Do firm expectations respond to monetary policy announcements?

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The views expressed here are those of the authors, and not necessarily those of the Bank of England, the Bank of Italy or the Eurosystem

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- Understanding how expectations respond to monetary policy is key for policymakers in order to bring inflation back to target
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 - ► A great deal of attention has been devoted to financial markets
 - But, what about households and firms?

• Study whether firms' expectations in UK respond to Bank of England (BoE) announcements

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 - ► Effects of bank rate changes are highly non-linear wrt the size of the adjustments
 - ▶ Newspaper coverage of the BoE' decisions is important to reach out to the general public

- Monetary policy announcements on expectations: Boneva et al. (2016), Lamla and Vinogradov (2019), Enders et al. (2019), Bottone and Rosolia (2019), Lewis et al. (2019), Claus and Nguyen (2020), Rast (2021), De Fiore et al. (2022), Binder et al. (2022), Ferrando and Forti Grazzini (2023)...
 - Firms' expectations respond to changes in interest rate
- Firms vs Households vs Financial Markets: Andre et al. (2022b), Coibion (2012), Reis (2020), Andre et al. (2022a), Candia et al. (2024), Mikosch et al. (2022), Mikosch et al. (2024)...
 - Firms do not respond to monetary announcements as markets do
- **DMP**: Bloom et al. (2018), Bloom et al. (2019a), Bloom et al. (2019b), Altig et al. (2020), Yotzov et al. (2024) ...

Data

- The DMP was launched in August 2016 by the BoE, the University of Nottingham and Stanford University
- Representative of the U.K. business population
- CFO from small, medium, and large U.K. companies operating in a broad range of sectors respond to questionnaires sent to them every month
- 8,000 firms and around 3,000 firms responding in any given month
- Firms' expectations are computed from the DMP
- DMP is limited in time but covers several monetary and economic events
- Our sample starts in November 2016 and stops in December 2023

Focus on the **following questions** from the survey:

- Looking ahead, from now to 12 months from now, what approximate % change in your AVERAGE PRICE would you assign to each of the following scenarios? (with five scenarios: lowest, low, middle, high, highest provided)
- Please assign a percentage likelihood (probability) to the % changes in your AVERAGE PRICES you entered

Firms' expectations

- Each respondent *i* supplies future price growth rates Δz
- For each variable provided **five values** at support points j = 1, 2, 3, 4, 5; $\Delta z_{i,t,j}$
- Along with the associated probabilities, $p_{i,t,j}$

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- Along with the associated probabilities, $p_{i,t,j}$
- Calculate the respondent's mean expectation of the growth rates, for each period, as:

$$\mathsf{Mean}_{\mathsf{i},\mathsf{t}}(\Delta z_{i,t,j}) = \sum_{j=1}^{N} p_{i,t,j} \cdot \Delta \mathbf{z}_{i,t,j}$$

• Similarly, compute the median, left tail and right tail expectations of the price growth

BoE base rate, CPI Inflation and Own Expected Price Growth



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- High-frequency monetary policy surprises
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- High-frequency monetary policy surprises
- Baseline from Cesa-Bianchi et al. (2020) computed as the changes in the 3-month Sterling future in a 30-minutes window
- Several robustness checks:
 - Isolating the Target component
 - Information-cleaned shocks
 - News-cleaned shocks
 - ► Cleaned with the "poor man" approach by Jarociński and Karadi (2020)

Shock validation Time series

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Changes in BoE Policy Rate • Announcements in the sample



Monetary policy surprises, the changes in the 3-month Sterling future

Announcements in the sample



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Empirical Strategy





DMP Wave

The survey allows us to exploit cross-sectional variation in subjective firms' expectations

DMP Responses within month



Responses are mainly filed in the second and third week of the month

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$$y_{i,t} = \alpha + \delta D_{i,t} + \beta D_{i,t} \mathbf{s}_t + \gamma X_{i,t} + \epsilon_{i,t}$$

- *y*_{*i*,*t*} is one of the **moments** of the expected price growth distribution i.e., mean, median, or tails
- $D_{i,t}$ is a dummy equal to 1 if the firm responds after the announcement and 0 otherwise

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- **s**_t is the monetary policy shocks
- X_{i,t} is the matrix of control variables, including MPC announcement fixed effects, industry fixed effects, past price growth, firm's size, exporter status and ONS releases
- Robust standard errors

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- Robust standard errors
- β capture the average effect of a 25bps monetary policy shock on $y_{i,t}$

What monetary policy shocks do firms respond to?

Policy rate changes, actual and information-cleaned

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Mean price	Median price	Left tail price	Right tail price	Mean price	Median price	Left tail price	Right tail price
BR x D MPC	-0.354	-0.402*	-0.447**	-0.302				
	(0.228)	(0.236)	(0.222)	(0.262)				
BR (Info) × D MPC					-0.793**	-0.871**	-0.824**	-0.821**
					(0.349)	(0.351)	(0.333)	(0.400)
D MPC	-0.525*	-0.385	-0.355	-0.643*	-1.025**	-0.929**	-0.845**	-1.184**
	(0.299)	(0.305)	(0.280)	(0.348)	(0.414)	(0.413)	(0.375)	(0.482)
Past price growth	0.185***	0.166***	0.146***	0.215***	0.185***	0.166***	0.146***	0.215***
	(0.0210)	(0.0214)	(0.0216)	(0.0231)	(0.0210)	(0.0214)	(0.0216)	(0.0230)
Medium (50-250)	-0.565***	-0.332**	-0.249*	-0.824***	-0.562***	-0.328**	-0.246*	-0.820***
	(0.147)	(0.150)	(0.145)	(0.165)	(0.147)	(0.150)	(0.145)	(0.165)
Large (above 250)	-0.966***	-0.633***	-0.415***	-1.435***	-0.965***	-0.632***	-0.413***	-1.434***
	(0.155)	(0.159)	(0.158)	(0.173)	(0.155)	(0.159)	(0.158)	(0.173)
Exporter	-0.132	-0.163	-0.276**	0.00187	-0.127	-0.158	-0.272**	0.00710
	(0.126)	(0.128)	(0.125)	(0.140)	(0.126)	(0.128)	(0.125)	(0.140)
Observations	6664	6664	6664	6664	6664	6664	6664	6664
R^2	0.183	0.161	0.140	0.191	0.183	0.161	0.140	0.192
Wave FE	YES	YES	YES	YES	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES	YES	YES	YES	YES
Number of meetings	48	48	48	48	48	48	48	48
BR change meetings	13	13	13	13				

High-frequency monetary policy surprises • Other shocks

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
Surprise × Dummy MPC	1.897	1.694	1.087	2.469*
	(1.277)	(1.281)	(1.232)	(1.417)
Dummy MPC	-0.774**	-0.672*	-0.642**	-0.891**
	(0.343)	(0.347)	(0.317)	(0.400)
D	0.104***	0.101***	0.140***	0.014***
Past price growth	0.184	0.164	0.143	0.214
	(0.0211)	(0.0214)	(0.0216)	(0.0232)
Medium (50-250)	-0.634***	-0.406***	-0.320**	-0.898***
(00 200)	(0 149)	(0.151)	(0.146)	(0.168)
	(0.149)	(0.131)	(0.140)	(0.100)
Large (above 250)	-1.031***	-0.710***	-0.477***	-1.511***
	(0.157)	(0.159)	(0.158)	(0.176)
Exporter	-0.165	-0.193	-0.306**	-0.0338
	(0.129)	(0.131)	(0.128)	(0.144)
-				
Constant	4.328***	3.936***	2.840***	5.781***
	(0.292)	(0.298)	(0.270)	(0.345)
Observations	6287	6287	6287	6287
R^2	0.186	0.164	0.141	0.198
Wave FE	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	47	47	47	47

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• The average effects might mask important non-linearities in the firms' reaction
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- Do the effects depends on the size of the bank rate changes?
- Differenciate meetings with rate changes of 50 bps and above from those below
- Then we consider a time-dependent cut of the data:
 - ► The rate cut of 50 basis points on March 11, 2020 in response to the COVID pandemic
 - ► The **substantial rate hikes** at the peak of the tightening cycle of 50 basis points and above - from July 2022 to February 2023
 - The beginning and end of the cycle mainly characterized by rate hikes of 15 and 25 bps
 - from December 2021 to June 2022 and from March 2023 to December 2023

Policy rate changes, large vs small adjustments

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
BR change (< 50 <i>bps</i>) × Dummy mpc	0.549	0.570	0.679	0.501
	(0.659)	(0.685)	(0.647)	(0.751)
	0.002**	0.000**	0.757***	0 500
BR change ($\geq 50 bps $) × Dummy mpc	-0.603	-0.009	-0.757	-0.523
	(0.305)	(0.308)	(0.289)	(0.351)
Dummy MPC	-0.921**	-0.811**	-0.849**	-0.995**
	(0.416)	(0.409)	(0.379)	(0.485)
Past price growth	0.185***	0.166***	0.146***	0.215***
	(0.0210)	(0.0214)	(0.0216)	(0.0230)
Constant	4.297***	3.910***	2.888***	5.690***
	(0.339)	(0.340)	(0.310)	(0.400)
Observations	6664	6664	6664	6664
R^2	0.183	0.161	0.140	0.192
Wave FE	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	48	48	48	48
BR change meetings	13	13	13	13

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The Bank of England's tightening cycle

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
Covid BR change	-0.902***	-0.978***	-0.923***	-0.964**
	(0.330)	(0.333)	(0.316)	(0.381)
Bookends cycle BR changes	0.890	0.872	0.606	1.203*
	(0.568)	(0.577)	(0.535)	(0.650)
Peak cycle BR changes	-1.736**	-1.718*	-1.542*	-1.980**
	(0.868)	(0.885)	(0.845)	(0.956)
Dummy MPC	-1.338***	-1.223***	-1.047***	-1.626***
	(0.423)	(0.414)	(0.378)	(0.495)
Past price growth	0.186***	0.166***	0.146***	0.215***
	(0.0210)	(0.0214)	(0.0216)	(0.0230)
Constant	4.812***	4.403***	3.220***	6.384***
	(0.398)	(0.399)	(0.370)	(0.460)
Observations	6664	6664	6664	6664
R^2	0.184	0.162	0.141	0.193
Wave FE	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	48	48	48	48
BR change meetings	13	13	13	13

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- The role of newspaper •••••
- Heterogeneity across firms' characterstics •••
- Different window size Go
- Testing identification Go
- Different level of saturation •••••
- Distinguish by size of shocks •••••
- Distinguish by sign of shocks •• ••

Conclusion

- Study whether UK firms' expectations respond to monetary policy
- We compare responses to survey before and after MPC announcements
- Find that firms' expected price growth respond to announcements of policy rate changes
- Results mainly driven by changes in the left tail of the distribution
- Document that firms' expectations do not respond to monetary policy surprises
- Effects of bank rate changes are highly non-linear wrt the size of the adjustments

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Changes in BoE Policy Rate, announcements used • Back



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Monetary policy surprises, announcements used • Back



MP shocks and financial market's inflation expectations • Back

	(1)	(2)	(3)	(4)	(5)	(6)
	Infl. swaps 1y	Infl. swaps 1y	Infl. swaps 2y	Infl. swaps 2y	Infl. swaps 5-2y	Infl. swaps 5-2y
Dummy MPC	0.00507	0.00976	0.0209**	0.0340***	-0.00870*	-0.00362
	(0.0179)	(0.0196)	(0.00912)	(0.00962)	(0.00473)	(0.00507)
	0.00055		0.0240		0.0111	
BR change x Dummy MPC	-0.00255		0.0240		0.0111	
	(0.0301)		(0.0149)		(0.00770)	
Surprise × Dummy MPC		-0.138		-0.0766**		0.000248
		(0.0918)		(0.0381)		(0.0253)
Dummy ONS Infl.	0.0348	0.0254	-0.00693	-0.0125	0.00119	-0.00152
	(0.0244)	(0.0235)	(0.0137)	(0.0129)	(0.00942)	(0.00921)
CPI surprise x Dummy ONS	0.810***	0.888***	0.374***	0.435***	-0.00296	0.00847
	(0.0970)	(0.111)	(0.0591)	(0.0632)	(0.0382)	(0.0398)
Dummu ONS Emal	0.127***	0.100***	0.0702***	0.0709***	0.0124	0.0112
Dummy ONS Empl.	-0.137	-0.120	-0.0793	-0.0798	-0.0134	-0.0112
	(0.0284)	(0.0217)	(0.0147)	(0.0121)	(0.0102)	(0.0107)
Unemp. surprise × Dummy ONS Empl.	0.552***	0.568***	-0.0255	0.0102	-0.141***	-0.121***
	(0.117)	(0.106)	(0.0575)	(0.0493)	(0.0370)	(0.0373)
Wage surprise x Dummy ONS Empl	0 481***	0 456***	0.00539	-0.0110	-0.0523	-0.0652
Hage surprise x Banniny offic Empli	(0.123)	(0.116)	(0.0468)	(0.0414)	(0.0384)	(0.0396)
	(0.125)	(0.110)	(0.0400)	(0.0414)	(0.0504)	(0.0330)
Constant	4.055***	4.086***	3.837***	3.856***	3.724***	3.728***
	(0.0108)	(0.0106)	(0.00525)	(0.00511)	(0.00285)	(0.00287)
Observations	521	512	521	512	521	512
Wave FE	YES	YES	YES	YES	YES	YES
Number of meetings	57	57	57	57	57	57
BR change meetings	17		17		17	

MP shocks and financial market's inflation expectations • Back

	(1)	(2)	(3)	(4)	(5)	(6)
	Infl. swaps 1y	Infl. swaps 1y	Infl. swaps 2y	Infl. swaps 2y	Infl. swaps 5-2y	Infl. swaps 5-2y
Dummy MPC	0.0115	0.00853	0.0350***	0.0336***	-0.00366	-0.00406
	(0.0190)	(0.0193)	(0.00956)	(0.00953)	(0.00530)	(0.00518)
Surprise (Info clean) × Dummy MPC	-0.236**		-0.124***		-0.00589	
	(0.102)		(0.0403)		(0.0251)	
Surprise (News clean) × Dummy MPC		-0.217**		-0.106***		-0.0207
		(0.0942)		(0.0367)		(0.0206)
Dummy ONS Infl.	0.0299	0.0276	-0.0104	-0.0119	-0.00124	-0.000698
	(0.0235)	(0.0227)	(0.0128)	(0.0126)	(0.00917)	(0.00927)
	· /	· · ·	· · ·	· · ·	· · · ·	· · · ·
CPI surprise × Dummy ONS	0.905***	0.826***	0.442***	0.400***	0.0106	0.00879
	(0.104)	(0.0900)	(0.0609)	(0.0564)	(0.0385)	(0.0371)
Dummy ONS Empl.	-0.134***	-0.130***	-0.0826***	-0.0801***	-0.0116	-0.0123
	(0.0212)	(0.0214)	(0.0121)	(0.0119)	(0.0106)	(0.0105)
Uname autorica y Dummy ONS Empl	0 569***	0.605***	0.0109	0.0202	0.122***	0.110***
onemp. surprise x Dummy ONS Empl.	(0.110)	(0.112)	(0.0484)	(0.0293	-0.122	-0.119
	(0.110)	(0.113)	(0.0484)	(0.0499)	(0.0370)	(0.0300)
Wage surprise × Dummy ONS Empl.	0.471***	0.440***	-0.00355	-0.0206	-0.0641	-0.0641
	(0.120)	(0.114)	(0.0385)	(0.0416)	(0.0395)	(0.0395)
Constant	4.086***	4.086***	3.856***	3.856***	3.728***	3.728***
	(0.0106)	(0.0106)	(0.00507)	(0.00510)	(0.00287)	(0.00287)
Observations	512	512	512	512	512	512
Wave FE	YES	YES	YES	YES	YES	YES
Number of meetings	57	57	57	57	57	57

Alternative monetary policy shocks • Back

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Median price						
Dummy MPC	-0.645*	-0.725**	-0.663*	-0.668*	-0.771**	-0.675*	-0.665*
	(0.358)	(0.350)	(0.346)	(0.347)	(0.372)	(0.346)	(0.345)
Surprise (Info clean) × Dummy MPC	0.706						
	(1.345)						
Surprise (News clean) × Dummy MPC		1.722					
		(1.271)					
Surprise (JK clean) × Dummy MPC			1.266				
			(1.277)				
Target × Dummy MPC				0.593			
				(1.601)			
Target (Info clean) × Dummy MPC					-0.893		
					(1.746)		
Target (News clean) × Dummy MPC						0.742	
						(1.630)	
Target (JK clean) × Dummy MPC							0.777
							(1.640)
Observations	6287	6287	6287	6287	6287	6287	6287
R ²	0.163	0.164	0.163	0.163	0.163	0.163	0.163
Wave FE	YES						
Sector FE	YES						
ONS controls	YES						
Number of meetings	47	47	47	47	47	47	47
Standard errors in parenthe	ses						
* $p < 0.10$, ** $p < 0.05$, **	* p < 0.01						

Predicted probability of responding after the announcement **Back**



Di Pace, Mangiante & Masolo

MPC announcements and firms' expectations, testing identification • Back

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
Dummy MPC	-0.394	-0.236	-0.190	-0.531
	(0.287)	(0.293)	(0.273)	(0.333)
Past price growth	0.185***	0.166***	0.146***	0.215***
	(0.0210)	(0.0214)	(0.0216)	(0.0231)
M	0.500***	0.000**	0.050*	0.004***
Medium (50-250)	-0.566	-0.333	-0.250	-0.824
	(0.147)	(0.150)	(0.145)	(0.165)
Large (above 250)	-0.966***	-0.633***	-0.414***	-1.435***
	(0.155)	(0.159)	(0.158)	(0.173)
Exporter	-0.134	-0.166	-0.279**	-0.000211
	(0.126)	(0.128)	(0.125)	(0.140)
Constant	3 870***	3 430***	2 352***	5 318***
Constant	(0.255)	(0.267)	(0.248)	(0.300)
01	(0.233)	(0.201)	(0.240)	(0.500)
Observations	6664	6664	6664	6664
R ²	0.183	0.160	0.139	0.191
Wave FE	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	47	47	47	47
Standard errors	in parenth	0505		

Standard errors in parentheses * p < 0.10, ** p < 0.05, *** p < 0.01

Di Pace, Mangiante & Masolo



Di Pace, Mangiante & Masolo

Monetary Policy Surprises • Back



Di Pace, Mangiante & Masolo



• We collect data on newspaper coverage from GDELT

- We collect data on newspaper coverage from GDELT
- Focus on the percentage of total news articles mentioning specific keywords:
 - ► Bank of England
 - Inflation
 - ▶ Bank of England, Policy Rate or Interest Rate
 - ▶ Inflation, Prices or Consumer Price Index.

- We collect data on newspaper coverage from GDELT
- Focus on the percentage of total news articles mentioning specific keywords:
 - ► Bank of England
 - Inflation
 - ▶ Bank of England, Policy Rate or Interest Rate
 - ▶ Inflation, Prices or Consumer Price Index.
- Evaluate the relationship between monetary policy announcements and media coverage

Narrower definitions • Back



Broader definitions • Back



MPC announcements and newspaper coverage • Back

	(1)	(2)	(3)	(4)
	News on BoE	News on Infl.	News on BoE (broader)	News on Infl. (broader)
Dummy MPC	0.0107***	-0.00402	0.00722*	0.00113
	(0.00393)	(0.00510)	(0.00430)	(0.00766)
	ate de ate	ala ala ala		
Abs. BR change × Dummy MPC	0.0241***	0.0289***	0.0248***	0.0295**
	(0.00852)	(0.0100)	(0.00891)	(0.0128)
Abs Surprise X Dummy MPC	0 0344	0.0348	0.0477*	0.0592
Abs. Surprise x Building wir e	(0.0345)	(0.0327)	(0,0266)	(0.0407)
	(0.0245)	(0.0327)	(0.0288)	(0.0497)
Constant	0.0235***	0.0783***	0.0351***	0.229***
	(0.00156)	(0.00288)	(0.00176)	(0.00416)
Observations	554	554	554	554
R^2	0.491	0.816	0.503	0.835
Wave FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	56	56	56	56
Standard errors in paren	theses			

* p < 0.10, ** p < 0.05, *** p < 0.01

High-frequency surprises and firms' expectations, with different levels of saturation **Back**

	(1)	(2)	(3)	(4)	(5)	(6)
	Median price	Left tail price	Median price	Left tail price	Median price	Left tail price
Surprise x Dummy MPC	1.804	1.207	1.694	1.087	0.858	0.253
	(1.286)	(1.236)	(1.281)	(1.232)	(1.412)	(1.430)
Dummy MPC	-0.671*	-0.651**	-0.672*	-0.642**	-0.627*	-0.537*
	(0.350)	(0.319)	(0.347)	(0.317)	(0.332)	(0.310)
Past price growth	0.167***	0.147***	0.164***	0.143***	0.160***	0.142***
	(0.0214)	(0.0217)	(0.0214)	(0.0216)	(0.0218)	(0.0221)
Medium (50-250)	-0.423***	-0.321**	-0.406***	-0.320**	-0.444***	-0.334**
	(0.151)	(0.146)	(0.151)	(0.146)	(0.153)	(0.150)
Large (above 250)	-0.649***	-0.390**	-0.710***	-0.477***	-0.725***	-0.476***
	(0.157)	(0.156)	(0.159)	(0.158)	(0.163)	(0.161)
Exporter	-0.256**	-0.361***	-0.193	-0.306**	-0.165	-0.268**
	(0.116)	(0.114)	(0.131)	(0.128)	(0.133)	(0.130)
Constant	3.950***	2.839***	3.936***	2.840***	3.913***	2.743***
	(0.297)	(0.270)	(0.298)	(0.270)	(0.286)	(0.267)
Observations	6287	6287	6287	6287	6244	6244
R^2	0.157	0.132	0.164	0.141	0.228	0.201
Wave FE	YES	YES	YES	YES	NO	NO
Sector FE	NO	NO	YES	YES	NO	NO
Wave × Sector FE	YES	NO	NO	NO	YES	YES
ONS controls	YES	YES	YES	YES	YES	YES
Number of meetings	47	47	47	47	47	47

Standard errors in parentheses

* p < 0.10, ** p < 0.05, *** p < 0.01

Di Pace, Mangiante & Masolo

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Bank rate changes and firms' expectations, with different levels of saturation Back

	(1)	(2)	(3)	(4)	(5)	(6)
	Median price	Left tail price	Median price	Left tail price	Median price	Left tail price
BR change × Dummy MPC	-0.397*	-0.448**	-0.402*	-0.447**	-0.382	-0.390*
	(0.236)	(0.221)	(0.236)	(0.222)	(0.242)	(0.230)
Dummy MPC	-0.387	-0.365	-0.385	-0.355	-0.327	-0.245
	(0.306)	(0.281)	(0.305)	(0.280)	(0.296)	(0.279)
Past price growth	0.168***	0.149***	0.166***	0.146***	0.161***	0.145***
	(0.0213)	(0.0216)	(0.0214)	(0.0216)	(0.0217)	(0.0219)
Medium (50-250)	-0.356**	-0.257*	-0.332**	-0.249*	-0.383**	-0.278*
(,	(0.149)	(0.144)	(0.150)	(0.145)	(0.150)	(0.146)
Large (above 250)	-0.597***	-0.354**	-0.633***	-0.415***	-0.660***	-0.430***
	(0.155)	(0.153)	(0.159)	(0.158)	(0.160)	(0.158)
Exporter	-0.241**	-0.345***	-0.163	-0.276**	-0.137	-0.239*
	(0.113)	(0.111)	(0.128)	(0.125)	(0.128)	(0.125)
Constant	3.709***	2.636***	3.678***	2.619***	3.671***	2.533***
	(0.299)	(0.272)	(0.304)	(0.276)	(0.294)	(0.274)
Observations	6664	6664	6664	6664	6621	6621
R^2	0.156	0.133	0.161	0.140	0.226	0.201
Wave FE	YES	YES	YES	YES	NO	NO
Sector FE	NO	NO	YES	YES	NO	NO
Wave × Sector FE	NO	NO	NO	NO	YES	YES
ONS controls	YES	YES	YES	YES	YES	YES
Number of meetings	48	48	48	48	48	48

Standard errors in parentheses * p < 0.10, ** p < 0.05, *** p < 0.01

Info cleaned bank rate changes and firms' expectations, with different levels of saturation • Back

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							
Median price Left tail price Left tail price Median price Left tail price Median price Left tail price Median price Left tail price Left tail price Left tail price Left tail price <thleft price<="" tail="" th=""> Left tail price <t< td=""><td></td><td>(1)</td><td>(2)</td><td>(3)</td><td>(4)</td><td>(5)</td><td>(6)</td></t<></thleft>		(1)	(2)	(3)	(4)	(5)	(6)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Median price	Left tail price	Median price	Left tail price	Median price	Left tail price
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	BR change (Info clean) × Dummy MPC	-0.868**	-0.831**	-0.871**	-0.824**	-0.800**	-0.692**
$ \begin{array}{c cccc} Dummy\;MPC & -0.930^{**} & -0.861^{**} & -0.929^{**} & -0.845^{**} & -0.839^{**} & -0.663^{*} \\ (0.415) & (0.376) & (0.413) & (0.375) & (0.395) & (0.377) \\ \end{array} \\ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.349)	(0.330)	(0.351)	(0.333)	(0.349)	(0.342)
$ \begin{array}{c ccccc} & (0.415) & (0.376) & (0.413) & (0.375) & (0.395) & (0.377) \\ \hline Past price growth & 0.166^{***} & 0.146^{***} & 0.166^{***} & 0.146^{***} & 0.161^{***} & 0.161^{***} & 0.144^{***} \\ (0.0213) & (0.0216) & (0.0214) & (0.0216) & (0.0216) & (0.0219) \\ \hline Medium (50-250) & -0.354^{**} & -0.255^{*} & -0.328^{**} & -0.245^{*} & -0.274^{*} \\ (0.149) & (0.140) & (0.140) & (0.145) & (0.150) \\ \hline Large (above 250) & -0.596^{***} & -0.353^{**} & -0.632^{***} & -0.413^{***} & -0.658^{***} & -0.429^{***} \\ (0.155) & (0.153) & (0.159) & (0.158) & (0.160) & (0.158) \\ \hline Exporter & -0.238^{**} & -0.342^{***} & -0.158 & -0.272^{**} & -0.133 & -0.236^{*} \\ (0.113) & (0.111) & (0.128) & (0.215^{**} & 0.133) & -0.236^{*} \\ (0.125) & (0.125) & (0.125) & (0.125) \\ \hline Constant & 3.973^{***} & 2.846^{***} & 3.939^{***} & 2.826^{***} & 3.915^{***} & 2.707^{***} \\ (0.338) & (0.307) & (0.339) & (0.308) & (0.326) & (0.327) \\ \hline Observations & 6664 & 6664 & 6664 & 6664 & 6661 \\ R^2 & 0.156 & 0.133 & 0.161 & 0.140 & 0.226 & 0.201 \\ \hline Wave FE & YES & YES & YES & YES & NO & NO \\ Sector FE & NO & NO & YES & YES & NO & NO \\ NO & NO & YES & YES & NO & NO \\ ONC & NO & NO & NO & NO & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ONS controls & YES & YES & YES & YES & YES & YES \\ ON$	Dummy MPC	-0.930**	-0.861**	-0.929**	-0.845**	-0.839**	-0.663*
Past price growth 0.166^{***} 0.149^{***} 0.166^{***} 0.166^{***} 0.166^{***} 0.161^{***} 0.144^{***} Medium (50-250) -0.354^{**} -0.255^{**} -0.328^{**} -0.24^{**} 0.037^{**} -0.274^{**} Large (above 250) -0.356^{***} -0.328^{**} -0.44^{***} 0.166^{***} 0.146^{***} 0.160^{***} 0.274^{**} Large (above 250) -0.556^{***} 0.335^{**} -0.632^{***} -0.413^{***} -0.429^{***} Exporter -0.238^{**} -0.342^{***} -0.158 -0.272^{**} -0.133 -0.236^{*} Constant 0.339^{**} 2.84^{***} -0.158 -0.272^{**} -0.133 -0.236^{*} Observations 6664 6664 6664 6661 6621 6621 R^2 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES YES YES NO NO Wave X Sector FE NO		(0.415)	(0.376)	(0.413)	(0.375)	(0.395)	(0.377)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Past price growth	0.168***	0.149***	0.166***	0.146***	0.161***	0.144***
		(0.0213)	(0.0216)	(0.0214)	(0.0216)	(0.0216)	(0.0219)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Medium (50-250)	-0.354**	-0.255*	-0.328**	-0.246*	-0.379**	-0.274*
Large (above 250) -0.596*** -0.353** -0.632*** -0.413*** -0.658*** -0.429*** (0.155) (0.153) (0.159) (0.158) (0.160) (0.158) Exporter -0.238** -0.342*** -0.158 -0.272** -0.133 -0.236* (0.113) (0.111) (0.128) (0.125) (0.120) (0.125) Constant 3.973*** 2.846*** 3.939*** 2.826*** 3.915*** 2.707*** (0.338) (0.337) (0.339) (0.339) (0.326) (0.327) Observations 6664 6664 6664 6664 6621 R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES YES NO NO Wave X Sector FE NO NO NO NO YES		(0.149)	(0.144)	(0.150)	(0.145)	(0.150)	(0.146)
(0.155) (0.153) (0.158) (0.158) (0.160) (0.158) Exporter -0.238** -0.342*** -0.158 -0.272** -0.133 -0.236* (0.113) (0.113) (0.159) (0.128) (0.128) (0.128) Constant 3.973*** 2.848*** 3.939** 2.826*** 3.915*** 2.707*** (0.338) (0.337) (0.339) (0.338) (0.326) (0.326) (0.327) Observations 6664 6664 6664 6661 6621 6621 R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES YES NO NO Sector FE NO NO VES YES NO NO ONS controls YES YES YES YES YES YES YES YES YES OND NO NO NO NO NO NO NO <td< td=""><td>Large (above 250)</td><td>-0.596***</td><td>-0.353**</td><td>-0.632***</td><td>-0.413***</td><td>-0.658***</td><td>-0.429***</td></td<>	Large (above 250)	-0.596***	-0.353**	-0.632***	-0.413***	-0.658***	-0.429***
Exporter -0.328** -0.342*** -0.158 -0.272** -0.133 -0.236* (0.113) (0.111) (0.128) (0.125) (0.128) (0.125) Constant 3.973*** 2.848*** 3.939*** 2.826*** 3.915*** 2.707*** (0.338) (0.337) (0.339) (0.326) (0.326) (0.326) Observations 6664 6664 6664 6664 6621 6621 R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YE5 YE5 YE5 NO NO Sector FE NO NO YE5 YE5 NO NO ONscontrols YE5 YE5 YE5 YE5 YE5 YE5 YE5 YE5 YE5		(0.155)	(0.153)	(0.159)	(0.158)	(0.160)	(0.158)
(0.113) (0.111) (0.128) (0.125) (0.128) (0.125) Constant 3.973*** 2.848*** 3.939*** 2.826*** 3.915*** 2.707*** (0.338) (0.307) (0.339) (0.308) (0.326) (0.307) Observations 6664 6664 6664 6664 6664 6621 Wave FE YES YES YES NO NO NO Sector FE NO NO YES YES NO NO ONs controls YES YES YES YES YES YES ONs controls YES YES YES YES YES YES ONs controls YES YES YES YES YES YES	Exporter	-0.238**	-0.342***	-0.158	-0.272**	-0.133	-0.236*
Constant 3.973*** 2.848*** 3.939*** 2.826*** 3.915*** 2.707*** (0.338) (0.307) (0.339) (0.308) (0.326) (0.307) Observations 6664 6664 6664 6664 6621 6621 R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES NO NO Sector FE NO NO YES YES NO NO Wave X Sector FE NO NO NO NO YES YES YES ONScontrols YES YES YES YES YES YES YES YES ONmore frametings 48 48 48 48 48 48 48		(0.113)	(0.111)	(0.128)	(0.125)	(0.128)	(0.125)
(0.338) (0.307) (0.339) (0.308) (0.326) (0.307) Observations 6664 6664 6664 6662 6621 6621 R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES NO NO Sector FE NO NO YES YES NO NO Wave X Sector FE NO NO NO NO YES YES VES VES VES NO NO ONS controls YES	Constant	3.973***	2.848***	3.939***	2.826***	3.915***	2.707***
Observations 6664 6664 6664 6664 6661 6621 6621 R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES YES NO NO Sector FE NO NO YES YES NO NO Wave x Sector FE NO NO NO NO YES YES YES ONS controls YES YES YES YES YES YES YES Mumber of meetings 48 48 48 48 48 48		(0.338)	(0.307)	(0.339)	(0.308)	(0.326)	(0.307)
R ² 0.156 0.133 0.161 0.140 0.226 0.201 Wave FE YES YES YES NO NO Sector FE NO NO YES YES NO NO Wave x Sector FE NO NO NO NO YES YES ONS controls YES YES YES YES YES YES Number of meetings 48 48 48 48 48 48	Observations	6664	6664	6664	6664	6621	6621
Wave FE YES YES YES NO NO Sector FE NO NO YES YES NO NO Wave x Sector FE NO NO NO NO YES YES YES ONS controls YES YES YES YES YES YES YES Number of meetings 48 48 48 48 48 48 48	R ²	0.156	0.133	0.161	0.140	0.226	0.201
Sector FE NO NO YES YES NO NO Wave x Sector FE NO NO NO NO YES YES YES ONS controls YES YES YES YES YES YES YES Number of meetings 48 48 48 48 48 48	Wave FE	YES	YES	YES	YES	NO	NO
Wave x Sector FE NO NO NO NO YES YES ONS controls YES	Sector FE	NO	NO	YES	YES	NO	NO
ONS controls YES YES YES YES YES YES Number of meetings 48 48 48 48 48 48	Wave × Sector FE	NO	NO	NO	NO	YES	YES
Number of meetings 48 48 48 48 48 48	ONS controls	YES	YES	YES	YES	YES	YES
	Number of meetings	48	48	48	48	48	48

Standard errors in parentheses * p < 0.10. *** p < 0.05. *** p < 0.01

Surprises categorized by size and firms' expectations • Back

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
Surprise bottom 1/3 x Dummy MPC	1.249	1.137	0.837	1.365
	(1.607)	(1.580)	(1.587)	(1.728)
Surprise middle 1/3 x Dummy MPC	-14.50	-15.83	-31.59	2.032
	(21.25)	(21.21)	(20.88)	(24.16)
Surprise top $1/3 \times Dummy MPC$	3.378	3.009	1.967	4.674
	(2.587)	(2.646)	(2.394)	(2.985)
Dummy MPC	-0.938**	-0.821**	-0.767**	-1.105**
	(0.388)	(0.390)	(0.362)	(0.447)
Past price growth	0.184***	0.164***	0.143***	0.215***
	(0.0212)	(0.0215)	(0.0217)	(0.0233)
Medium (50-250)	-0.635***	-0.407***	-0.321**	-0.900***
	(0.149)	(0.151)	(0.146)	(0.168)
Large (above 250)	-1.032***	-0.711***	-0.477***	-1.514***
	(0.157)	(0.160)	(0.159)	(0.176)
Exporter	-0.165	-0.193	-0.307**	-0.0332
	(0.129)	(0.131)	(0.128)	(0.144)
Constant	4.305***	3.914***	2.814***	5.760***
	(0.295)	(0.300)	(0.272)	(0.349)
Observations	6287	6287	6287	6287
R ²	0.186	0.164	0.141	0.198
Wave FE	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	47	47	47	47

Di Pace, Mangiante & Masolo

Surprises categorized by sign and firms' expectations • Back

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
Positive Surprises	3.119	2.718	1.431	4.695
	(2.590)	(2.652)	(2.389)	(2.996)
No	1.074	1 170	0.010	1.005
Negative Surprises	1.274	1.175	0.912	1.555
	(1.618)	(1.592)	(1.596)	(1.741)
Dummy MPC	-0.896**	-0.773**	-0.676*	-1.112**
	(0.389)	(0.391)	(0.359)	(0.453)
Past price growth	0.184***	0.164***	0.143***	0.215***
r ase price Brotten	(0.0212)	(0.0215)	(0.0217)	(0.0232)
				· · · ·
Medium (50-250)	-0.635***	-0.407***	-0.321**	-0.900***
	(0.149)	(0.151)	(0.146)	(0.168)
Large (above 250)	-1.033***	-0.711***	-0.477***	-1.514***
	(0.157)	(0.160)	(0.159)	(0.176)
Exporter	-0.165	-0.192	-0.306**	-0.0331
	(0.129)	(0.131)	(0.128)	(0.144)
Constant	4 217***	3 027***	2 927***	5 760***
Constant	(0.204)	(0 300)	(0.272)	(0.347)
Observations	6297	6287	6297	6297
	0.196	0.164	0 141	0.109
Waxe EE	VES	0.104 VES	0.141 VES	VES
Sector EE	VES	VES	VES	VES
ONC controls	I ES	I ES	i E3	VEC
UNS controls	YES	YES	YES	YE5

Bank rate changes by size and firms' expectations • Back

	(1)	(2)	(3)	(4)
	Mean price	Median price	Left tail price	Right tail price
BR change (< 50 <i>bps</i>) × Dummy mpc	0.549	0.570	0.679	0.501
	(0.659)	(0.685)	(0.647)	(0.751)
BR change (>= $ 50bps $) × Dummy mpc	-0.603**	-0.669**	-0.757***	-0.523
Ett enange (> = eespel) // Eanning inte	(0.305)	(0.308)	(0.289)	(0.351)
	(0.000)	(0.000)	(0.200)	(0.001)
Dummy MPC	-0.921**	-0.811**	-0.849**	-0.995**
	(0.416)	(0.409)	(0.379)	(0.485)
				+ + +
Past price growth	0.185***	0.166***	0.146***	0.215***
	(0.0210)	(0.0214)	(0.0216)	(0.0230)
Constant	4.297***	3.910***	2.888***	5.690***
	(0.339)	(0.340)	(0.310)	(0.400)
Observations	6664	6664	6664	6664
R ²	0.183	0.161	0.140	0.192
Wave FE	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES
Number of meetings	48	48	48	48
BR change meetings	13	13	13	13

Standard errors in parentheses * p < 0.10, ** p < 0.05, *** p < 0.01

Surprises by demographic characteristics and firms' expectations • Back

	(1)	(2)	(3)
	Median price	Median price	Median pric
Surprise × Dummy MPC	1.901	1.706	1.892
	(1.491)	(1.267)	(1.290)
Dummy MPC	-0.673*	-0.672*	-0.674*
-	(0.347)	(0.347)	(0.350)
Medium (50-250) $ imes$ Surprise $ imes$ Dummy MPC	-0.260		
	(0.823)		
Large (above 250) \times Surprise \times Dummy MPC	-0.349		
	(0.949)		
Exporter \times Surprise \times Dummy MPC		-0.0284	
		(0.662)	
Finance × Surprise × Dummy MPC			-1.774
			(1.141)
Constant	3.944***	3.937***	4.002***
	(0.301)	(0.298)	(0.298)
Observations	6287	6287	6287
R ²	0.164	0.164	0.158
Wave FE	YES	YES	YES
Sector FE	YES	YES	NO
ONS controls	YES	YES	YES
Number of meetings	47	47	47

Di Pace, Mangiante & Masolo

Bank rate changes by demographic characteristics and firms' expectations

▶ Back

	(1)	(2)	(3)
	Median price	Median price	Median price
BR change x Dummy MPC	-0.423	-0.439*	-0.395*
	(0.267)	(0.248)	(0.237)
Dummy MPC	-0.381	-0.384	-0.386
	(0.305)	(0.305)	(0.306)
Medium (50-250) $ imes$ BR change $ imes$ Dummy MPC	-0.0136		
	(0.188)		
Large (above 250) $ imes$ BR change x Dummy MPC	0.104		
	(0.179)		
Exporter \times BR change x Dummy MPC		0.0842	
		(0.151)	
Finance \times BR change \times Dummy MPC			-0.0971
			(0.377)
Constant	3.687***	3.695***	3.751***
	(0.308)	(0.303)	(0.300)
Observations	6664	6664	6664
R^2	0.161	0.161	0.156
Wave FE	YES	YES	YES
Sector FE	YES	YES	NO
ONS controls	YES	YES	YES
Number of meetings	48	48	48
BR change meetings	13	13	13

Di Pace, Mangiante & Masolo
Info-cleaned bank rate changes by demographic characteristics and firms' expectations • Back

	(1)	(2)	(3)
	Median price	Median price	Median price
BR change (Info clean) × Dummy MPC	-0.907**	-0.979**	-0.873**
	(0.406)	(0.390)	(0.352)
Dummy MPC	-0.934**	-0.925**	-0.923**
	(0.413)	(0.413)	(0.415)
Medium (50-250) $ imes$ BR change (Info clean) $ imes$ Dummy MPC	-0.185		
	(0.316)		
Large (above 250) $ imes$ BR change (Info clean) $ imes$ Dummy MPC	0.407		
	(0.302)		
Exporter \times BR change (Info clean) \times Dummy MPC		0.244	
		(0.250)	
Finance \times BR change (Info clean) \times Dummy MPC			0.235
			(0.566)
Constant	3.946***	3.943***	4.010***
	(0.339)	(0.339)	(0.339)
Observations	6664	6664	6664
R^2	0.162	0.161	0.157
Wave FE	YES	YES	YES
Sector FE	YES	YES	NO
ONS controls	YES	YES	YES
Number of meetings	48	48	48
BR change meetings	45	45	45

Di Pace, Mangiante & Masolo

Do firm expectations respond to monetary policy announcements?

Bank rate changes, surprises and firms' expectations, by window size Back

	(1)	(2)	(3)	(4)	(5)	(6)
	Median price					
Dummy MPC	-0.396	-0.672*	-0.385	-0.672*	-0.0430	-0.162
	(0.353)	(0.372)	(0.305)	(0.347)	(0.215)	(0.238)
BR change × Dummy MPC	-0.426		-0.402*		-0.435*	
	(0.312)		(0.236)		(0.230)	
Surprise x Dummy MPC		1.860		1 694		1 301
541p.152 / 241111/ 111 2		(1.349)		(1.281)		(1.013)
		(11010)		(11201)		(1.010)
Past price growth	0.157***	0.157***	0.166***	0.164***	0.162***	0.161***
	(0.0256)	(0.0254)	(0.0214)	(0.0214)	(0.0165)	(0.0165)
Medium (50-250)	-0.499**	-0.626***	-0.332**	-0.406***	-0.271**	-0.313***
	(0.195)	(0.194)	(0.150)	(0.151)	(0.109)	(0.109)
Large (above 250)	-0.795***	-0.875***	-0.633***	-0.710***	-0.601***	-0.647***
	(0.203)	(0.200)	(0.159)	(0.159)	(0.116)	(0.116)
Exporter	-0.100	-0.111	-0.163	-0.193	-0.104	-0.119
	(0.158)	(0.161)	(0.128)	(0.131)	(0.0943)	(0.0958)
Constant	3.768***	3.960***	3.680***	3.915***	3.369***	3.430***
	(0.319)	(0.301)	(0.291)	(0.283)	(0.183)	(0.169)
Observations	4652	4454	6664	6287	12198	11808
R^2	0.152	0.158	0.161	0.164	0.158	0.159
Wave FE	YES	YES	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES	YES	YES
Window	3 days	3 days	5 days	5 days	7 days	7 days
Number of meetings	47	46	48	47	50	49
BR change meetings	13		13		13	
<u>C</u> .						

Standard errors in parentheses * p < 0.10, ** p < 0.05, *** p < 0.01

Di Pace. Mangiante & Masolo

Info cleaned measures and firms' expectations, by window size Back

	(1)	(2)	(3)	(4)	(5)	(6)
	Median price					
Dummy MPC	-0.997**	-0.656*	-0.929**	-0.645*	-0.358	-0.169
	(0.445)	(0.383)	(0.413)	(0.358)	(0.256)	(0.242)
PD (L(c, d, c)) D MDC	1.000**		0.071**		0 (07**	
BR change (Into clean) x Dummy MPC	-1.000		-0.871		-0.697	
	(0.478)		(0.351)		(0.283)	
Surprise (Info clean) × Dummy MPC		0.923		0.706		0.708
		(1.434)		(1.345)		(0.948)
Past price growth	0.157***	0.157***	0.166***	0.164***	0.162***	0.160***
	(0.0255)	(0.0254)	(0.0214)	(0.0214)	(0.0165)	(0.0165)
Medium (50-250)	-0 494**	-0.627***	-0.328**	-0.406***	-0.270**	-0.314***
	(0.195)	(0.194)	(0.150)	(0.151)	(0.109)	(0.109)
	(0.100)	(0.101)	(0.100)	(0.101)	(0.200)	(0.205)
Large (above 250)	-0.791***	-0.875***	-0.632***	-0.710***	-0.600***	-0.646***
	(0.203)	(0.200)	(0.159)	(0.159)	(0.116)	(0.116)
E	0.0004	0.115	0.150	0.105	0.100	0.101
Exporter	-0.0924	-0.115	-0.158	-0.196	-0.103	-0.121
	(0.158)	(0.161)	(0.128)	(0.131)	(0.0943)	(0.0957)
Constant	4.006***	3.924***	3.920***	3.867***	3.433***	3.412***
	(0.340)	(0.302)	(0.323)	(0.287)	(0.184)	(0.172)
Observations	4652	4454	6664	6287	12198	11808
R ²	0.152	0.158	0.161	0.163	0.158	0.159
Wave FE	YES	YES	YES	YES	YES	YES
Sector FE	YES	YES	YES	YES	YES	YES
ONS controls	YES	YES	YES	YES	YES	YES
Window	3 days	3 days	5 days	5 days	7 days	7 days
Number of meetings	47	46	48	47	50	49
BR change meetings	13		13		13	

Standard errors in parentheses * p < 0.10, ** p < 0.05, *** p < 0.01

Di Pace, Mangiante & Masolo