

Appendix Tables and Charts for “The Mystery of TFP”¹

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¹ Oulton, Nicholas (2016) “The Mystery of TFP,” *International Productivity Monitor*, Number 31, Fall, pp. 68-87, <http://www.csls.ca/ipm/31/oulton.pdf>.

Table 1
The 18 Countries in the EU KLEMS Dataset for which TFP data are Available

<i>Code</i>	<i>Country name</i>	<i>First year</i>	<i>Last year</i>	<i>Number of years</i>
AUS	Australia	1983	2007	25
AUT	Austria	1981	2007	27
BEL	Belgium	1981	2006	26
CZE	Czech Republic	1996	2007	12
DNK	Denmark	1981	2007	27
ESP	Spain	1981	2007	27
FIN	Finland	1971	2007	37
FRA	France	1981	2007	27
GER	Germany	1992	2007	16
HUN	Hungary	1996	2007	12
IRL	Ireland	1989	2007	19
ITA	Italy	1971	2007	37
JPN	Japan	1974	2006	33
NLD	Netherlands	1980	2007	28
SVN	Slovenia	1996	2006	11
SWE	Sweden	1994	2007	14
UK	United Kingdom	1971	2007	37
USA	United States	1978	2007	30

Source: EU KLEMS, March 2011 update of the November 2009 release (www.euklems.net).

Note: The first and last years mark the period for which data on TFP growth are available for each country. TFP appears in EU KLEMS in level form so one year is lost in taking growth rates.

Table 2
Sectors of NACE, Revision 1

<i>Sector code</i>	<i>Sector description</i>	<i>Value added share of GDP, %</i>	<i>Share of total (whole economy) hours, %</i>
A & B	Agriculture, hunting and forestry. Fishing	4.3	8.3
C	Mining & quarrying	1.4	0.5
D	Manufacturing	22.1	21.1
E	Electricity, gas & water	2.4	0.9
F	Construction	6.6	8.0
G	Wholesale & retail trade; repair of motor vehicles, motorcycles, and personal and household goods	11.9	15.3
H	Hotels & restaurants	2.4	4.1
I	Transport, storage and communications	7.3	6.6
J	Financial intermediation	5.1	2.9
K (exc. 70)	Business services	7.1	7.0
L	Public administration & defence; compulsory social security	6.5	6.5
M	Education	5.0	5.3
N	Health & social work	6.1	7.8
O	Other community, social and personal services activities	3.3	4.0
P	Activities of private households as employers and undifferentiated production activities of private households	0.3	1.0
Q	Extraterritorial organisations and bodies	0.0	0.0
70	Real estate	8.2	0.9
A-K (exc. 70)	Market sector	70.6	74.6
A-Q	Whole economy (GDP)	100.0	100.0

Source EU KLEMS, March 2011 update of the November 2009 release (www.euklems.net).

Note 10 sectors, A-K (exc. industry 70, real estate), make up my definition of the market sector. Shares of GDP and total hours worked are means across 18 countries and time (maximum span is 1970-2007). Official name of sector K (including real estate) is “Renting and business activities”.

Table 3

Contribution of Each Sector to the Effect of Structural Change on TFP Growth, by Country (TFP growth in business services set equal to market sector rate)

<i>Country</i>	<i>Sectors</i>										<i>Total</i>
	A&B	C	D	E	F	G	H	I	J	K	
Australia	-0.09	0.00	-0.04	-0.01	0.00	0.04	-0.01	0.01	0.04	0.04	-0.01
Austria	-0.13	0.01	-0.03	0.04	0.01	0.01	0.00	0.06	0.00	0.15	0.13
Belgium	-0.04	0.01	0.00	-0.01	-0.01	-0.09	-0.01	0.02	0.04	0.05	-0.05
Czech Republic	-0.04	0.01	0.24	0.04	0.01	0.05	0.07	-0.02	0.02	0.03	0.40
Denmark	-0.15	0.25	0.00	0.00	0.00	-0.02	0.00	0.07	0.08	0.06	0.31
Spain	-0.15	0.00	-0.05	-0.01	-0.01	-0.02	-0.04	0.00	0.02	0.01	-0.24
Finland	-0.31	0.00	0.15	0.00	0.00	0.04	-0.01	0.06	0.06	0.18	0.18
France	-0.08	0.02	-0.06	0.02	0.00	0.04	-0.03	0.07	0.00	0.11	0.08
Germany	-0.02	-0.01	0.05	0.01	0.04	0.00	0.01	0.06	-0.01	0.04	0.15
Hungary	-0.21	-0.01	0.22	-0.01	0.00	0.01	0.00	0.04	0.04	0.07	0.16
Ireland	-0.18	0.01	-0.09	0.01	-0.05	-0.05	0.00	0.00	0.43	0.08	0.13
Italy	-0.27	0.00	0.04	-0.01	0.01	0.02	-0.05	0.09	-0.06	0.06	-0.17
Japan	-0.01	0.00	-0.23	0.02	0.04	0.05	-0.03	0.03	0.08	0.09	0.02
Netherlands	-0.06	0.06	-0.09	0.00	0.01	0.06	0.00	0.04	0.00	0.07	0.08
Slovenia	-0.10	-0.03	-0.03	-0.01	0.00	-0.01	0.00	-0.02	0.00	0.03	-0.17
Sweden	-0.04	-0.01	0.13	0.01	0.00	0.02	0.00	0.00	0.03	0.09	0.25
United Kingdom	-0.06	-0.03	-0.44	0.00	0.01	0.00	-0.01	0.07	-0.04	0.16	-0.33
United States	-0.06	0.00	-0.26	0.00	0.01	-0.01	0.00	0.00	-0.12	0.09	-0.37
<i>Mean</i>	<i>-0.11</i>	<i>0.02</i>	<i>-0.03</i>	<i>0.01</i>	<i>0.00</i>	<i>0.01</i>	<i>-0.01</i>	<i>0.03</i>	<i>0.03</i>	<i>0.08</i>	<i>0.03</i>

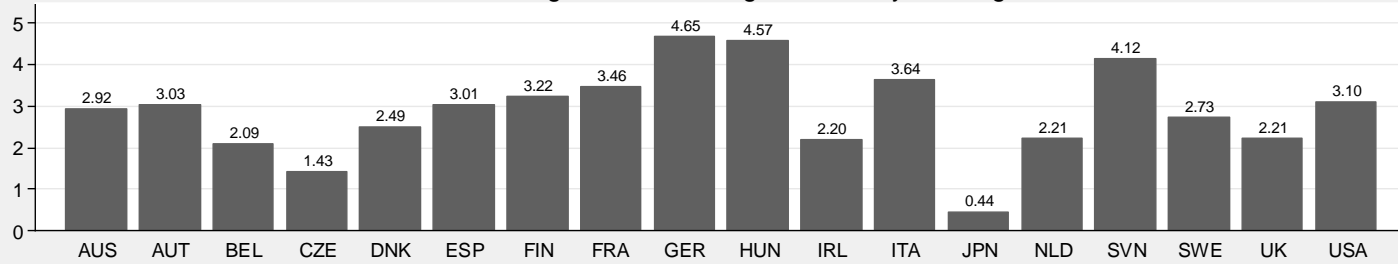
Source EU KLEMS, March 2011 update of the November 2009 release (www.euklems.net) and own calculations.

Note See text and note to Table 4. The rightmost column here is the same as column (9) of Table 4.

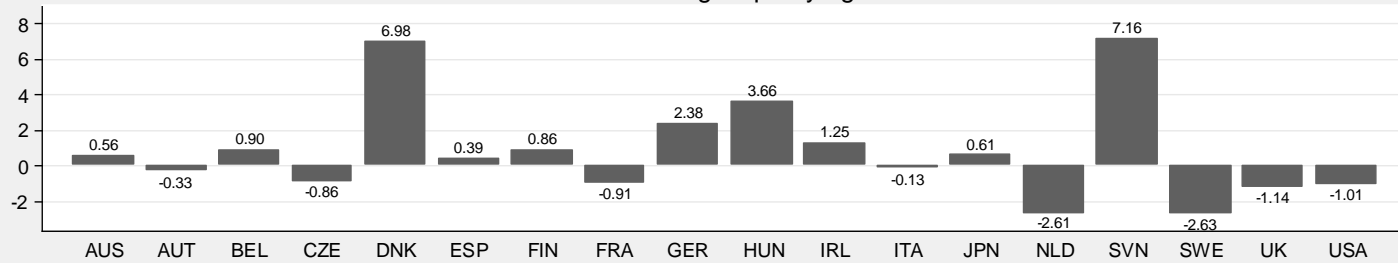
Chart 1

Mean TFP growth rates, 18 countries, % p.a., by sector

A & B: Agriculture, hunting and forestry. Fishing



C: Mining & quarrying



D. Manufacturing

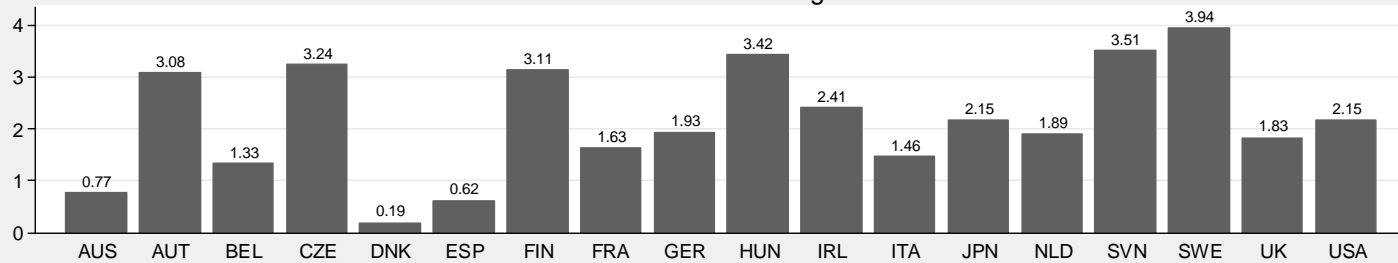
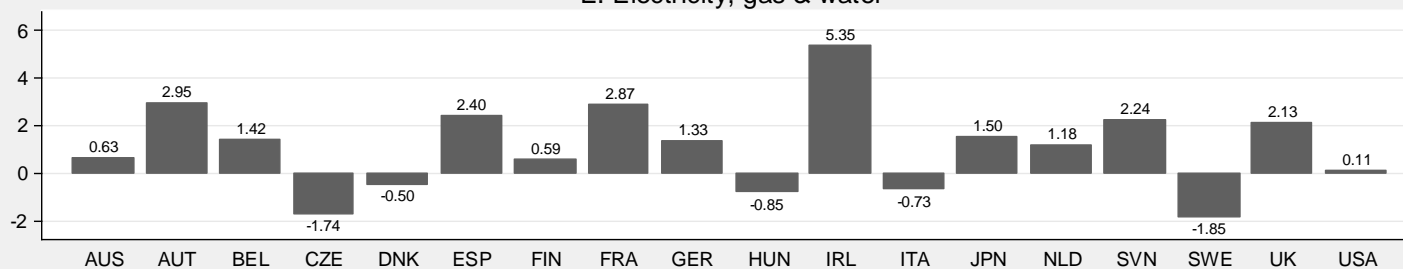


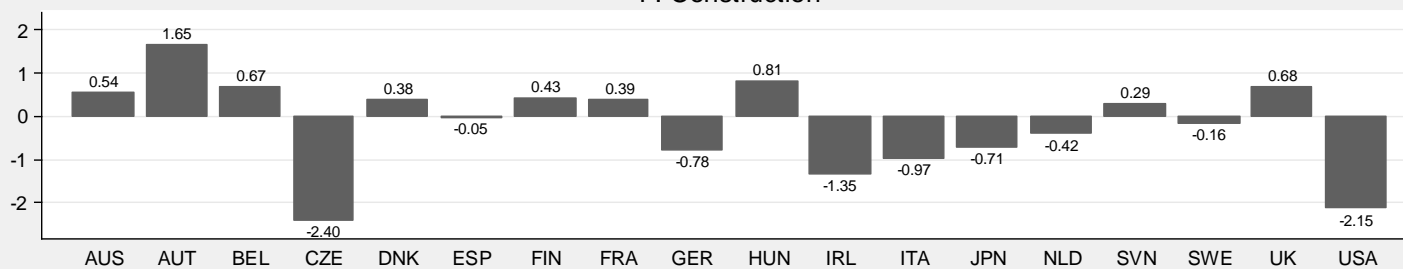
Chart 1 (continued)

Mean TFP growth rates, 18 countries, % p.a., by sector

E. Electricity, gas & water



F. Construction



G. Wholesale & retail trade. Repair

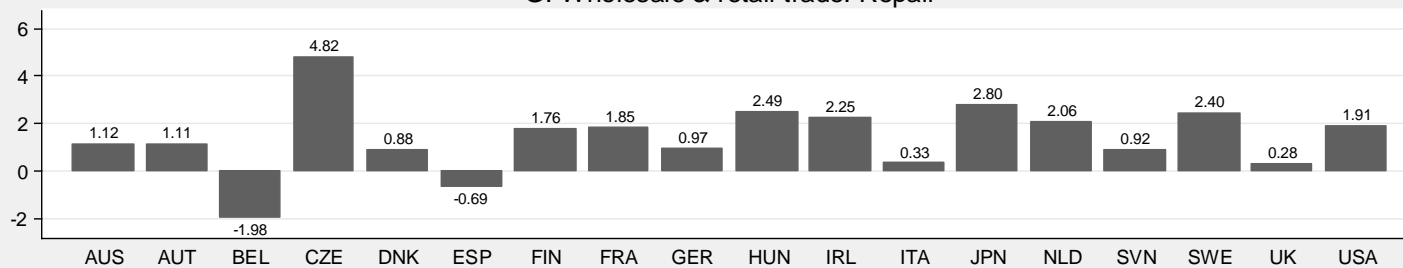
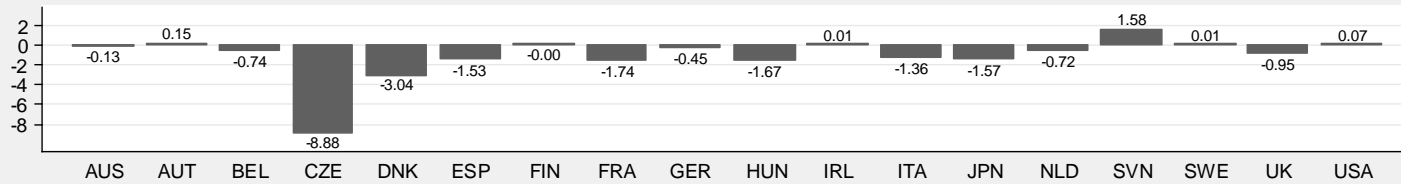


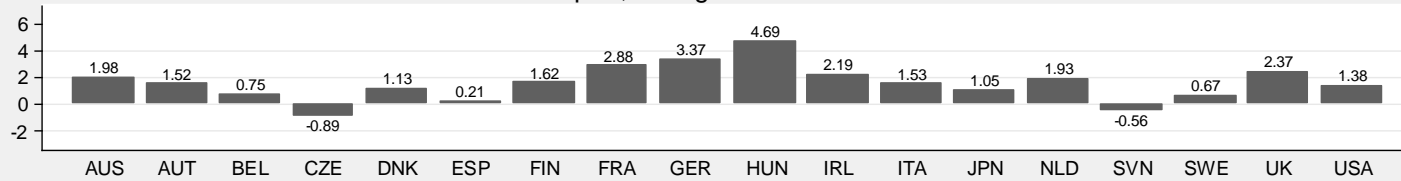
Chart 1 (continued)

Mean TFP growth rates, 18 countries, % p.a., by sector

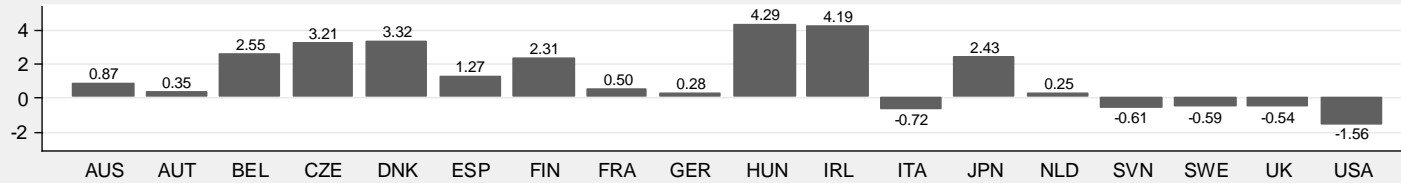
H. Hotels & restaurants



I. Transport, storage and communications



J. Financial intermediation



K (exc. 70). Renting and business activities

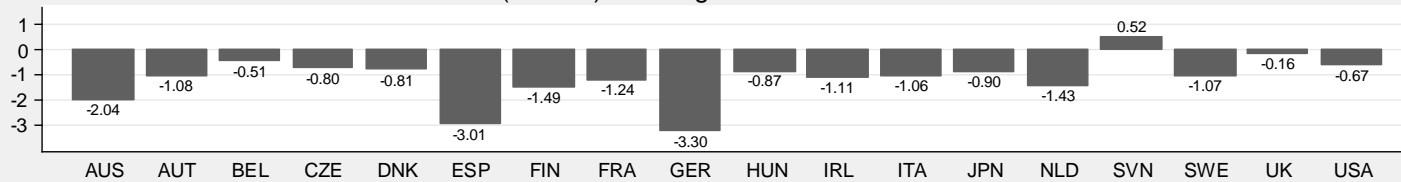
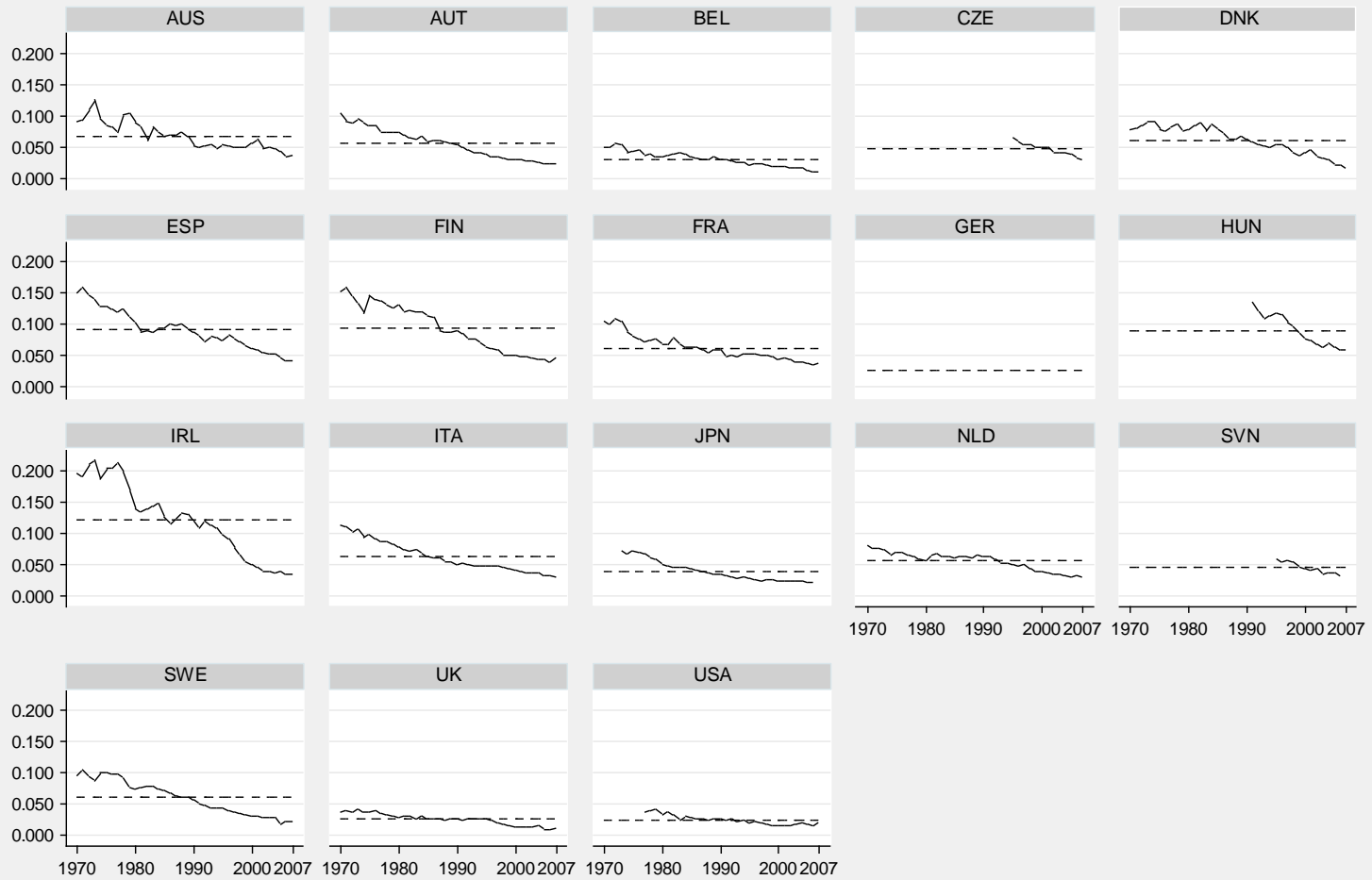


Chart 2

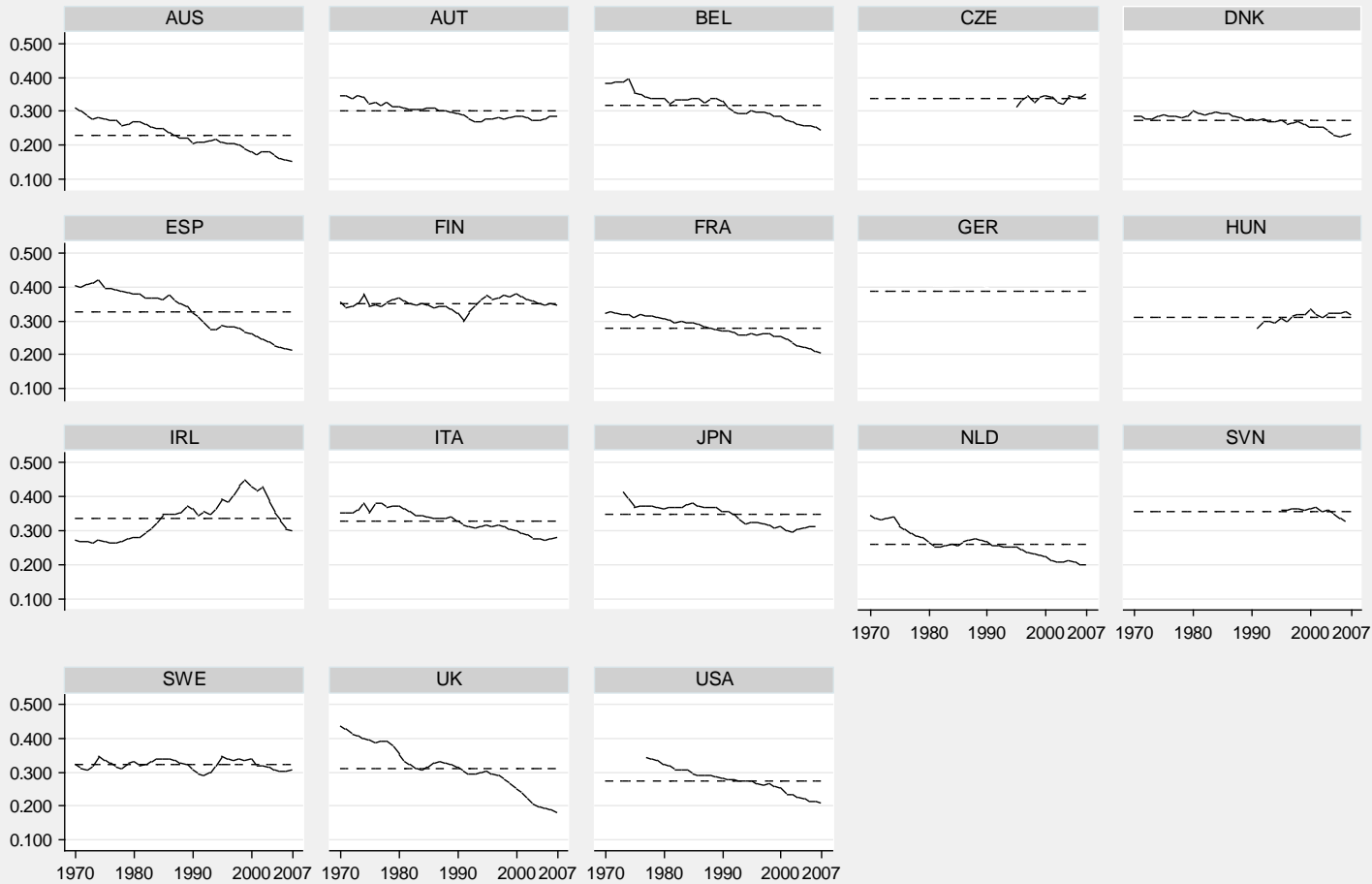
Value added share of Agriculture, etc (A&B) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 2 (continued)

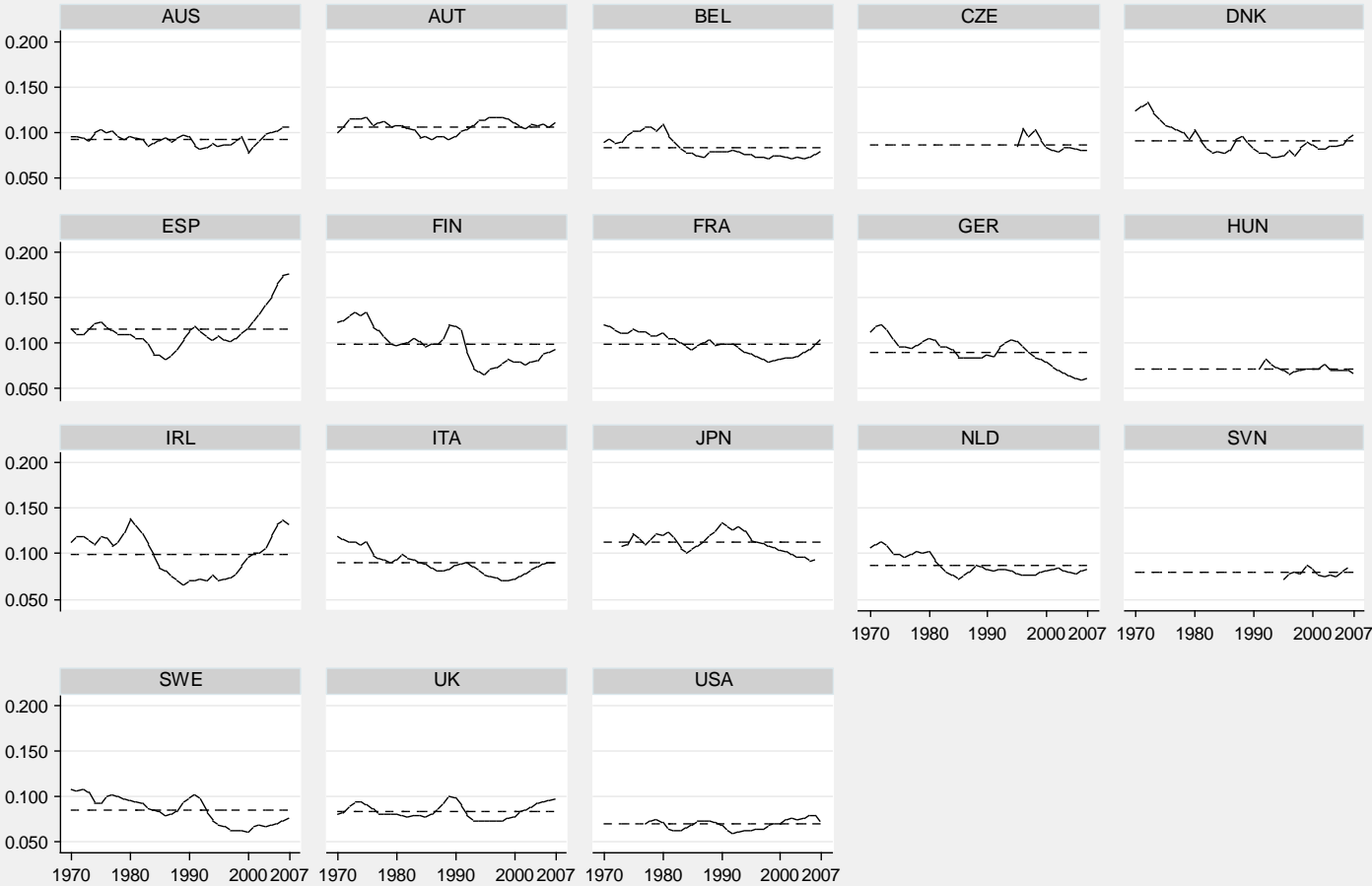
Value added share of Manufacturing (D) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 2 (continued)

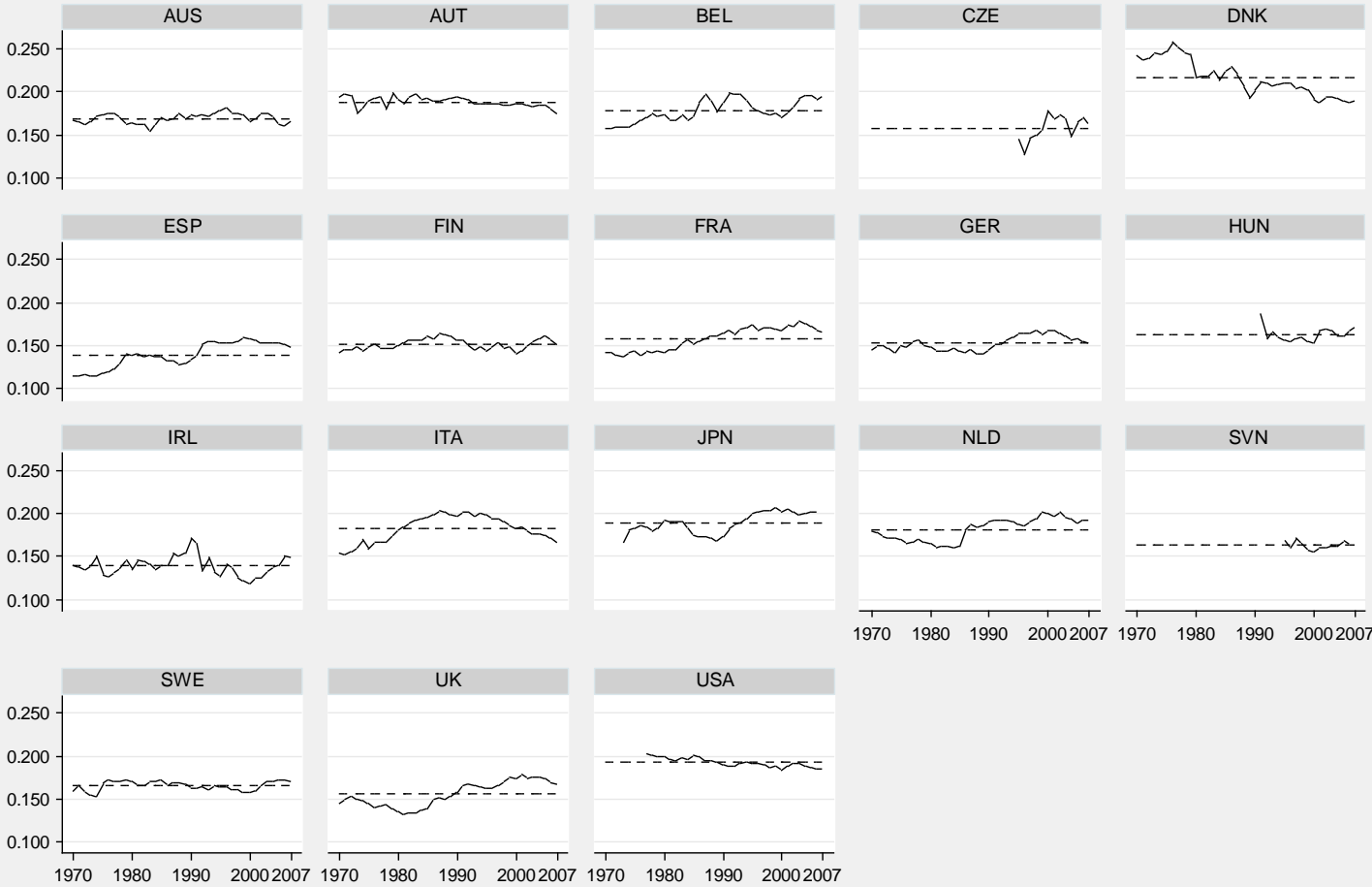
Value added share of Construction (F) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 2 (continued)

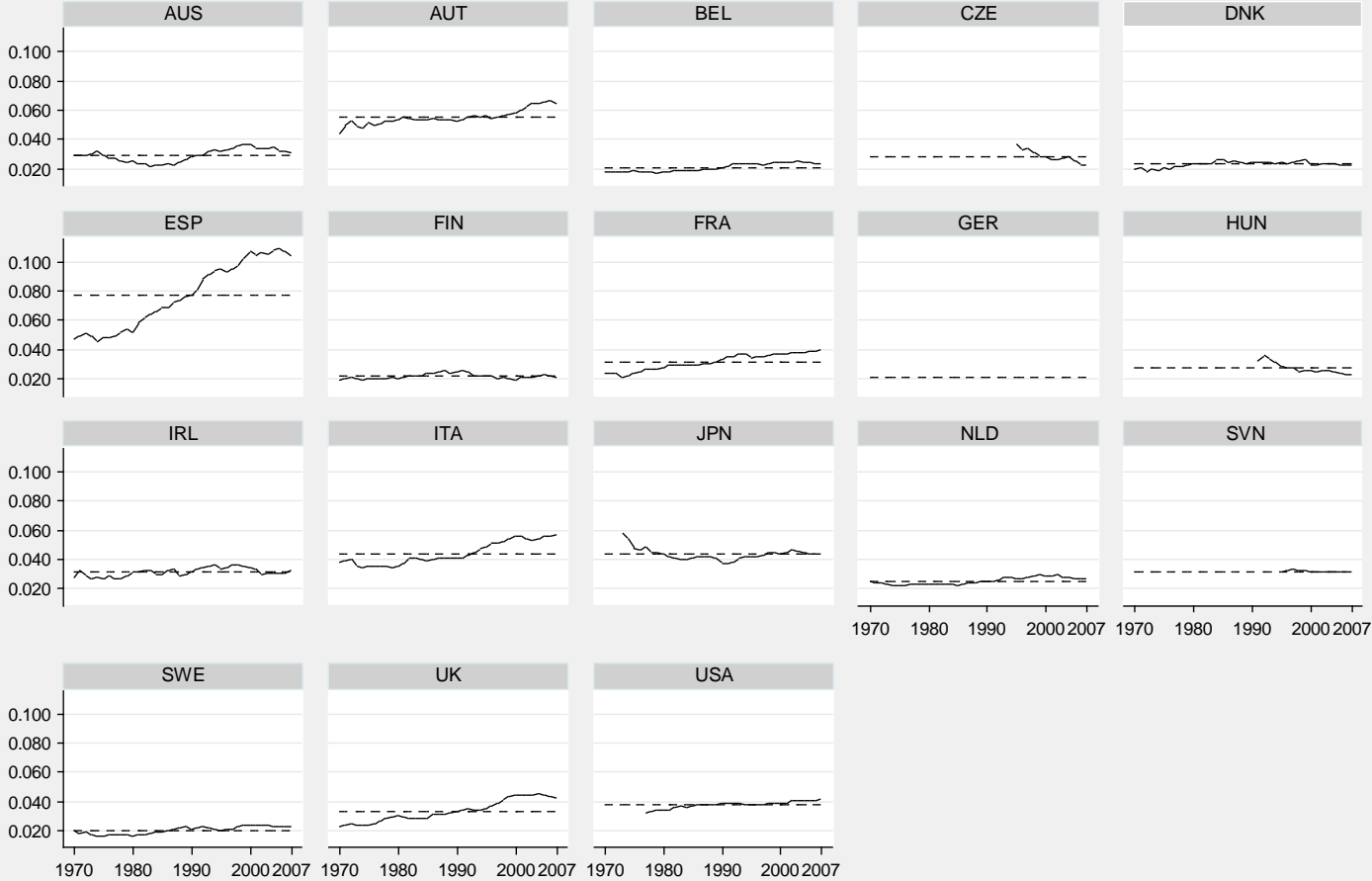
Value added share of Wholesale & retail (G) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 2 (continued)

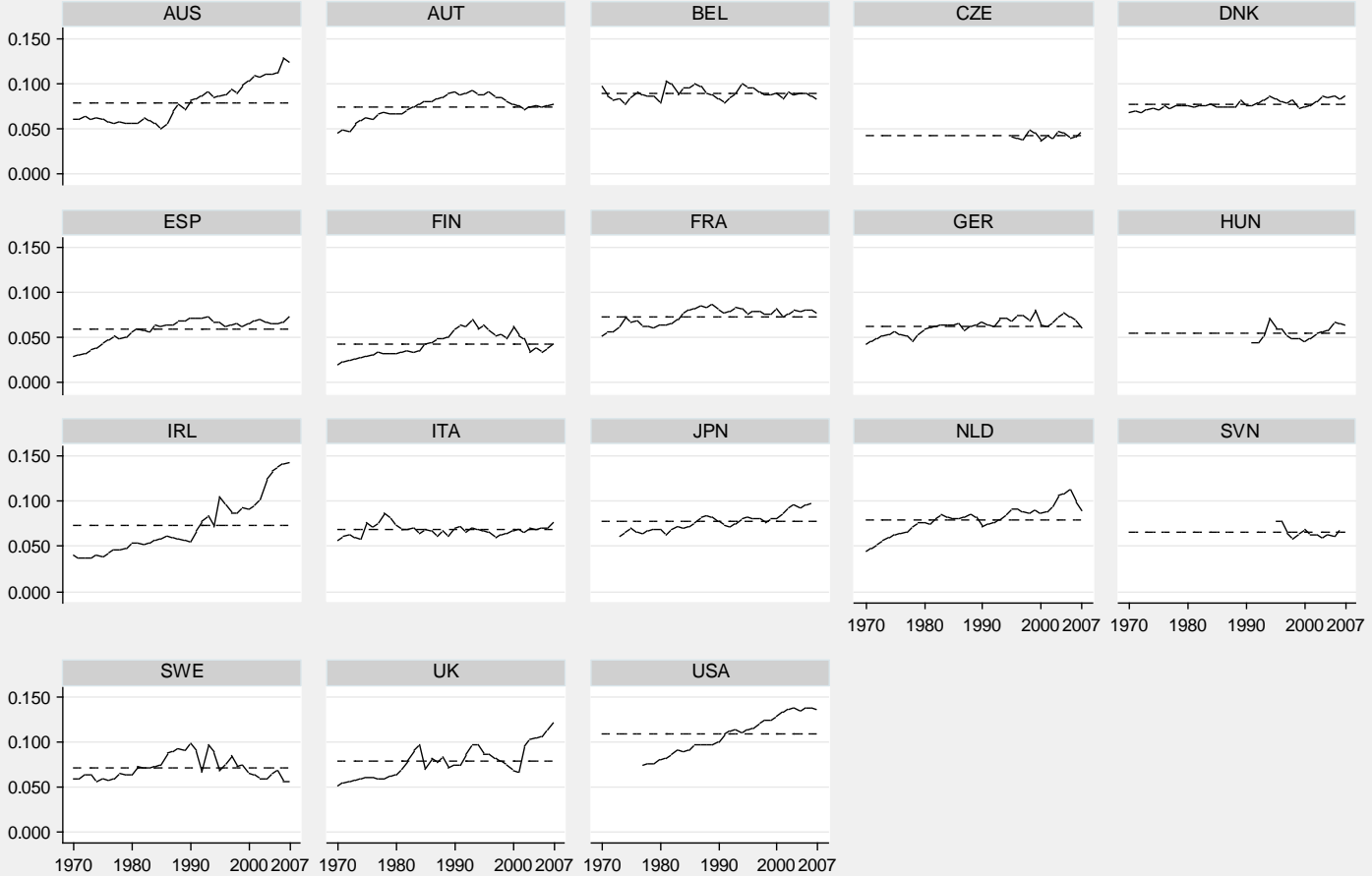
Value added share of Hotels & restaurants (H) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 2 (continued)

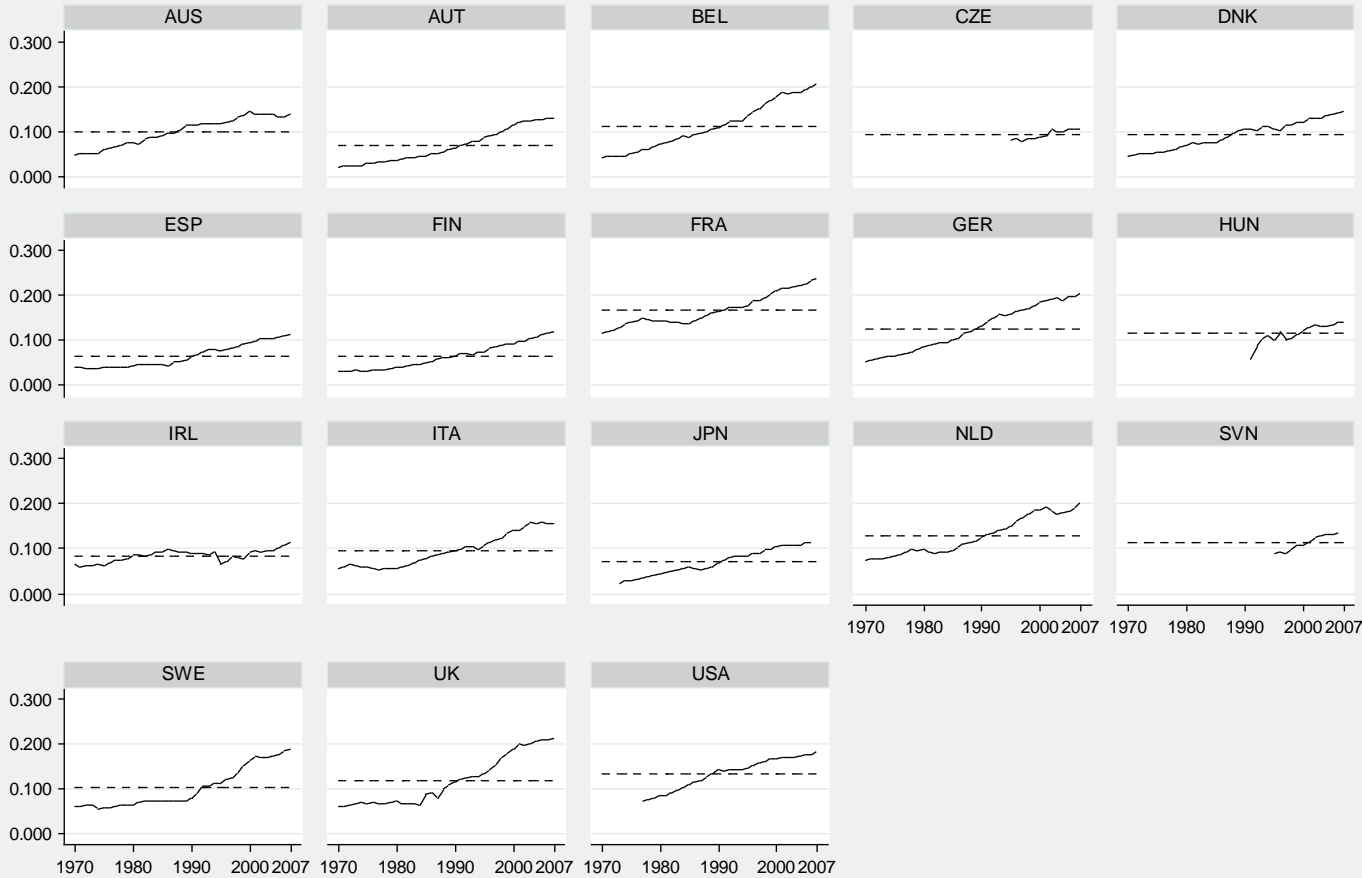
Value added share of Finance (J) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 2 (continued)

Value added share of Business services (K, exc. 70) in market sector GDP



Source: EU KLEMS. Note: Dashed lines denote country means.

Chart 3

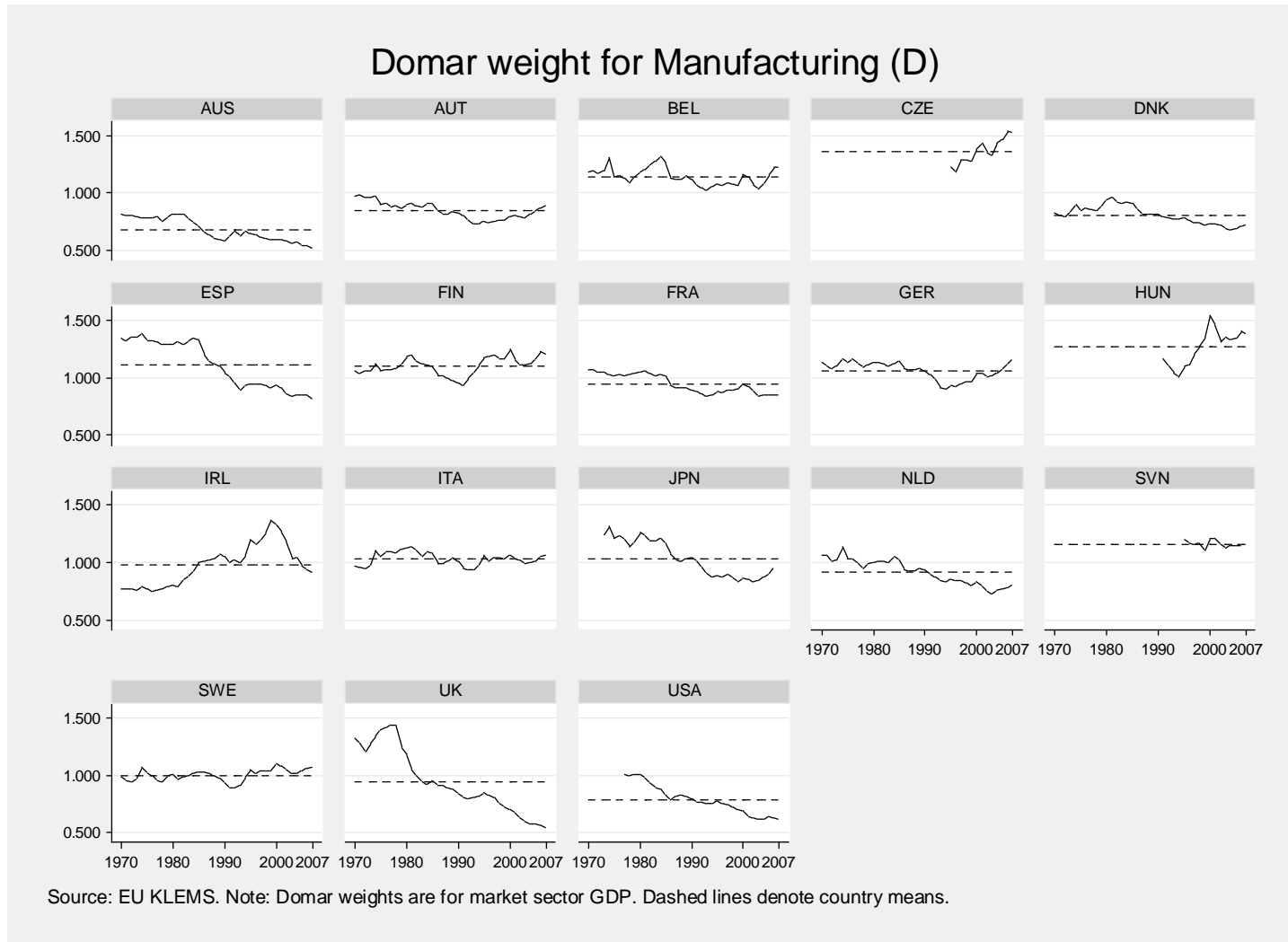
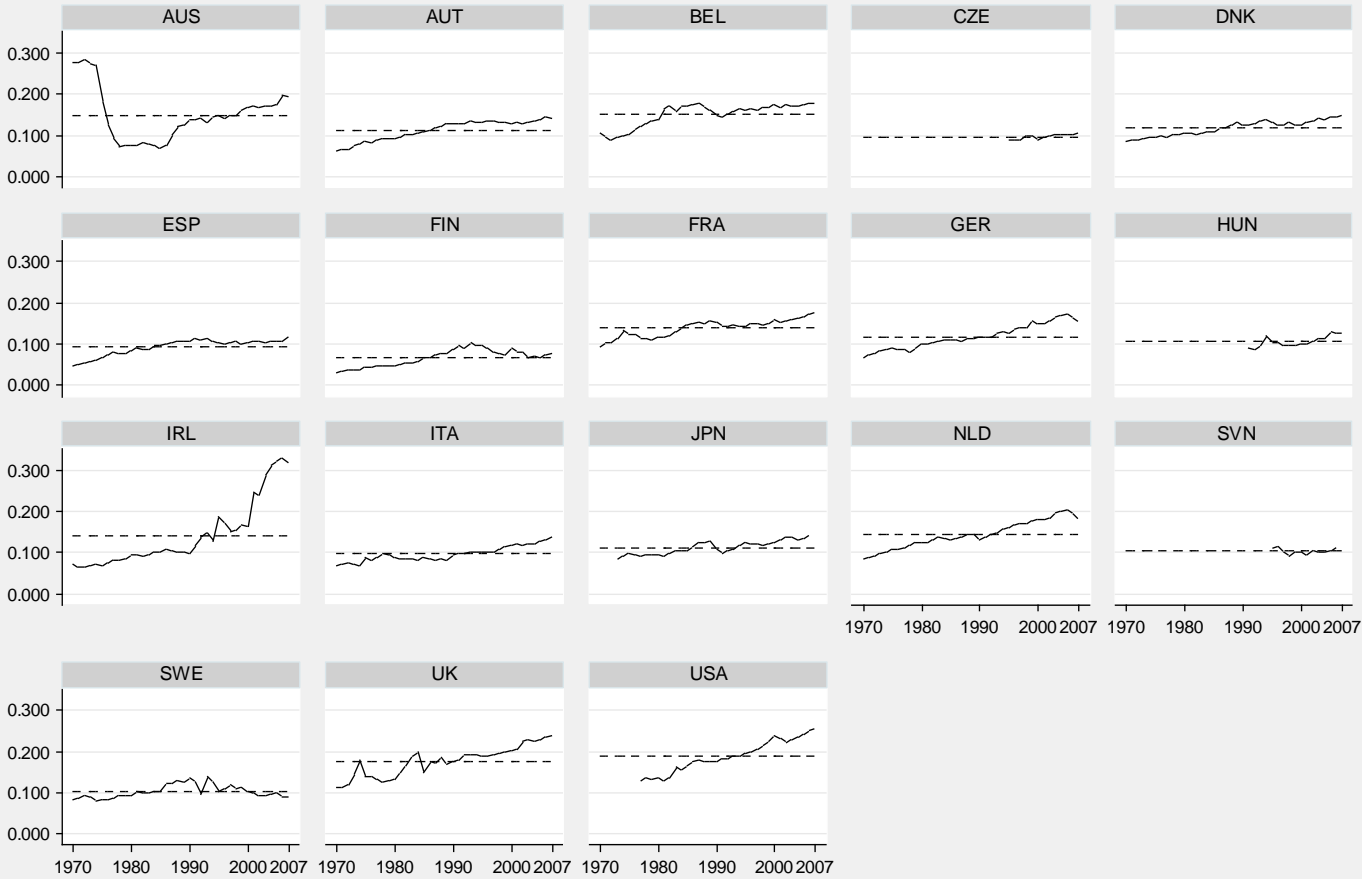


Chart 3 (continued)

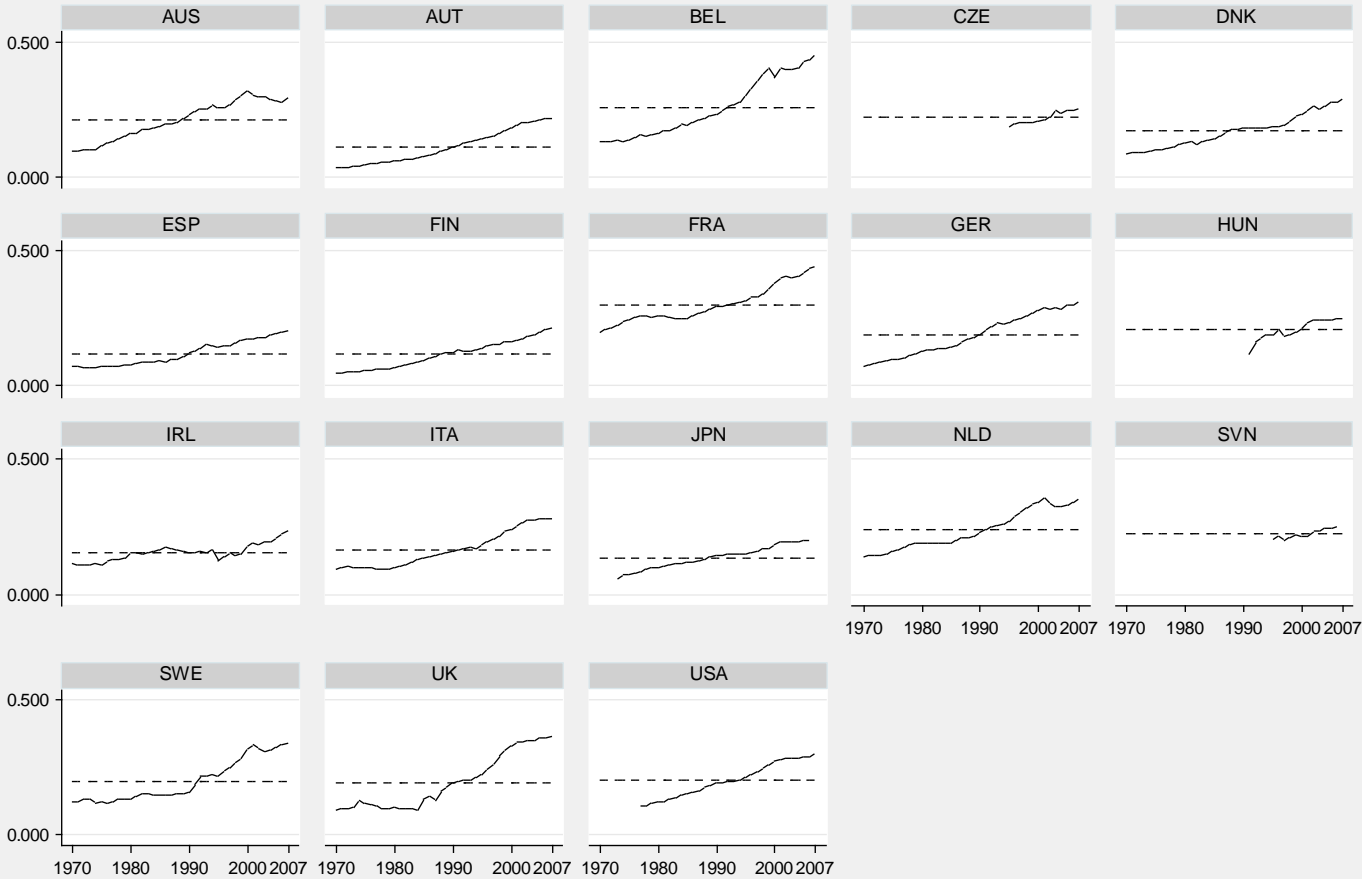
Domar weight for Finance (J)



Source: EU KLEMS. Note: Domar weights are for market sector GDP. Dashed lines denote country means.

Chart 3 (continued)

Domar weight for Business services (K, exc. 70)



Source: EU KLEMS. Note: Domar weights are for market sector GDP. Dashed lines denote country means.