

Discussion of Andrade, Gaballo, Mengus and Mojon "Forward Guidance and Heterogenous Beliefs"

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Madrid

9.10.2017

[Brief Summary](#)

[Comment 1](#)

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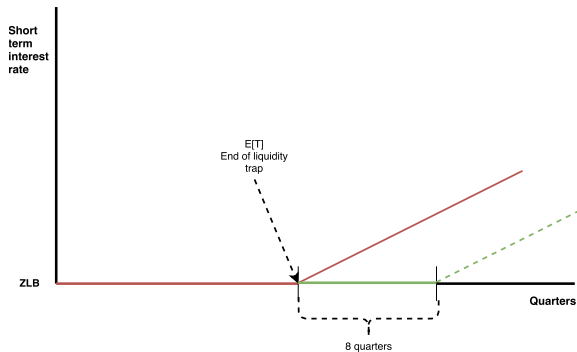
[Comment 3](#)

What is the paper trying to do?

Discussion of
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A. Maršál

Solve forward guidance puzzle.



Brief Summary

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Why is it trying to do this?

Solve forward guidance puzzle.

- ▶ Decades of research studying surprise changes in i_t on economy gives little guidance on MP at ZLB
- ▶ Eggertsson and Woodford (2003) and Carlstorm et al (2012) show that in the model of Smets and Wouters (2007) or Christiano et. al. (2005) forward guidance might have huge impact on the economy
- ▶ Carlstorm et al (2012): 8 quarters of FG predict explosive inflation
- ▶ Not observed in the data: Del Negro et al (2015) forward guidance puzzle
- ▶ Andrade et al. realistic framework to determine the optimal number of periods of extra accommodation

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What's differentiates it from prior research?

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Heterogenous believes - data

	Inflation +	Inflation -
Consumption +	Optimist 25%	C. Borio (BIS) view
Consumption -	Stagflation	Pesimist 25%

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Is there reason to be skeptical about the paper's results?

Heterogenous believes: Comment 1

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	Inflation +	Inflation -
Consumption +	Optimist 25%	C. Borio (BIS) view 25%
Consumption -	Stagflation 25%	Pesimist 25%

Is there reason to be skeptical about the paper's results?

Solution methods: Comment 2

1. Authors omit precautionary savings
 - ▶ Hanson and Stein (2015) FG affects real economy through term premia
 - ▶ Caballero and Farhi (2014) show that FG has sizable effect on term premia
2. linearized model: term premia = 0 by construction
3. i.e. Rudebush and Swanson (2012), Piazzesi Schneider (2006) show the importance $Cov(\pi, \Delta C)$
4. Can you go higher order approx?

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Is there reason to be skeptical about the paper's results?

Solution methods: Comment 2 Cont.

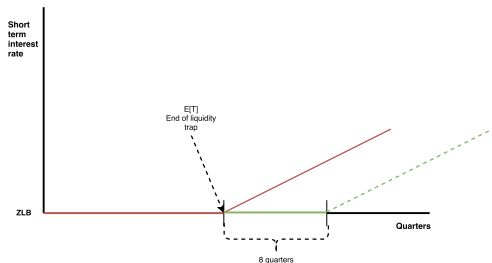
1. Global methods and FG horizon

- ▶ Cochrane (2017, JME) criticizes FG in NK DSGE models for implying that the effect increases with longer horizon
- ▶ Keen et al. (2016) use global methods - allows them to show that the cumulative effect of a longer FG horizon increases over short horizons but decreases thereafter. In line with my long-run money neutrality intuition.

2. Woodford says: FG should be interpreted as CB allowing to have inflation above target for some time, Cochrane (2017, JME) also asks what is the difference between FG and temporal increase in inflation target

What does the model tell us?

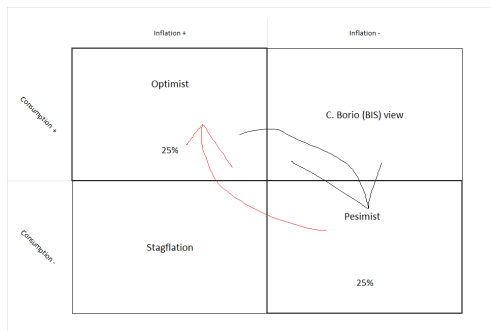
- ▶ if there is too many pessimist (above certain trashhold) give up on forward guidance
- ▶ under this trashhold compensate the pessimist by prolonging the commitment



$$c_{i,t} = \gamma^{-1}(E_{i,t}[\xi_{t+1}] - \xi_t + r_t - E_{i,t}[\pi_{t+1}]) + E_{i,t}[c_{i,t+1}] \quad (1)$$

- ▶ the starting point in the model is recession, $E_t(\pi_{t+n}) < 0$, $E_t(\Delta c_{t+n}) < 0$, everyone is pessimist - homogenous believe
- ▶ new policy (FG) is news shock to Euler equation which is interpreted differently creates heterogenous expectations: group of optimist (α ...number of pessimist is calibrated)
- ▶ Don't the data suggest rather that there are heterogenous expectations

Comment 3



- ▶ People have heterogenous expectations about the fundamentals and FG is actually changing α because it is hard to interpret FG and people have different opinion about it.
- ▶ Why do you think people do not agree on the length of the recession - evidence in the data? Or is it just modeling convenience? I did not find back up for this in the data analysis

Summary of Comments

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1. the idea of the paper is appealing, seems to work well
2. split between optimistic vs. pessimistic expectation might be too simplistic as data suggest
3. term premia seems to be crucial part of the link between FG and real economy but is missing in the model
4. people have heterogenous expectations even without FG