

## Statistical Appendix

### B Additional Tables

**Appendix Table 1**

OP Contribution by Sector

Sectors	Years									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Manufacture of food products (10)	50.25	52.20	50.37	50.48	53.62	54.12	55.97	55.85	57.47	
Manufacture of beverages (11)	34.19	35.22	34.98	39.78	43.96	49.20	56.02	64.14	61.34	
Manufacture of textiles (13)	37.87	38.66	43.39	39.93	40.40	43.23	44.54	46.93	48.48	
Manufacture of wearing apparel (14)	41.88	44.34	48.34	48.58	50.86	48.44	49.84	48.44	47.77	
Manufacture of leather and related products (15)	32.16	30.87	34.22	37.40	39.70	43.22	43.24	45.97	46.28	
Manufacture of wood and of products of wood and cork, except furniture (16)	35.98	36.18	37.85	35.13	33.64	35.54	37.61	35.98	37.88	
Manufacture of paper and paper products (17)	39.41	38.72	40.40	38.38	45.85	40.77	44.40	46.30	47.74	
Printing and reproduction of recorded media (18)	35.49	36.91	37.21	36.78	37.77	39.68	40.91	40.93	42.60	
Manufacture of chemicals and chemical products (20)	43.55	36.35	40.84	32.91	42.09	40.44	43.38	46.93	40.91	
Manufacture of basic pharmaceutical products and pharmaceutical preparations (21)	11.86	-75.00	8.28	11.47	16.50	3.27	0.66	-1.83	3.88	
Manufacture of rubber and plastic products (22)	30.27	30.71	29.44	29.15	33.15	33.28	36.27	35.58	39.37	
Manufacture of other non-metallic mineral products (23)	51.17	51.94	49.65	48.71	48.00	49.78	50.59	52.08	54.18	
Manufacture of basic metals (24)	41.50	46.35	49.05	40.88	23.66	34.56	39.19	37.74	37.78	
Manufacture of fabricated metal products, except machinery and equipment (25)	31.30	33.21	33.86	34.13	35.35	36.27	37.30	36.88	37.98	
Manufacture of computer, electronic and optical products (26)	38.38	38.50	40.21	39.05	37.24	44.72	48.45	46.12	43.07	
Manufacture of electrical equipment (27)	37.46	40.96	39.47	40.08	42.09	43.36	42.57	45.93	42.33	
Manufacture of machinery and equipment n.e.c. (28)	27.07	28.67	26.08	27.83	28.86	34.37	35.80	35.79	35.74	
Manufacture of motor vehicles, trailers and semi-trailers (29)	0.99	23.11	28.80	13.06	18.19	18.86	34.46	41.07	37.00	
Manufacture of other transport equipment (30)	48.69	44.82	37.71	47.33	51.73	61.11	53.15	69.60	67.19	
Manufacture of furniture (31)	33.40	35.95	34.64	33.55	36.25	36.92	38.56	37.49	41.90	
Other manufacturing (32)	46.04	49.61	49.37	45.49	40.84	47.86	52.57	48.56	49.82	
Repair and installation of machinery and equipment (33)	27.04	25.51	26.04	26.29	29.51	29.30	29.91	28.74	33.16	

Notes: Dependent variables were winsorized at the 5th and 95th percentile across the whole sample.

Aggregate productivity growth expressed in per cent, is the sum of productivity growth in incumbents, entrants and exiting firms. Productivity growth in incumbents is the sum of unweighted average productivity growth and reallocation, expressed in percentage points.

Wholesale and retail trade and repair of motor vehicles and motorcycles (45)	44.12	44.64	43.64	40.15	40.28	40.67	43.15	42.08	44.11
Wholesale trade, except of motor vehicles and motorcycles (46)	33.89	34.65	34.18	33.34	33.92	34.49	35.14	36.61	37.26
Retail trade, except of motor vehicles and motorcycles (47)	19.35	39.97	40.20	40.24	42.40	45.04	45.70	46.79	48.21
Land transport and transport via pipelines (49)	37.22	36.88	38.76	41.76	43.45	44.29	44.95	37.33	44.80
Water transport (50)	69.12	68.01	73.69	73.07	72.05	68.29	64.90	49.37	49.09
Air transport (51)	-23.89	18.34	-0.17	-72.31	-29.34	-137.61	12.82	-127.07	-641.82
Warehousing and support activities for transportation (52)	36.25	30.65	23.14	30.85	34.49	38.40	41.45	43.06	47.48
Accommodation (55)	21.64	21.54	22.03	20.53	20.97	23.77	27.40	28.87	32.10
Food and beverage service activities (56)	17.58	18.86	18.51	19.12	19.56	21.93	24.04	26.29	28.36
Publishing activities (58)	64.24	60.78	60.28	57.45	59.47	65.31	68.56	69.30	69.64
Motion picture, video and television programme production, sound recording and music publishing activities (59)	27.17	23.71	12.21	12.85	32.98	42.00	43.41	47.47	48.13
Programming and broadcasting activities (60)	80.20	84.23	85.19	85.56	83.82	80.53	77.73	80.51	76.02
Computer programming, consultancy and related activities (62)	45.03	40.35	41.23	41.45	33.92	45.28	46.89	41.31	41.45
Information service activities (63)	32.41	31.57	35.97	33.54	31.67	33.67	35.98	37.27	38.49
Legal and accounting activities (69)	17.38	17.52	17.41	14.61	12.94	12.53	13.72	13.70	13.30
Activities of head offices (70)	45.82	44.63	52.33	49.99	44.26	47.49	47.78	34.55	34.81
Architectural and engineering activities (71)	23.11	18.43	20.17	17.94	18.71	19.20	19.14	20.83	22.88
Scientific research and development (72)	46.02	39.65	44.45	42.59	41.62	46.76	52.20	41.68	40.89
Advertising and market research (73)	40.45	38.91	33.39	35.49	33.46	37.42	39.86	37.54	28.30
Other professional, scientific and technical activities (74)	16.62	16.29	17.96	12.53	13.99	16.56	18.49	16.92	18.10
Veterinary activities (75)	0.87	1.67	1.13	0.10	-0.39	0.46	0.14	1.08	0.86
Rental and leasing activities (77)	56.53	59.81	56.75	46.37	46.37	42.61	45.90	52.52	55.32
Employment activities (78)	-111.09	-49.43	-69.62	-50.66	-63.64	-5.23	1.71	-11.46	-16.18
Travel agency, tour operator and other reservation service and related activities (79)	26.71	33.33	34.73	32.83	35.74	36.88	36.72	32.46	35.66
Security and investigation activities (80)	15.56	-26.54	21.75	15.18	22.28	20.09	29.07	37.85	29.44
Services to buildings and landscape activities (81)	-9.88	-12.11	-15.81	-12.96	-23.25	-13.49	7.70	2.72	4.20
Office administrative, office support and other business support activities (82)	28.18	21.67	19.61	16.02	18.76	19.80	19.42	23.47	17.77

**Appendix Table 2**

## The Decomposition of Aggregate Productivity's Dynamics, Excluding Firms with Imputed VA

	Surviving firms		Firm demography			Total
	Average productivity	Reallocation	Entry	Exit	Net	
<b>Manufacturing</b>						
2005--06	2.46	3.80	-1.79	1.66	-0.13	6.1
2006--07	-0.90	2.36	-1.83	1.83	0.00	1.46
2007--08	-6.12	2.27	-1.38	2.24	0.87	-2.99
2008--09	-18.95	4.28	-1.02	2.50	1.48	-13.20
2009--10	6.27	7.50	-1.44	2.30	0.86	14.63
2010--11	-1.12	4.61	-1.79	2.28	0.48	3.97
2011--12	-3.14	2.00	-3.15	0.85	-2.31	-3.45
2012--13	-4.56	5.89	-1.07	1.51	0.45	1.77
<b>Services</b>						
2005--06	-5.55	6.21	-3.83	3.20	-0.63	0.03
2006--07	-1.18	1.28	-3.75	2.97	-0.79	-0.69
2007--08	-6.01	2.05	-2.76	4.25	1.49	-2.47
2008--09	-10.74	1.25	-2.27	3.60	1.33	-8.16
2009--10	-0.80	6.38	-2.85	3.29	0.44	6.02
2010--11	-3.72	2.52	-4.38	3.62	-0.76	-1.96
2011--12	-6.74	0.87	-3.82	2.32	-1.50	-7.37
2012--13	-4.91	4.55	-2.76	3.29	0.53	0.18
<b>Total</b>						
2005--06	-4.30	7.16	-3.36	2.66	-0.70	2.16
2006--07	-1.14	1.74	-3.28	2.64	-0.64	-0.03
2007--08	-6.01	1.97	-2.41	3.69	1.28	-2.76
2008--09	-11.91	0.12	-1.90	3.31	1.41	-10.38
2009--10	0.23	8.38	-2.56	3.03	0.47	9.07
2010--11	-3.34	4.01	-3.84	3.28	-0.56	0.11
2011--12	-6.23	2.19	-4.00	1.90	-2.10	-6.13
2012--13	-4.85	5.10	-2.39	2.85	0.46	0.71

Net demography is defined as the sum of entry and exit.

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**Appendix Table 3**

The Decomposition of the Dynamics of Sales Per Worker

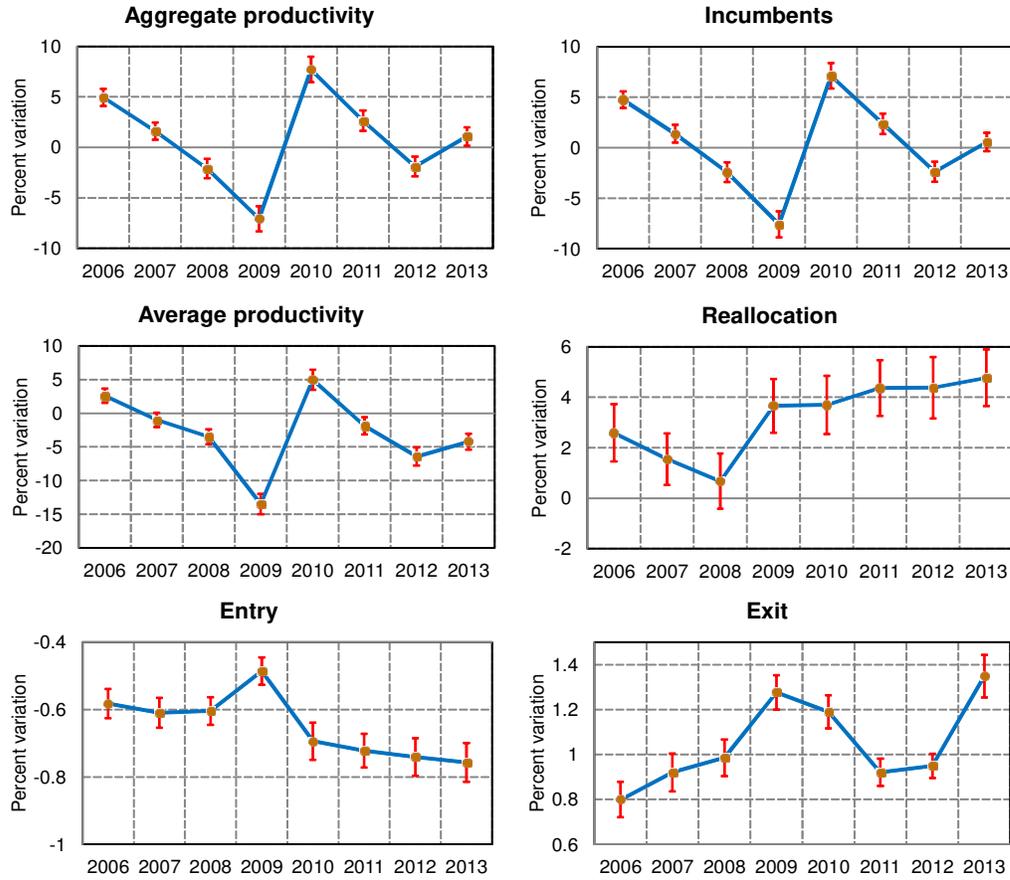
	Surviving firms		Firm demography			Total
	Average sales per worker	Reallocation	Entry	Exit	Net	
<b>Manufacturing</b>						
2005--06	0.58	5.84	-1.07	0.32	-0.75	5.66
2006--07	-0.52	3.86	-1.24	1.39	0.15	3.50
2007--08	0.90	-3.47	-0.15	1.27	1.12	-1.45
2008--09	-9.06	-4.78	-0.67	1.80	1.13	-12.71
2009--10	-13.44	23.27	-1.25	1.70	0.45	10.28
2010--11	-0.51	5.20	-1.39	1.26	-0.12	4.57
2011--12	-8.99	2.73	-1.06	0.35	-0.71	-6.97
2012--13	-2.98	6.48	-1.16	1.49	0.33	3.83
<b>Services</b>						
2005--06	-1.58	2.26	-2.31	1.48	-0.83	-0.15
2006--07	0.53	0.71	-2.98	2.25	-0.73	0.51
2007--08	-3.26	1.04	-1.17	2.32	1.16	-1.07
2008--09	-12.26	0.11	-2.11	3.00	0.89	-11.26
2009--10	-4.02	9.30	-2.73	2.72	-0.01	5.27
2010--11	-3.81	4.39	-3.34	3.48	0.14	0.72
2011--12	-7.37	-6.32	-2.41	1.97	-0.45	-14.14
2012--13	-5.55	12.35	-3.10	3.27	0.17	6.97
<b>Total</b>						
2005--06	-1.27	4.01	-1.95	1.09	-0.86	1.88
2006--07	0.38	1.62	-2.45	1.99	-0.46	1.54
2007--08	-2.63	0.22	-0.89	2.01	1.12	-1.30
2008--09	-11.67	-1.20	-1.66	2.64	0.98	-11.89
2009--10	-5.59	12.39	-2.34	2.42	0.08	6.89
2010--11	-3.28	5.34	-2.81	2.81	0.00	2.06
2011--12	-7.65	-3.45	-2.12	1.50	-0.62	-11.73
2012--13	-5.13	10.71	-2.57	2.79	0.22	5.80

Net demography is defined as the sum of entry and exit.

## C Additional Figures

### Appendix Chart 1

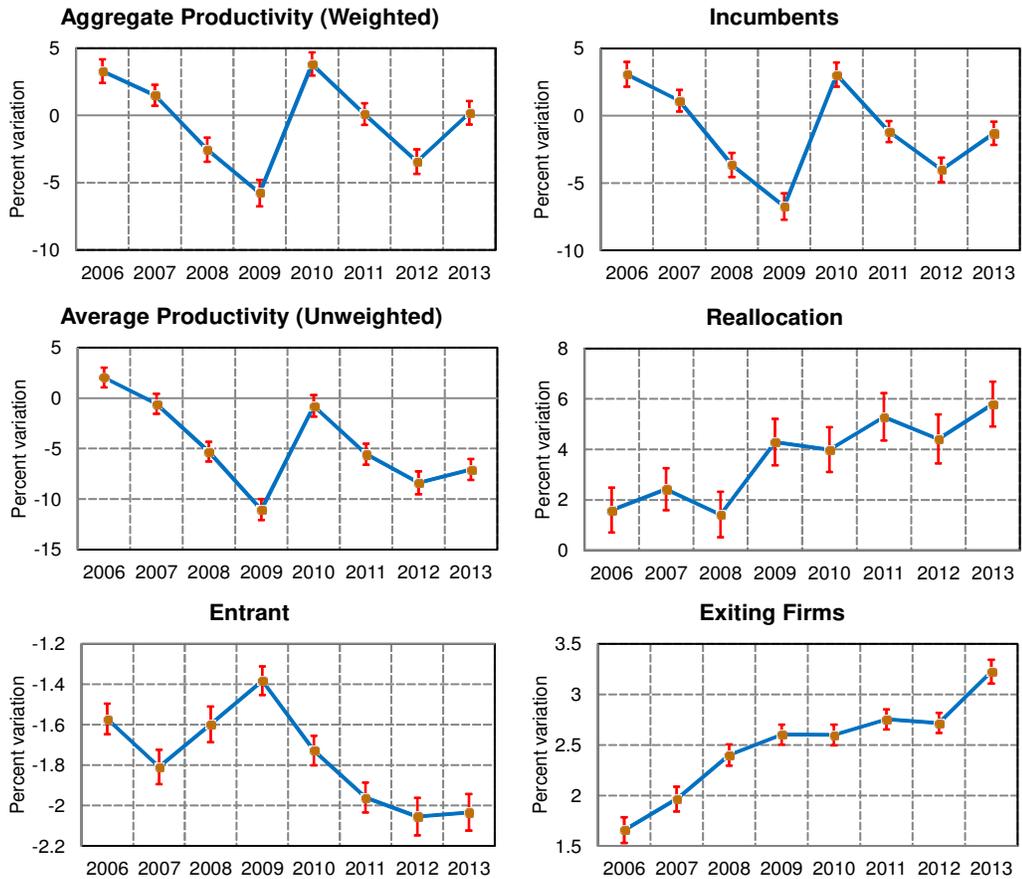
The Decomposition of Productivity Dynamics, Net of Sectoral Fixed Effects -  
Manufacturing Firms Only



Dependent variables were winsorized at the 5th and 95th percentile across the whole sample.

## Appendix Chart 2

The Decomposition of Productivity Dynamics, Net of Sectoral Fixed Effects - Service Firms Only



Notes: Dependent variables were winsorized at the 5th and 95th percentile across the whole sample.

Aggregate productivity growth expressed in per cent, is the sum of productivity growth in incumbents, entrants and exiting firms in percentage points. Productivity growth in incumbents is the sum of unweighted average productivity growth and reallocation, expressed in percentage points.

### Appendix Chart 3

Comparison Between the Dynamics of VA per Worker and Sales Per Worker

a) Manufacturing

b) Services

