



Labour Costs Workshop Rome 5-6 May 2015

Agenda Item 2.1

LCS Methodological issues overview

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Main items discussed:

overview on methodological issues

- I. Data sources
- II. Statistical units (enterprise vs. local unit)
- III. Classification of apprentices and trainees
- IV. Hours paid vs. hours worked

I. Data sources (1)

Information from the LCS questionnaire

	Source used for all LCS variables
1. Business survey (4-yearly)	BE*, CZ, DE, EE, EL, HR, IT*, LU, HU, MT*, PL, PT, SE, TR, RS
2. Business survey (annual)	BG, DK*, FR*, AT*, RO, SK
3. Other business survey	ES, LV* (Quarterly business survey)
	IS* (Monthly Survey on Earnings, Wages and Labour Costs)

* Use of administrative data is also made for validation / imputation cases.

	Different sources used by type of variable				
	A-variables**	B-variables**	C-variables**	D-variables**	E-variables**
1. Business survey (4-yearly)	CY, SI, NO				
2. Business survey (annual)	UK		UK	UK	IE, UK
3. Other business Survey	IE, LT, FI (Quarterly business survey)				
4. Administrative data	NL, FI, NO	NL, FI	NL, FI	NL, FI, NO	CY, LT, NL, SI, FI, NO
5. Household survey (LFS)		IE, FI, UK	FI	NL, UK	

****A-variables:** Number of employees
B-variables: Hours actually worked
C-variables: Hours paid
D-variables: Labour costs
E-variables: Information on units

I. Data sources (2)

Information from the LCS questionnaire

- Dedicated business questionnaire
 - > 4-yearly LCS: 18 countries
 - > annual LCS: 8 countries
 - > quarterly LCS: 5 countries

Of which 3 (FI, NL, NO) make extensive use of administrative data for data collection purposes

- NL: LCS fully based on administrative data
No dedicated questionnaire!

I. Data sources (3)

Issues for discussion from the LCS questionnaire

- Countries concerned are invited to comment on the use of other sources for gathering LCS data:
 - > household surveys
 - > administrative data
- Added value in making use of different sources?

II. Statistical unit

- EC 530/1999, article 5

The compilation of statistics shall be based on **local units** and **enterprises** as defined...for observation and analysis of the production system in the community

	LCS2012
enterprise	CZ, DK, IE, EL, HR, IT, CY, LV, HU, MT, NL, AT, PL, PT, FI, SE, NO, CH, MK, BA, RS
local unit	BE, BG, DE, EE, ES, FR, LT, LU, PL, RO, SK, SE, IS, TR
local kind of activity unit	SI
employees	UK

- Different statistical units used across Europe
 - > comparability across countries?
 - > which unit better knows:
 - hours worked and paid
 - labour costs

III. Classification of apprentices, trainees (1)

- Reminder on the differences in data coding in LCS:

NA: exists in country, is greater than zero BUT separate data is not available

ZERO: does not exist in country or has real zero value

- LCS data compared with LFS (2012) and CVTS (2010)

III. Classification of apprentices, trainees

According to LCS: no apprentice in EE / ES / HR / SE? (2)

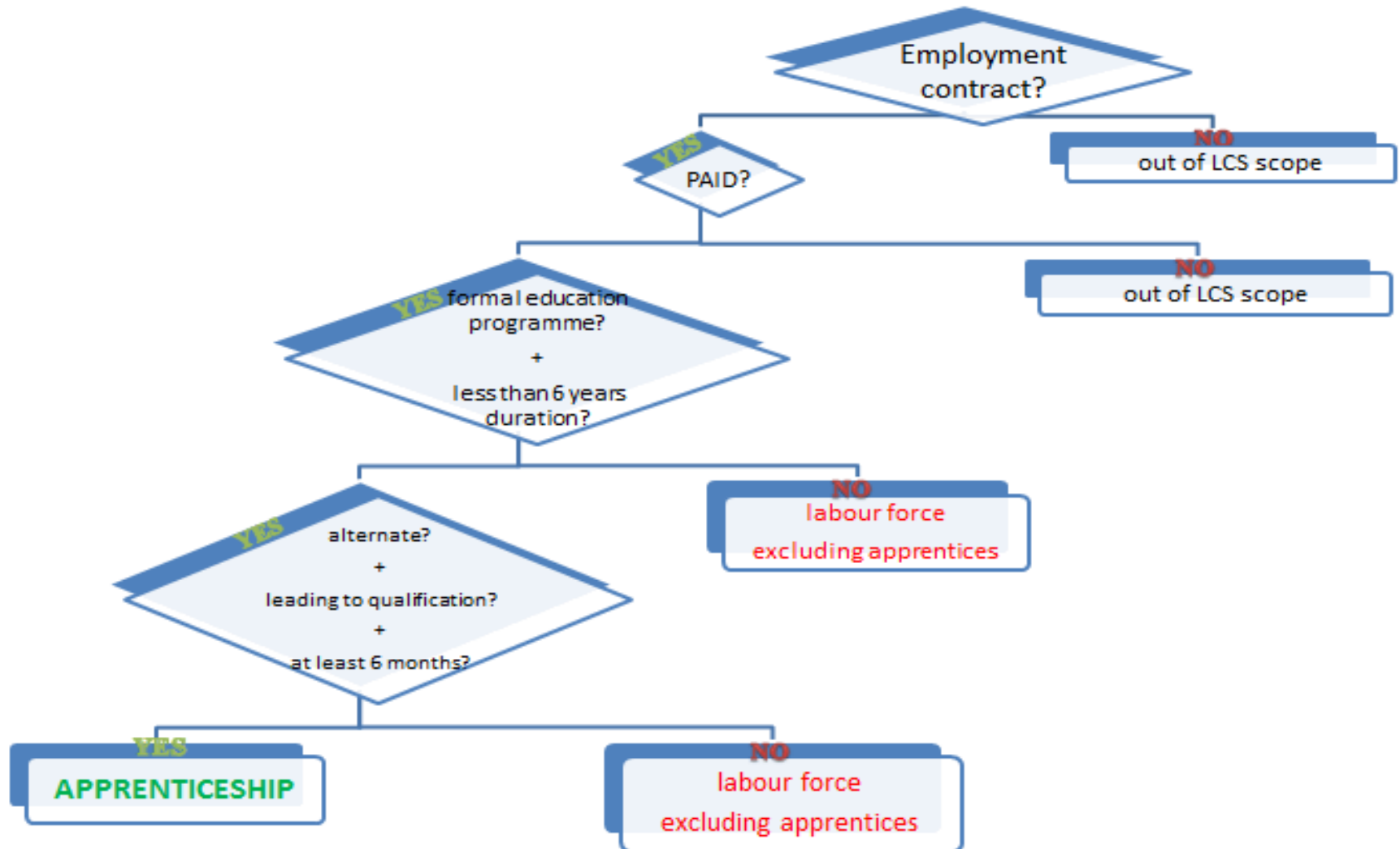
	separate data for apprentices in LCS	number of apprentices in LCS*	share of apprentices on total employees in LCS	number of apprentices in LFS*	number of apprentices in CVTS*	DIFFERENCES			
						LCS/LFS (relative)	LCS/LFS (in %)	LCS/CVTS (relative)	LCS/CVTS (in %)
BE	✓	20056	0.66%	16723	22247	3333	20%	-2191	-10%
BG	NA	NA	NA	1613	33788	-1613	-100%	-33788	-100%
CZ	✓	12873	0.42%	2061	14107	10812	525%	-1234	-9%
DK	✓	49061	2.80%	66093	34191	-17032	-26%	14870	43%
DE	✓	1244801	4.63%	1679705	1122195	-434904	-26%	122606	11%
EE	ZERO	0	0.00%	409	6513	-409	-100%	-6513	-100%
IE	✓	13858	1.13%	12984	:	874	7%	:	:
EL	✓	9008	0.59%	13667	4495	-4659	-34%	4513	100%
ES	ZERO	0	0.00%	127461	48504	-127461	-100%	-48504	-100%
FR	✓	162169	1.03%	530599	305420	-368430	-69%	-143251	-47%
HR	ZERO	0	0.00%	68061	159759	-68061	-100%	-159759	-100%
IT	✓	195384	1.92%	388504	210929	-193120	-50%	-15545	-7%
CY	✓	202	0.12%	1449	929	-1247	-86%	-727	-78%
LV	NA	NA	NA	1478	2797	-1478	-100%	-2797	-100%
LT	✓	158	0.02%	1113	250	-955	-86%	-92	-37%
LU	✓	3878	1.27%	2819	2529	1059	38%	1349	53%
HU	✓	4523	0.21%	5419	24969	-896	-17%	-20446	-82%
MT	✓	403	0.31%	1056	1107	-653	-62%	-704	-64%
NL	✓	77485	1.22%	27014	172070	50471	187%	-94585	-55%
AT	✓	103621	4.16%	156380	109611	-52759	-34%	-5990	-5%
PL	✓	41146	0.53%	302988	28220	-261842	-86%	12926	46%
PT	✓	7505	0.36%	25209	14101	-17704	-70%	-6596	-47%
RO	✓	7	0.00%	2033	38217	-2026	-100%	-38210	-100%
SI	NA	NA	NA	3627	2384	-3627	-100%	-2384	-100%
SK	✓	10145	0.96%	1389	21915	8756	630%	-11770	-54%
FI	✓	25003	1.53%	18458	12817	6545	35%	12186	95%
SE	ZERO	0	0.00%	6576	3480	-6576	-100%	-3480	-100%
UK	✓	214241	0.96%	91734	190189	122507	134%	24052	13%

III. Classification of apprentices, trainees (3)

- operational definition for apprentices in CVTS:
 - > formal education programme which does not exceed 6 years,
 - > alternance of learning time between work and education,
 - > leads to a qualification (e.g. ISCED2011 levels 2 to 5) and
 - > apprenticeship lasts at least 6 months.
- to be added to LCS(2016) implementing arrangements?

III. Classification of apprentices, trainees (4)

- Decision tree to define apprentices:



IV. Hours paid vs. hours worked (1)

- Hours paid (HP) = Hours Worked (HW)
 - + Paid annual holidays / vacation
 - + Paid absence due to sickness / public holidays / other absence
 - + Other hours paid at a reduced rate
 - Unpaid overtime hours
- In practice: $HW < HP$
- LCS HP data (2008 and 2012) compared to SES2010

IV. Hours paid (2)

	LCS2008		SES2010		LCS2012		LCS08 SES10	SES10 LCS12	LCS08 SES10	SES10 LCS12
	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time		Full-time	
Belgium	1,082	1,789	1,197	1904	1,201	1,706	11%	0%	6%	12%
Bulgaria	891	1,937	985	2022	908	1,923	11%	8%	4%	5%
Czech Republic	1,177	2,016	1,404	2075	1,266	2,014	19%	11%	3%	3%
Denmark	775	1,863	722	1901	745	1,866	-7%	-3%	2%	2%
Germany	1001	2,023	1,001	2044	943	2,025	0%	6%	1%	1%
Estonia	1,016	1,934	1,085	2036	1,051	1,971	7%	3%	5%	3%
Ireland	994	1,937	1,211	1911	1,030	1,893	22%	18%	-1%	1%
Greece	1006	1,862	1,032	2011	928	1,978	3%	11%	8%	2%
Spain	1,062	2,032	1,142	2039	1,065	2,020	8%	7%	0%	1%
France	1,147	1,893	1,178	1889	1,158	1,866	3%	2%	0%	1%
Croatia	1,125	2,104	1,067	2034	1,155	2,067	-5%	-8%	-3%	-2%
Italy	1,088	1,874	1,284	1952	1,178	1,883	18%	9%	4%	4%
Cyprus	1,011	2,040	1,272	2041	1,072	2,078	26%	19%	0%	-2%
Latvia	972	1,989	1,125	2020	1,043	1,974	16%	8%	2%	2%
Lithuania	919	1,893	972	2008	883	1,914	6%	10%	6%	5%
Luxembourg	1,210	2,131	1,230	2021	1,197	2,120	2%	3%	-5%	-5%
Hungary	1,227	2,033	1,377	2034	1,241	2,044	12%	11%	0%	0%
Malta	911	2,165	957	2142	1,085	2,220	5%	-12%	-1%	-4%
Netherlands	1,012	2,041	1,029	2014	1,032	2,064	2%	0%	-1%	-2%
Austria	1,120	2,116	1,060	2078	1,143	2,101	-5%	-7%	-2%	-1%
Poland	1349	1,976	946	1974	971	1,957	-30%	-3%	0%	1%
Portugal	1015	1,994	1,021	2028	978	1,959	1%	4%	2%	4%
Romania	917	2,074	882	2054	929	2,068	-4%	-5%	-1%	-1%
Slovenia	1,117	2,115	948	1996	1,261	2,162	-15%	-25%	-6%	-8%
Slovakia	1,214	1,970	1,233	1977	1,170	1,926	2%	5%	0%	3%
Finland	877	1,994	1,174	1984	1,211	1,954	34%	-3%	-1%	2%
Sweden	1,069	1,923	1,275	2077	1,118	1,936	19%	14%	8%	7%
United Kingdom	962	2,071	953	2036	956	2,055	-1%	0%	-2%	-1%
Iceland	962	2,594	1,164	2235	909	2,340	21%	28%	-14%	-4%
Norway	916	1,876	966	1974	886	1,860	5%	9%	5%	6%
Switzerland	:	:	1,196	2160	1,180	2,174	:	1%	:	-1%
FYROM	:	:	990	2026	1,174	2,141	:	-16%	:	-5%
Turkey	:	:	1,074	2406	1,131	2,382	:	-5%	:	1%

PT:

17 countries

CZ, IE, CY, HU, SI, SE, IS
Possible **SES** issue!

BE, BG, IT, LV, PL, FI
(**LCS 2008**)

EL, LT, MT, MK
(**LCS 2012**)

FT:

BE(2012)
IS(2008)

possible
LCS
issue!

The participants to the workshop are invited to comment on:

- *the pros and cons of the use of different data sources in the collection of LCS data;*
- *the pros and cons of collecting LCS data at enterprise / local unit level;*
- *the decision tree "to define apprentices in a comparable manner" to be included in LCS2016 implementing arrangements;*
- *the results of annual average hours paid in LCS compared to those in SES and respective differences*



Thank you for your attention!

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