

Norman Schofield · Gonzalo Caballero · Daniel Kselman *Editors*

Advances in Political Economy

Institutions, Modelling and Empirical Analysis

This book presents latest research in the field of Political Economy, dealing with the integration of economics and politics and the way institutions affect social decisions. The focus is on innovative topics such as an institutional analysis based on case studies; the influence of activists on political decisions; new techniques for analyzing elections, involving game theory and empirical methods.

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Social Sciences / Political Science

ISBN 978-3-642-35238-6



9 783642 352386

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 Springer

93 funds will appear included at the central level as it is the central government who
94 decides upon this debt in Spain.⁶ Figures referring to “all governments” are consol-
95 idated among subsectors, as it is done in National Accounts.

96 Therefore, to accomplish its purpose, the present chapter is organized as follows.
97 Following introductory remarks, in Sect. 1 I briefly review some of these key gen-
98 eral contributions to the topic being investigated in the present paper. In Sect. 2 an
99 empirical analysis is conducted for the period 1996–2007 on the Spanish case using
100 National Accounts multilevel public finance figures in order to show the evolution
101 of sub-central as well as central debt before the world financial crash. In this section
102 the paper emphasizes some singularities regarding key aspects of the multilevel or-
103 ganization of government that exists in Spain, including legal details in place over
104 the period concerning the ability to incur in deficit and to issue debt by sub-central
105 governments. In Sect. 3 the same is done as regards to the 2008–2011 period that
106 followed the said financial crash. This section will show that Spain has experienced
107 a considerable increase in public deficit and debt since 2007, mainly at the central
108 level. It also points to the current economic recession and the initial counter-cyclical
109 measures adopted by all governments, including the increase in public expenditure
110 needed for bailouts in the financial sector, as key factors leading Spain to exceed
111 during this second period the limits on public deficit settled in the European Stabi-
112 lity and Growth Path. Section 4 concludes by emphasizing that economic conditions
113 seem factors more relevant for explaining the evolution of central and sub-central
114 debt in Spain than factors linked to political and fiscal decentralization arrange-
115 ments. As stressed in Sects. 3 and 4, the above statement is not to claim that debt
116 limits, as well as some other public sector regulatory details and behavioral political
117 practices, are irrelevant. The chapter also leaves for future econometric research the
118 task of assigning numbers to the relative magnitude in which each of these impact
119 factors have influenced the evolution of debt at the different tiers of government.
120
121

122 **2 What Are the Main Factors Influencing the Evolution** 123 **of Sub-central Debt that Are Being Emphasized** 124 **in the Literature?** 125 126

127 Before examining what has happened with sub-central, as well as central, debt we
128 need briefly investigate which are the main factors influencing this evolution that are
129 often stressed in the literature. Rodden and others⁷ have made outstanding contribu-
130

131 to mixed consortiums, to public-private partnerships, etc. When these organizations belong to the
132 business sector their activities are not directly accounted as part of the “general government” activ-
133 ities (central-regional-local-social security funds) but indirectly following National Account rules.

134 ⁶This is not the case regarding multilevel public finance statistics provided by the IMF. That is why
135 the percentages that follow are not strictly comparable with IMF based percentages. The OECD
136 databases do not provide desegregated figures for social security funds debt for all countries.

137 ⁷See Rodden (2002), Rodden and Wibbels (2002), Rodden et al. (2003), Rodden (2006).
138

139 tions on these issues from a comparative institutional perspective. They have recur-
 140 rently stressed that institutional details characterizing federal systems are key factors
 141 (not necessarily the only ones) for explaining differences in performance among
 142 federations. They consider these factors crucial in explaining why sub-central gov-
 143 ernments behave in a fiscally conservative manner in some countries while they
 144 rely on deficit financing in others thus generating unsustainable levels of debt. This
 145 means that institutional-legal arrangements, as well as informal social norms and
 146 values, matter in the economy as well as in the polity. The key question however is:
 147 which institutional arrangements are decisive in each situation if political, economic
 148 and social circumstances as well as participants differ so much from case to case?⁸

149 Political and fiscal decentralization per se does not necessarily weaken fiscal
 150 discipline of sub-central governments according to this strand of literature. A key
 151 aspect seems to be whether the institutional setting for multilevel government pro-
 152 vides expectations for sub-central government leaders that there is a possibility to
 153 be bailed out, *ceteris paribus*. In those multi-tiered systems of government in which
 154 the commitment by central government to reject demands for bailout lack credibil-
 155 ity, political agents at sub-central governments may have the incentive to overspend
 156 and incur greater deficits if they have unrestricted access to borrowing or borrowing
 157 limitations are not credibly enforced.⁹

158 The incentive may be particularly relevant if political agents controlling a sub-
 159 central government belong to a different political party or coalition than the party or
 160 coalition controlling the central parliament and executive. The said incentive usually
 161 results in strong efforts on the part of sub-central politicians to ensure re-election by
 162 finding local and regional opportunities for spending if external financial sources are
 163 available and no obligation to raising own taxes over regional constituents exists.
 164 This is also referred to as the common pool problem.¹⁰ This bias may driven the
 165 behavior of all parties, lobby groups and the people in general in the region or state.
 166 The more you get for “the state-region” from the common pool, the better.

167 Using a sample of 43 countries over the period 1982–2000, Plekhanov and Singh
 168 (2006) point to similar aspects as key factors in many cases. These authors conclude
 169 that no single institutional arrangement seems superior under all circumstances for
 170 disciplining sub-central government spending. Specific institutional characteristics
 171 of the country, state or region, the existence of any bailout precedent, and the quality
 172 of fiscal reporting seem relevant factors for all these countries.

173 Among these arrangements, the effectiveness of debt and spending limits has
 174 received considerable attention too in the literature, as well as the balanced budget

175 _____
 176 ⁸See North (2005) or Ostron (1990) and (2005).

177 ⁹From a sample of 30 countries, Melo (2000) shows evidence indicating that intergovernmental
 178 fiscal relations are likely to result in a deficit bias in decentralized policy-making with soft budgets
 179 constrains.

180 ¹⁰Besley and Coate (2003), Knight (2006, 2008), Inman and Rubinfeld (1997), Baqir (2002), or
 181 Baron and Ferejohn (2007, 2009) address these common tax-pool issues mainly referring to the
 182 USA Congress and Senate. All emphasize on how the incentives created by national financing
 183 of local public goods lead to individual congressmen or senators to try to expand own-district
 184 spending at the same time that they try to restrain aggregate spending.

185 rule. Studies made upon panel data do not show a sole conclusion as usual. However,
186 in many occasions these limits seem to have lowered the spending rate of growth
187 during the boom periods, particularly if limits are well defined technically and it is
188 easy to detect non-compliance by independent management bodies. But this is not
189 always the case, as with regards to the US states for example, several authors have
190 detected no significant difference in expenditure or revenue growth between states
191 with and without such limitations for several periods of time. Shadbegian (1996)
192 uses panel data from the 1960s till the 1990s with such a conclusion. Kousser et al.
193 (2008) investigates changes within a given state, not among states, following the
194 adoption of such ceilings and again they find little impact over the subsequent years
195 since.

196 Of course, sub-central governments with strict balanced budget rules or debt lim-
197 its are less able to help central government in the attempt to implement counter-
198 cyclical policies.¹¹ Though, again, many exceptions and particularities exist from
199 country to country that have to be taken into account for an in depth analysis and
200 sound assessment. It must not be forgotten that debt limits typically apply only to
201 guaranteed debt, excluding debt issued by special public enterprises, as well as by
202 some public commercial agencies that are out of the so called “general government”
203 entities whose budgets are passed at all levels of government. Though this debt usu-
204 ally needs central authorization, it represents a way to evade the said ceiling rules if
205 central government political leaders are likely to do so.

206 The consequences of economic cycles are also critical factors examined in the lit-
207 erature.¹² Recessions usually lead to deliberate countercyclical spending measures
208 as a first reaction.¹³ If we also consider impact on spending derived from the auto-
209 matic increase in other expenditures and the negative impact on tax revenues that
210 also results, there can be little doubt that recessions always produce a negative im-
211 pact on public deficits and debt levels. Bloechliger et al. (2010a, 2010b) show that
212 recessions often affect public investment more than current expenditures as the for-
213 mer is easier to curtail in the face of budget constraints, while current expenditures
214 are politically more sensitive or mandated and, consequently, more difficult to be
215 changed.¹⁴ Poterba (1994), for example, showed how the economic downturns in
216 US during the late 1980s significantly and negatively affected public deficits by the
217 States. He also found that political factors seemed were relevant, particularly for
218 explaining deficits adjustments in subsequent years. Adjustments were made faster
219 when a single political party controls the governorship and the state house than when
220 party control was divided.¹⁵

222
223 ¹¹See Levinson (1998), Fatás and Mihov (2006) and Rose (2006).

224 ¹²Barro (1979) is a seminal, much cited, contribution on this line of research.

225 ¹³Padoan (2009), for example, investigates the size and composition of the fiscal stimulus packages
226 of the major economies that were implemented during 2008 in an attempt to cushion the decline
227 on aggregate demand and growth that occurred as a result of the world financial crash.

228 ¹⁴See also Wibbels and Rodden (2006).

229 ¹⁵See also Allain-Dupré (2011).

231 Periods of economic growth just work on the opposite direction. On this line of
 232 research and based on the evolution registered in the Swiss cantons between 1984
 233 and 2000, Freitag and Vatter (2008), for example, provide empirical results showing
 234 that in periods of economic growth multilevel organization of government has no
 235 relevant impact on debt. There are enough revenues for all governments to share.
 236 However, in phases of economic recession differences among Cantons as regards
 237 to political autonomy seem to affect the evolution of their debt. In these periods,
 238 suddenly spending needs appear greater than public incomes and Cantons enjoying
 239 greater political decentralization tend to implement more active budgetary policies
 240 than centralized Swiss cantons, then incurring in greater debt.

241 There must be no doubt that both organizational factors as well as factors linked
 242 to economic conditions are attracting the attention of scholars dealing with fiscal
 243 behavior by sub central governments. However, knowing the relative role played
 244 by specific formal and informal organizational details as compared to the role of
 245 the economic cycle in determining the level and change in debt burdens is not an
 246 easy task. Moreover, econometric exercises attempting to find the definitive factors
 247 that are valid are often contradicted or refuted with other similar attempts found in
 248 the published literature. The purpose of the present paper is quite different as indicated
 249 in the introductory section. This paper attempts to quantitatively investigate
 250 the evolution of sub-central, as well as central, public debt in Spain and see whether
 251 the turn in economic conditions is paralleled by a similar turn regarding the evolution
 252 of debt. For accomplishing this research purpose, the next section focuses on
 253 statistics for the 1996–2007 period.

254 255 256 **3 The Evolution of Sub-central and Central Debt in Spain** 257 **Before the World Financial Crash**

258
259 As Spain experienced major changes in developing a new quasi-federal political
 260 system from 1978 to 1983, it seems a suitable case study for investigating whether
 261 this political and fiscal decentralization drive was paralleled by a negative evolution
 262 of public debt at sub-central levels of government. How has public debt evolved in
 263 Spain? Did the world financial crash and the severe recession initiated in 2008 cause
 264 any significant turning point as regards to sub-central or central public debt?

265 It is evident that public deficits and outstanding public debt were reduced at all
 266 levels of government in Spain over the 2000–2007 period here considered if properly
 267 measured as a percentage of GDP, as Table 1 reveals. Contrary to the case in some
 268 Latin-American countries for example,¹⁶ no relevant macroeconomic distortion has
 269 been generated and no bailout problem has existed over the period. Moreover, Table
 270 1 also shows that both regional and local governments have contributed to the
 271 total outstanding debt in very low proportion over the period. Roughly speaking,
 272

273 ¹⁶See Tanzi (2000) for an analysis of the potential macroeconomic problems. For an analysis of
 274 the bailout problem in the Argentina case, see Jones et al. (2000), Sanguinetti and Tomassi (2004)
 275 Tommasi et al. (2001) or Saiegh and Tommasi (1999).
 276

Table 1 General government debt in Spain before the world financial crash broken down by levels (% of GDP and Millions of Euros. National Accounts). Source: OECD, Eurostat and Bank of Spain. Figures in the public domain

	2000	2004	2006	2007
Sub-central Governments	9.6	9.1	8.7	8.5
Regional Governments	6.3	6.2	5.9	5.7
Local Governments	3.3	2.9	2.8	2.8
Central Government	51.5	37.1	31.0	27.7
ALL GOVERNMENTS in Spain	61.1	46.2	39.7	36.1
EU AVERAGE (Euro zone)	69.9	69.8	68.5	66.3
Sub-central Govs Debt in Millions Euros	59267	76148	86639	90424
Central Gov Debt in Millions Euros	314766	312994	304416	291883
Sub-Central Govs Debt as % of Total Debt	15.84	19.56	22.15	23.65

the central government contributed about three times more than regional and local governments did to outstanding debt. Since the mid 1990s, outstanding debt by the regional governments has remained around 6 per cent of Spanish GDP and that one by local ones around 3 per cent. Total outstanding debt in Spain has always been lower than the EU average level over the period prior to the current financial crash, as Table 1 also indicates.

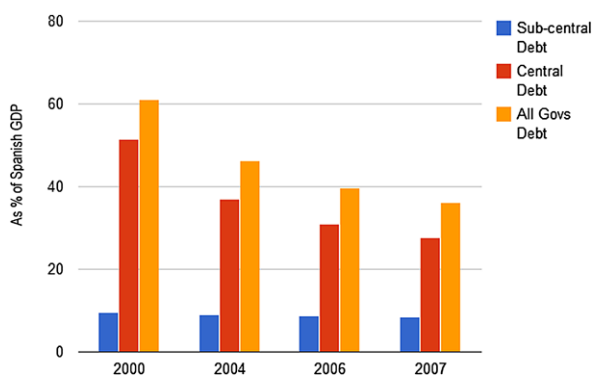
Graphically, this evolution of public debt broken down by levels of government can be observed in Fig. 1.¹⁷ If we take into consideration that over those years, the process of political decentralization was very intense,¹⁸ it can be stated that this political decentralization was not paralleled by any relevant fiscal or debt problem at sub-central or central levels of government. A different issue to be addressed in the next section is if this new multilevel political system will be able to effectively respond to the fiscal consolidation strategies required after the world financial crash.

Several explanations may help point towards what occurred in Spain during this period. It is well-known that, along the past two decades, many developed countries have significantly changed the context in which their fiscal policies operate, particularly by adopting fiscal rules containing explicit limits to the public deficit and/or the outstanding public debt. In some cases, explicit top ceiling to annual total expenditures have also been settled. If compared with countries where these fiscal rules are absent or not fully endorsed, the empirical evidence taken from the former ones

¹⁷All figures are made according to the European excessive-deficit protocol. Debt issued by Social Security Funds is included at the central level of government.

¹⁸Three years after the approval of the 1978 democratic Constitution, regional governments only managed 2.9 percent of total public expenditures. In 2006 they managed 33.1 percent. If we also take into account that total public expenditure in Spain has experienced a significant and rapid growth over those years (from 24.9 per cent of Spanish GDP in 1974 to about 40 percent on average over the 2000s).

Fig. 1 General government debt in Spain before the world financial crash broken down by levels (% of the GDP and Millions of Euros. National Accounts). Source: Eurostat and Bank of Spain. Figures in the public domain



tend to show these rules as useful mechanisms in helping to maintain budgetary discipline, but mainly during periods with enough economic growth.¹⁹ However, the specific design of limitations and controls greatly determines the effectiveness of these rules. Monitoring and enforcement aspects or the specific procedures settled for dealing with potential deviations seem also crucial aspects.

Moreover, some central legal rules for borrowing have always existed since democratic transition.²⁰ Therefore, they may have played a role in maintaining the fiscal discipline displayed by regional as well as by local governments over the period. However, these legal rules have not been sufficient controls once the financial crash and its associated economic recession started. Though an increase in public debt measured in millions Euros was registered over the boom period, this did not cause any increase in the relative percentage of sub central debt in terms of GDP, which is the most relevant economic comparison. Controls and the economic cycle seemed to act to restrain relative debt burdens across levels of government.

Though these rules and controls have also been changed on several occasions, a written approval of the Central Finance Minister has always been required for regional governments to access long term credit and issue debt, and specific constraints and requirements were settled by Law for obtaining such a written authorization.²¹ In particular, for regional governments to get long term credit (longer than a year), two requirements have always been in place. First, all credit must be dedicated to investment. And second, annual repayment (capital and interests) must not be higher than 25 % of each regional government annual current income. As regarding the legal rules framing financial sources at local governments' disposition, two Laws were passed in the Central Parliament since the very beginning of

¹⁹See Debrun and Kumar (2008).

²⁰These Law initially passed in the central parliament were: Organic Law 8/1980 on Regional Governments Finances, Law 7/1985 and Law 38/1988 on local public finances. These laws have been reformed in several occasions since.

²¹In 2001, borrowing activities by Regional governments were also linked to the balanced budget principle, though some flexibility was introduced in the application of this principle in 2006, and latter on in 2009.

369 democratic transition, once the 1978 Constitution was in effect. These two initial
370 legislation packages were Law 7/1985 and Law 38/1988. The second is known as
371 the Regulatory Law of Local Public Finances (*Ley Reguladora de las Haciendas*
372 *Locales—LRHL*). Several reforms have taken place since those years.²² As a re-
373 sult of all these regulatory packages, local governments have been subject to similar
374 obligations in regards to budgetary stability as those affecting regional governments,
375 though some flexibility and exceptions are explicitly considered in case of recess-
376 sions in such legislative measures. Plans to progressively eliminate public deficit
377 deviations are also required. In all cases, authorizations to access credit and issue
378 short term and long term debt may be denied by the Central Finance Minister if
379 these plans are not fully implemented.²³

380 Moreover, it seems evident that the spectacular increase registered in total public
381 income on average over the growth period (both in total euros and as a percent-
382 age of GDP), did also help in reducing public deficits and, consequently, the out-
383 standing public debt levels as shown in previous Table 1. An increasing amount of
384 public income has been available for financing public policies at all levels of gov-
385 ernment. Attention must be paid to the fact that over this period, the Spanish GDP
386 also grew significantly. The economic growth registered over the period provided
387 regional governments with an increasing amount of financial resources. Most of this
388 public income has come from the increase registered in the Spanish tax revenue in
389 relation to GDP: an increase of about eighteen points in about thirty years (from 18.4
390 per cent of GDP in 1975 to 36.7 in 2006 according to the ministry of finance figures).
391 Moreover, Spain has also been receiving, until 2001, on average about 1–1.2 percent
392 of GDP more each year in net terms as public income from the European Union.²⁴
393 The economic cycle seems a key issue as we are going to emphasize in the next
394 section. Therefore, the figures provided show that the significant drive to political
395 federalism and fiscal decentralization has not been paralleled by a non-disciplined
396 fiscal behavior on the part of sub-central governments over the period that ended in
397 2007. Sub-central debt levels were reduced significantly in percentage of GDP, as
398 OECD figures show. Sub-central public deficit also went from –0.6 percent of GDP
399 in 1996 to –0.4 in 2006.
400

401
402
403 ²²Two of these significant reforms regarding borrowing issues were implemented through Royal
404 Decree 1463/2007 (which further develops basic principles settled in the General Law for Bud-
405 getary Stability already mentioned) and Royal Decree Law 5/2009 (which contained urgent and
406 extraordinary measures to facilitate local governments to pay their providers if some obligations
407 remained unpaid in 2008. Local government have had three months after the approval of the 2009
408 Royal Decree Law for documenting these obligations that could not be paid and exceptionally ap-
409 ply for extra credit authorizations that will have to be repaid in six years maximum, that is in 2013).

409 ²³An extra requirement exists for local governments to freely access short term credit (repaid along
410 the year): the total amount obtained must not exceed 30 percent of current incomes in the previous
411 year.

411 ²⁴Since 2002, this source of income is becoming less significant in terms of GDP, and has suffered
412 a further reduction for the period 2007–2014 as the twelve new countries that entered the EU in
413 2004 and 2007 are obtaining most of the EU funds for the new period.
414

4 What Has Happened with Sub-central, as well as, Central Debt in Spain After the World Financial Crash?

The above analysis does not mean that the singularities regarding political and fiscal decentralization arrangements are irrelevant. However, after more than a decade leading up to a major financial bubble in developed countries, some dramatic events erupted around the fall of 2008. The severity of the economic recession generated and the initial counter-cyclical measures adopted by all governments, together with some other singular national factors, has lead to all European countries, in particular, to double or triplicate the public deficit levels they registered prior to the financial crash, then exceeding the limits established in the European Stability and Growth Pact (ESGP). Several other measures that are being taking necessarily imply more public spending as is the case of the financial sector reform and those measures implemented to reorganize and recapitalize banks and savings banks, with several banks already bailed-out.

In countries that were not able to significantly diminish public deficits and debt over the boom, the consequences of recession, bankruptcies and bailouts in the financial sector, to mention but a few events, have been more severe in terms of public deficit and debt. This has caused considerable uncertainty on the part of international investors over the ability of these governments to successfully issue new debt at reasonable interest rates and even to pay back bonds previously issued.

But this evolution of debt levels alone does not explain why Spain has experienced such a critical situation, particularly since the beginning of 2010. Japan, for example, has got a debt burden of near 200 per cent of GDP and has had no similar financial problems at international markets. Key issues in the case of Spain are the bad record regarding economic growth since 2008, the bubble in the building sector that has finally burst and seriously affected banks and saving banks, and also the many needs regarding current and expected levels of elderly populations having the right to get a public pension. The situation looks even worse if we consider the huge increase in unemployment that Fig. 2 shows. This reveals not only that internal demand has dropped and more and more public expenditures are needed, but also that no dynamic export sector has come as a substitute. As a result, a spectacular decrease in public revenue is taking place at all tiers of government. Regarding the balance of payments, the current account external trade deficit that Spain is registering, according to OECD figures (with no compensation from the financial account) transmit the idea to international investor that problems will not be solved in the near future. As higher is external debt (not just public external debt, but also external debt by households, enterprises and banks) the worse regarding expectations.

The importance of having or the lack thereof of effective fiscal rules and public deficit and debt controls increases, of course, in the case of countries belonging to monetary unions, as is the case of Spain. As the Euro zone case reveals since early 2010, the sharp increase in public debt registered in some countries is clearly producing significant negative impacts on other partners in the zone. This, in fact, was a main argument for introducing the well-known public deficit and debt top limits into the European Union Treaty at late 1980s. These shared consequences have also

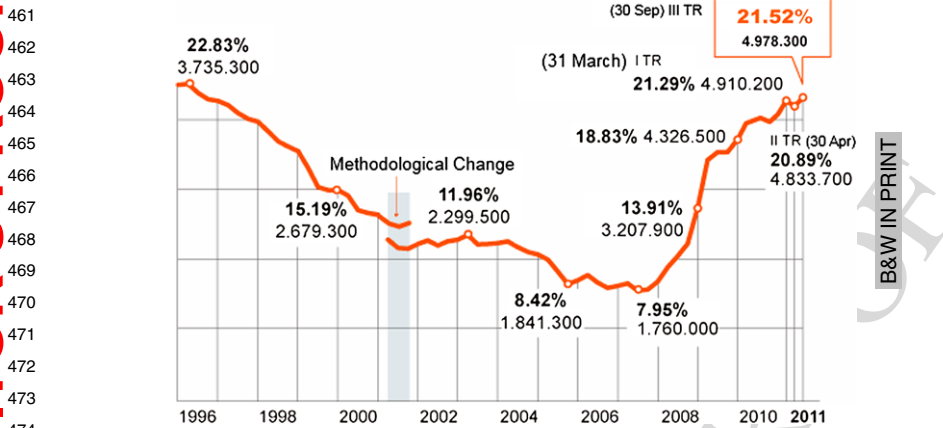


Fig. 2 Unemployment in Spain (percentage of active population and number of people unemployed). Source: Figures in the public domain from the Spanish National Institute of Statistics that are fully consistent with those provided by the OECD

lead to the several amendments of the already mentioned European Stability and Growth Pact (ESGP) that have taken place. They have finally been used also for justifying interventions or bailouts (Greece, Ireland, Portugal, and the bailout plan for the saving banks in Spain).

In all these countries, the extremely critical economic situation created since 2008, together with the particularities of the specific economic problems affecting each country, has resulted in spectacular increases in outstanding public debt levels in just four years. In the case of Spain, the total public debt has doubled in terms of the Spanish GDP if 2011 and 2007 years are compared, as Table 2 shows (from 36.1 per cent of GDP to 72.1 per cent). Sub-central governments' debt has also experienced a significant increase with about 68 thousand millions euros added to the stock of Spanish public debt in just four years, with regional governments as main contributors. However it has been at the central level of government where the drastic turning point in economic cycles that took place in 2008 has caused the greatest impact. Outstanding central public debt soared from 27.7 per cent of Spanish GDP in 2007 to 52.1 per cent in 2011, adding more than 267 thousand millions Euros (about 334 billions US dollars) to the total outstanding public debt in Spain over the said four years.

Graphically, this evolution of debt by levels of government over the 2007–2010 period is shown in Fig. 3, which includes also previous years for comparative purposes.

There must be no surprise that Moody's, Fitch and S&P, though they are very much contested agencies as they gave AAA to Lemman Brothers in 2006,²⁵ recurrently downgrade the ratings for central and sub-central government debt in Spain,

²⁵As well as to, for example, the four banks rescued in Ireland, which amounted the annual public deficit in the country to more than 30 per cent of GDP. Remember that the European Stability and

Table 2 General government debt in Spain after the world financial crash broken down by levels (% of GDP and Millions of Euros. National Accounts). Source: OECD, Eurostat and Bank of Spain. Figures in the public domain

	2007	2008	2009	2010	2011
Sub-central Governments	8.5	9.6	12.0	14.8	16.4
Regional Governments	5.7	6.7	8.7	11.4	13.1
Local Governments	2.8	2.9	3.3	3.4	3.3
Central Government	27.7	30.6	41.9	46.4	52.1
ALL GOVERNMENTS in Spain	36.1	40.2	53.9	61.2	72.1
EU AVERAGE (Euro zone)	66.3	70.0	79.5	85.3	87.2
Sub-central Govs Debt in Millions Euros	90424	114400	125662	154891	175502
Central Gov Debt in Millions Euros	291883	322584	439420	488245	559459
Sub-Central Govs Debt as % of Total Debt	23.65	26.17	22.23	24.08	23.87

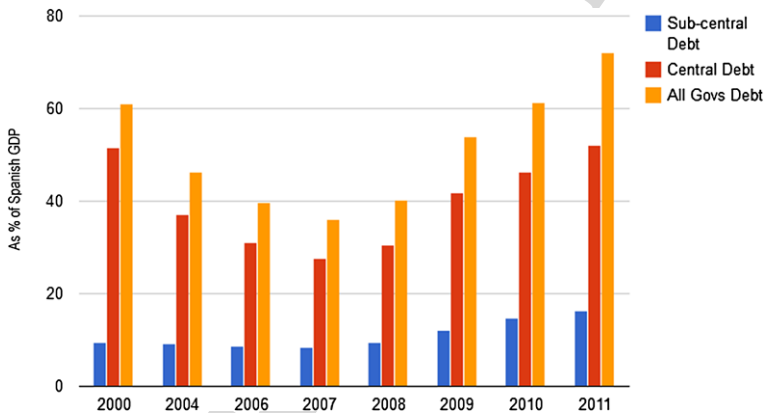


Fig. 3 General government debt in Spain before and after the world financial crash broken down by levels (% of the GDP). Source: Eurostat and Bank of Spain. Figures in the public domain

as well as in several other countries of course. Obviously, a main consequence of this downgrading is the increase in interest rates to be paid for issuing debt as downgrades imply greater estimated risk of default in repaying this debt, which negatively affects the purpose of reducing public deficits. There must be no surprise either that in the short term all austerity measures being implemented since 2010, particularly in several EU countries, represent contractive policy measures that have finally damaged the already weak economic recovery that seemed to have started at the last quarter of 2010, as Krugman and many other analysts recurrently called attention

Growth Pact required it to be under three per cent as a general rule, let aside the exceptions also settled.

553 to. With neither external demand nor internal consumption able to pull the Span-
554 ish economy and with all tiers of government cutting expenditures to reduce public
555 deficits since 2010, it must be no surprise that the economy remains in contraction
556 in 2011 and 2012, as preliminary figures already available reveal.
557

558 **5 Concluding Remarks**

559
560
561 Regarding the evolution of sub-central, as well as central, public debt in Spain over
562 the period 2000–2011 the present investigation indicates that the impacts of eco-
563 nomic conditions seem the key factors. The figures here provided show that a turn-
564 ing point took place in 2008 when the world financial crash started. This is not to
565 say that the singularities regarding political and fiscal decentralization arrangements
566 and public deficit and debt controls are irrelevant for the evolution of public debt.
567 In fact, as the chapter stresses, it is a common ground in many published articles
568 to state that if sub-central governments are left to their own devices and their bor-
569 rowing activities are not centrally controlled, it is likely that these governments tend
570 to borrow excessively as regards to the macroeconomic needs of the country, also
571 entering the risk of default more easily than would be otherwise if strict regulations
572 were settled and enforced, *ceteris paribus*.
573

574 In the Spanish case this undisciplined fiscal behavior has not taken place till
575 2007. The detailed formal limits on deficits and debt that have always existed have
576 no doubt positively influenced this evolution of debt over the period, as mentioned in
577 the chapter. The increase registered in tax revenue along the period played also a key
578 role. As growth rates were higher in Spain than the EU average it is no surprise that
579 debt levels in Spain experienced also greater reduction in terms of GDP till 2007,
580 as the figures provided show. As regulations and controls regarding public deficits
581 and debt were also in effect during 2008 and 2009, it seems straightforward that
582 these regulations cannot be charged for the spectacular increase registered in public
583 deficits and total debt after the world financial crash. Total public deficit in Spain
584 reached (–) 4.5 per cent of GDP in 2008 and (–) 11.2 per cent in 2009, whereas in
585 2007 all governments had registered a surplus of (+) 1.9 per cent of GDP. And this
586 has been also the case concerning many other European countries. The limits estab-
587 lished in the European Stability and Growth Path could not be achieved by most EU
588 countries. As regards to public debt, the chapter has stressed that in just four years
589 total outstanding debt by all governments in Spain doubled (from 36.1 per cent in
590 2007 to 72.1 per cent in 2011). Therefore, it is evident that the extremely serious
591 recession experienced since 2008 has been paralleled by a substantial increase in
592 public deficits and debt levels in Spain even if no relevant change was introduced in
593 the country regarding the basic rules characterizing political and fiscal decentraliza-
594 tion as well as debt issuing controls.

595 Moreover, the analysis provided in the chapter also indicates that it has been at
596 the central level of government where the debt has increased more in absolute terms
597 since 2007, with 267 thousand millions euros (about 334 billions US dollars) being
598