Discussion of Peter Claeys's paper on "Uncertainty spillover and policy reactions"

Jacopo Cimadomo European Central Bank

ECFIN workshop on "Fiscal policy in an uncertain environment"

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¹The opinions expressed herein are those of the authors and do not necessarily reflect those of the European Central Bank and the Eurosystem.

This paper

- Effects of macroeconomic uncertainty shocks on economic activity (C, I)
- New measure of uncertainty, based on one-year-ahead forecast errors for GDP growth, unemployment, inflation
 - Consensus forecast data for G7 countries: 15 forecasters for the period 1990-2014
 - Six principal components extracted for this sample (forecast errors)
 - Second factor used as uncertainty index (first factor comoves with business cycle -> endogeneity)
- Estimate the effects of uncertainty shocks on a panel of 50 advanced and emerging economies

Main findings

- Uncertainty shocks have depressing effects of the economy (C, I), albeit small
- 2. Stronger effects in emerging economies than in advanced economies
- More developed financial markets dampen the negative shock effects
- 4. ...this is reinforced by active fiscal policy (if fiscal space is available)
- 5. ...while monetary policy can cushion the shock effects better under a fixed exchange rate peg

Comments

- 1. Construction and interpretation of the uncertainty index
 - ► Alternative index (RCC, 2016)
- 2. Empirical analysis
- 3. Findings

The uncertainty index: really 'global'?

- ► Uncertainty index extracted from a panel of advanced economies: this reflects uncertainty in this set of countries, rather than 'global' uncertainty
- ▶ What about, e.g., Asian (1997) or Russian (1998) crisis and their transmission to advanced economies?

Uncertainty or forecast accuracy?

- ► Total panel of 480 forecasters for six advanced economies (1990-2014)
- Apply two criteria:
 - Some forecasters left the sample (closures, mergers, etc.) -> eliminate forecasters than have been in the sample for less than 24 months
 - 2. No gap between two forecasts larger than six months

Table 1. Number of forecasters in CE, January 1990-October 2014.			
country	(a) total	(b) maximum	(c) selection
US	120	87	4
Japan	95	55	2
Germany	67	58	2
France	64	48	5
UK	111	82	1 /
Italy	54	49	1 /
total	480	395	15

Notes: total number of forecasters in CE database; and the number of forecasters that satisfy the double criterion of continuous forecasting for at least 24 months with no gaps larger than 6 months.

Uncertainty or forecast accuracy?

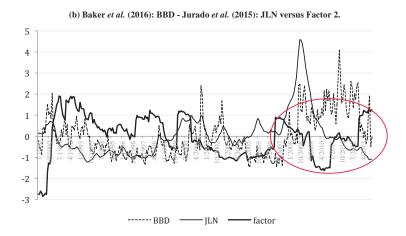
- Why reducing so much the number of forecasters?
- Aim is to capture how uncertainty is reflected in forecast in a given period of time, maybe not so important if a forecaster has left the sample, or if it has released the forecast only at long intervals
- Rather than global uncertainty, this may capture forecast accuracy of single forecasters (which may be affected by several other factors)

Uncertainty index as second factor

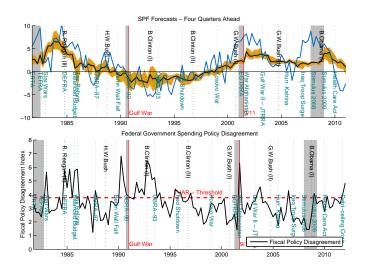
- Six principal components extracted for the sample (forecast errors)
- Second factor used as uncertainty index (first factor comoves with business cycle -> endogeneity)
- Why not the third or fourth factor ...or a combination of factors two to six?

Interpretation of the uncertainty index

- ▶ Which narrative to interpret the dynamics of the index?
- ► Why predominantly negative since 2000? What about the Global Financial Crisis?



Alternative measure: RCC (JME, 2016)



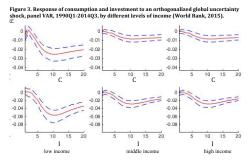
Empirical analysis

$$(3) \qquad \begin{bmatrix} 1 & 0 & 0 \\ \alpha_{0,i,t}^{21} & 1 & 0 \\ \alpha_{0,i,t}^{31} & \alpha_{0,i,t}^{32} & 1 \end{bmatrix} \begin{bmatrix} U_{i,t} \\ C_{i,t} \\ I_{i,t} \end{bmatrix} = \mu_i + \sum_{l=1}^L \begin{bmatrix} \alpha_{l,i,t}^{11} & 0 & 0 \\ \alpha_{l,i,t}^{21} & \alpha_{l,i,t}^{22} & \alpha_{l,i,t}^{23} \\ \alpha_{l,i,t}^{31} & \alpha_{l,i,t}^{32} & \alpha_{l,i,t}^{33} \end{bmatrix} \begin{bmatrix} U_{i,t-l} \\ C_{i,t-l} \\ I_{i,t-l} \end{bmatrix} + \epsilon_{i,t}.$$

- Uncertainty index is included as an endogenous variable in the PVAR. However, it is common to all countries (-> uncertainty index as exogenous in the VAR?)
- Macro variables in emerging economies influence the index in future periods
- Why not including a measure for the fiscal stance and monetary policy indicator directly in the VAR?

Findings

➤ Countries with high income/financial development: uncertainty shocks not very detrimental. Comparison with Baker, Bloom, Davis (2016) and rel. literature?



- Surprising finding that countries with low public debt have more severe effects of the shock. Why?
- Export diversification and exchange rate regime do not seem to generate big difference

Thank you