

# Gender and Monetary Policymaking: Trends, Drivers and Effects

Donato Masciandaro<sup>1</sup>, Paola Profeta<sup>1</sup> and Davide Romelli<sup>2</sup>

<sup>1</sup>Bocconi University

<sup>2</sup>Trinity College Dublin

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# Motivation

- Increasing representation of women in central banks
- Effects of board composition of monetary policy decision-making and performances: heterogeneity and diversity
- Women representation in corporate boards

## Contribution

- New index of gender representation in central bank boards for a large sample of countries
- Investigation of the potential drivers of an increased presence of women in central banks
- Implications for the conduct of monetary policy

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## Relation to literature

### Monetary Policy Committees and decision-making:

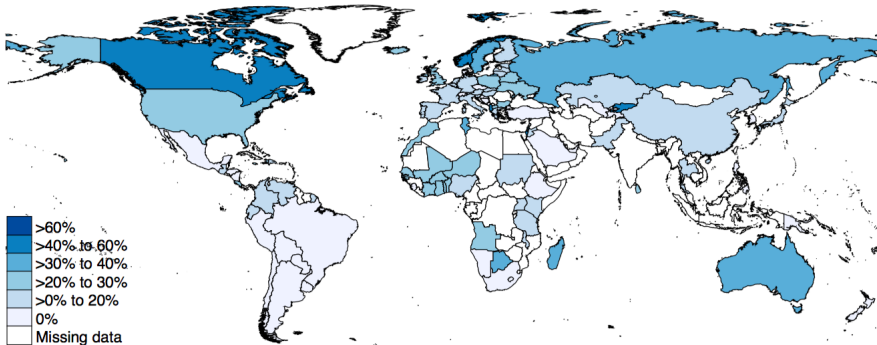
- More efficient decisions via heterogeneity and diversity (Blinder, 2007)
- Heterogeneity can trigger regularities (Eijffinger et al., 2015; Gohlmann and Vaubel, 2007)
- No effects on voting behavior of internal vs external members (Besley et.al, 2008; Harris et al., 2011)
- Dovish vs hawkish attitude of female members (Chappel and McGregor, 2000; Farvaque et al., 2010)
- Dissenting behaviour of female members (Benanni et al., 2014; Lahner, 2015)

# Gender in Monetary Policymaking: GMP Index

The GMP Index: measures the share of women in MP committees:

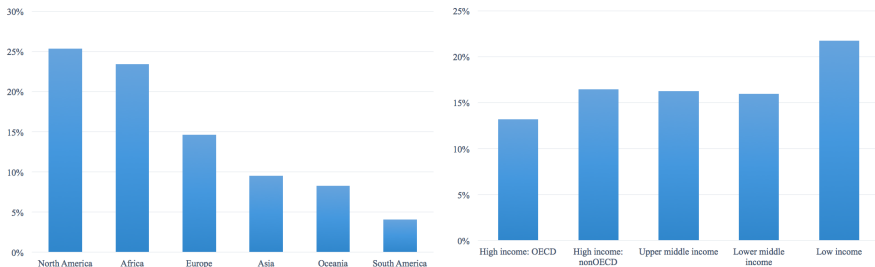
- 112 countries as of 2015
- Restricted sample of 30 countries: evolution over 2002-2015
- Sources: Central Bank Directories 2002-2015, Central Bank websites

% of Women on Central Bank Boards in 2015



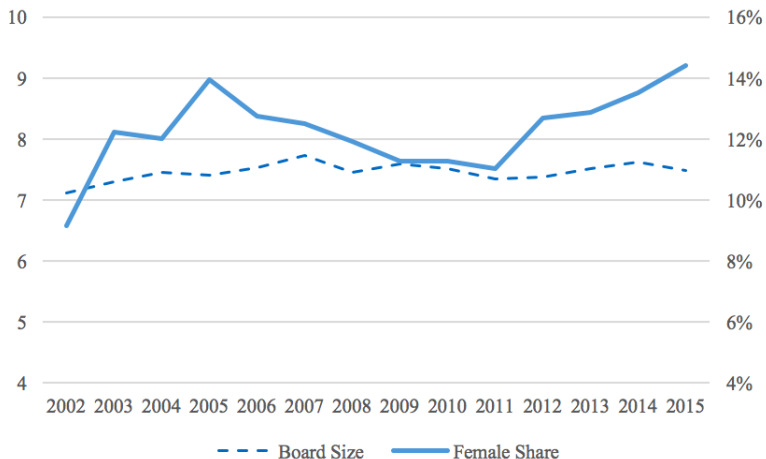
# Descriptive Statistics

**Figure:** Share of Women on Board by geographical region and income group



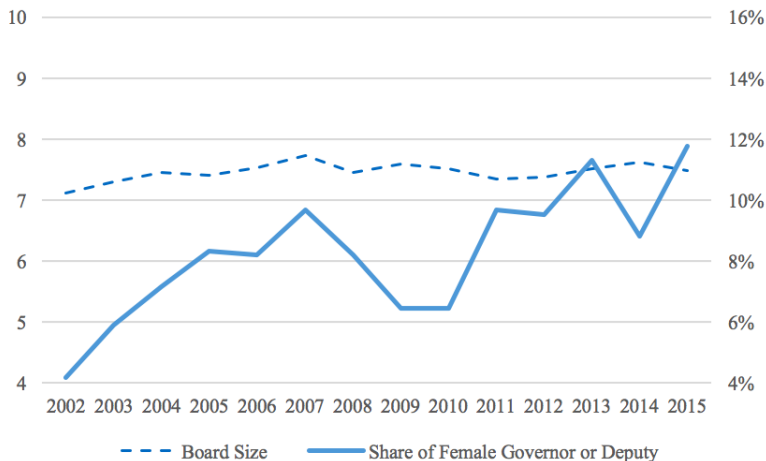
# Evolution of GMP Index

**Figure:** Evolution of Share of Women on Board vs Board Size



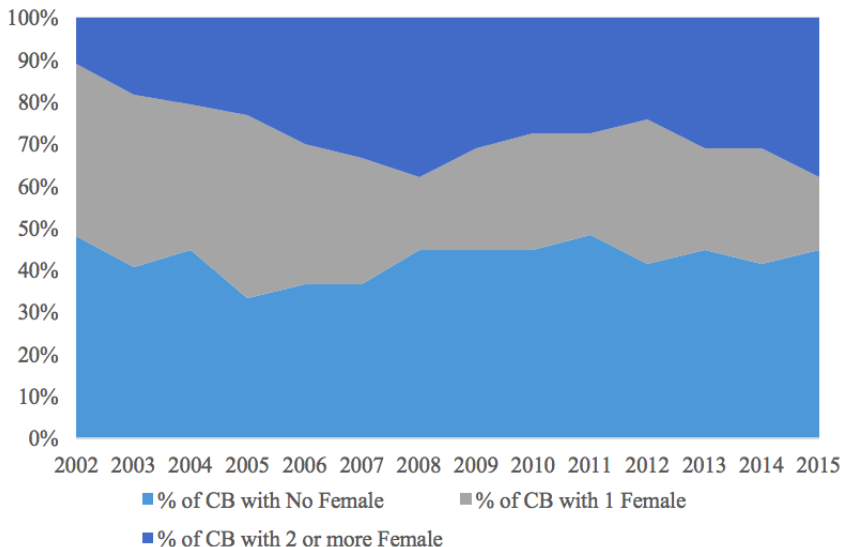
# Evolution of GMP Index

**Figure:** Share of (Deputy) Governors vs Board Size





**Figure:** Presence of Women in Central Bank Boards over time



# What explains differences in GMP?

Dependent Variable: GMP Index (as of 2015)						
	(1)	(2)	(3)	(4)	(5)	(6)
Staff gender ratio	0.006*** (0.002)			0.005* (0.003)	0.004** (0.002)	0.006** (0.002)
Country gender equality		0.673* (0.384)				
Central bank independence			0.154* (0.084)	0.216* (0.125)		
Power Distance					-0.002** (0.001)	
Inflation aversion						0.006 (0.042)
OECD Member	-0.078 (0.060)	-0.002 (0.043)	-0.078 (0.090)	-0.151 (0.112)	-0.068 (0.058)	
Inflation Targeting Regime	0.058 (0.044)	0.016 (0.037)	0.019 (0.058)	0.036 (0.072)	0.124*** (0.043)	0.043 (0.043)
Civil Law Dummy	-0.040 (0.037)	-0.088** (0.035)	-0.159*** (0.048)	-0.218*** (0.067)	-0.093** (0.041)	-0.042 (0.037)
Governance Indicators	0.028 (0.035)	-0.020 (0.032)	0.059 (0.047)	0.119** (0.056)	0.013 (0.037)	-0.004 (0.020)
Observations	77	64	52	34	41	76
R-squared	0.184	0.157	0.187	0.465	0.418	0.170

Constant term included but not reported.

# Does the presence of women impact monetary policy making?

Taylor Rule:  $r_{it} = \alpha_i + \tau GMP_{it} + \beta \pi_{i,t+1} + \gamma Output\ Gap_t + \rho r_{i,t-1} + \epsilon_{it}$

Dependent Variable:	Lending rate				Inflation rate
	(1)	(2)	(3)	(4)	(5)
Share of Female on Board		1.362*	3.248*	1.555**	-2.542*
		(0.703)	(1.897)	(0.726)	(1.338)
Inflation	0.129***	0.132***	0.175**	0.136***	
	(0.047)	(0.047)	(0.085)	(0.052)	
Output gap	-0.937	-0.965	-1.935	-0.935	1.253
	(0.889)	(0.851)	(1.409)	(0.828)	(0.984)
Lag Lending rate	0.908***	0.909***	0.663***	0.911***	
	(0.023)	(0.022)	(0.050)	(0.022)	
Money growth				-0.005	0.117**
				(0.009)	(0.049)
Central Bank Independence					-0.170
					(0.489)
Lagged Inflation					0.520***
					(0.091)
OECD Member					-0.707*
					(0.397)
Observations	325	325	296	312	318
Countries	29	29	29	29	27

Constant term included but not reported.

# Does the presence of women impact monetary policy making?

$$\text{Inflation Dynamics } \pi_{it} = \alpha_i + \tau GMP_{it} + \rho \pi_{i,t-1} + \gamma X_{it} + \epsilon_{it}$$

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## Concluding remarks

- We build a new index of gender representation in monetary policy committees
- The share of women in central bank boards is quite low, averaging at around 15% in a sample of 112 countries
- 30% of countries have no female board members and 48% have less than 10%
- Share of women has been increasing over the past one decade, but mainly due to central banks in which representation was already higher
- We show that gender representation on monetary policy boards can be explained by some country or institutional factors
- Female representation can impact monetary policy making, as a higher share of women members is associated with a more hawkish attitude

# Policy Implications

- Increasing women involvement in monetary policy making can be achieved though increasing overall employment of women in central banks
- We find that women are more likely to adopt a stricter policy enforcement, which implies that their presence on central bank boards can improve monetary policy making and the credibility of central banks

Thank you!