



Nowcasting of PPP

Consultation on the ECP Geneva 2003 W.P. 9





Outline of the presentation

- → The tests
- Data availability
- Different versions of nowcasting
- → The results of the tests
- The conclusions





The tests

- →used real-time data to simulate how nowcast would have been executed in t+4 for the reference year t
- wanted to see if nowcast gets better if it is executed at more disaggregated level
- → "better" means that nowcasted PPPs are closer to actual PPPs
- → November 2002: Member States and year 2000 only
- → March 2003: all participating countries and years 2000 and 2001





Data availability at t+4

→ Prices:

- □ results of the first consumer price survey of previous year or no survey results at all; extrapolation necessary
- **→**Extrapolation factors for consumer prices:
 - **MHICP**
 - **⊠national** CPI

→GDP:

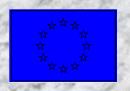
- **⊠first estimate for t from the t+4 delivery**
- **→**Expenditure weights:





Different versions of the nowcast (1)

- 1. Extrapolation of PPPs at total GDP level
- 2. Extrapolation of PPPs at main aggregates level
- 3. Extrapolation of PPPs when PHCE are broken down by 15 categories
- 4. Extrapolation of PPPs when PHCE are at basic heading level





Different versions of the nowcast (2)

- → Versions are different by level of extrapolation of PHCE
- →version 2 to 4:
 - **⊠net tourist purchases : exchange rate**
 - **⊠GFCF:** implicit deflator from NA
 - **⊠changes in stocks: reference PPP of GFCF**
 - **⊠Government FCE: implicit deflator from NA**
 - **NPISH:** implicit deflator of sum of PHCE and NPISH
 - **Net exports: exchange rate**
 - **⊠normal EKS aggregation procedure**





The results (1)

- → More disaggregated extrapolation of PHCE results in better nowcast PPP
- → Moving from PHCE breakdown by 15 categories to 200 (BH) does not give raise to more accuracy
- → deviations between nowcast and actual PPP are bigger outside PHCE
- → the nowcast can only be as good as the input data are in prices and NA

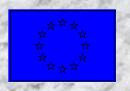




The results (2)

→ Main problems:

- **⊠**significant changes in population figure and exchange rate (non-members of Euro-zone)
- **quality problems with the input data, such as breaks in the timeseries (2000: Cyprus)**
- **⊠extreme changes in relative prices (2000:** Norway)





Conclusions (1)

- → The most reliable and cost efficient way of nowcasting seems to be version 3:
 - **⊠extrapolation of PHCE at level of 15** categories with HICP or national CPI
 - **⊠extrapolation of NPISH by implicit deflator** of the sum of PHCE and NPISH
 - **NA** implicit deflators for GFCF and GG
 - **⊠reference PPP of GFCF for changes in stocks**
 - **⊠exchange rate for net tourist purchases and net exports**





Conclusions (2)

- → Method 3 will be used for the May 2003 nowcast for the reference year 2002 (written procedure with participating countries)
- →nowcast is sensitive to problems in input data; revision results should improve future nowcasts
- →By October 2003 another test will look again into nowcasting at basic heading level and compare it with method 3