
“Do government formation deadlocks damage economic growth? Evidence from history’s longest period of political deadlock”

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Abstract

Several countries have experienced lengthy periods of political deadlock in recent years, as they have sought to form a new government. This study examines whether government formation deadlocks damage a country's economy. To do so, we analyze the case of Belgium, which took a record 541 days to create a post-election government, following the June 2010 federal elections. Employing the synthetic control method, our results show that the Belgian economy did not suffer an economic toll; on the contrary, GDP per capita growth was higher than would have otherwise been expected. As such, our evidence contradicts frequent claims that long periods of government formation deadlock negatively affect an economy.

JEL classification: D72, E02, E65, H1, O43, P48, P52.

Keywords: Government, Political economy, Synthetic Control Method, Belgium.

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1. Introduction

Lengthy government formation processes in parliamentary regimes after a general election are hardly new. While Diermeier and Van Roozendaal (1998) reported an average of 36 days for the post-election formation of government in a broad sample of European parliamentary countries in the period 1945-1990, some individual countries presented a considerably longer average, for example, Belgium with 57 and the Netherlands with 88 days. Indeed, in that period, the Netherlands went a record 208 days without a full-powered government in 1977, and Belgium went 106 days in 1987 (Diermeier and Van Roozendaal, 1998; Hooghe, 2012a, Louwse and Van Aelst, 2013).

Besides the traditional constraints on government formation in parliamentary democracies (Strøm, Budge, and Laver, 1994), formation deadlocks have become more prominent in recent times in most European countries (Louwse and Van Aelst, 2013) because of the increasing fragmentation of parliaments (De Winter and Dumont, 2008) and because multilevel governance in the European Union has absorbed some of the core tasks performed by conventional Member States (Bouckaert and Brans, 2012; Deschouwer, 2012; Hooghe, 2012a). As a result, government formation deadlock extended over more than six months in Belgium after the June 2007 election, 10 months in Spain after the December 2015 election, seven months in the Netherlands after the March 2017 election, six months in Germany after the September 2017 election, and three months in Italy after the March 2018 election. However, the record is held by Belgium, which took the not insignificant number of 541 days, following the June 2010 election, to establish a full-powered government (Brans, Pattyn, and Bouckaert, 2016).

The claim is typically made that the costs associated with government formation deadlock and the absence of a full-powered government are transferred to the economy. Yet, the macroeconomic figures regarding their effects are contradictory. For instance, the real gross domestic product (GDP) growth rate fell in Belgium in 2011 and in Spain in

2016, years in which the two countries faced government formation deadlocks. In contrast, however, in similar situations of impasse, the real GDP growth rate rose in Belgium in 2007 and in the Netherlands in 2017. The picture is further confused when we compare the performance of these countries' economies during their respective periods of deadlock with the economic performance of other EU countries that were not experiencing situations of political impasse at that time.

The key question, though, is not so much whether these countries performed better or worse than their EU counterparts, but whether their respective rates of economic growth were higher or lower than what they would have otherwise been in the absence of government formation deadlock. In this article, we empirically evaluate the economic performance of Belgium during the longest period of deadlock ever recorded in the formation of a full-powered government following an election. To do so, we use the synthetic control method, a statistical method that has received growing attention in recent times having been used to evaluate treatment effects in different policy areas.¹ Our paper, in dealing with the economic consequences of an exceptional political situation, can be considered similar to the studies of Abadie and Gardeazábal (2003) on the economic consequences of terrorism in Spain, and which exploited the variability provided by a truce; Abadie, Diamond, and Hainmueller (2015) on the economic cost of German reunification; Grier and Maynard (2016) on the economic consequences of Hugo Chavez's policies in Venezuela; and Gharehgozli, (2017) on the economic effects of international sanctions on Iran.

In this study, we take the GDP per capita growth rate as the best indicator of overall economic performance, and use the synthetic control method to build an appropriate

¹For instance, health and nutrition policies (Bauhoff, 2014; Kreif et al., 2016), energy policies (Munasib and Rickman, 2015; Kim and Kim, 2016), industrial policies (Castillo et al., 2017), local amalgamations (Roesel, 2017), transportation (Percoco, 2015), international sanctions (Gharehgozli, 2017), international trade agreements (Aytug et al., 2015), crime interventions (Saunders et al., 2015) and economic consequences of political administrations (Grier and Maynard, 2016).

counterfactual. This enables us to identify and isolate the gap between the actual growth rate in Belgian GDP per capita and the rate at which it would have grown without government formation deadlock. In this way, we contribute to the existing literature by offering what is, to the best of our knowledge, the first evaluation of the effect of a lengthy period of political impasse on economic growth. Additionally, we provide original insights into the effects of government formation deadlock in Belgium as yet unidentified in the literature.

We organize the rest of the article as follows. The next section reviews the literature on quality of government and on the differences between governance and government, the stream of literature that provides the best theoretical foundations in which to frame our research. Section three briefly reviews the political process that was played out in Belgium after the June 2010 federal elections, which led to the government formation deadlock that was not broken until December 2011. In section four, we provide a brief analysis of the economic policy implemented by the caretaker government, and report various descriptive statistics on Belgium's economic evolution before, during, and after the deadlock. Section five presents the empirical strategy employed, the synthetic control method, and the results obtained. Finally, we discuss our findings and draw our conclusions.

2. Economic governance and government: The quality of government institutions

While an awareness of the importance of institutions for fostering economic development is hardly new (see, for instance, Adam Smith, 1776), it was not until the last decades of the past century that the importance of quality of government for such development acquired widespread recognition in the literature, above all following the seminal study by North (1981) (e.g. De Long and Shleifer, 1993, Knack and Keefer, 1995; Mauro, 1995; Easterly and Levine 1997; Hall and Jones, 1999; La Porta et al., 1999; Easterly, 2001). Throughout the current century, quality of government has gained increasing relevance not only in the literature on economic development but also in that of other areas of the social sciences

(Adserà, Boix, and Payne, 2003; Alesina and Zhuravskaya, 2011; Acemoglu and Robinson, 2012; Rothstein, Samanni, and Teorell, 2012; Fortunato and Panizza, 2015; Rodríguez-Pose and Di Cataldo, 2015; Rodríguez-Pose and Garcilazo, 2015). Indeed, in recent years, various international organizations and research institutions have built and disseminated databases containing quality of governance indicators. Prime examples include the World Bank's Worldwide Governance Indicators and the Quality of Government Index created by the University of Gothenburg.

Governance, it should be stressed, is not to be confused with government – in the words of Dixit (2009:6): “[...] governance and government should not be regarded as almost synonymous” and he offers the following definition of economic governance: “the structure and functioning of the legal and social institutions that support economic activity and economic transactions by protecting property rights, enforcing contracts, and taking collective action to provide physical and organizational infrastructure” (Dixit, 2009:5). Thus, while government is clearly an important part of governance, in almost all countries other social institutions of economic governance (whether public or private) also exist.

Rothstein and Teorell (2009: 168) claim that good governance cannot be considered simply as what is good for economic development, because quality of government has many important non-economic consequences, such as social trust and subjective well-being. Indeed, theirs is a very well-grounded critique. Note, in this regard, that the aim of our paper is to evaluate the economic effects of government formation deadlocks and, more specifically, their impact on GDP per capita growth, which we contend is the best indicator of an economy's overall performance. Evaluating the effects in other non-economic areas is not the objective of our study and, moreover, data availability would represent much more of a problem.

While we are aware of the criticism expressed by Rothstein and Teorell (2009) and, more extremely, for example, by Agnafors (2013), we believe the operationalization

proposed by LaPorta et al. (1999) for the empirical study of the economic effects of the quality of government to be of particular interest for our research here. In evaluating economic performance, a first group of measures focuses on government intervention in the economy and, more specifically, on the quality of regulation and protection of property rights. An additional dimension for evaluating good government in LaPorta et al. (1999) is that of efficiency of government and quality of bureaucracy. In a similar vein, Keech and Munger (2015:11) emphasize meritocracy, recruitment and promotion, and autonomy as requirements for high quality administrative institutions. Based on the dimensions of quality of government proposed, LaPorta et al. (1999: 234) subsequently provide a set of indexes to measure government intervention (including quality of business regulation, tax rates, survey scores on corruption, bureaucratic delays, etc.). To these indicators, Rodrik (2007) adds informal social institutions that foster trust and social cohesion. A synthesis of proxies for quality of government has been suggested in Charron and Lapuente (2013) and Charron, Dijkstra and Lapuente (2014). These include low levels of corruption, rule of law, government effectiveness, and protection of property rights. Frequent use of all these dimensions has been made in analyzing the effects of quality of government (Holmberg, Rothstein and Nasiritousi, 2009).

3. Belgium's record-beating political deadlock(2010-2011)

Political process

The Belgian general election held on June 13, 2010, resulted in a highly fragmented political landscape, with 11 different parties winning seats in the Chamber of Representatives. **Table 1** records the names of the parties elected and the percentage of votes each received, and compares these results with the number of seats they obtained in the previous federal election. The parties forming the pre-election government coalition (that is, CD&V, MR, PS, Open_vld, and CDH) obtained a total of 83 seats, down from 90 in the previous parliament. While their 2010 result continued to represent over half the Chamber (150 seats

in total), it should be recalled that the election had actually been provoked by Open_vld resigning from government (Abts, Poznyak, and Swyngedouw, 2012). Thus, the incumbent parties in fact controlled just 70 seats, less than half the Chamber. The high degree of political fragmentation inevitably hampered negotiations to form a new cabinet. Of the 150 representatives, the leading party (17.4% of votes) controlled just 27 seats. A further six parties had more than 10 seats, but only one of these had more than 20.

Table 1. General Election results, Belgium 2010. Distribution of votes and number of seats in the house of representatives by political party.

Reg	Party	% Votes 2010 election	Seats 2010 election	Seats 2007 election
F	Nieuw-Vlaamse Alliantie N-VA	17.4	27	(a)
V	Parti Socialiste PS	13.7	26	20
F	Christen-Democratisch en Vlaams CD&V	10.8	17	30
V	Mouvement Réformateur MR	9.3	18	23
F	Socialistische Partij Anders sp.a	9.2	13	14
F	Open Vlaamse Liberalen en Democraten Open vld	8.6	13	18
F	Vlaams Belang VB	7.8	12	17
V	Centre Démocrate Humaniste CDH	5.5	9	10
V	Ecolo	4.8	8	8
F	Groen!	4.4	5	4
F	Libertair, Direct, Democratisch LDD	2.3	1	5
V	Parti Populaire PP	1.3	1	(b)
V	Front Nationale FN	0.5	0	1

Notes: F: Flemish; V; Walloon

(a) Nieuw-Vlaamse Alliantie formed an electoral alliance with Christen-Democratisch en Vlaams in the 2007 election, holding 5 of the 30 seats obtained by CDV.

(b) Parti Populaire was formed in 2009

Source: Federal Public Services Home Affairs (Belgium), and authors.

The situation was complicated still further because of the difficulty in complying with various unwritten rules of government formation [including, for example, ‘linguistic cleavage’, and the need for regional parties belonging to the same broad political family to be in government (Deschouwer, 2009)]. Thus, fragmentation combined with ideological differences and increasing tensions between the Flemish and Walloon regions impeded government formation. The leader of NV-A and winner of the elections, Bart de Wever,

was designated by King Albert to take the initiative in government formation (*formateur*), but he resigned in early July 2010 (Abts, Poznyak, and Swyngedouw, 2012). He was followed in the role by Elio Di Rupo, leader of the Socialist Party in Wallonia, but the impossibility of reaching a consensus led to his resignation in the first week of September.²

The presidents of the Belgian Senate and of the Chamber of Representatives were then asked by the king to mediate between the political parties, but were dismissed in early October 2010 when negotiations between the main parties broke down. New mediators were appointed while the king asked the former prime minister to stay on as a caretaker government with limited powers. The two main issues blocking any agreement were the model of funding for Brussels and the regions, and certain institutional questions affecting the Senate and the electoral district of Brussels-Halle-Vilvoorde (Abts, Poznyak, and Swyngedouw, 2012). The latter was the subject of a highly sensitive dispute between Walloon parties (that wanted it to remain as a single district) and Flemish parties (that wanted the district to be split in two).³

In May 2011, negotiations were revived once more with the designation of Di Rupo as *formateur*, in a final push before calling for new elections. In October, an agreement for institutional reform was finally reached, but the obstacles to the formation of a new government only disappeared at the end of November. A final agreement was reached on 5 December 2011, with a new fragile six-party coalition led by Di Rupo (PS) as Prime Minister, and formed by Socialist, Christian Democrat and Liberal parties from both regions. And so ended the longest ever period of political deadlock in a democratic, parliamentary regime – 541 days of deadlock and 589 without a full-powered government – surpassing the 353 days of government deadlock in Cambodia in 2003-04.

² Di Rupo tendered his resignation on August 29th, but the king refused to accept it and asked him to continue with his efforts to break the deadlock.

³ It coincides with the bilingual (French and Dutch) administrative district of the Brussels-Capital region and the surrounding Dutch-speaking area.

4. Economic policy and economic performance under the caretaker government

Economic policy under the caretaker government

Immediately following the resignation of the government in April 2010, government services issued two circulars specifying the conventions and guidelines for the caretaker government⁴ [26 April and 7 May, 2010 (Brans, Pattyn, and Bouckaert, 2016)]. The political deadlock greatly diminished the capacity of this caretaker government from intervening in the economy compared to the powers enjoyed by an elected government. Thus, the 2011 budget was not in fact approved until May 2011; and, in the meantime, the caretaker government had to pass regular resolutions prolonging the 2010 budget on a month to month basis, in keeping with the system known as ‘provisionary 12th’s’, whereby government departments continued to receive the same budgetary allocations received in the previous year, generally for three-month periods (Bouckaert and Brans 2012; Brans, Pattyn, and Bouckaert, 2016). Day-to-day affairs were overseen by this temporary caretaker government but no major decisions could be taken with regard to economic policy, and more specifically concerning the budget or national debt.

The absence of a new federal budget meant a number of automatic savings, given that budgeting is typically done on the basis of the previous year’s budget with an inflation adjustment (Bouckaert and Brans, 2012; Hooghe, 2012a); however, the government did not implement any structural financial measures (OECD, 2011: 31). According to Bouckaert and Brans (2012: 174), the caretaker government did, however, have to face a number of pressing matters, such as complying with international defense commitments (i.e. NATO

⁴ The concept of a ‘caretaker government’ had emerged immediately after the II World War [see Davies (1946); Morgan (1946); Woolbert, 1946)], and designates the government that takes care of ordinary issues in transitory periods provoked by the resignation or destitution of a government, or an election in parliamentary regimes, until a new government is elected by Parliament. Caretaker governments are understood to be responsible solely for ‘ordinary’ issues, and should not adopt any decisions likely to constrain the options of the future government, which is understood to be a full-powered government.

operations in Libya), introducing migration legislation, and contributing to EU measures to support the Euro, etc. But no major structural policy reforms were implemented (Troupin, Steen, and Stroobants, 2015) that might have affected critical issues in the domain of pension systems, social affairs, energy supply and environment, employment and labor market, and competitiveness (Brans, 2012; Brans, Pattyn and Bouckaert, 2016).

However, with the passing months, even though the caretaker government was appointed to do only 'what is necessary for the country' (Hooghe, 2012a; Deschouwer, 2012), the understanding of just what was necessary expanded in more than one domain. Thus, the government approved a new budget in March 2011 (the first time this had ever occurred under a caretaker government) and the new 2011 Budget was passed by Parliament in May. These new budget provisions served as the basis for the Belgian Stability Program 2011-2014 (FGB, 2011), submitted to the European Commission (EC) in April 2011. In this program, the Belgian Government committed itself to a GDP deficit of 3.6 percent in 2011, and less than 3 percent in 2012. However, budget adjustments were below expectations. The European Council (2011, points 8&9) advised Belgium to increase its fiscal consolidation efforts. Similarly, in fall 2011, the EC made further calls for budgetary discipline from the Member States, but the caretaker government argued that implementing EU demands and avoiding penalties meant adopting measures that lay beyond its designated authority.

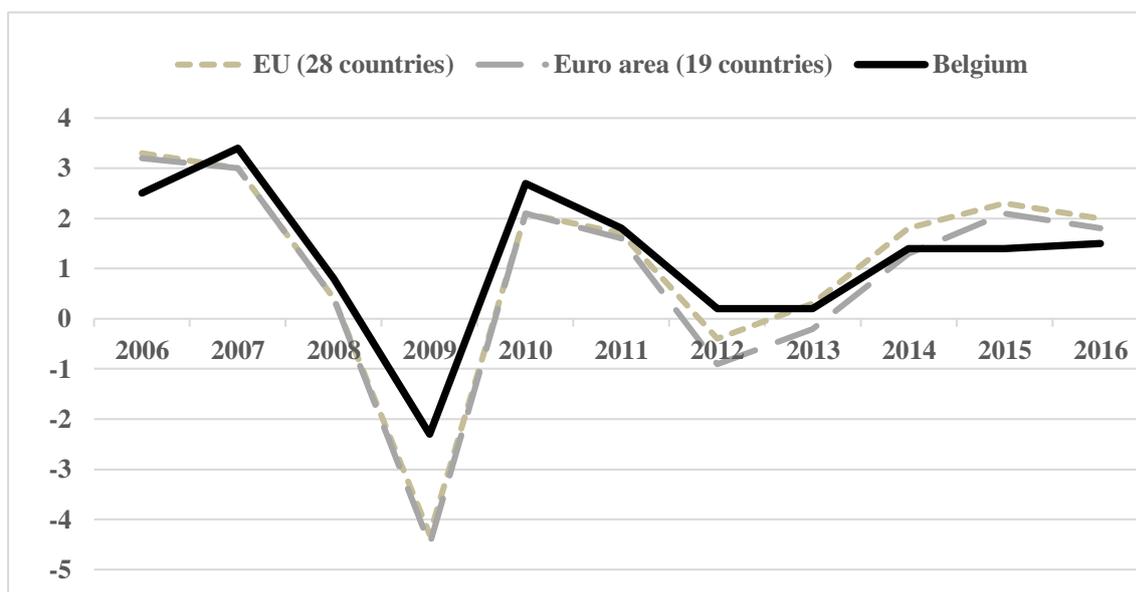
These events ran in parallel with increasing concerns in the financial markets, alarmed by the lack of progress made in reducing public deficit. In November 2010, Belgium was added to the list of countries, made up of Portugal, Spain and Italy, which it was feared could be heading for a financial crisis. This obviously had an impact on the government bond market. The risk premium steadily increased after April 2011, peaking in November 2011. The spread on Belgian 10-year bonds (relative to the German Bund) rose to more than 360 basis points, while the spreads on French and Dutch bonds reached about 190

and 60 basis points, respectively (European Commission, 2012). Given the high, and increasing, level of public debt, the Belgian public sector remained vulnerable to market pressures (European Commission, 2012). By late November 2011, this pressure from the financial markets seems likely to have affected the negotiating parties and political elites (Devos and Sinardet, 2012), and a short time after (5 December 2011) a new government was formed, much to the relief of the financial markets.

Belgian GDP performance during the political crisis

Despite the political deadlock and the limited powers of the caretaker government, Belgium's economic performance does not appear to have suffered much. If we observe the GDP growth rate (Figure 1), Belgian performance between 2010 and 2014 was slightly better than the EU average, and also better than the euro area average, though in the latter case only until 2013.

Figure 1. Gross Domestic Product Growth Rate (2006-2016)



However, this comparison tells us only how Belgium performance compared with that of the other countries of Europe, but it offers no insights as to how it might have performed had a full-powered government been in office. For policy evaluation purposes,

what is relevant is not how Belgium performed in comparison with other countries, but rather how much better or worse it would have performed in the absence of political deadlock. Given that this outcome cannot be observed, it constitutes our counterfactual. Indeed, its apparently better comparative performance in Europe could be hiding detrimental economic consequences of its institutional crisis.

The following section describes the empirical strategy we adopt to construct the counterfactual so that we can assess how the government formation deadlock affected economic growth in Belgium.

5. Empirical strategy

The goal of our empirical study is to assess the impact that the delay in government formation had on Belgium's economic growth. The effect of the treatment – that is, the 2010 federal elections – is estimated using the synthetic control method (Abadie and Gardeazábal, 2003; Abadie, Diamond, and Hainmueller, 2010, 2015). This policy evaluation tool is especially appropriate for comparative case studies and specifically designed to evaluate the treatment effects of major events impacting units of analysis that are often aggregate entities, such as countries, for which no suitable single comparisons are available. Hence, the method is suitable for evaluating exceptional political situations, as illustrated in the seminal paper by Abadie and Gardeazábal (2003), and in the more recent studies of Abadie, Diamond, and Hainmueller (2015), Grier and Maynard (2016) and Gharehgozli (2017).

The method is also appropriate for use if there exists a donor pool of control units that are unaffected by the event – as is the case in our setting – given that we are studying a political situation limited to Belgium. Furthermore, using a weighted average of units as a comparison precludes the type of model-dependent extrapolation on which regression results are often based (King and Zeng, 2006).

Table 2 reports the pretreatment values of several variables typically associated with a country’s growth potential. As in the aforementioned literature, a comparison is made between the evolution in Belgium’s GDP per capita growth rate and that of a weighted combination of EU countries selected to resemble the characteristics of the Belgian economy before the political deadlock. This weighted average of values for these other EU countries is conceptualized as a “synthetic” Belgium without the political deadlock experienced between 2010 and 2011, against which the values for the “real” Belgium can then be compared. The donor pool used in the comparison includes a sample of the EU-28 countries. Unfortunately, Croatia, Cyprus and Luxembourg had to be excluded given the amount of missing data for some of the key predictors used in the analysis.

Table 2. Economic growth predictor means for real Belgium and synthetic Belgium. Averaged 1999-2009

Predictors	Belgium	Synthetic	Pool
Ln(GDPpc_lag)	10.25	10.25	9.59
low_education	38.09	38.41	29.96
mid_education	35.55	37.57	48.09
high_education	26.33	24.03	20.66
Population_density	341.68	272.03	170.73
ln(investment rate)	3.10	3.11	3.11
Trade Surplus	3.55	3.40	0.35
Inflation	2.02	2.27	2.95
Debt	99.81	52.41	55.27

Source: Authors

As described in Abadie, Diamond, and Hainmueller (2015), the difference between the preintervention characteristics of the treated unit and the synthetic control is given by the vector $X_1 - X_0W$, where X_1 is the vector of features of the treated unit, X_0 the vector of features of the control units, and W a weight matrix. Here, we select the synthetic control, W^* , which minimizes the size of this difference during the pretreatment period. Abadie and Gardeazábal (2003) and Abadie, Diamond, and Hainmueller (2015) choose W^* as the value of W that minimizes $\sum_{m=1}^k v_m (X_{1m} - X_{0m}W)$, where v_m is a weight that reflects the relative

importance assigned to the m -th variable when the discrepancy between X_1 and X_0W is measured.

The implementation of this method confirms that the synthetic unit is, in fact, a better comparison unit than the pool of potential donor countries, as it resembles the treated unit more closely in terms of predictors (**Table 2**). Overall, this suggests that synthetic Belgium provides a better point of comparison than the population-weighted average of the pool.

The synthetic unit comprises the unequal contributions of the control units. **Table 3** presents the weight matrix for the donor pool, where the synthetic weight is the country weight assigned to each country. When the algorithm is applied to create a synthetic control, a control is obtained made up of the four main contributors, that is, the Netherlands (55.8%), Spain (19.6%), France (18.1%) and the United Kingdom (5.7%). Italy also plays a role here, but only a minor one (0.1%). The rest of the countries do not contribute to the synthetic unit. When using this control to predict Belgium's GDP per capita from 1999–2009, the root mean squared percentage error (RMSPE) is 0.017, or less than 2 percent.

Table 3. Weight matrix. Donor Pool.

Country	Unit Weight	Country	Unit Weight
Bulgaria	0	Hungary	0
Czech Rep.	0	Malta	0
Denmark	0	Netherlands	0.558
Germany	0	Austria	0
Estonia	0	Poland	0
Ireland	0	Portugal	0
Greece	0	Romania	0
Spain	0.196	Slovenia	0
France	0.181	Slovakia	0
Italy	0.008	Finland	0
Latvia	0	Sweden	0
Lithuania	0	United Kingdom	0.057

Source: Authors

6. Results

Figures 2 and 3 report the main results. **Figure 2** shows how the path taken by synthetic Belgium’s GDP per capita closely resembles that taken by real Belgium’s GDP until 2009, that is, before the 2010 turning point. The credibility of a synthetic control depends upon just how well it tracks the treated unit’s characteristics and outcomes during the pretreatment period. Here, the synthetic Belgium control appears to provide good tracking. Interestingly, after 2010, the performance of real Belgium is better than that of its counterfactual, the gap with respect to the synthetic comparison unit increasing until 2013. This would indicate that the political deadlock faced in forming a government did not undermine the growth of the Belgian economy, but, on the contrary, it had a positive effect, at least for GDP per capita.

Figure 2. Trends in ln(GDP per capita): real Belgium vs. synthetic Belgium

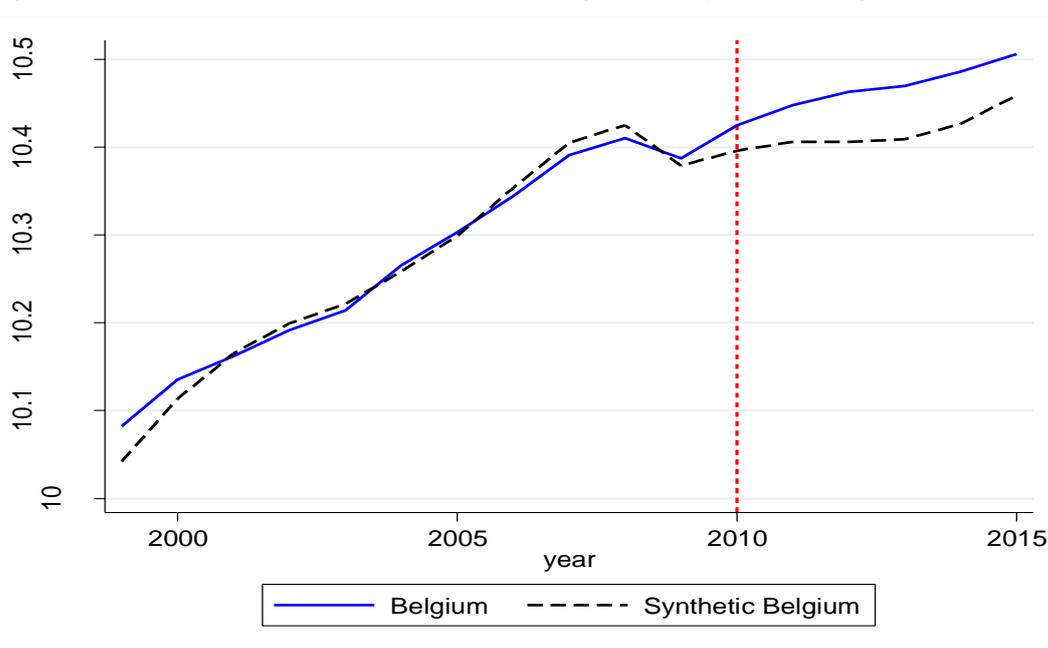


Figure 3 shows more specifically the gap between both units as evidence of an increasing positive difference initiated in 2010—the differences between both units being computed over time.

Figure 3. Gap in ln(GDP per capita):real Belgium vs. synthetic Belgium (2000-2016).

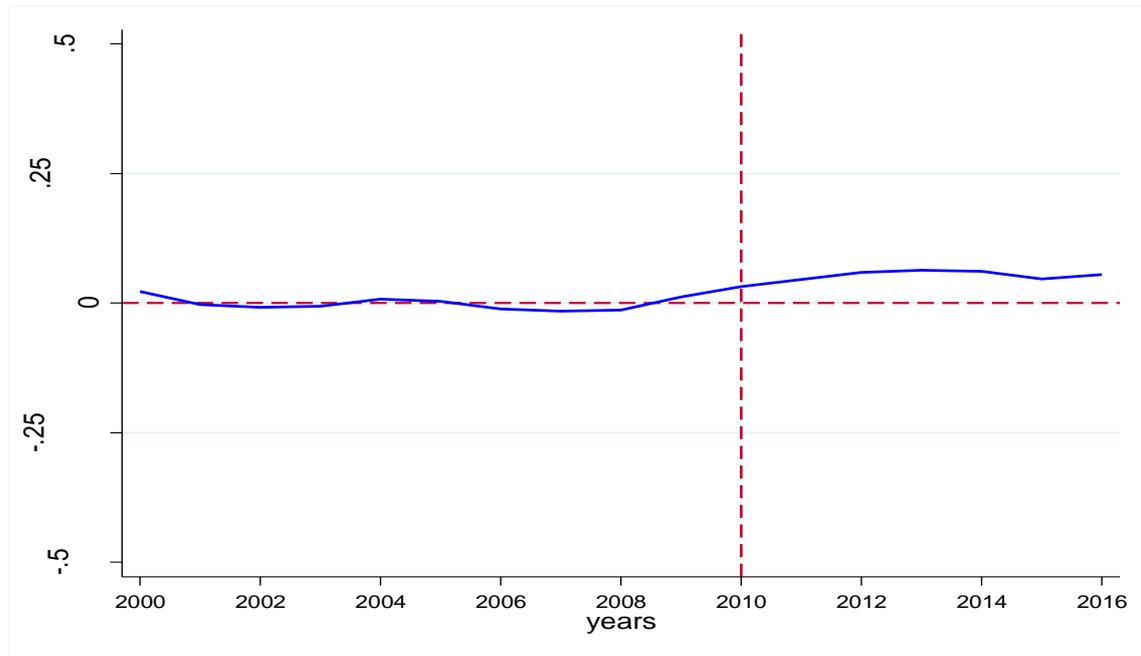


Table 4 shows that real Belgium’s GDP per capita in 2010 was about 3.3% higher than its counterfactual, with the greatest difference with respect to the synthetic GDP per capita being recorded in 2013, when it was 6.6% higher. This result seems to indicate that the better performance of real Belgium lasted for approximately three years. After 2013, the difference between the two units stopped increasing.

Table 4. GDP per capita: real Belgium vs. synthetic Belgium.

Year	Real Belgium	Synthetic Belgium	Difference	Real Belgium/Synthetic Belgium
2010	33,681	32,617	1,064	1.033
2011	34,462	32,928	1,534	1.047
2012	34,986	32,958	2,028	1.061
2013	35,225	33,049	2,176	1.066
2014	35,801	33,685	2,116	1.063
2015	36,524	34,877	1,647	1.047

Source: Authors

Placebo tests

The “in time” placebo treatment is considered as having taken place in Belgium in 2006, just before the 2007 world economic and financial downturn and also just before the previous federal elections, held on 10 June 2007. The same empirical strategy is applied but on this occasion we optimize the synthetic control method for a pre-treatment period that

runs from 1999 to 2005, with an expected treatment effect in 2006. The resulting trajectory for this new placebo test is shown in **Figure 4**. As expected, we are unable to identify any significant gap between the paths taken by real Belgium and this new synthetic Belgium. The pre/post GDP per capita paths do not present any differences.

The “in space” placebo tests consider all the units in the donor pool, and we then run the same optimization model but treating each of them as having been treated iteratively; that is, as if there had been political deadlock in the formation of the national government in 2010. We retain those simulations that successfully predicted the pre-intervention period between 1999 and 2009. To filter this goodness of fit, we use the standard, but demanding, rule that excludes those with an RMSPE twice the size of that obtained for the real case of Belgium. Thus, those countries presenting an RMSPE greater than 3.3% are excluded when we compare the base model to the best placebos. The remaining countries are more likely to report a higher placebo effect and are, as such, better candidates for inclusion in the placebo distribution (Gharehgozli, 2017).

Figure 4. Placebo test (“in time”) assuming treatment effects in 2006 instead of 2010.

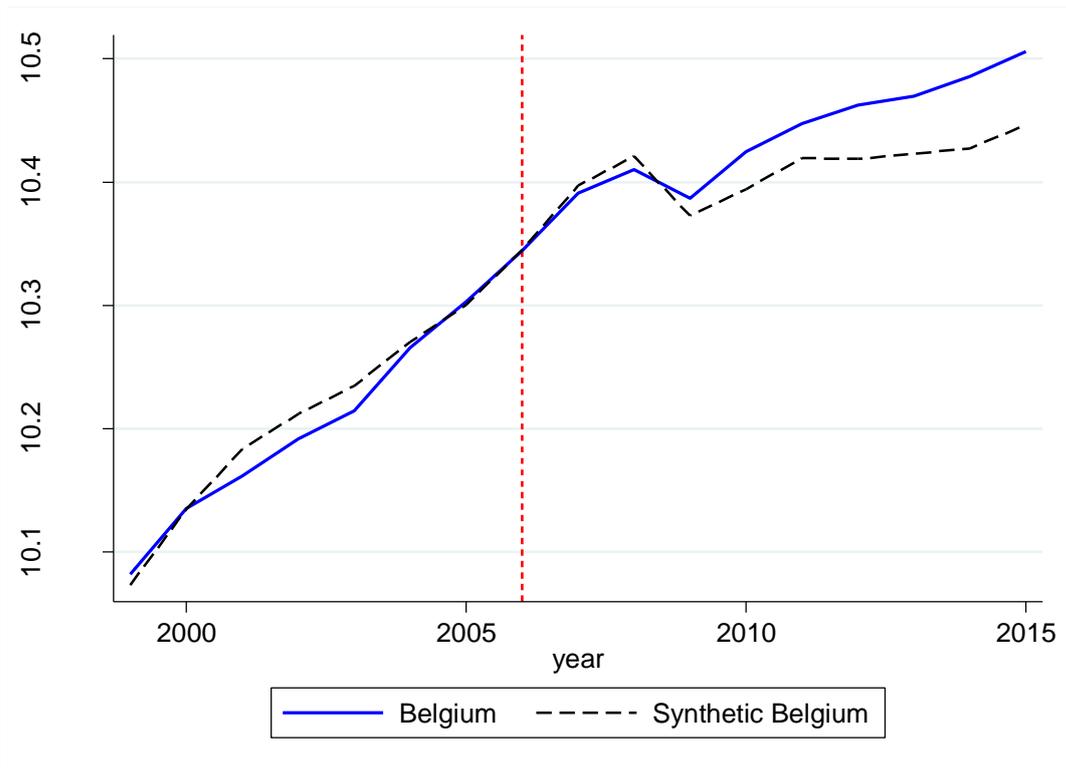
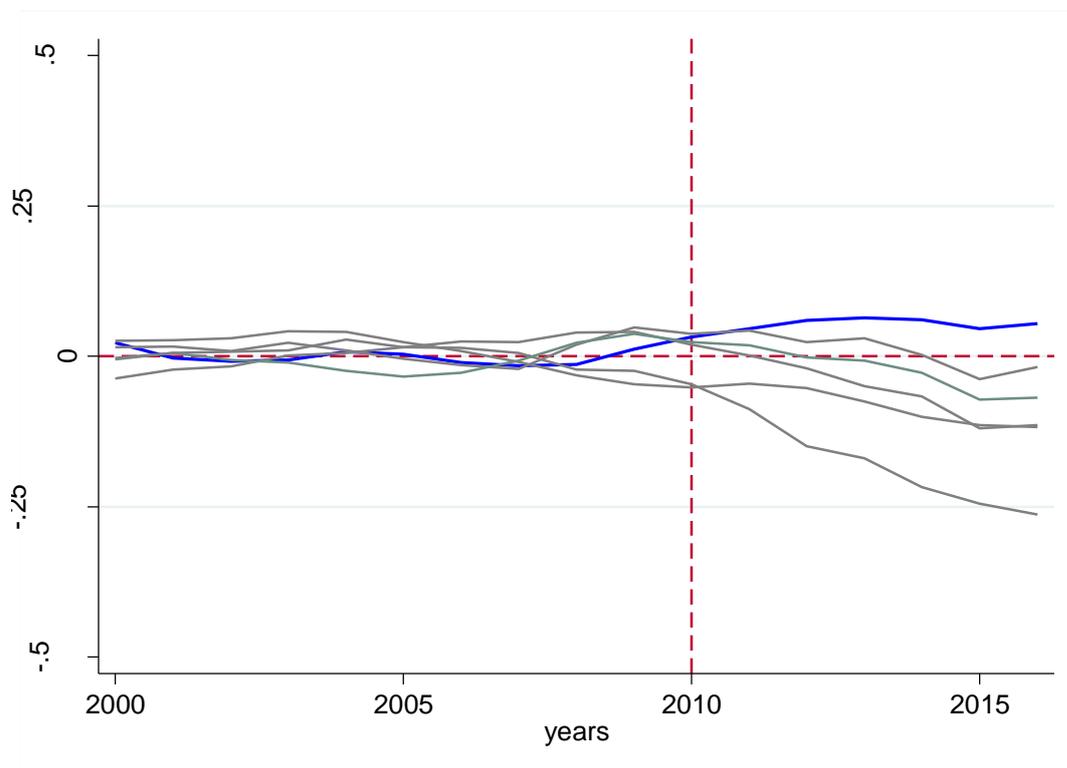


Figure 5 plots the trajectories for these placebo tests and, as expected, shows Belgium to be an outlier. These findings lend support to the contention that the effect obtained for Belgium is attributable to the political deadlock and the absence of full-power, government-led discretionary policies.

Figure 5. Placebo test (“in space”) assuming treatment in non-treated countries (excluding $RMSPE > 2 * RMSPE$ for Belgium).



7. Discussion

The results obtained from our analysis using the synthetic control method indicate that the rate of growth of Belgium GDP was higher during the period of government formation deadlock than it would have been in the same period with a full-powered government in office. Most strikingly, in 2011, following almost a whole year without a full-powered government, we record the highest relative increase in the gap between what actually happened in the Belgium economy and our counterfactual, a regular non-deadlock year. After 2012, the difference between the real Belgium and synthetic Belgium ceases to grow, and the gap narrows in the following years.

While our analysis does not, in itself, allow us to seek out an empirical causality to explain the, surprisingly, relatively high rate of growth experienced by the Belgian economy during the period of government formation deadlock, below we discuss several circumstances that may explain why reality did not conform to the expectation that the economy would be damaged by a lengthy impasse, above all, against a backdrop of

economic turmoil and uncertainty, as that recorded at the beginning of the present decade in the eurozone. To do so, we consider the following set of circumstances: (1) Not having a full-powered government was not the same as having no government at all; (2) The effect of multilevel governance in Belgium; (3) The quality of governance in Belgium; (4) Effects on GDP from delaying fiscal consolidation efforts; and (5) The reduced promotion of economic regulations by government and parliament.

During the 18 months of deadlock, a caretaker government was always in place. This government was empowered to take all decisions in relation to ordinary matters, and urgent matters when so needed – in particular those related to the EU and the international arenas (Bouckaert and Brans, 2012; Brans, Pattyn, and Bouckaert, 2016)]. According to Bouckaert and Brans (2012: 174), as the deadlock became more entrenched, the scope of just what the caretaker government could do grew. For example, a new budget was approved by this government in March 2011 (and subsequently in May by Parliament). As such, political instability was never to express itself as economic uncertainty and instability. Moreover, by the time financial instability at the EU level had become extreme (that is, by late fall 2011), a full-powered government was then in office. Thus, not having a full-powered federal government did not mean the country was without any kind of federal government (Devos and Sinardet, 2012; Hooghe, 2012b).

Furthermore, the absence of a full-powered government at the federal level in Belgium must be understood within the broader context of Belgium's multi-level governance structure. Belgium's federal system assigns a considerable number of functions and powers to the three regions, above all to Flanders and Wallonia [while the region of Brussels has, in practice, more limited powers (Deschouwer 2009: 61)]. The Belgian regions, for example, play a key role in the provision of basic collective goods (education, health, infrastructure, etc.). Thus, given the way in which Belgium's federal structure and party system are set up, the political instability caused by deadlock at the federal level did not

translate into political instability at the regional level (Bouckaert and Brans, 2012). Furthermore, coordination between federal and regional governments had been fueled by the requirements of participation in EU institutions (Beyers and Bursens, 2006). The policy-making process at the EU level does not differentiate between full-powered or caretaker governments in the Member States, and as such the Belgium caretaker government had to meet its obligations with EU governance, including coordination with the regions (Deschouwer, 2012).

Quality of government indicators comprise dimensions that extend beyond the work of the executive, especially in a situation where a government's powers are limited to overseeing ordinary matters. As discussed above, economic governance includes, among others, such dimensions as government effectiveness and control of corruption. According to the Worldwide Governance Indicators (WGI-WB) of the World Bank for 2010 (the year when the government formation deadlock began), Belgium ranked 10th out of the 28 EU countries, indicating it had better governance than most of the Member States. More importantly, Belgium ranked 7/28 in terms of Government Effectiveness, Voice and Accountability, and 9/28 in terms of Control of Corruption (however, it occupied a fairly mediocre position on Regulatory Quality – 14/28). Similarly, Belgium ranked better than average (11/28) on the European Quality of Government Index (EQI-QofG) constructed by the Quality of Government Institute (University of Gothenburg) for 2010. Elsewhere, the 2010 Global Competitiveness Report (GCR-WEF) of the World Economic Forum, which provides information on key indicators for quality of governance, reported similar results for corruption as the WGI-WB, while Belgium ranked 11/28 for trust in politicians, and 12/28 for protection of property rights and judiciary independence.⁵ Thus, while Belgium does not top the rankings of quality of governance in the European Union

⁵ WGI-WB data can be consulted at www.govindicators.org (see also specific information for EU countries in 2010 in Kaasa, 2013); data for EQI-QofG for 2010 are available at <https://qog.pol.gu.se/data/datadownloads/qog-eqi-data>; data from GCR-WEF for 2010 are available at http://www3.weforum.org/docs/WEF_GlobalCompetitivenessReport_2010-11.pdf

(reserved for the Scandinavian countries), its position is above average in terms of most key indicators.⁶ Therefore, the country's relatively good quality of governance seems likely to have played a role in preventing the transfer of political instability into the economic arena and generating uncertainty and instability.

Turning to the public finance dimension, it is perhaps worth recalling that the fact that Belgium did not have a new federal budget until May 2011 could have meant some automatic savings, given that transitory budgeting procedures would not have updated for inflation (Bouckaert and Brans, 2012; Hooghe, 2012a). However, these automatic savings, which may have acted as a contractive fiscal policy in 'regular' times, occurred amid a sharp economic and financial crisis in the EU, which means that limiting fiscal consolidation to these automatic changes served as an expansive fiscal policy, at least in comparative terms. Indeed, it has been widely documented that the government did not implement any structural financial measures (Brans, 2012; Brans, Pattyn, and Bouckaert, 2016; OECD, 2011; Troupin, Steen, and Stroobants, 2015). Furthermore, the government failed even to meet its commitment with the European Commission to reduce the country's GDP deficit to 3.6 percent in 2011 (FGB, 2011). According to Eurostat data, Belgium's public deficit stood at 4.1% of GDP in 2011, rising from 4.0% in 2010. It is reasonable to think that political deadlock undermined the government's ability to implement a more intense deficit reduction and, as such, fiscal adjustment was postponed.⁷

Drawing on Eurostat data for EU countries in 2011, we computed Belgium's public deficit in that year in a scenario in which its financial consolidation had been as intense as in the eurozone as a whole. We found that its public deficit would have been 2.8% of GDP as opposed to 4.1%. Furthermore, we computed Belgium's deficit as if it had behaved in

⁶ A specific issue related to good governance is the quality of bureaucracy, as emphasized in LaPorta et al. (1999) and Keech and Munger (2015). See Brans (2012) for an analysis of the role of civil servants and public managers in guaranteeing the continuity of government operations.

⁷ Detailed information on fiscal consolidation measures employed in Belgium between 2009 and 2014 is offered in Troupin, Steen, & Stroobants (2015: 466-467)

line with the donor pool of countries in our synthetic control analysis (see Table 3 above): we obtained a public deficit of 3.6% (compared to the actual 4.1%). These results support the conclusion that the government formation deadlock slowed the pace of fiscal consolidation and that this is, in all likelihood, one of the factors that explains Belgium's relatively higher GDP per capita growth rate.⁸

Finally, in the case of quality of regulation and economic performance in Belgium, while legislative activity was frozen after the 2010 election, government and parliament legislative activity was gradually resumed with the passing months. In the first few months of deadlock, government legislative proposals were strictly limited to addressing urgent issues, but thereafter its scope of intervention gradually expanded (Pilet, 2012). However, no new policy legislative initiatives were taken by the caretaker government (Pilet, 2012: 98). Van Aelst and Louwse (2014: 483) report detailed information on Belgium's legislative activity and show that in the 2010-2011 Parliamentary year (full year of government formation deadlock), the number of bills passed was 145. Of these, 73 were proposed by government and 72 by members of parliament. While this figure is higher than that corresponding to the 2007-08 period of deadlock (a total of 116, with 76 being proposed by government), it is significantly lower than that recorded in non-deadlock, post-election years in the previous decade, when the number of bills passed was regularly above 200. In short, the quantity of legislative regulatory activity was less than usual and, moreover, no new structural reforms or initiatives were undertaken.

Interestingly, while most dimensions of quality of governance showed Belgium to be performing better than most other EU countries, this picture is dramatically reversed if we focus just on regulation. Thus, quality of regulation is the dimension for which Belgium

⁸A comparison with the countries in the donor pool shows that public deficit as % of GDP in 2011 grew only in Belgium and Spain, and that the growth rate was relatively higher in Belgium. In all the other countries (Netherlands, France, United Kingdom and Italy), public deficit as % of GDP in 2011 decreased by between 12 and 25% from 2010. Detailed computations are available upon request.

receives its lowest ranking on the WGI-WB, occupying a mediocre 14th position among the 28 EU countries in 2010. The GCI-WEF, likewise, offers information on the Regulatory Burden on Firms, and here the perception of Belgium is especially poor: In 2010 the country ranked 122nd among 139 countries included in the analysis (i.e. the greater the regulatory burden, the lower the ranking), and 22nd among the 28 EU countries. As such, regulatory quality appears to be one of the most important shortcomings of economic governance in Belgium. This suggests that the fact that less legislation was passed during the government formation deadlock was concomitant with the fact that less bad (for economic growth, that is) legislation was passed. It is well documented that the caretaker government was never in a position to pass initiatives aimed at making the economy more flexible (i.e. the structural reforms suggested by the European Commission), even if there had been a will to do so, and that this is rarely an objective of bills sponsored by individual members of parliament, the increase in the number of which was a singular feature of this record-breaking period of deadlock.

8. Concluding remarks

Our findings in this article run counter to frequently made claims that political deadlocks have an economic cost. Following implementation of the synthetic control method, our study shows that – in the case of Belgium, at least (the country to date recording history's longest period of political impasse) – not only was there no evidence of any economic deterioration, but the country's economic growth was actually higher than that of its counterfactual.

During the period of deadlock, a government did exist – albeit not a full-powered government – that responded to all matters of urgency, and which expanded its scope of action as the period of impasse lengthened. Parallel with this, multilevel governance in Belgium was an additional factor that diminished the effects of the deadlock. A further

factor that ensured political instability and uncertainty did not impact the economy was the relatively high quality of most of the dimensions considered key for economic governance. Thus, robust, efficient institutions, beyond government, played a positive role in protecting the economy from the difficulties of political deadlock.

Our study further suggests that delays in fiscal consolidation may account for the fact that economic growth was higher than might otherwise have been expected. However, while our analysis allows us to detect this effect in the short term, the scope of the study means we can make no long-term forecasts in this regard. Additionally, given the poor quality of regulation in Belgium and the country's high regulatory burden, less legislative activity might well mean that the government formation deadlock provided firms, and the overall economy, with a relative regulatory break.

The structure and levels of government, the separation of powers, and economic governance are unique to each country, which means we cannot generalize our findings regarding the absence of economic deterioration resulting from government formation deadlock in Belgium. Future research needs to analyze other countries that have experienced similar (although shorter) periods of impasse to determine the role played by idiosyncratic governance characteristics, and to ascertain whether any common patterns emerge from different government formation deadlock events.

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