The Danish Experience of Revising the Weight

10 May 2012

DANMARKS STATISTIK

Contents

- The revision of the model
- Consequences and effects
- Lessons learned

Background

The world is changing – the explanatory power of the background information changes.

New possibilities to use the registers

A detailed model needs regular review

What do we gain?

Precision

Less risk for errors

Documentation -> more transparency

- However we risk breaks in time series

Changes to the model

2007 model	2011 model
Sex*Age*Region	Sex*Age*Region
Duration of net register unemployment in last quarter	Duration of net register unemployment in last quarter
Moved or not	Moved or not
Socioeconomic group (SOCIO)	Socioeconomic group (SOCSTIL)
Origin (IETYPE)	Origin (STATKOD)
Gross annual income	Gross annual income
Educational level	Educational level*Age
-	Number of children in household

Moved or not?

Main challenge – research protection

Solution: Use the date for last removal to correct the effect in the population

Great explanatory power currently – maybe not so in the future

-> the LFS is now prepared for future updates of the weighting model

Age

Age is a relative concept = problematic variable

Previously no unambiguous definition

In the new weighting process defined in two (and just two) ways

For extraction and weighting: last day in the quarter before the reference quarter

For publication: last day in ref.week -> same as Eurostat's definition

Main effects – labour market attachment

Slight fall in labour force overall

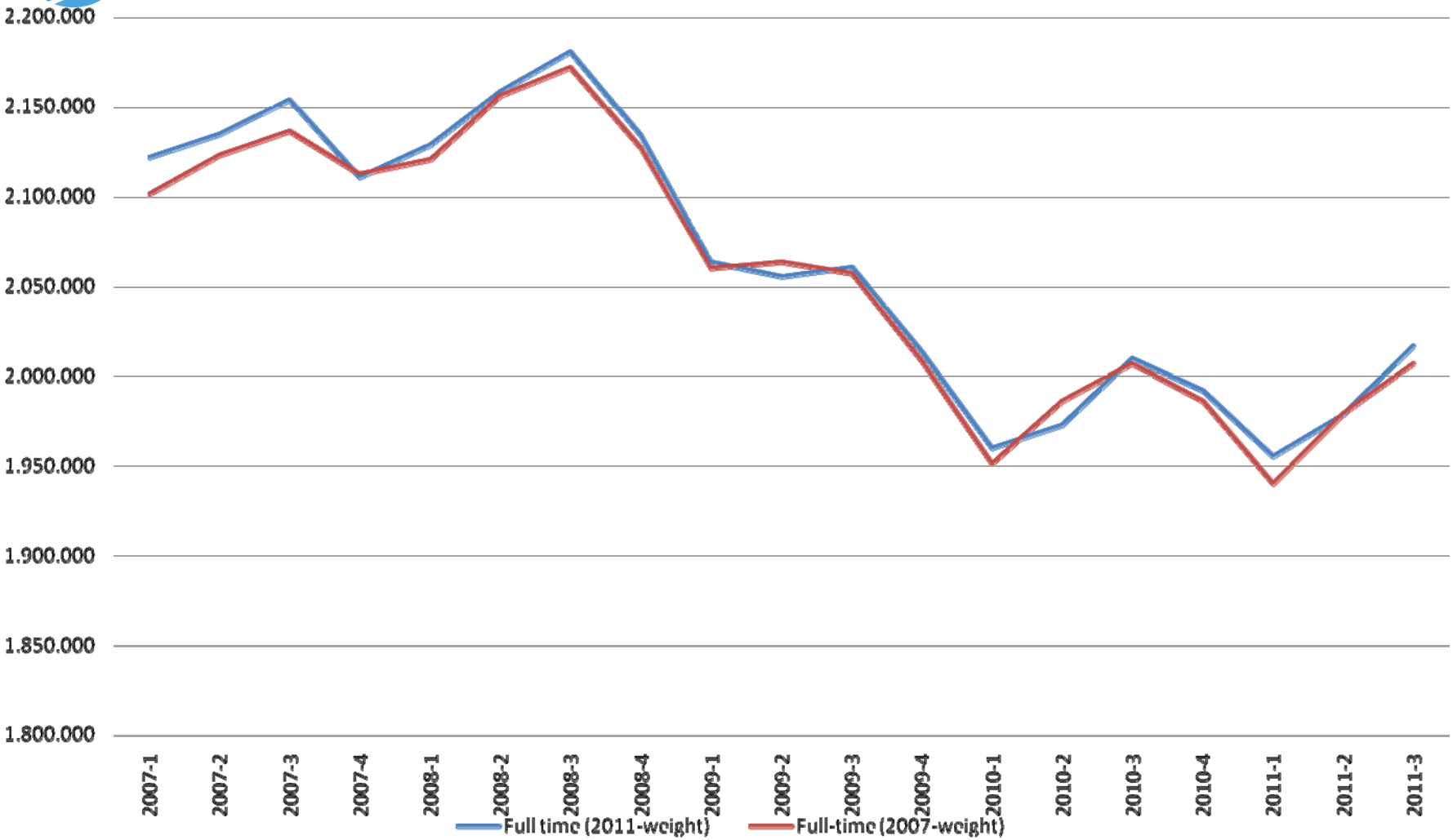
More or less unchanged employment, though a rise in full time employment

Slightly lower unemployment – no special or systematic effects on subgroups

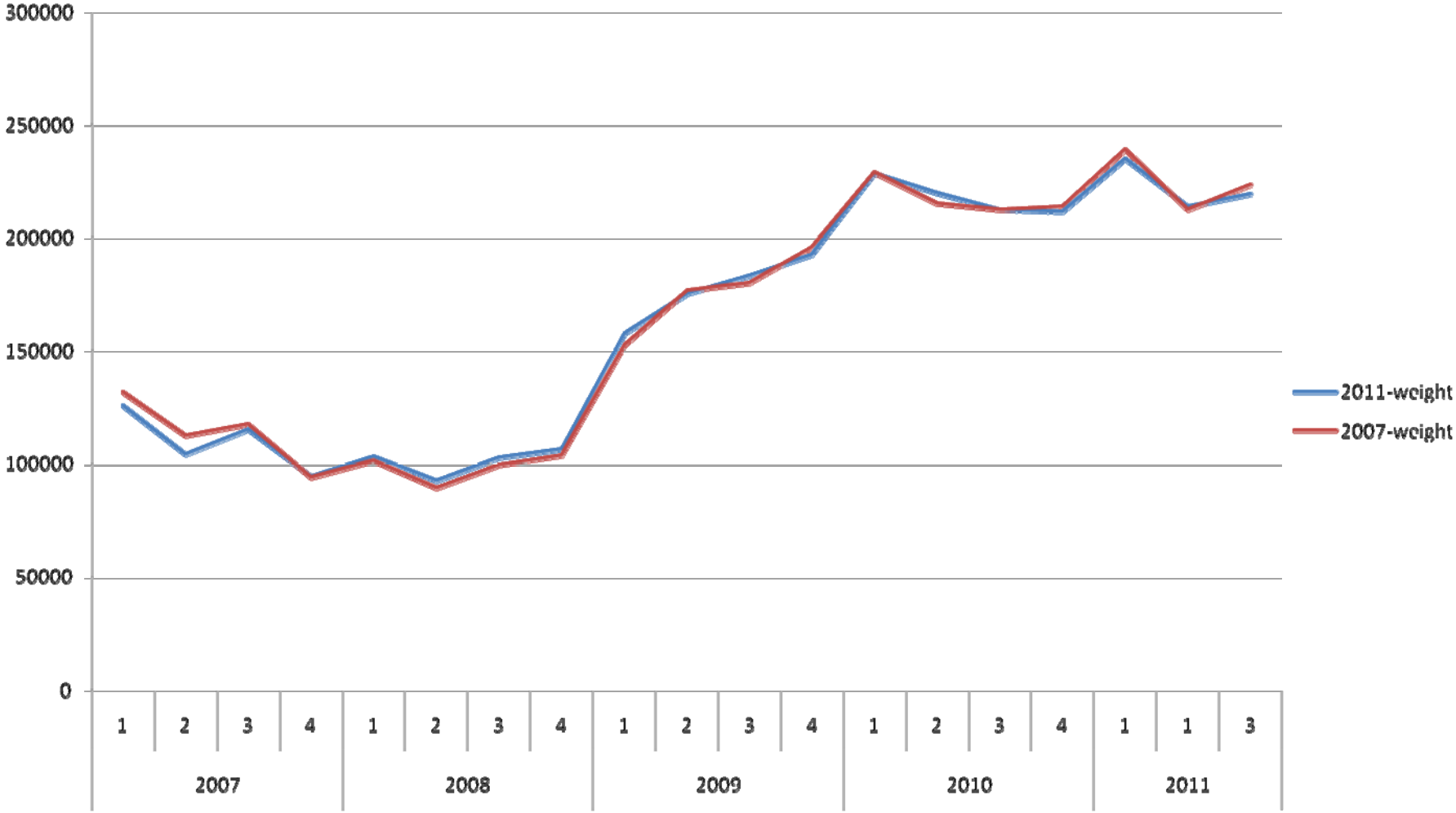
Main changes outside the labour force

Number of employed

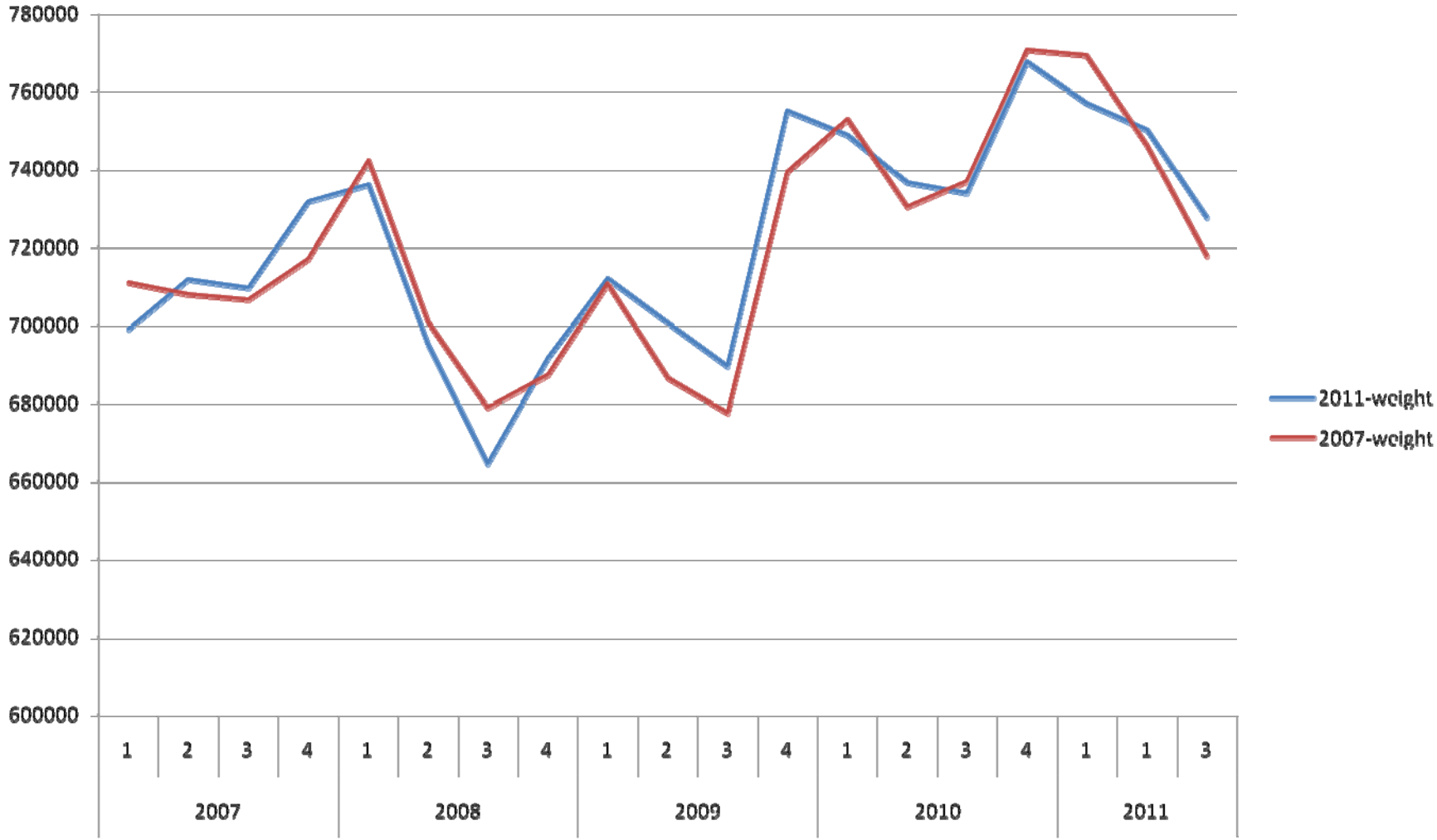
Full-time employed



Unemployed


300000
250000
200000
150000
100000
50000
0
1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 3
2007
2008
2009
2010
2011
2011-weight
2007-weight

Outside the Labour Force

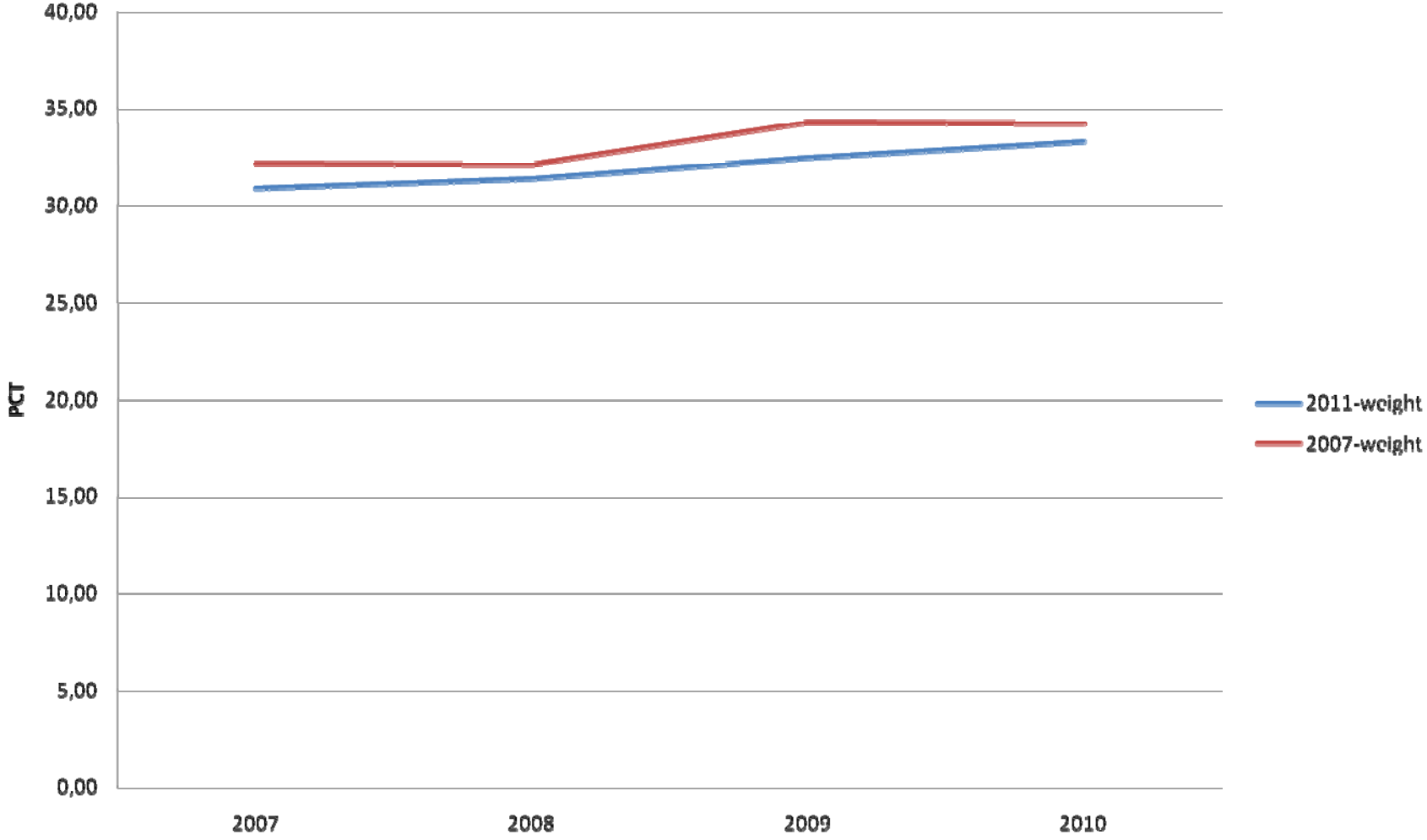


Main effects – level of education

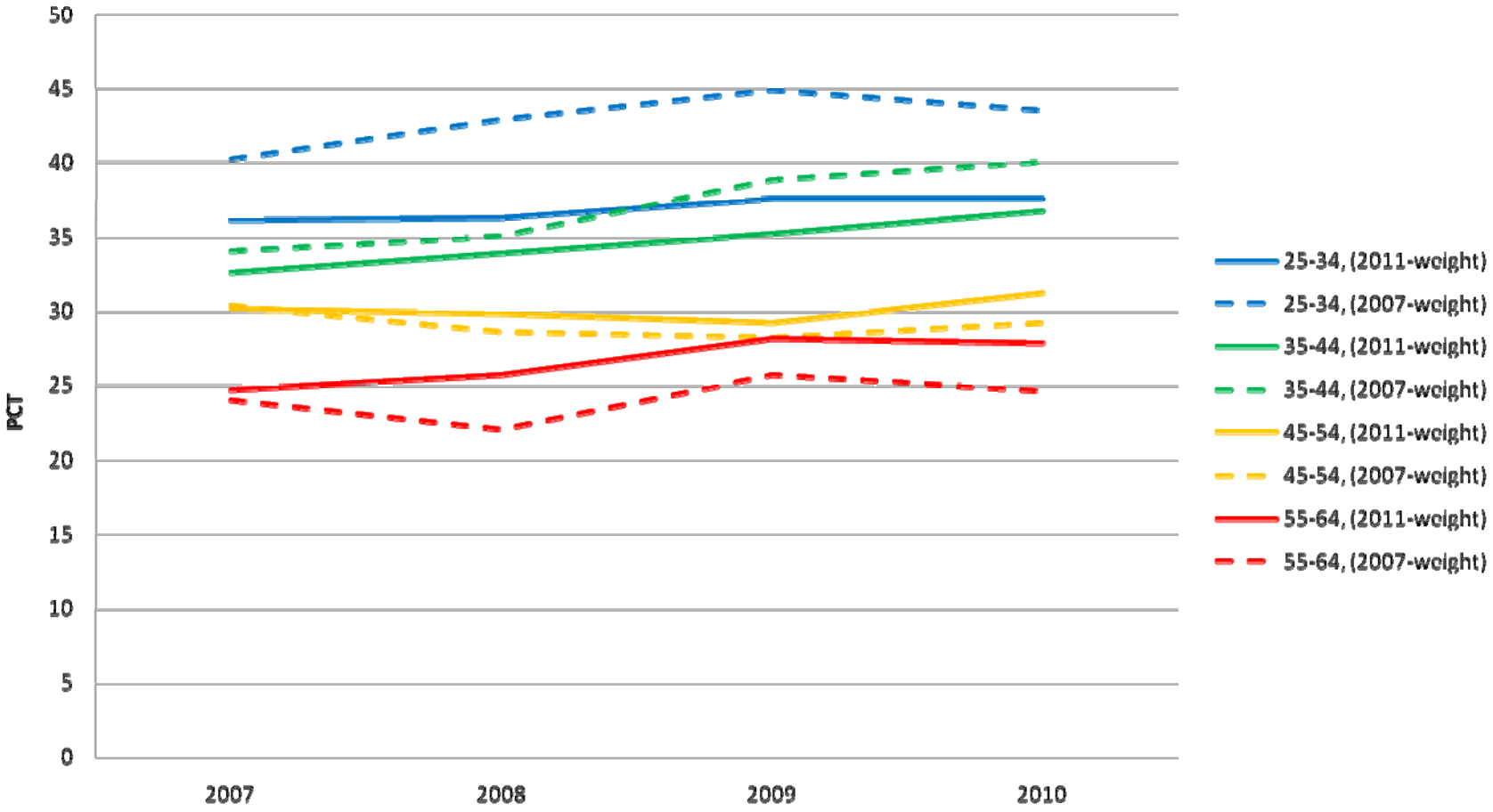
Overall level of education (share of population with tertiary education) a little lower

Large drop in educational level for persons aged 30-34 -> much closer to the level in the register

Share with tertiary education 25-64 years



Share with tertiary education, age



Revisions

General revision of the LFS stat bank

Moving breaks in EU-variables back to 2007

Revising external publications

Breaks in the LFS?

Main series qualify for analysis over the entire period (1995/6-2012)

Relation between unemployment and registered unemployment, employment and NR employment has changed over time -> *this is not affected by the new weighting*

Break in some subgroups, most central among registered unemployed in the LFS

General warning: Tread carefully when analysing across 2006/2007.

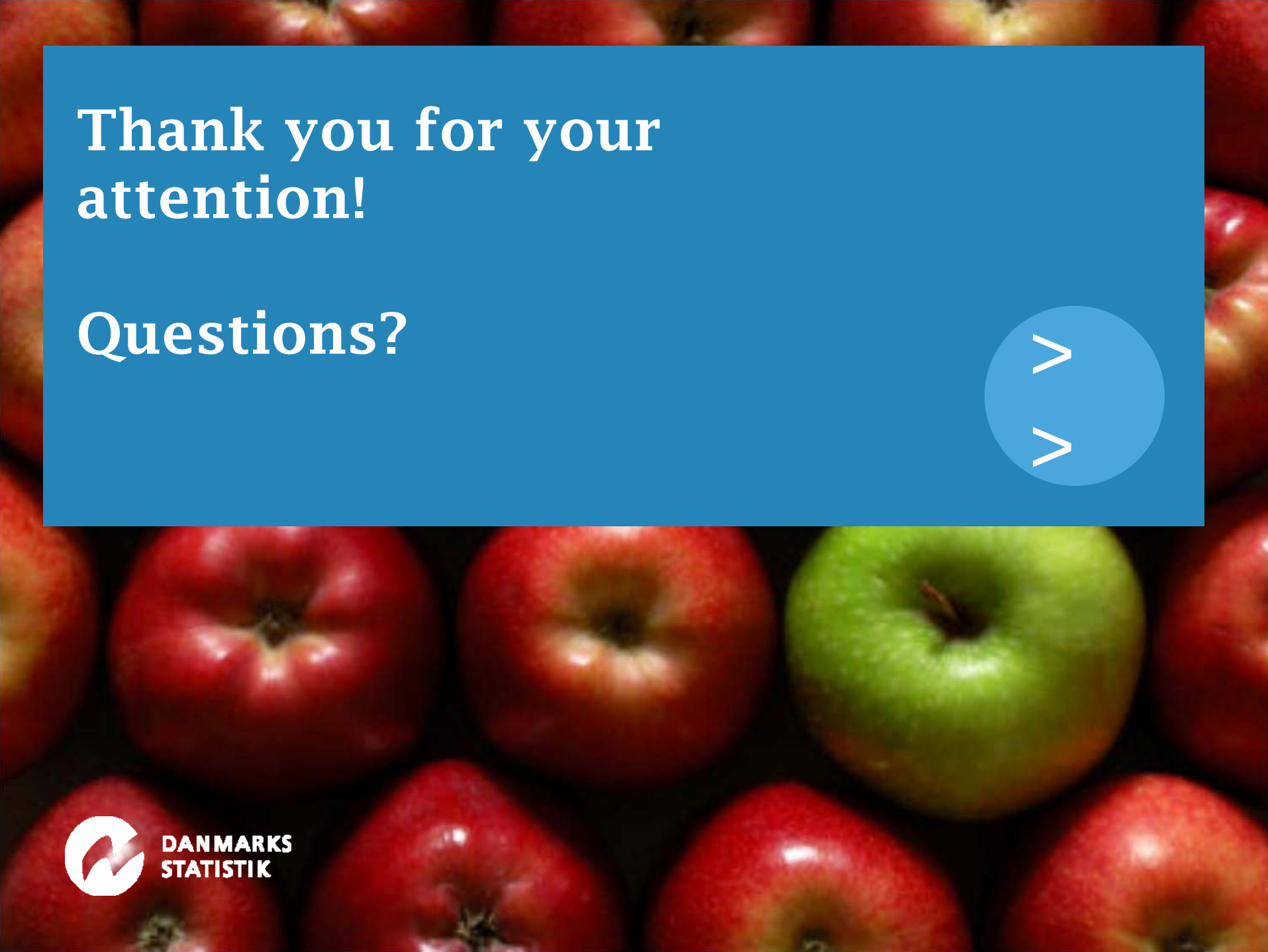
Lessons learned

Communication with the users -> little work afterwards

Documentation central -> reference documents widely circulated – available on homepage

Thank you for your attention!

Questions?



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