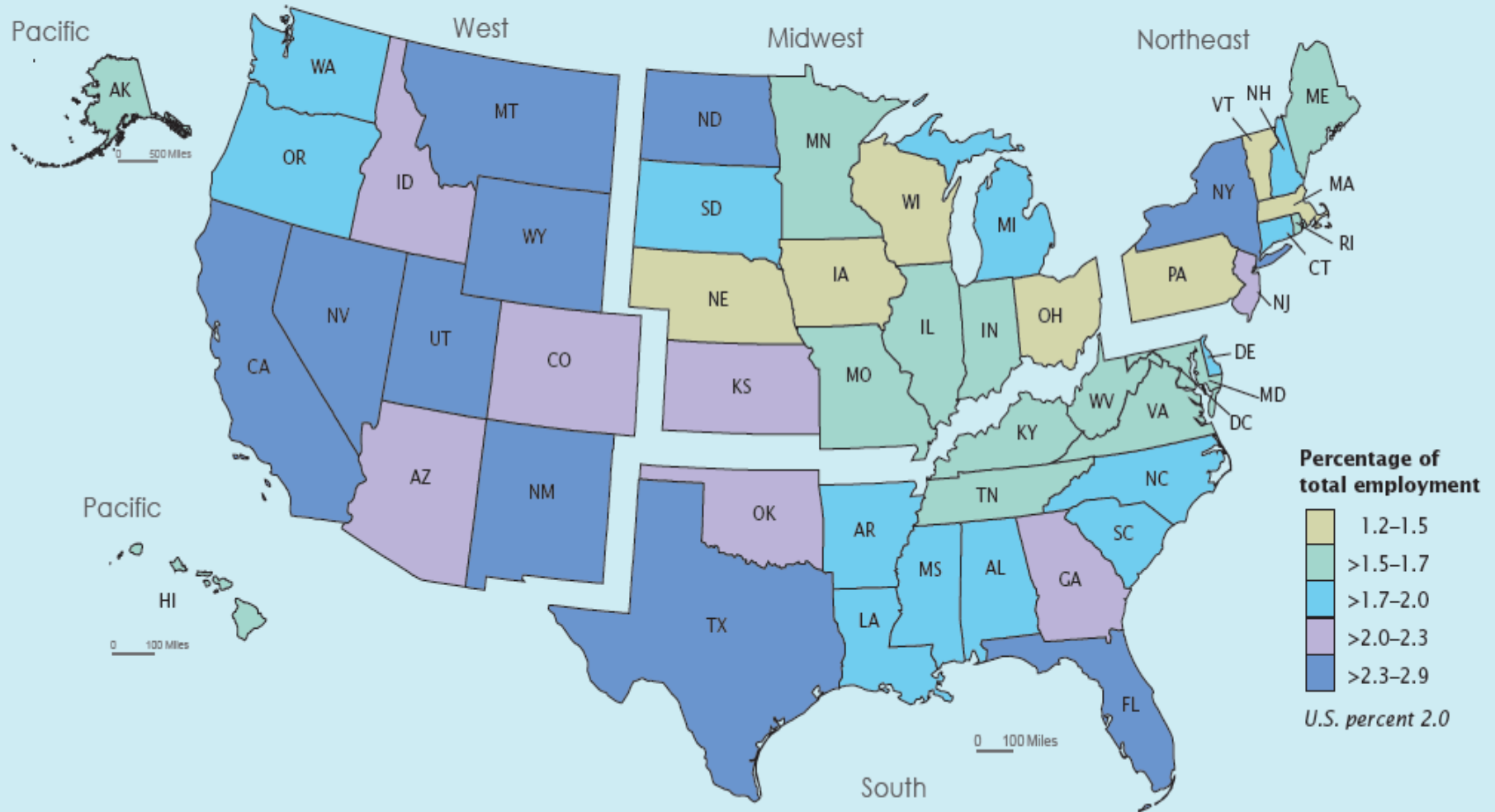
Startup's contribution to total number of jobs

	2012	2013	2014	2015	2016
Firm Age	Firms	Estabs	Emp	Denom	Estabs_Emp
a) 0	406,353	408,745	2,294,266	1,147,133	408,745
b) 1	315,925	319,513	2,160,931	2,245,674	527
c) 2	269,949	277,244	2,168,805	2,198,045	14,870
d) 3	227,619	237,038	2,112,537	2,127,673	12,049
e) 4	215,854	224,387	1,972,659	1,990,459	11,202
f) 5	225,030	238,129	2,077,676	2,095,919	12,137
g) 6-10	942,731	996,181	9,825,407	9,884,188	47,615
h) 11-15	656,652	731,457	9,106,032	9,164,856	29,433
i) 16-20	478,766	533,395	6,989,583	7,024,510	20,787
j) 21-25	363,526	456,560	7,546,650	7,527,567	18,424
k) 26+	565,430	902,882	20,334,505	20,196,553	31,961
l) Left Censored	387,467	1,378,002	50,674,001	50,286,986	69,958
m) ALL	5,055,302	6,703,533	117,263,052	115,889,563	677,706

Startups' Contribution to State Employment in 2013

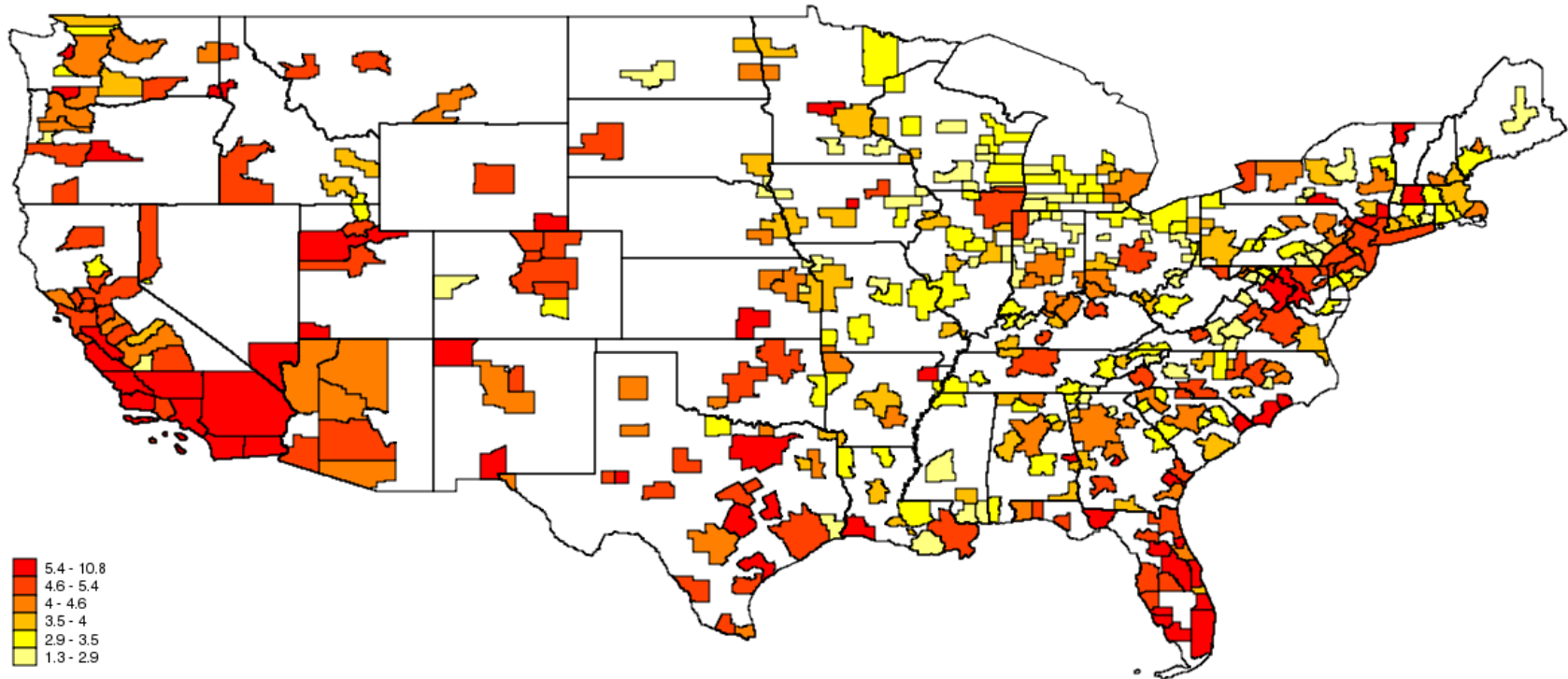
Employment in startups as a percentage of total state employment

In 2013 most states in the West experienced above average job creation rates from startups, exceeding the 2.0 percent U.S. average. Most states in the Midwest experienced below average job creation rates from startups.



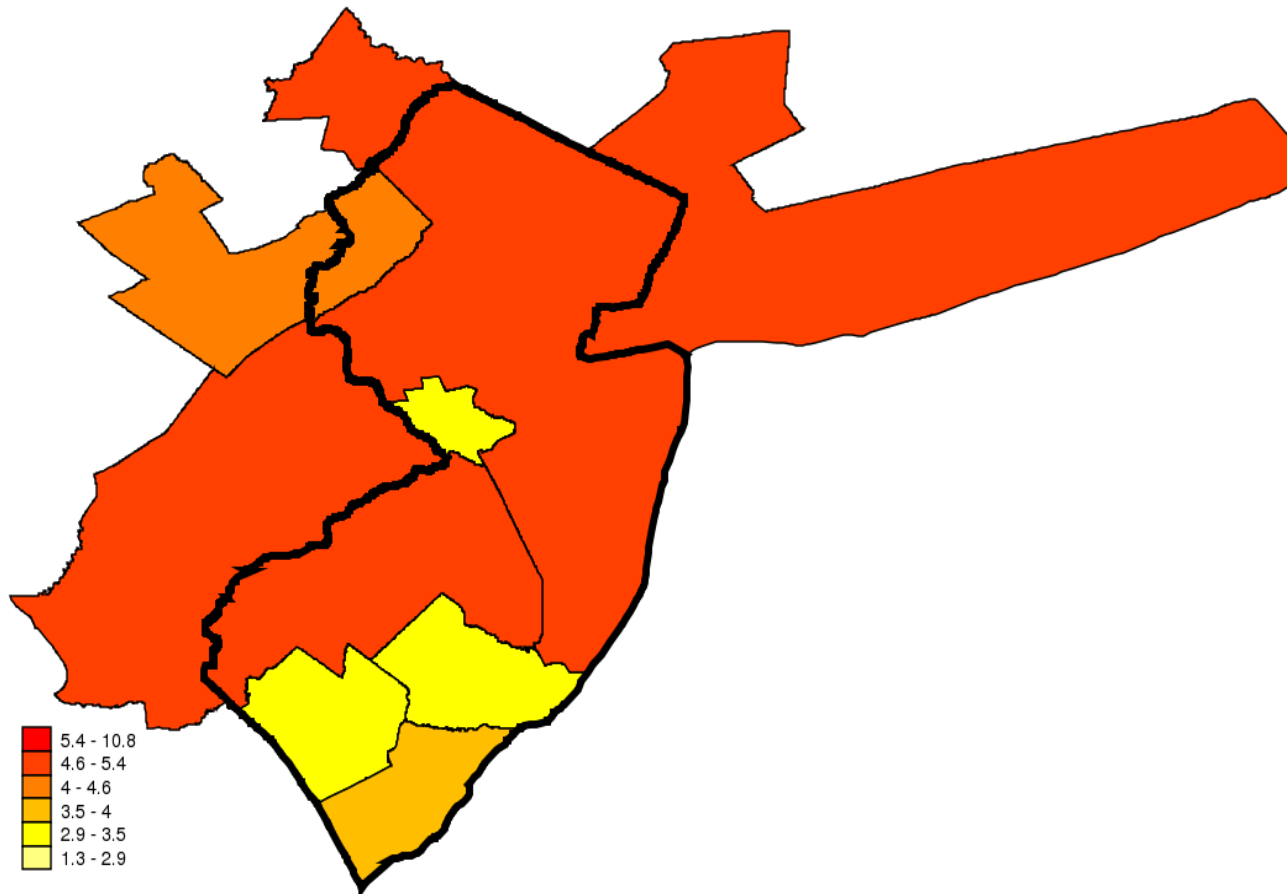
MSA statistics—U.S.

2013 Job creation from startups as share of employment



MSA statistics: NJ area MSAs

2013 Job creation from startups as share of employment for New Jersey MSAs



Cutoffs chosen to split full set of U.S. MSAs into 6 groups with equal #s of MSAs

Current initiative:

- Expand business characteristics in BDS to address additional questions such as:
 - How do business dynamics differ for firms involved in international trade?
 - How do firm dynamics differ for particularly innovative firms?
 - Who works for growing vs shrinking employers?
young vs old employers?

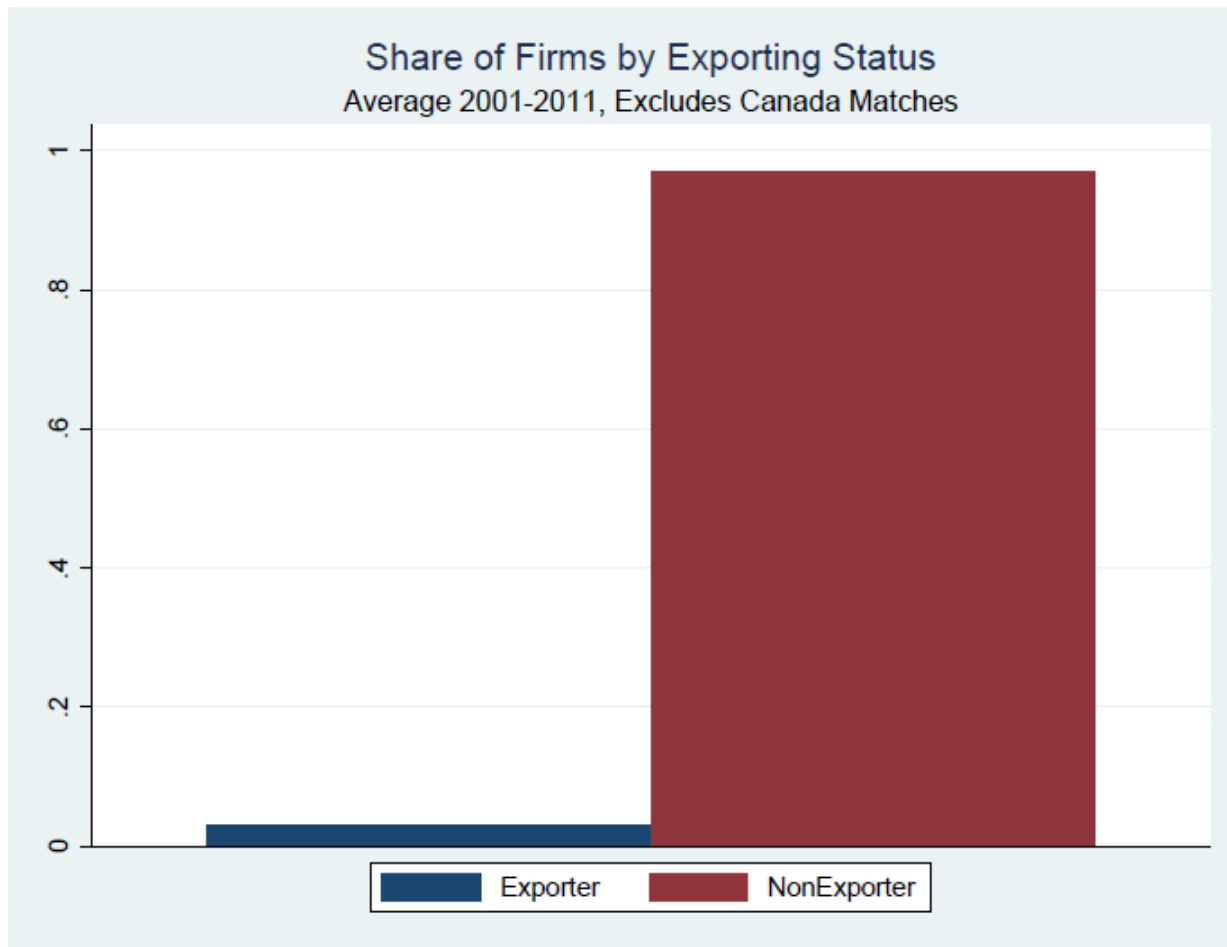
Approach

- Link in additional data sources to provide new employer characteristics
 - Low cost relative to new surveys
 - What we can do depends on what is available
- Can begin to address these questions, but determining how to use new data sources requires thought and data-user input

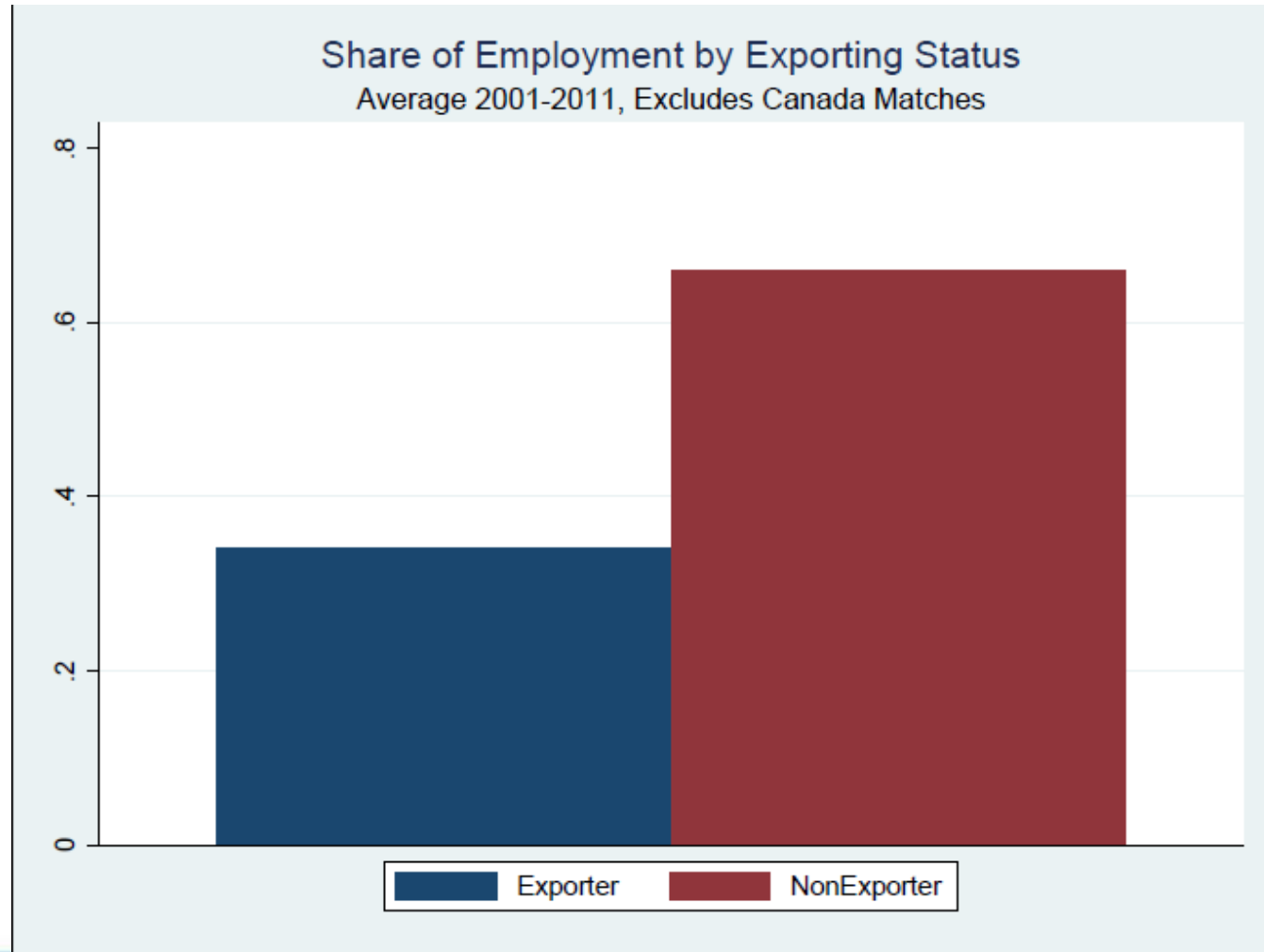
Examples:

- Linked trade transactions--issues include:
 - Currently only measure exports where
 - Transaction >\$2,500
 - Involves goods, not services
 - So not all exporters, not all firms involved in international trade
 - Different linking info for Canada vs rest of world
- Innovative firms—what indicates innovation?
 - Patenting? R&D? STEM employment?
 - No measure is complete

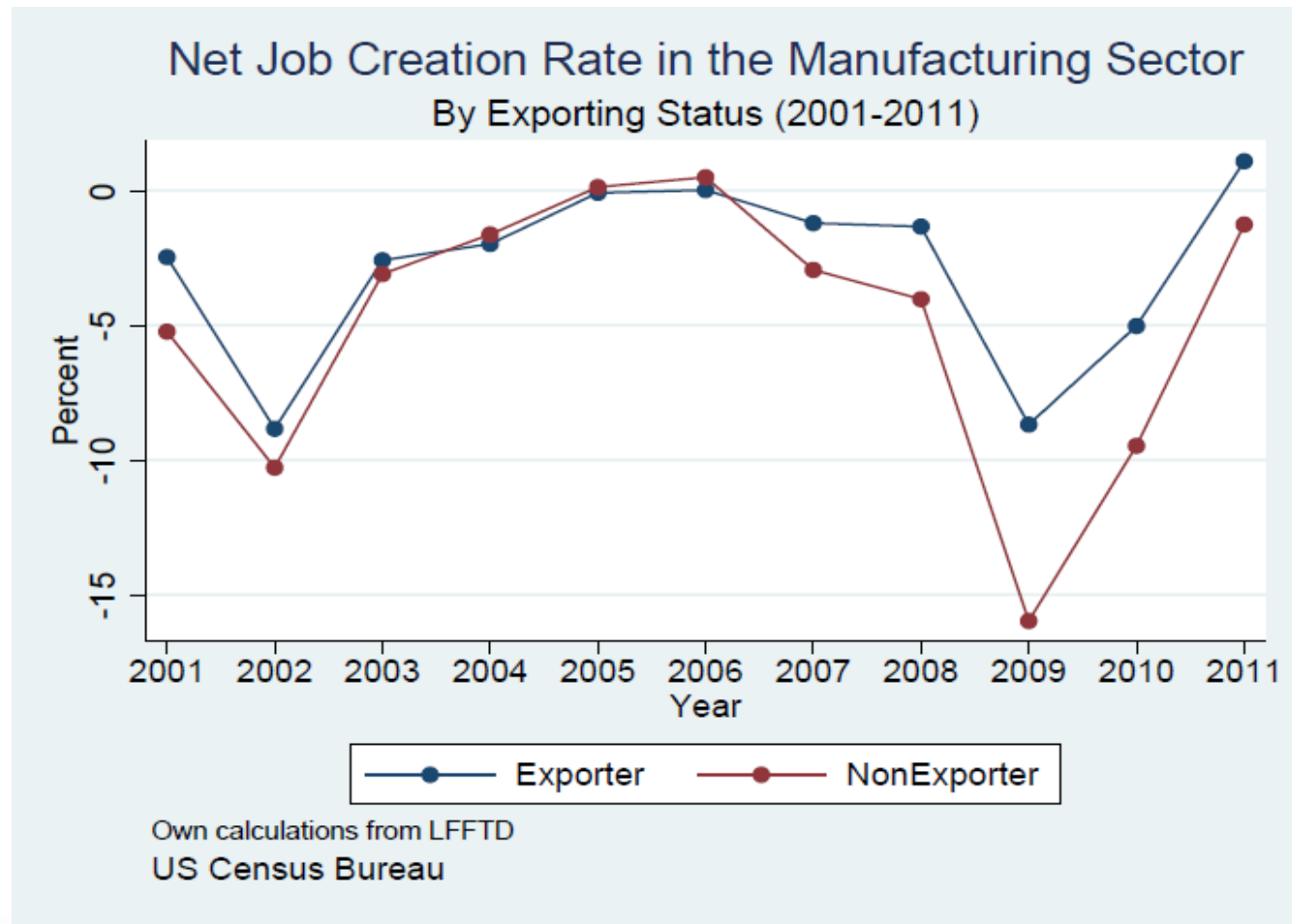
Example 1: Exporters vs Non Exporters



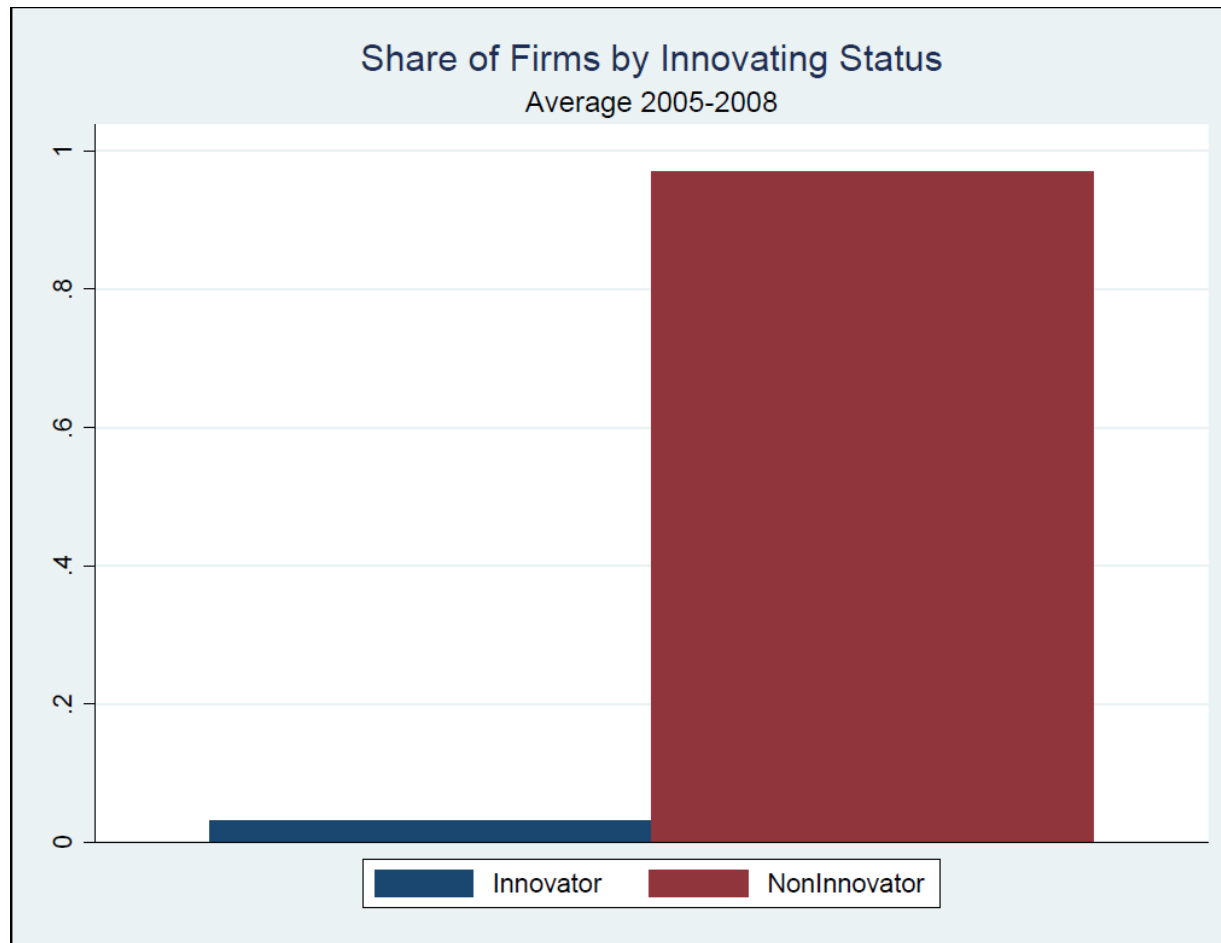
Exporters vs Non Exporters: Employment



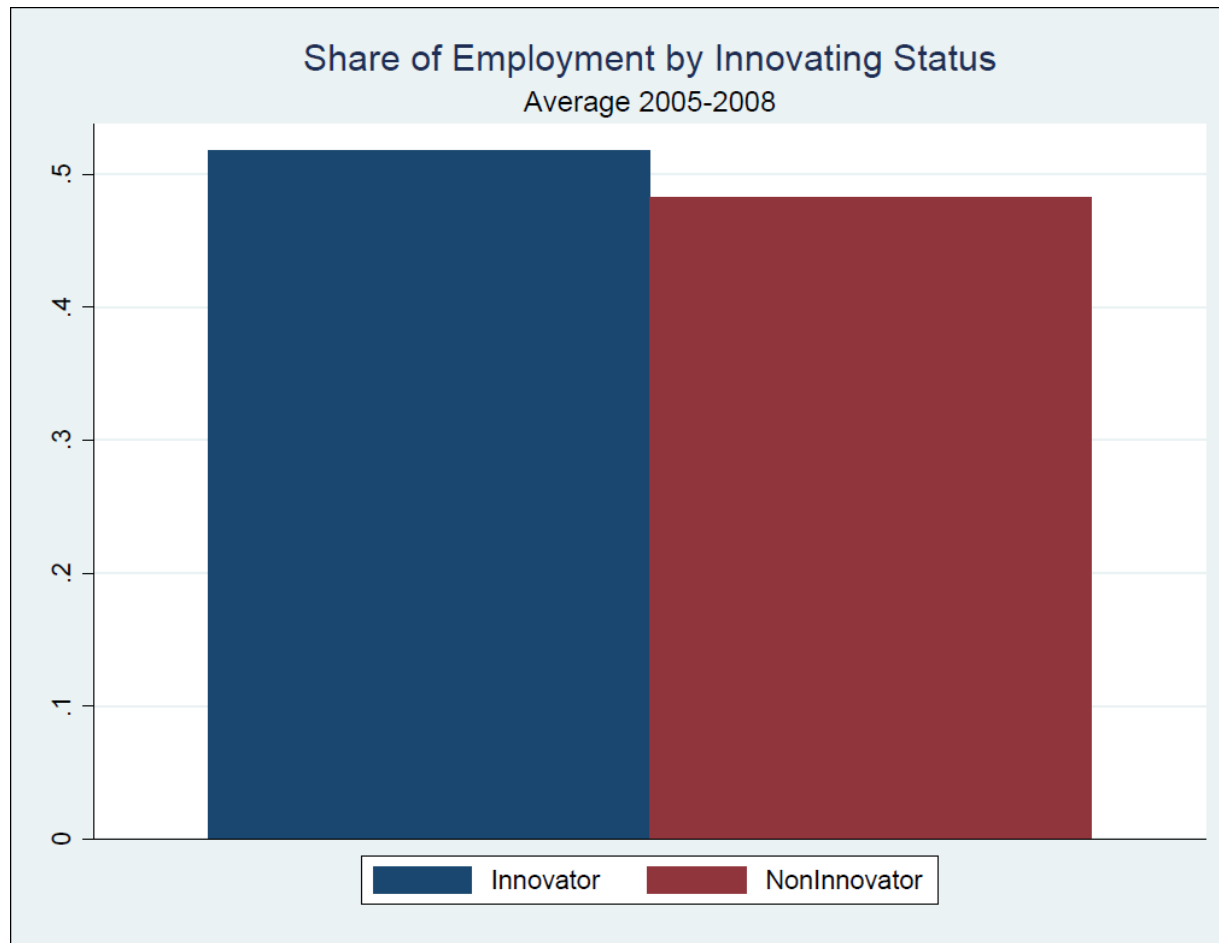
U.S. Manufacturing: Net Job Creation Exporters/Non



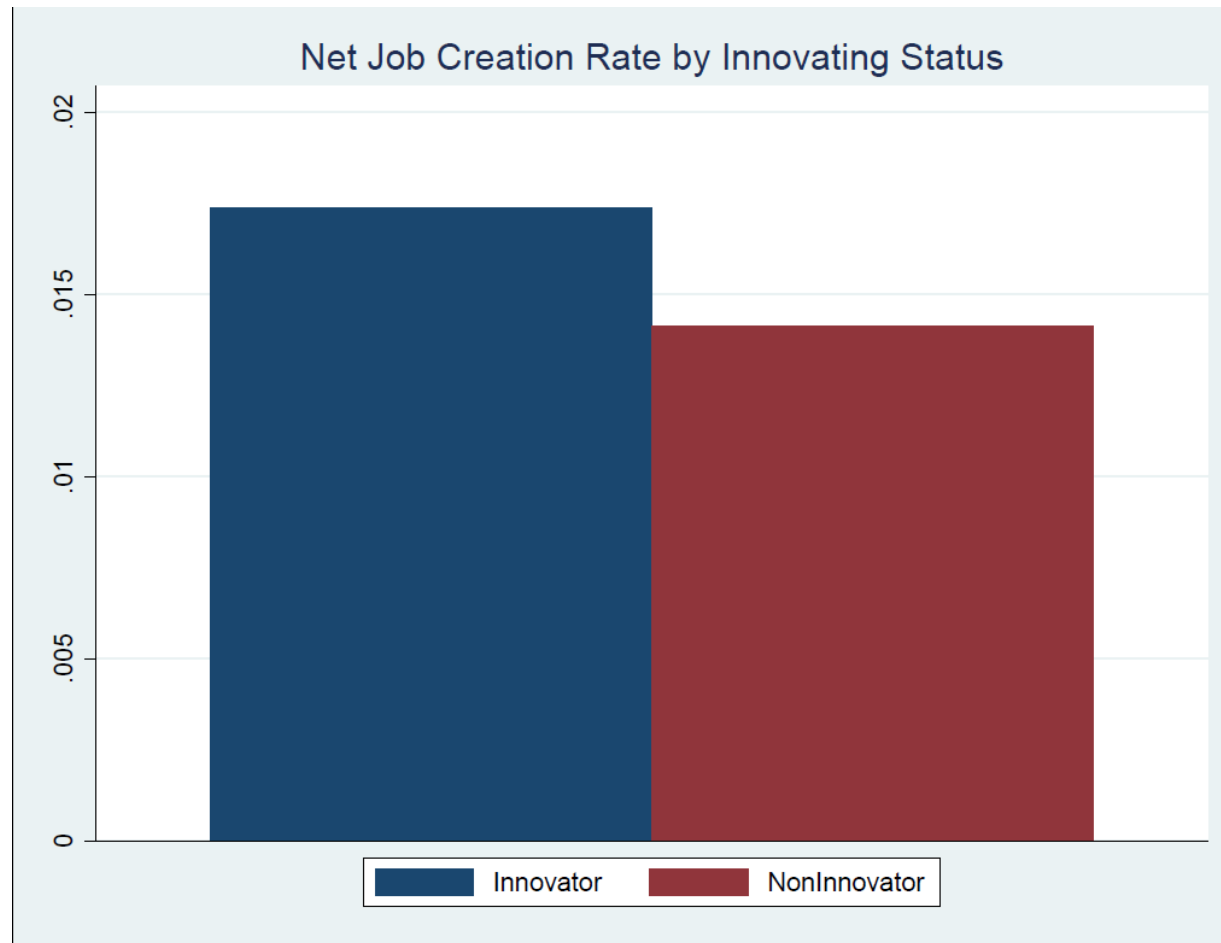
Example 2: Patenting versus non-patenting firms



U.S. Economy: Patenting firms versus others



Net Job Creation Rate: Patenting firms versus others



Frequently requested additions:

- Industry:
 - NAICS rather than current SIC
 - Include detail below sector level (aiming for 4 digit)
- Geography: county level statistics
- Issues: Additional detail means smaller numbers of businesses contributing data to published cells
- Requires changing methods for protecting privacy

More information about LBD and
BDS can be found at

Center for Economic Studies

<http://www.census.gov/ces>

Direct questions to

CES.BDS@census.gov

or

Kristin.McCue@census.gov

Synthetic LBD— public use microdata

- Developed in collaboration with Duke University and the National Institute of Statistical Sciences (NISS)
- Deployed via the Cornell Virtual RDC
<http://www.vrdc.cornell.edu/news/data/lbd-synthetic-data/>
- Information at
<http://www.census.gov/ces/dataproducts/synlbd/index.html>