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Central Bank Independence under Threat?

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Central bank independence under threat?*

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1. Introduction

Central bank independence (CBI) means that monetary policy is delegated to unelected officials and that the government's influence on monetary policy is restricted. There are good reasons for this delegation. For example, Alesina and Tabellini (2008) argue that delegation of decision-making authority to non-elected bureaucrats is especially beneficial when the tasks are technical in nature and monitoring quality is difficult.¹ No wonder therefore that over time many countries have made their central bank more independent (see section 3).

However, recently things seem to have changed due to the financial crisis during which

"central banks were either called upon or felt compelled to take many actions they had never (or rarely) taken before. ... Like lending to banks on a massive scale (not entirely unprecedented, but very rare) against collateral that didn't quite meet Bagehot standards—an action which can easily slide into a "bailout" of an imperiled bank. Or lending to nonbank financial

¹ Another important consideration is that policymakers' actions do not have first-order distributional effects, transferring income or wealth between groups in society. Although policy interest rate changes transfer wealth between borrowers and lenders, it is widely believed that the primary impact of monetary policy changes is on macroeconomic quantities such as output and inflation and that distributional effects are limited.

institutions. Or purchasing non-traditional assets such as mortgage-backed securities (the Fed), peripheral country debt (the ECB), and a wide variety of financial instruments (the Bank of Japan). Each of these unusual activities shares one attribute in common: There is a non-trivial chance that the central bank, and thus indirectly the country's taxpayers, will suffer a loss. For this reason, they are often called *quasi-fiscal policies*, a term that suggests that such actions constitute a kind of government spending, which they do in an actuarial sense. Public spending by the central bank crosses the traditional line between monetary and fiscal policy, suggesting to some that the central bank has strayed into the fiscal domain." (Blinder et al., 2017).

As a consequence, so several authors argue, central bank independence is under threat. According to Buiter (2016), this threat

"comes both from the wider political and social climate – the rise of populism and of anti-establishment, anti-expert and anti-technocratic sentiment – and from developments specific to central banks. Since the start of the Great Financial Crisis (GFC) in mid-2007, central banks in most advanced economies have become more powerful and political. ... Their mandates have expanded far beyond monetary policy narrowly defined." (Buiter, 2016: 3).

Central bankers do not seem to share this worry. Blinder et al. (2017) asked both central bank governors and academics about their views to what extent central bank independence has changed due to the financial crisis. Table 1, which is copied from Blinder et al. (2017), suggests that central bank governors felt that little had changed, but academics were slightly more worried.

	Gove	ernors	Academics	Chi-sq.	
	All	AEs		vs. all	vs. AEs
CB independence was	during the o	crisis (No	G=54, NA=158)	34.8***	15.0***
Gained	13.0	0.0	5.1		
Neither gained nor lost	79.6	93.8	43.0		
Lost a little	1.9	6.3	40.5		
Lost a lot	1.9	0.0	4.4		
Difficult to say	3.7	0.0	7.0		

Notes: The question asked was: How much independence do you believe your central bank either relinquished, saw taken away from it, or gained during the crisis? Percentages of number of responding governors or academics. *** denotes significance at the 1% level, calculated using Chi-squared tests for the independence of responses of governors and academics. AEs is advanced countries. N_G/N_A denotes number of responding governors/academics. Source: Blinder et al. (2017).

2. Why is CBI important?

The traditional economic case for CBI rests on countering inflationary biases that may occur for various reasons in the absence of an independent central bank (Fischer, 2015). One reason for such a bias is political pressure to boost output in the short run for electoral reasons. Another reason is the incentive for politicians to use the central bank's power to issue money as a means to finance government spending. The inflationary bias can also result from the time-inconsistency problem of monetary policy making. In a nutshell, this is the problem that policymakers are not credible, i.e. they have an incentive to renege in the future on their promise made today to keep inflation low.² As people are aware of this temptation, they have higher inflation expectations, which would lead to higher inflation without any gains in employment or output. By delegating monetary policy to an independent and conservative (i.e. inflation averse) central bank, promises to keep inflation low are more credible. So everyone would be better off. In the words of Bernanke (2010):

"a central bank subject to short-term political influences would likely not be credible when it promised low inflation, as the public would recognize the risk that monetary policymakers could be pressured to pursue short-run expansionary policies that would be inconsistent with long-run price stability. When the central bank is not credible, the public will expect high inflation and, accordingly, demand more-rapid increases in nominal wages and in prices. Thus, lack of independence of the central bank can lead to higher inflation and inflation expectations in the longer run, with no offsetting benefits in terms of greater output or employment."

There is strong evidence for a negative relationship between CBI measures based on the central bank legislation in place and inflation (Crowe and Meade, 2008).³

 $^{^2}$ Seminal references are Kydland and Prescott (1977), Barro and Gordon (1983) and Rogoff (1985). It is important to realize that in the model of Rogoff (1985), which is the theoretical basis for the views outlined by Bernanke (2010), the time inconsistency problem of monetary policy can only be reduced if monetary authority is delegated to an independent *and* conservative central bank. Conservative means that the central bank is more inflation averse than the government. If the central bank would have the same preferences as the government it would follow the same policies as government and independence would not matter.

³ Not everybody agrees with this view. See Berger et al. (2001) for a discussion of studies arguing against it. A prominent critique comes from Posen (1995) who argues that opposition to inflation from the financial sector directly determines both inflation and central bank independence. Posen's argument rests on the idea that central banks can only be anti-inflationary if there is a strong political coalition that backs policies aimed at stable prices. While this is an important critique, the subsequent literature has found that legal central bank independence (in developed countries) or turnover of central bank governors (in developing countries) is associated with lower inflation even when controlling for the relative strength of the financial sector (Franzese 1999, de Haan and Kooi 2000). A broader point can be raised about central bank independence being effective because of popular preferences for price stability, even though stable, country specific attitudes about price

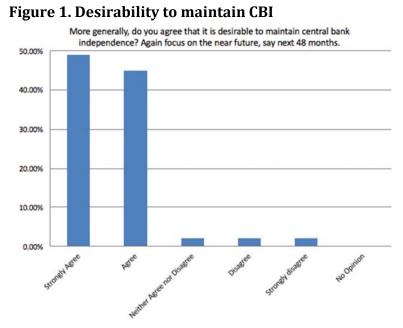
Countries with an independent central bank on average have lower inflation than countries where the central bank is controlled by the government. In their meta regression analysis, Klomp and de Haan (2010: 612,) conclude that their evidence "corroborates the conventional view by finding a significant 'true effect' of CBI on inflation, once we control for a significant publication bias." This effect of legal indexes of CBI independence is likely limited to countries where political and social institutions allow the legislation governing the central bank to have a de facto bite, i.e. in countries with strong democratic institutions (Broz, 2002; Bodea and Hicks, 2015), multiple veto players (Moser, 1999; Keefer and Stasavage, 2003; Hayo and Voigt 2008) or a strong, free press (Bodea and Hicks, 2015).

Although there is thus a strong case for instrument independence, i.e. the ability of the central bank to decide on the use of its instruments without political interference, this is different for goal independence, i.e. the ability of the central bank to set its own goals for monetary policy. The argument against goal independence is that in a democracy, the government is accountable to the electorate. As central bankers are not elected, the ultimate goals of monetary policy should therefore be set by the elected government (Mishkin, 2011). Indeed, it seems that a "broad consensus has emerged among policymakers, academics, and other informed observers around the world that the goals of monetary policy in pursuit of those goals should be free from political control" (Bernanke, 2010). Central banks, in other words, have a delegated authority to achieve their legally mandated objective(s).

Also academics strongly agree that CBI remains useful, as shown by Figure 1, which shows the answers of the CFM-CEPR panel to the question of whether it is desirable to maintain CBI in the future.⁴

stability can be tackled with appropriate research design choices, including country fixed effects or General Method of Moments (GMM) estimations. More recently, Cargill (2016, p. 5/6) challenged the conventional wisdom, arguing that most empirical studies use "measures of independence that are subject to considerable measurement error. That is, any measurement based on the legal standing of the central bank is unlikely to be an indicator of actual political independence for short periods of time, and it is even more unlikely for longer periods."

⁴ There are also critics. For instance, Stiglitz (2013) argues that the "notion of the desirability of an independent central bank was predicated on the belief that monetary policy was a technocratic matter, with no distributional consequences. There was a single policy that was best for all—a view to which the simplistic models that the central banks employed may have contributed, but which was not supported by more general models. There does not, in general, exist a Pareto superior monetary policy. That in turn implies that delegating the conduct of monetary policy and regulations to those who come from and reflect the interests of the financial market is going to result in policies that are not necessarily (and weren't) in society's broader interests."



Notes: The question asked was: *More generally, do you agree that it is desirable to maintain central bank independence in the future?* The bars show percentages of number of responding academics. *Source*: Den Haan et al. (2016).

3. Central bank independence over time

The most widely employed indicator of central bank independence is the index of Cukierman (1992).⁵ In our analysis, we use updates of the Cukierman index, which is based on four characteristics of the central bank's charter (Klomp and de Haan, 2010). First, a bank is viewed as more independent if the governor is appointed by the central bank board rather than by the government, is not subject to dismissal, and has a long term of office. Second, the level of independence is higher the greater the extent to which policy decisions are made without government involvement. Third, a central bank is more independent if its charter states that price stability is the sole or primary goal of monetary policy. Fourth, independence is greater if there are limitations on the government's ability to borrow from the central bank. In our view, it is the best proxy for CBI for several reasons, one of them being that this measure takes the conservativeness of the central bank as embedded in the law into account, i.e. the more priority the central bank law gives to price stability the higher

⁵ Even though this and other similar CBI indicators are supposed to measure the same phenomenon and are all based on interpretations of the central bank laws in place, their correlation is sometimes remarkably low (Eijffinger and De Haan, 1996). Legal measures of CBI may not reflect the true relationship between the central bank and the government. Especially in countries where the rule of law is less strongly embedded in the political culture, there can be wide gaps between the formal, legal institutional arrangements and their practical impact. This is particularly likely in many developing economies.

the score of the index.6

Bodea and Hicks have expanded the Cukierman et al. (1992) index of central bank independence for 124 countries from the end of the Bretton Woods system until 2014.⁷ The result is an original data set that codes independence annually and covers legislation changes in the last twenty-five years. Figure 2 shows that the average level of independence has increased remarkably since the 1970s, even though the variance has also increased over time, reflecting deepening regional differences (Figures 3 and 4).⁸ Average CBI steadily increased and leveled in the mid-2000s. This also holds true for different country groups as shown in Figure 4 (the classification of countries follows that in the IMF's World Economic Outlook).

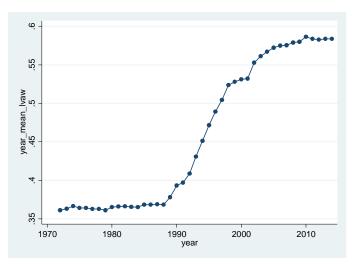


Figure 2. Average CBI (all countries), 1970-2014

⁶ This explains why a central bank receives a higher score the more important the inflation objective is; if the index would have measured goal independence the more specific the law prescribes the mandate of the central bank, the lower the index should have been.

⁷ Bodea and Hicks (2015) covered 78 countries from 1973 to 2008.

⁸ As shown by Dincer and Eichengreen (2014), the same holds for central bank transparency.

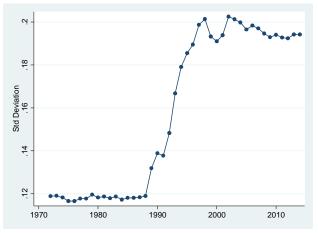


Figure 3. Standard deviation of CBI (all countries), 1970-2014

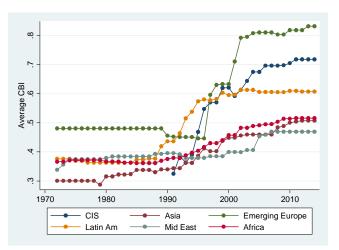


Figure 4. Average CBI in different country groups, 1970-2014

4. What has changed since the financial crisis?

Things have changed since the onset of the financial crisis. First, during the crisis central banks had to intervene at a grand scale to maintain financial stability. And, as pointed out by Blinder (2012), during a financial crisis the monetary and fiscal authorities have to work together more closely than under more normal situations for several reasons:

"when it comes to deciding which financial institutions shall live on with taxpayer support (e.g., Bank of America, Citigroup, AIG,...) and which shall die (e.g., Lehman Brothers violently, Bear Stearns peacefully), political legitimacy is critically important. The central bank needs an important place at the table, but it should not be making such decisions on its own. If the issue becomes politicized, as is highly likely, the Treasury, not the central bank, should be available to take most of the political heat--even if the central bank provides most of the money."

Since the financial crisis, many central banks pay major attention to financial stability, sometimes because they have been given explicit responsibility for macroprudential supervision, and sometimes because they now construe financial stability as essential to the traditional pursuit of macroeconomic stability (Cerutti et al., 2017).

Second, nowadays the inflation problem in most leading economies is that inflation is too low, not too high. And this has led to the use of different monetary policy instruments. Before the crisis, monetary policy makers in most countries primarily relied on short-term (e.g., overnight) interest rates to maintain price stability. Under this framework, policymakers would announce a desired level of the policy rate and enforce it relatively easily with liquidity management operations. Thus monetary policy could be, and was, implemented without large changes in the size of the central bank's balance sheet. But the depth of the recession following the financial crisis pushed short-term nominal interest rates to or near their effective lower bound (ELB), rendering the traditional policy instrument almost powerless. In response, many central banks turned to forward guidance and/or a variety of unconventional monetary policies, such as lending to banks (and sometimes even to non-banks) in huge volume and large-scale asset purchases ('quantitative easing'). In both cases, the central bank actively uses its balance sheet to affect market conditions. According to Bernanke (2010),

"there is a good case for granting the central bank independence in making quantitative easing decisions, just as with other monetary policies. Because the effects of quantitative easing on growth and inflation are qualitatively similar to those of more conventional monetary policies, the same concerns about the potentially adverse effects of short-term political influence on these decisions apply. Indeed, the costs of undue government influence on the central bank's quantitative easing decisions could be especially large, since such influence might be tantamount to giving the government the ability to demand the monetization of its debt, an outcome that should be avoided at all costs."

The new responsibilities and instruments of central banks have two important consequences. First, financial stability and unconventional monetary policies of central banks have stronger distributional implications (Fernández-Albertos, 2015). Of course, decisions by central banks will always affect relative prices and therefore their decisions will have redistributive effects. But macro-prudential and unconventional monetary policies have much stronger distributional consequences than conventional monetary policies and this has potential implications for the central bank's independence. Take, for instance, the case of a real estate boom that may turn into a bust. In the short run, the boom will increase the (apparent) wealth

of homeowners, and boost output in the construction business. Policymakers could reduce the amplitude of both the boom and the bust by using macro-prudential policies, for instance by making caps on the loan-to-value (LTV) ratio or the debt-toincome (DTI) ratio more stringent. As these policies will hurt homeowners, the construction sector, and will make it more difficult for newcomers at the housing market to buy a house, such measures have redistributive consequences and are therefore politically not very attractive, especially if elections are near. In contrast, an interest rate change has a very broad impact across business and society. So even though macro-prudential tools almost surely makes them more efficient devices for intervention their distributional consequences mean that they are more difficult to delegate without controversy.

Second, it may have changed the regime from monetary dominance to fiscal dominance. Importantly, fiscal policy is usually not very directly part of the legal mandate of an independent central bank, even if, in the long run, debt accumulation through deficit spending may affect inflation (expectations), which is directly of concern to the bank. At the most, central banks may have a role in government's budgetary process by advising or sitting in budget negotiations.

In their seminal work Sargent and Wallace (1981) highlighted how a central bank might be constrained in determining inflation by a fiscal authority that counts on seigniorage to service its debt, a situation referred to as fiscal dominance. For a long time it was rather treated as a theoretical caveat, at least in the case of advanced economies, but with the rise of government debt to levels unseen for decades the risk of fiscal policy dominating monetary policy has become real. Hall and Reis (2015) point out that the strategy pursued by many advanced economies central banks, i.e. they borrow large amounts of funds from commercial banks in the form of reserves and invest those in risky assets with different maturities, may force central banks to engage in a Ponzi scheme or to apply to the government for fiscal support. In both cases the central bank is no independent and cannot pursue its goal of price stability. According to Hall and Reis (2015), different central banks are currently facing different types of risks. The Federal Reserve faces mostly risks connected to raising interest rates. An interest rate increase would imply higher payments on reserves owed to commercial banks, while at the same time it would also reduce the value of the Fed's portfolio on longer term bonds. The European Central Bank (ECB) faces the same kind of interest rate risk, but more important is the default risk connected to the bonds of the peripheral countries of the Eurozone. The default risk is connected to direct holdings of bonds as well as to the indirect exposure due to accepting government bonds as collateral from commercial banks. The third type of risk faced by central banks is exchange-rate risk faced by the central banks of small open economies such as the Swiss National Bank. Hall and Reis (2015), using historical data, also calculate the financial strength of the three aforementioned central banks. According to their calculations the actual risk of any of those banks becoming insolvent is small. However, Del Negro and Sims (2015) argue that the use of historical data to extrapolate the future risk of insolvency for central banks may be misleading. Therefore, they consider a theoretical model to study whether the lack of fiscal support may imply that the central bank is no longer able to control inflation. The authors distinguish between fiscal support and fiscal backing, where the latter is defined as in Cochrane (2011), i.e. a commitment of the fiscal authority to set fiscal policy in line with the inflation target of the central bank (see also Reis, 2015). The model may have self-fulfilling equilibria in which the public's belief that the central bank will resort to additional seigniorage to cover its losses is enough to cause a solvency crisis. The calibration of the model to reflect the current balance sheet of the Fed shows, however, that insolvency is only possible under extreme scenarios. Nevertheless, a guarantee by the government that it will make automatic fiscal transfers if the central bank incurs losses could eliminate the threat of insolvency altogether. The same effect could be obtained by holding the central bank's risky assets on a separate account guaranteed by the government, as is the case for Bank of England. Also, Bodea (2013) and Bodea and Higashijima (2017) show that independent central banks are associated with lower fiscal deficits. Independent central banks, however, do not necessarily deter fiscal deficits in a counter-cyclical fashion, but, rather have a political non-neutral behavior during election years and depending on government's partisanship (Bodea and Higashijima, 2017).

5. Has central bank independence changed since the crisis?

Bodea and Hicks (2015 - updated) have expanded the Cukierman et al. (1992) index of central bank independence for 124 countries from the end of the Bretton Woods system until 2014. Table 2 shows the average level of legal CBI before, during and after the start of the financial crisis for several groups of countries (based on IMF classifications). The table does not suggest that CBI has decreased after the GFC (see also Dincer and Eichengreen, 2014).

Country group:	1995-2007	2008-2009	2010-2014
Advanced economies	0.61	0.64	0.63
Federal Reserve	0.48	0.48	0.48
ECB	0.87	0.87	0.87
Bank of Japan	0.40	0.47	0.47
Bank of England	0.60	0.65	0.65
Commonwealth of Independent States	0.61	0.70	0.72
Emerging and Developing Asia	0.44	0.49	0.50
Emerging and Developing Europe	0.70	0.80	0.82
Latin America and the Caribbean	0.60	0.61	0.61
Middle East and North Africa	0.41	0.47	0.47
Sub-Saharan Africa	0.46	0.51	0.52

Table 2. Legal CBI before, during and after the Global Financial Crisis

Source: own calculations using the updated data of Bodea and Hicks (2015), which are available at: <u>http://www.princeton.edu/~rhicks/data.html</u>.

Even though this evidence corroborates the views of central bank governors that independence has not been reduced since the financial crisis, in several countries the situation my change. In the United States, for instance, there are now several bills under discussion that would change the structure, powers, and/or operations of the Federal Reserve—several of which would undermine its independence. Closer congressional oversight of the Fed's operations-as opposed to the current framework of assessing the inflation and employment outcomes relative to the central bank's statutory mandate—will tend to substitute congressional control for Fed decision-making. Abenomics in Japan involved significant intervention by political authorities over the target and actions of the Bank of Japan. In Europe, support is rising for populist parties that generally do not favour central bank independence and want to exit the euro area and return to national currencies, or even to follow the UK and exit the EU. Furthermore, only 30% of Germans trust the European Central Bank (ECB), according to the Eurobarometer survey of public opinion. The ECB's policies have led to worries bout the politicization of monetary policies. According to Bullard (2013),

"An example of this creeping politicization trend is the European Central Bank's (ECB's) outright monetary transactions (OMT) program, which has been widely interpreted as a promise to buy the sovereign debt of individual

nations. Should purchases occur, they are conditional on the nation meeting certain fiscal targets. This is fiscalization of monetary policy: asking the central bank to take actions far outside the remit of monetary policy. Assistance like this from a central authority to a region is best brokered through the political process in democratically elected bodies. By conducting a fiscal action, the central bank has been pulled away from its ordinary macroeconomic stabilization policy. Standard monetary policy has become wrapped up in the fiscal policy package and subject to the negotiations that surround that package. This defeats one of the original purposes of central bank independence: having a monetary authority that can react to macroeconomic shocks quickly and effectively."

In the UK, some commentators have been critical of governor Mark Carney's involvement in the Brexit debate (Den Haan et al., 2016). Blinder et al. (2017) therefore asked central bankers and economists their views about the future of CBI. The answers, as shown in Table 3, which is copied from Blinder et al. (2017), are perhaps surprising. Academics seem to worry more about CBI than central bank governors. About 37% of academic respondents believe that CBI is threatened either "a lot" or "a moderate amount," whereas only 9% of central bankers see things that way. At the other end of the worry spectrum, more than 60% of central bankers (50% in advanced economies), but only 13% of academics, see no threat at all. This conclusion also follows from the CFM-CEPR Expert survey: only 31 of the 70 respondents disagreed with the statement that there will be significant changes in the independence of monetary policy in the UK and the Eurozone in the foreseeable future (Den Haan et al., 2016).

	Goveri	iors	Academics	Chi-sq.	
	All	AEs		vs. all	vs. AEs
CB independence is threatened (N _G =55		75.4***	25.4***		
None	61.8	50.0	13.2		
A little	10.9	12.5	46.5		
A moderate amount	7.3	18.8	27.7		
A lot	1.8	0.0	9.4		
Too early to judge	18.2	18.8	3.1		

Table 3. Central bank independence in the near future

Notes: Percentages of number of responding governors or academics. The question asked is: *How much is your central bank's independence threatened now or in the near-term future?* *** denotes significance at the 1% level, calculated using Chi-squared tests for the independence of responses of governors and academics. N_G/N_A denotes number of responding governors/academics. *Source*: Blinder et al. (207).

6. Conclusions

The traditional argument for CBI is based on the desire to counter inflationary biases. The recent financial crisis and the following European debt crisis have put much pressure on central banks and changed monetary policy. The altered role of modern central banks is evident in the large set of new unconventional monetary policy measures employed during the rest decade. The new tools and responsibilities of the central banks come with new challenges for central bank independence.

Firstly, in an environment of global debt overhang the balance of power between fiscal and monetary policy changes. With high public debt levels fiscal authorities may be tempted to rely on monetary policy to generate additional inflation to alleviate the debt burden. Opposite to previous decades, the threat of fiscal dominance might be particularly strong in the developed world, which has seen remarkably strong increases in sovereign debt levels.

The second risk to central bank independence stems from the consequences of central bank policies. The unprecedented size of the central bank balance sheets has far reaching implications for the financial dimension of independence. Theoretical studies differ in their assessment of the financial risk faced by central banks. Even if it is small, the financial risk should not be underestimated, as lack of financial independence and the reliance on government financing of the central bank would strongly undermine the credibility of a central bank. Credibility, in turn, is crucial for controlling inflation and inflation expectations. This calls for a very careful consideration and design of exit strategies by the central banks, i.e. policies aiming at the reduction of balance sheets to more conventional levels.

Finally, the last threat to central bank independence is also associated with the set of unconventional monetary policies employed during the crisis. Crucial for any arguments in favor of CB independence is the assumption that monetary policy has no or little redistributive consequences. The recent policies employed by central banks threaten, however, to undermine this argument, as they are far more redistributive than traditional monetary policy. Although economists have expressed serious concerns that CBI is under threat, central bank governors are less worried. Our analysis of CBI indicators before and after the financial crisis suggests that, so far, little has changed. But it may be too early to put the worries about threats to CBI aside.

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