

Measurement of hours worked in LCS and comparison with other sources in Luxembourg

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Background

- LCS: main source for hours worked/paid in LU
- sectors B to S (without O); local units 10+
- universe: 4 700; sample: 2 700; resp.: 2 450 (91%)
- Response burden!
- but: no good alternative available
- 2009 : new law on social system → more data available

> Exercise:

- for 2012: compare "hours actually worked" according to
 - LCS
 - social security records
 - LFS
 - SBS



Methodology	LCS	Social Security	LFS
Periodicity	every 4 years	monthly	permanently
Reference period	year	year	week * 52
Enterprises	B - N and P - S / 10+	All	All
Employees	employees	employees (can be filtered)	employees (can be filtered)
Hours worked: definition	aggregate number of hours actually worked by all employees during the year	definition is different, so a comparable number has to be computed	actual hours worked in the reference week (HWACTUAL)
Hours worked: collected directly (YES/NO)?	* full-time employees: NO * part-time employees and apprentices: YES	NO	YES



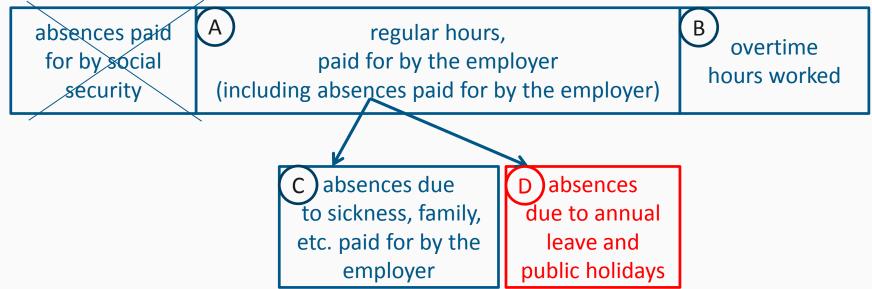
- How are hours worked measured in the LCS in LU?
- Variables collected for full-time employees:
 - Average number of employees
 - Normal weekly contractual hours
 - Total overtime worked
 - Hours not worked for different reasons :
 - Average number of days of annual leave
 - Total number of days of special leave (family reasons, moving, etc.)
 - Total number of days of sickness and maternity leave
 - Total number of days lost due to labour disputes, short-time working or technical reasons
 - Total number of other holidays



- Hours actually worked: calculated by the NSI:
 - Total hours worked =
 - average number of employees
 - * normal weekly contractual hours * 52
 - + total of all overtime hours
 - total of all absences converted into hours
- For part-time employees and apprentices: total number of hours worked to be reported directly



- Alternative : social security records
- How can hours worked be calculated from that source ?



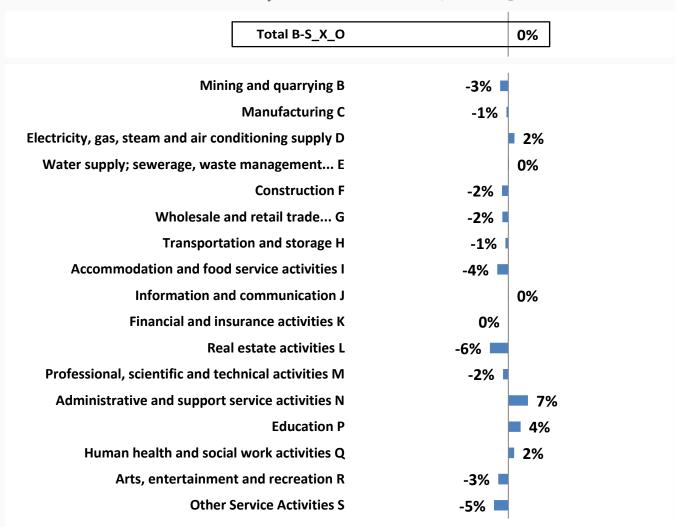
are not declared → have to be estimated (as a %age) by alternative source: LFS → correction coefficient ≈ 0.9

- → Hours actually worked = A + B C D
- \rightarrow Hours actually worked = (A + B C) * 0.9



➤ Results : △ Social Security to LCS

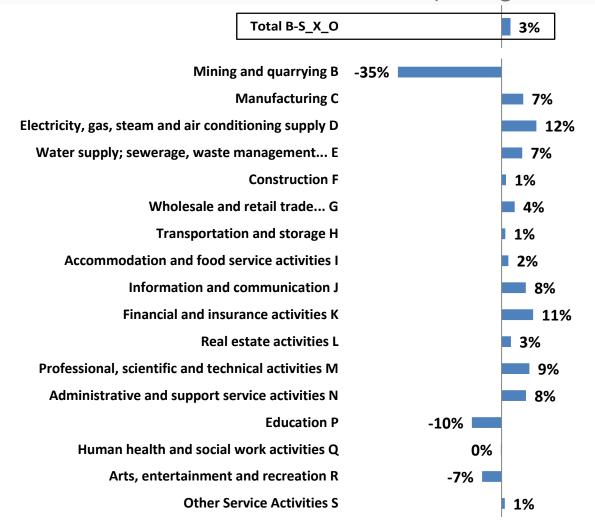
(average hours worked/year)





Results : Δ LFS to LCS

(average hours worked/year)





- Conclusions
 - Social security data:
 - \rightarrow is a good alternative to LCS for hours worked/paid
 - » to be examined further (breakdowns, ...)
 - » minor issues to be corrected for better comparability
 - → alternative to LCS for other variables ?
 - » to be explored
 - → LCS response burden can be reduced
 - LFS:
 - → could be used to complement social security data

.: Thank you for your attention :.