"Job Churn – Productivity and Pay in Flux" Presentation based the OECD Compendium of Productivity Indicators 2019

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Agenda

Closer look at some of the data in OECD Compendium of Productivity Indicators.

Employment has recovered in most OECD countries since the financial crisis, but wages have not. The latter seems to be primarily an Inter-sectoral rather than intra-sectoral issue in the data.

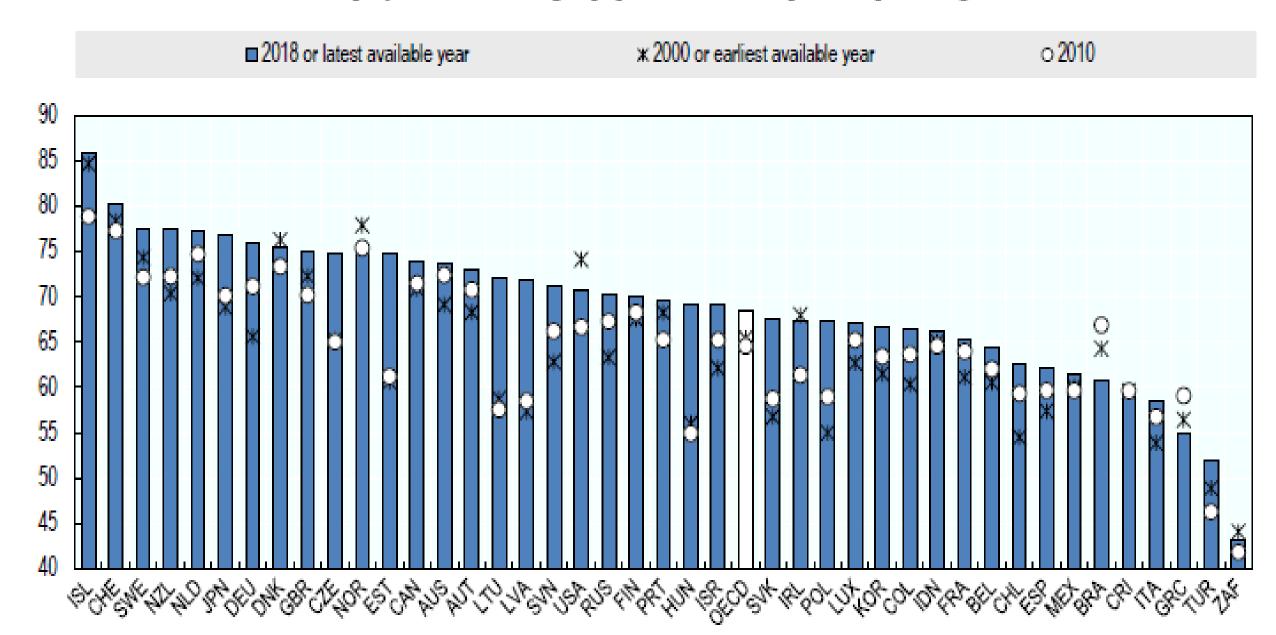
Possible factors. Labour share, has been falling since long before in many countries, while at the same time Industry concentration has increasied.

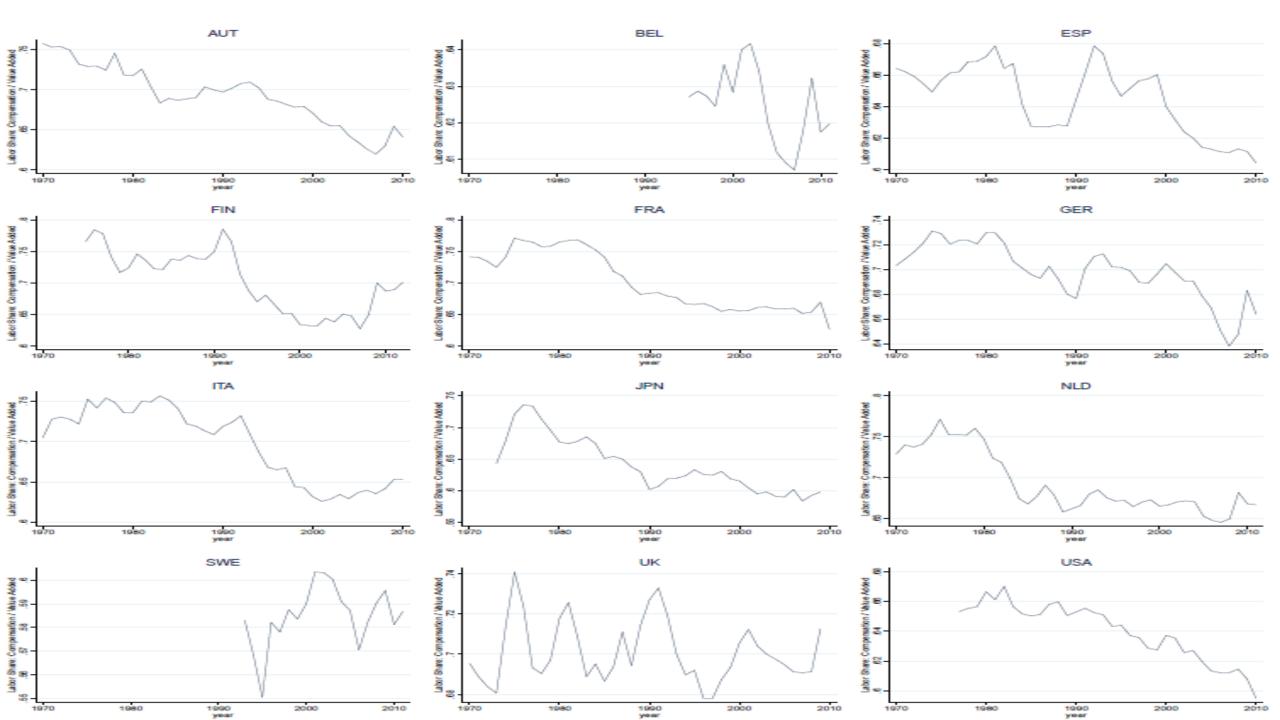
Oligopolistic Markets with Monosony power.



Employment rates OECD

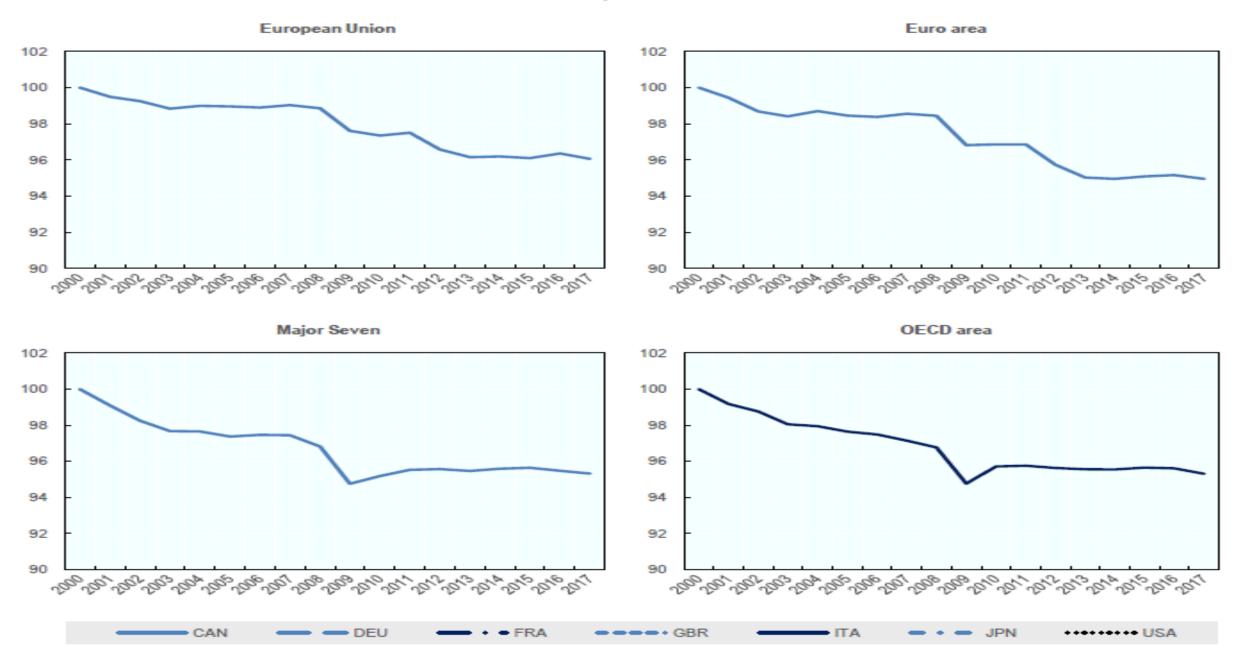
Employment to 15-64 aged population ratio, all persons, percentage



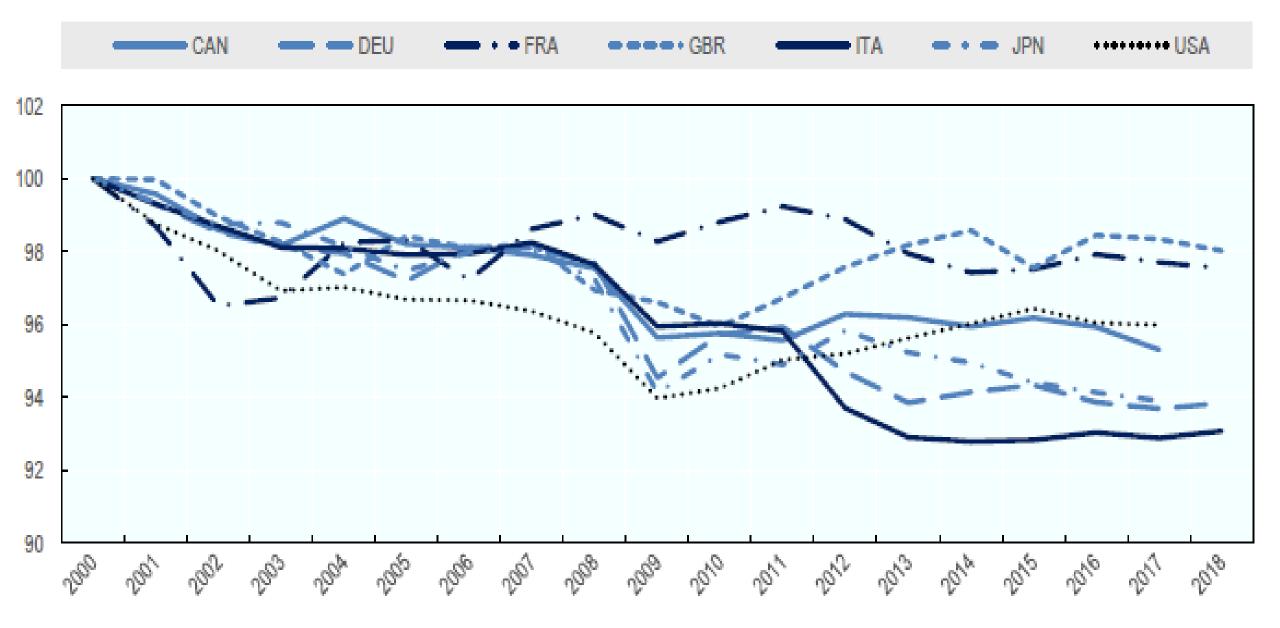


Average hours worked per worker

Indices, 2000=100



Average hours worked per worker continued.



Source: OECD Productivity Statistics (database), http://dx.doi.org/10.1787/pdtvy-data-en, March 2019.

Net employment creation 2010 to 2017

Country	Sectors with largest net job creation between 2010 and 2017	Jobs created (net), in number of persons	Net job creation in the sector, % of total net job creation between 2010 and 2017	Labour productivity of the sector in 2010, % of total economy labour productivity	Compensation per employee in the sector in 2010, % of compensation per employee in the economy
AUT	I_55_56 (Accommodation and food service activities)	38 600	10%	75%	66%
	P85 (Education)	36 200	9%	84%	117%
	Q_87_88 (Residential care activities; social work activities without accommodation)	33 400	9%	42%	69%
BEL	M_69_70 (Legal and account activities; activities of head offices; management consultancy activities)	55 300	16%	102%	178%
	N_80_82 (Security and investigation; services to buildings and landscape; office administrative and support)	51 200	15%	50%	79%
	Q_87_88 (Residential care activities; social work activities without accommodation)	48 400	14%	48%	86%
CAN	G47 (Retail trade, except of motor vehicles and motorcycles)	141 450	18%	43%	52%
	F_41_42_43 (Construction)	132 350	17%	97%	114%
	I_55_56 (Accommodation and food service activities)	56 200	7%	32%	42%
CZE	C29 (Manufacture of motor vehicles, trailers and semi-trailers)	53 900	12%	147%	115%
	P85 (Education)	37 400	8%	76%	105%
	C25 (Manufacture of fabricated metal products, except machinery and equipment)	33 900	8%	72%	89%
DEU	Q86 (Human health activities)	434 000	14%	77%	94%
	Q_87_88 (Residential care activities; social work activities without accommodation)	426 000	14%	37%	59%
	N_80_82 (Security and investigation; services to buildings and landscape; office administrative and support)	257 000	8%	39%	50%
ESP	I_55_56 (Accommodation and food service activities)	185 600	19%	93%	87%
	J_62_63 (Computer programming, consultancy and related activities; information service activities)	93 200	10%	114%	137%
	S96 (Other personal service activities)	74 700	8%	44%	53%
FRA	Q86 (Human health activities)	141 000	11%	86%	95%
	N78 (Employment activities)	137 000	11%	52%	79%
	Q_87_88 (Residential care activities; social work activities without accommodation)	135 000	11%	46%	66%
GBR	I_55_56 (Accommodation and food service activities)	379 800	12%	40%	47%
	N_80_82 (Security and investigation; services to buildings and landscape; office administrative and support)	282 400	9%	43%	49%
	M_69_70 (Legal and account activities; activities of head offices; management consultancy activities)	265 800	8%	94%	93%

Net employment creation 2010 to 2017 continued:

C29 (Manufacture of motor vehicles, trailers and semi-trailers)

I_55_56 (Accommodation and food service activities)

I_55_56 (Accommodation and food service activities)

I_55_56 (Accommodation and food service activities)

Q 86 87 88 (Human health and social work activities)

M_69_to_75 (Professional, scientific and related activities)

O84 (Public administration and defence; compulsory social activity)

J_62_63 (Computer programming, consultancy and related activities; information service activities)

N_80_82 (Security and investigation; services to buildings and landscape; office administrative and

Q 87 88 (Residential care activities: social work activities without accommodation)

Q_87_88 (Residential care activities; social work activities without accommodation)

Countr

HUN

ITA

NLD

POL

PRT

SWE

USA.

support)

P85 (Education)

	Net employment creation 2010 to 2017 continued.			
itry	Sectors with largest net job creation between 2010 and 2017	Jobs created (net), in number of persons	Net job creation in the sector, % of total net job creation between 2010 and 2017	Labour productivity of the sector in 2010, % of total economy labour productivity
	O84 (Public administration and defence; compulsory social activity)	68 300	9%	102%
	M_69_70 (Legal and account activities; activities of head offices; management consultancy activities)	64 300	9%	152%
	G46 (Wholesale trade, except of motor vehicles and motorcycles)	62 000	9%	162%
	I_55_56 (Accommodation and food service activities)	218 400	20%	68%
	T_97_98 (Activities of households as employers; production activities of private households for own use)	102 700	10%	21%
	N78 (Employment activities)	97 900	9%	46%
	N78 (Employment activities)	208 000	35%	41%
	I_55_56 (Accommodation and food service activities)	78 000	13%	39%
	G47 (Retail trade, except of motor vehicles and motorcycles)	44 000	7%	43%

Compensation per employee in the sector. in 2010, % of

compensation per employee in the

economy

119%

205%

176%

76%

35% 75%

61%

44%

45%

86%

146%

158%

70%

79%

65%

82%

75%

63%

82%

44%

196%

96%

93%

156%

51%

85%

50%

55%

54%

44%

55%

36%

146%

90 000

82 000

78 000

26 300

24 550

24 600

85 000

55 000

49 000

1 682 000

1 388 000

1 286 000

7%

7%

6%

14%

13%

13%

19%

12%

11%

13%

11%

10%

	Net employment destruction 2010 to 2017		
Country	Sectors with largest net job destruction between 2010 and 2017		
AUT	A01 (Crop and animal production, hunting and related service activities)		
	K64 (Financial service activities, except insurance and pension funding)		
	C_31_32 (Manufacture of furniture, other manufacturing)		
BEL.	K64 (Financial service activities, except insurance and pension funding)		
	C_13_15 (Manufacture of textiles, wearing apparel; leather and related products)		
	C29 (Manufacture of motor vehicles, trailers and semi-trailers)		
CAN	N_80_82 (Security and investigation; services to buildings and landscape; office administrative and support)		
	O84 (Public administration and defence; compulsory social activity)		
	C_13_15 (Manufacture of textiles, wearing apparel; leather and related products)		

CZE

DEU

ESP

FRA

GBR:

F_41_42_43 (Construction)

J58 (Publishing activities)

F 41 42 43 (Construction)

F_41_42_43 (Construction)

G47 (Retail trade, except of motor vehicles and motorcycles)

O84 (Public administration and defence; compulsory social activity)

O84 (Public administration and defence: compulsory social activity)

A01 (Crop and animal production, hunting and related service activities)

K64 (Financial service activities, except insurance and pension funding)

O84 (Public administration and defence: compulsory social activity)

C18 (Printing and reproduction of recorded media)

K64 (Financial service activities, except insurance and pension funding)

G45 (Wholesale and retail trade and repair of motor vehicles and motorcycles)

T_97_98 (Activities of households as employers; production activities of private households for own use)

T_97_98 (Activities of households as employers; production activities of private households for own use)

Net job

destruction

in the

sector, %

of total net

iole

destruction

between

2010 and

20047

43%

14%

7%

9%

8%

7%

19%

11%

7%

46%

18%

7%

36%

10%

8%

46%

7%

5%

19%

8%

8%

58%

14%

7%

Jobs:

destroyed

(net), in

number

persons

-28.850

-9 500

-4600

-8 800

-7.600

-6800

-21750

-12.350

-7.560

-69 150 -27 300

-9 900

-173000

-47000

-41 000

-512 300

-76 400

-59 400

-101 000

-44000

-42000

-259 100

-61 200

-31 200

Labour

productivity

of the

sector in

2010, % of

total

economy

labour

productivity

24%

168%

78%

297%

81%

113%

51%

115%

54%

74%

55%

109%

95%

99%

43%

107%

28%

235%

88%

77%

29%

99%

297%

75%

Compensation

per employee

in the sector

in 2010, % of

compensation.

per employee

in the

economy

46%

169%

84%

212%

99%

142%

73%

141%

75%

86%

69%

127%

124%

95%

54%

104%

44%

214%

102%

91%

58%

119%

231%

92%

	Net employment destruction 2010 to 2017 continued	
Country	Sectors with largest net job destruction between 2010 and 2017	d
HUN	A01 (Crop and animal production, hunting and related service activities)	
	H49 (Land transport and transport via pipelines)	
	C13_15 (Manufacture of textiles, wearing apparel; leather and related products)	
ITA	F_41_42_43 (Construction)	
	O84 (Public administration and defence; compulsory social activity)	
	C23 (Manufacture of other non-metallic mineral products)	
NLD	F_41_42_43 (Construction)	
	Q_87_88 (Residential care activities; social work activities without accommodation)	

O84 (Public administration and defence; compulsory social activity)

F 41 42 43 (Construction)

F_41_42_43 (Construction)

A01 (Crop and animal production, hunting and related service activities)

A01 (Crop and animal production, hunting and related service activities)

O84 (Public administration and defence: compulsory social activity)

O84 (Public administration and defence; compulsory social activity)

C26 (Manufacture of computer, electronic and optical products)

C19 (Manufacture of coke and refined petroleum products)

C26 (Manufacture of computer, electronic and optical products)

C28 (Manufacture of machinery and equipment n.e.c.)

C17 (Manufacture of paper and paper products)

C_13_15 (Manufacture of textiles, wearing apparel; leather and related products)

POL

PRT

SWE

USA

Net job

destruction

in the

sector, %

of total net

jolo

destruction

between.

2010 and

2017

19%

13%

11%

35%

13%

6%

20%

14%

13%

65%

10%

7%

39%

25%

7%

29%

11%

7%

80%

18%

Jobs:

destroyed

(net), in

number

persons

-29250

-20.400

-17.460

-354400

-131 100

-57 500

-54 000

-38 000

-36 000

-319 000

-50 000

-32 000

-159900

-103 500

-29 900

-22 000

-8000

-5 000

-296000

-66 000

-100000

Labour

productivity

of the

sector in

2010, % of

total

economy

labour

productivity

49%

64%

29%

73%

130%

87%

90%

40%

128%

20%

107%

40%

65%

15%

129%

276%

125%

157%

148%

384%

670%

Compensation

per employee

in the sector

in 2010, % of

compensation

per employee

in the

economy

63%

69%

41%

91%

148%

103%

120%

68%

137%

86%

89%

48%

75%

44%

159%

144%

108%

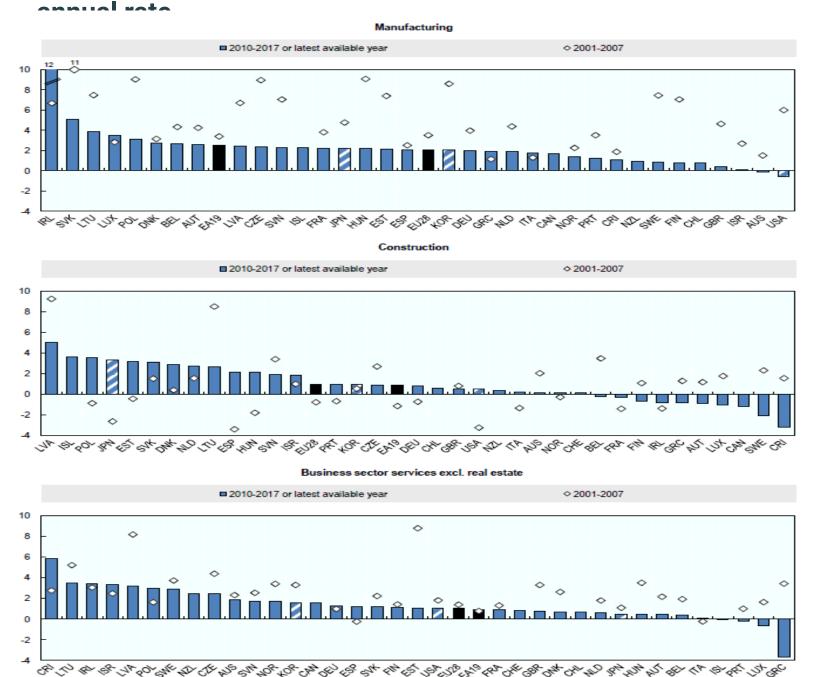
128%

184%

328%

144%

Labour productivity by main economic activity. Real gross value added per hour worked, change at

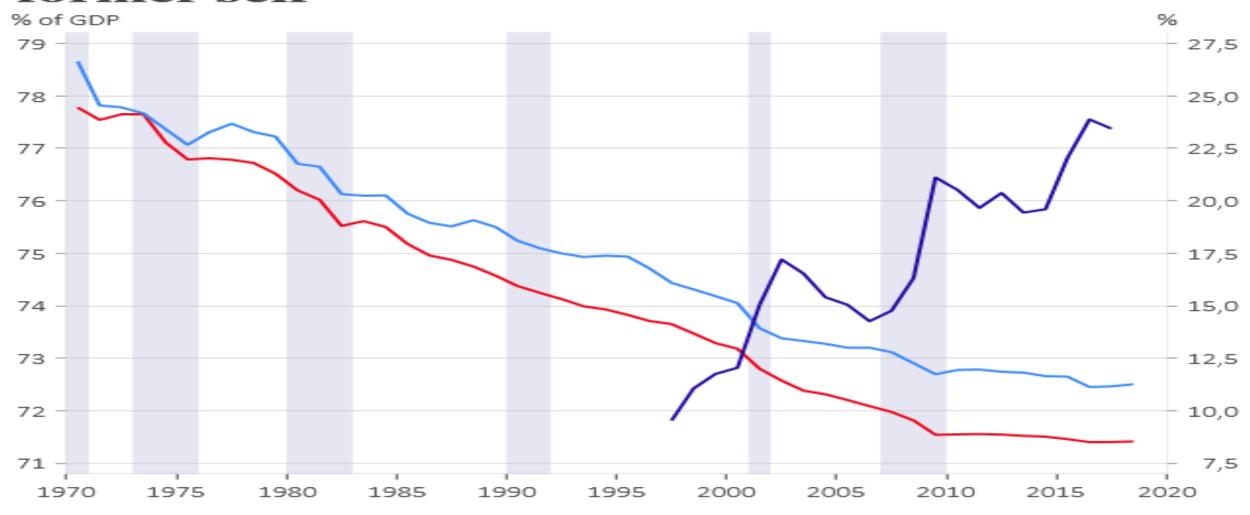


OECD labour productivity growth almost entirely driven by Manufacturing and Business sector services. For the prior it reflects typically higher productivity growth, for the latter also the strong increase in the share of the overall economy. Currently BSS is about 35-50% of total value added and employment (excl real estate.) across the OECD.



Macrobond 8.11.19 newsletter on US recession. Manufacturing left hand scale/Services right

US Manufacturing is but a shadow of its former self



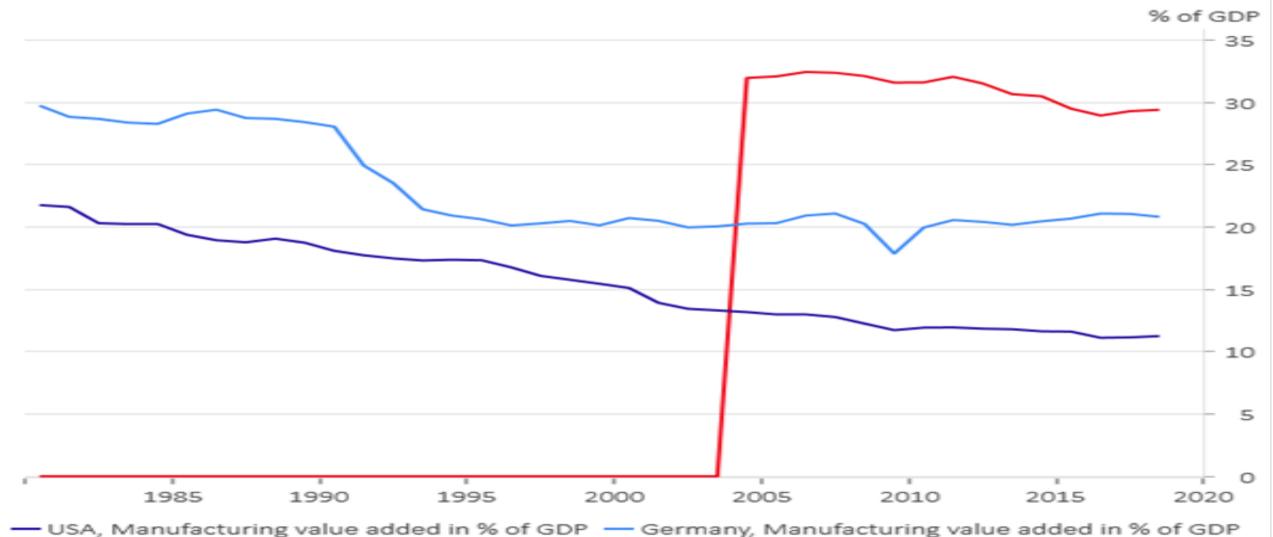
— Services value added in % of GDP, Ihs — Manufacturing value added in % of GDP, rhs

- Manufacturing payroll in % of total non-farm payroll, rhs

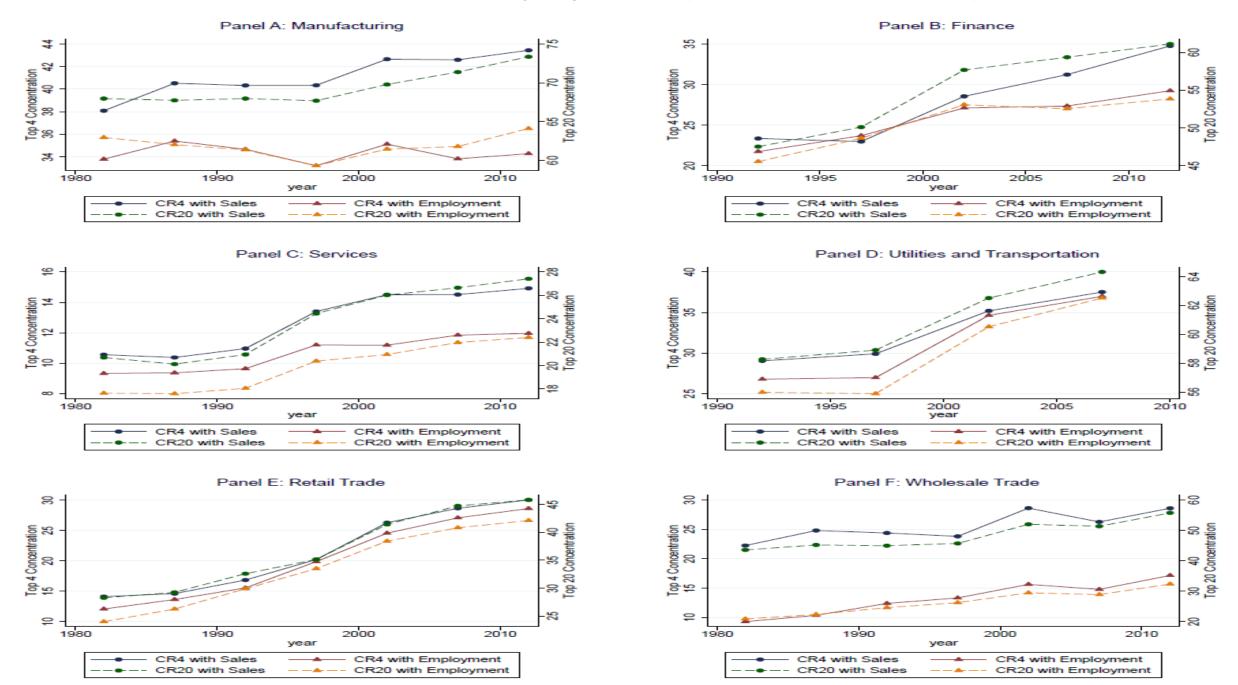
Macrobond 8.11.19 newsletter on US recession. Continued:

China, Manufacturing value added in % of GDP

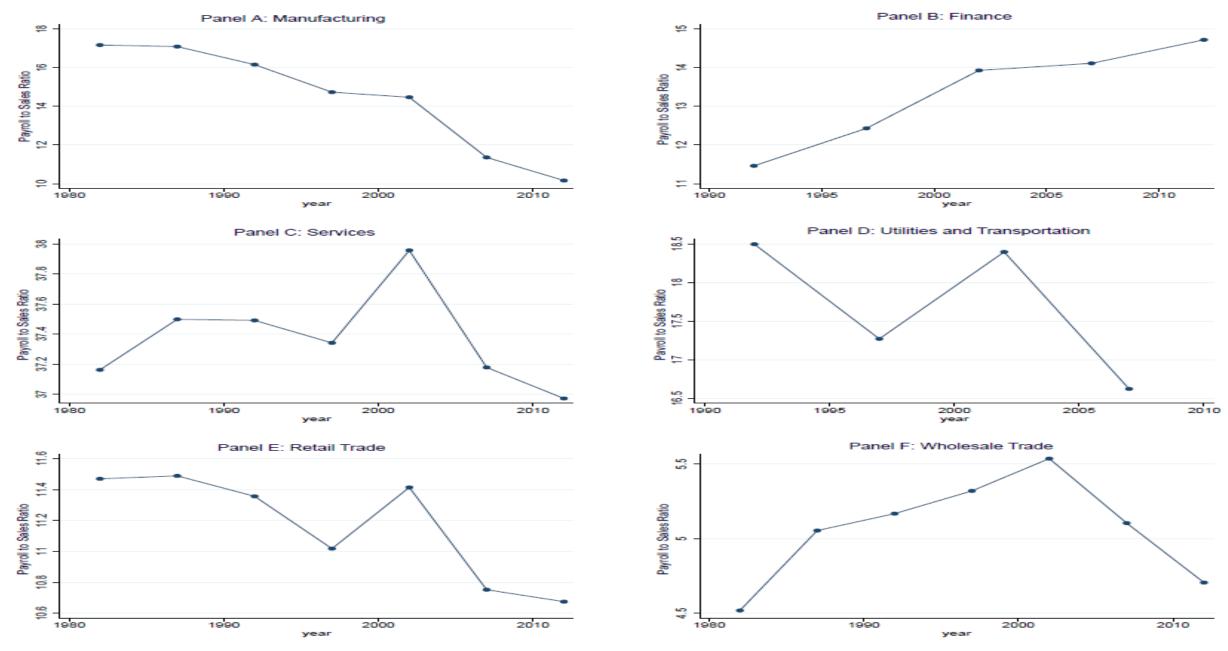
Manufacturing remains important, but less so in the US



Average Concentration across Industries by major sector (U.S. from Autor et al 2019)



Average Payroll to sales (U.S. from Autor et al 2019)



Notes: Each panel plots the overall payroll-to-sales ratio in one of the six major sectors covered by the U.S. Economic Census.

Previous Tables from Autor et al 2019 are from:

THE FALL OF THE LABOR SHARE AND THE RISE OF SUPERSTAR FIRMS

David Autor
David Dorn
Lawrence F. Katz
Christina Patterson
John Van Reenen

Working Paper 23396

Table 1 and 2 on the next page are from the paper below, and based on the U.S. Census Longitudinal survey (including all sectors except public, educational & mining).

The Industrial Revolution in Services *

Chang-Tai Hsieh University of Chicago and NBER Esteban Rossi-Hansberg Princeton University and NBER



Table 2: Employment Share of Top 10% Firms

1977	1987	1997	2007	2013
67.0%	67.4%	69.2%	71.6%	72.4%

Note: Geometric average of employment share of top 10% firms in 450 industries, veighted by industry employment share.



ISO Codes for country names.			
AUS	Australia	IRL	Ireland
AUT	Austria	ISL	Iceland
BEL	Belgium	ISR	Israel
BRA	Brazil	ITA	Italy
CAN	Canada	JPN	Japan
CHE	Switzerland	KOR	Korea
CHL	Chile	LTU	Lithuania
CHN	China (People's Republic of)	LUX	Luxembourg
COL	Colombia	LVA	Latvia
CRI	Costa Rica	MEX	Mexico
CZE	Czech Republic	NLD	Netherlands
DEU	Germany	NOR	Norway
DNK	Denmark	NZL	New Zealand
ESP	Spain	POL	Poland
EST	Estonia	PRT	Portugal
FIN	Finland	RUS	Russian Federation
FRA	France	SVK	Slovak Republic
GBR	United Kingdom	SVN	Slovenia
GRC	Greece	SWE	Sweden
HUN	Hungary	TUR	Turkey
IDN	Indonesia	USA	United States
IND	India	ZAF	South Africa

Takk, dêkuji, kiitos, merci, danke, efharisto, dziekuje, gracias, thank you.

