

# The Politics of External Approval: Explaining the IMF's Evaluation of Austerity Programs

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## Abstract

During the European debt crisis, numerous states launched austerity programs. The International Monetary Fund (IMF) evaluates and forecasts the likelihood of member states' success in implementing these programs. Although IMF evaluations influence country risk perceptions on capital markets, little is known about their reasoning. This paper uses fuzzy-set Qualitative Comparative Analysis to explore on what grounds the IMF evaluated the success prospects of austerity programs during the European debt crisis. Results reveal that IMF evaluations are heavily influenced by the program's implementation credibility. They require a tractable policy problem, a country's institutional capacity to structure implementation, and favor expenditure reduction over revenue measures. By acting as a strict guide on the road to fiscal adjustment, the IMF indirectly influences member states' scope of policymaking through its surveillance activities. Extensive austerity programs that need to be implemented swiftly are evaluated negatively if the country is not involved in an IMF program.

## Keywords:

International Monetary Fund (IMF), Austerity, European Debt Crisis, fuzzy-set Qualitative Comparative Analysis (fsQCA)

## **Introduction**

This paper analyzes on what grounds the IMF evaluated the success prospects of austerity programs during the European debt crisis. The level of debt in developed European countries has risen sharply in recent years. To avoid spiraling debt and refinance existing debts on the capital markets under acceptable conditions, numerous states have adopted austerity programs. Austerity programs aim to balance the fiscal budget by reducing expenditure and increasing revenue, hence constituting one way to achieve fiscal consolidation (Blyth 2013; IMF 1995). The International Monetary Fund (IMF), often described as one of the most powerful IOs in history (Bird 2007; Nelson 2014; Stone 2002), “accompanies” countries on the road to fiscal consolidation. Throughout this process, it influences domestic fiscal policy in important ways (Ban 2015; Barnett & Finnemore 2004; Fang & Stone 2012; Woods 2006). Besides providing policy advice to member countries, the IMF also evaluates the countries’ likely performance in implementing austerity policies, and communicates the results (Dreher, Marchesi & Vreeland 2008; IMF 2015a, b, c; Lombardi & Woods 2008). The IMF’s evaluations of countries’ austerity programs – a key element in the IMF’s bilateral surveillance activities – are influential signals to capital markets on how risky certain sovereigns are in terms of investment (Ban & Gallagher 2015; Dreher et al. 2008; IMF 2015c). If the IMF does not consider a country’s road to fiscal adjustment credible, this results in an increased risk perception on capital markets (Fratzscher & Reynaud 2011).

Despite the huge relevance of IMF austerity program evaluations, little is known about their reasoning. The main thrust of research on IMF-decision-making has focused on the Fund’s lending activities, but paid little attention to surveillance activities (Barnett & Finnemore 2004; Dreher & Gassebner 2012; Pop-Eleches 2008; Steinwand & Stone 2008; Stone 2004). However, as the IMF’s new *raison d’être* is surveillance (Dreher et al. 2008), the question of how the IMF exerts power on its member states – not only by direct means such as formal

enforcement mechanisms, but also indirectly through the narrowing of policy advice and options – has taken on a new dimension (Broome & Seabrooke 2012).

As arguably the first study that examines the IMF's recent stance towards austerity in the context of its surveillance activities in the Eurozone, this paper asks: how did the IMF assess austerity programs during the European debt crisis? We adopt a public policy perspective and assume that Sabatier and Mazmanian's (1980) seminal framework of the implementation process helps us understand IMF evaluations (e.g., Exadaktylos & Zahariadis 2014). Employing fuzzy-set Qualitative Comparative Analysis (fsQCA) (Ragin 2008), we assess how different constellations of the interplay of problem tractability, the ability of the austerity program to structure implementation, and non-statutory variables affected the IMF's evaluation of 20 austerity programs implemented in 14 countries of the Eurozone or the European Union (EU) during the recent debt crisis.

This paper contributes to the debate on IMF evaluations in three ways. First, it analyzes developed European countries. Earlier work has focused on low- and middle-income transition and developing countries and emphasized the IMF's responsiveness to geopolitical and transnational business interest (Aldenhoff 2007; Dreher et. al. 2008; Fratzscher & Reynaud 2011; Pop-Eleches 2009; Thacker 1990). This perspective has largely neglected the “domestic variables that influence whether or not a government adopts an IO's policy preferences” (Broome & Seabrooke 2012: 2). Indeed, findings on the IMF's loan negotiations and lending decisions (Broome 2010; Chwioroth 2013; Stone 2002; Woods 2006) suggest that particularly in the institutionally and politically more stable context of the Eurozone, domestic variables should affect how the IMF evaluates austerity programs (Heller 2002). Second, contrary to these previous studies, we focus on IMF evaluations within the context of formal assessments of austerity programs which provide information signals about sovereign risk to capital markets. Finally, our analysis focuses on recently issued austerity programs. Since 2008, the IMF began

to reconsider its understanding of a “sound fiscal policy” and its stance towards austerity and stimulus measures. It increasingly recommended a more gradual implementation of austerity measures for countries with sufficient confidence on financial markets (Blanchard & Leigh 2013) and a more balanced mix of expenditure reduction and revenue increases (Ban 2015). Given this altered stance towards austerity, the assumption that the IMF acts as a fierce and undifferentiated agent of austerity made in much work on the European debt crisis may prove to be too narrow. Clearly, a more differentiated stance towards austerity by the IMF asks for an in-depth examination of the factors that influence that stance.

In fact, our results show that the IMF is not an undifferentiated agent of austerity, but considers domestic conditions. IMF evaluations prove to be heavily influenced by implementation credibility. First, for rather uncompetitive countries with lower institutional capacity and ambitious austerity programs, it is almost impossible to take the road to fiscal adjustment without being involved in an IMF rescue program. Second, the IMF negatively evaluates economically stronger countries whose adjustment policies do not conform to the IMF’s preference of expenditure reduction over revenue measures. These findings suggest that the IMF acts as a strict guide on the road to fiscal adjustment, indirectly influencing member states’ scope of policymaking through its surveillance activities.

Next, we discuss the IMF’s evaluations of austerity programs and outline our explanatory model. We then proceed to the research design and methods employed. After presenting the results, we go on to discuss the main findings and their implications.

## **The Politics of External Approval**

The IMF has recently begun to gradually shift its primary focus from lending to surveillance activities. Accordingly, scholars seek to understand how surveillance works and what implications it has for member countries. Particular focus has been placed on the forecasts of

fiscal and macroeconomic variables of member countries which are published on a regular basis.

Although IMF forecasts are known to be based on a strong scientific culture (Ban & Gallagher 2015), the IMF publishes only vague information on these procedures and schematically describes the preceding consultation processes (Asdorian 2015; IMF 2015b, c): “the initial projections are based on an econometric model. Subsequently, however, there is much leeway for [...] discretionary adjustments” (Dreher et al. 2008: 146). IMF evaluations contain a substantive qualitative element resulting from the considerable subjectivity of the respective country teams (IMF 2015b, c). While earlier research scrutinized the accuracy of forecasts (Pons 2000; Timmermann 2007), few scholars have recently analyzed their determinants (Aldenhoff 2007; Dreher et al. 2008; Fratzscher & Reynaud 2011). These studies have found a low explanatory power of political strategies and macroeconomic variables, while quite unambiguously suggesting that the IMF both legitimizes its lending activities with overly optimistic forecasts, and favors countries that are political allies of the United States of America (US) (Aldenhoff 2007; Dreher et al. 2008). In emerging market economies, the countries’ political power has also proven relevant (Fratzscher & Reynaud 2011).

We argue that in the context of the contemporary Eurozone, domestic variables that influence a country’s implementation credibility matter for IMF austerity program evaluations. While the geopolitical and strategic interests of the IMF’s principals set the broader boundaries for IMF-decision-making (Stone 2002; Thacker 1990), within these boundaries, the IMF has acquired considerable maneuvering space (Chwieroth 2013; Pop-Eleches 2009; Woods 2006). Whereas IMF evaluations may tend to treat systemic economic entities like the Eurozone prominently, this factor alone cannot explain the considerable variation in IMF austerity program evaluations *within* the Eurozone. Geopolitical arguments also cannot be the main difference-maker in the European context: the IMF has negatively rated the austerity programs of powerful US-friendly

countries like Germany and the United Kingdom. Finally, the IMF has expressed its intention to strengthen the traction of surveillance by ensuring its quality, candor, and evenhandedness (IMF 2011: 19; 2014), which enhances the relevance of domestic variables.

When a country announces an austerity program, this can be interpreted as a signal of its willingness for fiscal adjustment. IMF publications clearly indicate that the IMF does not take these signals at face value, but subjects them to a “reality-check” to verify them for their implementation credibility (Heller 2002). Our aim is to evaluate the IMF’s response to the announcement of an austerity program, specifically, whether the IMF deems the program capable of meeting its objective. The IMF regularly publishes forecasts for estimated budget balances in its *Fiscal Monitor (FM)* (Ban & Gallagher 2015; IMF 2015a, b). The outcome we seek to explain is the IMF’s evaluation of an austerity program’s likely success in balancing the budget as intended, hereinafter referred to as “positive evaluation” (POS). To capture this, we compare the fiscal balance targeted by the austerity program, on the one hand, with the fiscal balance (general government structural balance) projection after the announcement of an austerity program, on the other.<sup>1</sup>

-- insert Figure 1 here --

As Figure 1 illustrates, the IMF’s forecasts of changes in the countries’ fiscal balance after

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<sup>1</sup> To ensure that announced austerity programs were actually incorporated in the projections, we chose a time span of approximately 4-6 weeks between announcement and data publication by the IMF. In case of doubt, we opted for the later Fiscal Monitor update.

implementation vary considerably between different austerity programs. If the IMF forecasts that the program is likely to miss the target, then the evaluation is more negative than positive. For instance, by the end of 2010, Ireland announced its intention to meet the EU deficit criteria of -3% of GDP until 2014. However, considering the planned austerity measures, the IMF projected the deficit to be at -4.8%. Hence, the IMF expected Ireland to miss its target by 1.8 percentage points. If the IMF projects that the program will not miss its intended target (score of 0 or more), then the program is more positively than negatively evaluated. The Slovak Republic, for instance, announced an austerity program in May 2012, with the aim of bringing its budget deficit down to 3% by 2013. In response, the IMF expected the program to exceed its goal by +0.1 percentage points and projected the deficit to be 2.9% after implementation. The observed evaluations range from +1.4 to -3.7. It is these differences that we now scrutinize.

### **On what grounds can the IMF reasonably assess?**

When announcing austerity programs, countries must, as a minimum, define the total amount of savings, the expected duration, and cost saving efforts in order to obtain funds and reasonable credit terms. However, most austerity programs under scrutiny outlined these parameters too vaguely to ensure their successful implementation. The IMF was therefore well-advised to treat these indications as a mere declaration of intent, whose implementation credibility required verification. Sabatier and Mazmanian's (1980) framework captures the way austerity measures as centrally designed top-level policy decisions, often imposed under external pressure, are implemented particularly well (e.g., Exadaktylos & Zahariadis 2014). We adapt that framework to the specific research context by integrating explanatory factors mentioned more or less explicitly by the IMF. Sabatier and Mazmanian (1980) understand the implementation of public policies to be the result of the interplay between three main sets of factor. First, the tractability of the problem at hand is captured here as program ambitiousness and the presence of an IMF

rescue program. Second, the ability of the statute to structure implementation is influenced by the number of veto players and the effectiveness of the national administration. Third, we consider the presence of a strong Centre-Right government and a country's economic competitiveness as non-statutory variables affecting implementation.

Sabatier and Mazmanian's (1980: 554) model should be understood as a "minimum list of crucial conditions", rather than as individual factors which work in isolation. We want to discover case-specific *configurations* that explain how the IMF evaluates austerity programs. Surprising results then provide opportunities for further explorations to refine theory (Rihoux & Ragin 2009). While adopting an explorative focus, we seek to identify theoretically plausible counterfactual arguments when dealing with limited diversity (that not all logically possible combinations of relevant causal conditions exist in the real world). To this end, we formulate directional expectations on the effects of single variables. These expectations serve as counterfactual arguments and are not testable hypotheses (Schneider & Wagemann 2012: 295ff).

### **Problem tractability**

First, the greater the amount of behavioral change required, the more problematic a program's successful implementation becomes (Sabatier & Mazmanian, 1980: 544). The *ambitiousness of the adopted program* (AMB) sets the size of the envisaged deficit reduction in relation to the time countries had at their disposal to achieve the deficit reduction. Programs are ambitious if the country envisaged a large budget reduction within a brief period of time. This might indicate low implementation credibility to the IMF: ambitious programs could be mere "paper tigers" that promise an unrealistically severe and swift fiscal change. Conversely, the IMF might also value high ambitiousness as the appropriate austerity measure, indicating that a country takes its austerity plans seriously. Since program ambitiousness could indicate both high and low

success prospects, no directional expectation is formulated.

Second, two reasons make us assume that the IMF rates austerity programs more positively in countries where it *is engaged with a rescue program* (PRG) (IMF 2015b). First, there is strong evidence that the IMF engages in “defensive forecasting”: a negative evaluation would weaken the credibility of the IMF program. Positive evaluations can also increase the probability that those loans are repaid (Aldenhoff 2007; Dreher et al. 2008). Second, the presence of an IMF program signals a country's willingness and ability to undertake substantive reform (Fratzscher & Reynaud 2011: 407). Countries with IMF arrangements in place have already undergone a ‘screening’ process that allows the IMF to better estimate the country’s ability to fulfill its policy commitments (Chwieroth 2013). Less uncertainty could positively affect IMF evaluations. Moreover, loan disbursements during an IMF program are conditional on demonstrable policy actions, which provides the IMF with opportunities to directly influence, monitor and enforce policy design and compliance (Armingeon & Guthmann 2014; Broome 2015; IMF 2015d).

### **Ability of the statute to structure implementation**

Third, implementation success is determined by the number of veto/clearance points involved in the attainment of statutory objectives (Sabatier & Mazmanian 1980: 546). Austerity programs can entail severe and abrupt cuts affecting a wide range of players and giving rise to opposition. Central governments must make sure that “budgetary discipline is imposed on all fiscal entities” (Heller 2002: 18). A decentralized political system features a larger number of sub-national veto players whose opposition to painful austerity measures could potentially undermine the “flexible and responsive execution of the budget” (Huber, Ragin & Stephens 1993; IMF 1995: 34; Tsebelis 1995). Thus, a *high number of veto players in a country* (DC) should negatively affect the IMF’s evaluation of implementation credibility.

Fourth, sufficient financial and personnel administrative resources are “necessary to hire the staff and to conduct the technical analyses involved in the development of regulations, the administration of permit programs, and the monitoring of compliance” (Sabatier & Mazmanian 1980: 545). Established administrative capacities, e.g., a strong treasury, improve the efficient, thorough and successful implementation of austerity programs (Heller 2002: 17; IMF 1995). The *existence of an effective administration* (EFF) should thus positively affect the IMF’s evaluation of the austerity program.

### **Non-statutory variables**

Fifth, Sabatier and Mazmanian (1980: 574) highlight that “[a]ny new program requires implementors who are not merely neutral but sufficiently persistent to develop new regulations and standard operating procedures, and to enforce them in the face of resistance from target groups”. IMF evaluations entail a continuous “policy dialogue” between fund staff and national authorities (Lombardi & Woods 2008). Much of the existing literature has focused on the commitment of individual ‘sympathetic interlocutors’, i.e. “national policymakers who are sympathetic to advice from the IMF” (Broome & Seabrooke 2015: 6; Chwioroth 2015). We measure the political commitment of the whole government through partisan affiliation for three reasons. First, in developed countries, the IMF pays more attention to broader political support than to the presence of individual interlocutors (Woods 2006). Second, in situations like the European debt crisis marked by a very contentious economic problem and alternative ideology-based interpretations and solutions, partisanship influences the IMF’s decision-making (Pop-Eleches 2009). Third, in a European context key actors are not only socialized by the universities they attend, but also by their political parties. Due to their political commitment to a less comprehensive welfare state policy, conservative Centre-Right governments typically support and implement austerity measures to a stronger degree than Centre-Left and Christian-

Democratic governments (Hibbs 1977). The former usually face less blame when cutting social policy (Giger & Nelson 2010). Accordingly, the *presence of a strong Centre-Right government* (CR) should positively affect the IMF’s evaluation of implementation credibility.<sup>2</sup>

Sixth, as Bird (2007: 683) points out, “in order to understand the IMF’s operations, economics has to be combined with politics”. A relevant socio-economic condition is the competitiveness of the economy. Economic competitiveness describes the basic conditions for growth, innovation, and efficiency that determine how productively a country uses its available resources to provide future economic prosperity. Economically competitive states are more likely able to escape the debt spiral by generating economic growth and reducing both their debt burden and future pressure for savings. This, in turn, creates budgetary scope and increases the likelihood that budgetary targets are met (IMF 2015a). Thus, the countries’ *high economic competitiveness* (COM) should positively influence the IMF’s evaluation of success likelihood.

Table 1 summarizes the six conditions and the directional expectations used for counterfactual arguments. Adopting QCA notation, the presence of a factor is indicated with uppercase letters, and its absence with lowercase letters.

-- insert Table 1 here --

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<sup>2</sup> We account for the “policy dialogue” influencing the IMF’s assessment of political commitment during our case discussions below. During regular Article IV meetings, the IMF tries to grasp the political commitment of country officials for announced fiscal policies (Lombardi & Woods 2008).

## **Data and methods**

We assess 20 austerity programs introduced in 14 countries within the Eurozone or the EU since the crisis began between January 2009 and May 2012.<sup>3</sup> This design holds important economic contextual factors constant: the countries share an internal market and have been undergoing a process of fiscal-political harmonization since the crisis began. Since they have the same currency, or their national currency is tied with the Euro, they cannot avoid consolidation measures by devaluing their currency without restriction.<sup>4</sup> This enhances the importance of austerity programs.

We employ Fuzzy Set Qualitative Comparative Analysis (fsQCA) (Ragin 2008; Rihoux & Ragin 2009; Schneider & Wagemann 2012) to identify necessary and/or sufficient conditions for a positive or negative evaluation by the IMF (software: QCA R package). The underlying assumption of causal complexity has three elements. *Equifinality* means that various scenarios can induce the same IMF evaluation. *Conjunctural causation* indicates that case-specific factors affect IMF evaluation in combination rather than in isolation (Sabatier and Mazmanian 1980). Lastly, *asymmetrical causation* means that different causal factors may matter for a positive IMF evaluation than for a negative IMF evaluation. Case knowledge enables us to identify potential measurement errors (Schneider & Wagemann 2012: 89, 295-305, 307-312).

fsQCA conceives of variables as sets in which cases have membership or not. The attribution of cases to sets is called calibration. Qualitative anchors determine the stage at which the

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<sup>3</sup> In the absence of any official document listing austerity programs passed in the EU, cases were identified using Internet-based research. National and international news services were consulted to verify that the announced austerity program had actually been adopted.

<sup>4</sup> This includes the UK or Denmark, who cannot avoid internal devaluation at the expense of currency devaluation.

condition is deemed fully present (fuzzy value  $\geq 0.95$ ), fully absent (fuzzy value  $\leq 0.05$ ) and an indifference point at 0.5. The latter establishes the difference in kind: for example, fuzzy membership values in POS above 0.5 means that IMF evaluation was rather or fully positive (POS), while values below 0.5 indicate that the evaluation was rather or fully negative (pos).

fsQCA uses the logical operators OR (+) and AND (\*). The latter depicts combinations of conditions, referred to hereinafter as configurations or paths. A “truth table” shows all possible combinations of conditions. If all or enough cases’ fuzzy set membership in a truth table row is smaller than or equal to its membership in the outcome, then the row is identified as a sufficient path for the outcome. The logical minimization process identifies the shortest expression for those factors that imply ( $\rightarrow$ ) the outcome – the solution term.

fsQCA results are evaluated using two main parameters of fit that range from 0-1. The appropriate levels for these parameters are research-specific but are better the closer they are to 1 (Schneider & Wagemann 2012: 128). *Consistency* indicates the extent to which the results are in line with the statements of necessity or sufficiency, which is weakened by “deviant cases consistency in kind” with qualitatively different membership in the explanation and the outcome (Schneider & Rohlfing 2013). The proportional reduction in inconsistency (PRI) indicates the degree to which a configuration is not simultaneously sufficient for both outcomes. Consistency should not be below 0.75 for sufficient conditions, and 0.9 for necessary conditions (Ragin 2008: 46). The presence of “gaps” and deviant cases consistency in kind helped us determine raw consistency thresholds for single truth table rows. *Coverage* then states how well the available empirical information is explained by the condition(s). For sufficient conditions, raw coverage indicates how much a single path covers, while unique coverage indicates how much it uniquely covers. For necessary conditions, coverage expresses their relevance in terms of not being much larger than the outcome, and the Relevance of Necessity (RoN), in terms of the condition being close to a constant (Schneider & Wagemann 2012: 128, 139, 235-239).

Applying the Enhanced Standard Analysis (ESA) procedure, we make theoretically informed directional expectations about empirically unobserved configurations (Table 1) and ensure that the coding of the outcome in the truth table does not contradict prior findings of necessity or sufficiency (Schneider & Wagemann 2012: 198-211). The datasets, descriptive statistics, the truth tables, directional expectations, conservative and parsimonious solution terms, simplifying assumptions and r codes for replication are all indicated in the online appendix.

## **Operationalization and calibration**

We now turn to the measurement and calibration of the condition and outcome sets, using the current values at the time of the announcement of the austerity program (Table 2). The calibration decisions are outlined in detail together with extensive robustness tests in online appendix B (Skaaning 2011).

*Highly ambitious program (AMB).* Austerity programs are ambitious if they need to achieve a large deficit reduction within too little time to be realistically implemented. To measure ambitiousness, we divide the planned deficit reduction in per cent of GDP by the duration of the austerity program in months. For instance, while Portugal's first austerity program sought to bring the deficit down from -7.3% to -4.6% of GDP almost within a year, the Czech program aimed at reducing the deficit from -3.5% to 0% within four years. The resulting scale has a sample range from 0.6 (very high ambitiousness) to 0.01 (very low ambitiousness).

*Existence of an IMF program (PRG).* Austerity programs in countries with an IMF program in place at the time of the announcement are coded with 1, all others, with 0 (dichotomous set).

*Strongly decentralized political system (DC).* In decentralized political systems, sub-national jurisdictions have significant decision-making power concerning policy design and implementation and can make significant changes (e.g., in the timetable and broad parameters). By contrast, in centralized systems, sub-national units cannot significantly influence the design

and implementation of austerity measures, which results only in minor to austerity policies adjustments (e.g., local delays). The aggregated decentralization index developed by the Assembly of European Regions views decentralization as the sum of decision-making power and competencies of sub-national jurisdictions in various areas (scale from 0 to 100) (AER 2009).

*Effective state administration (EFF)*. An effective state administration possesses the means and expertise to implement austerity measures thoroughly, on time and successfully. This is not the case if it lacks important resources and expertise necessary to translate austerity requirements into concrete policies and enforce their implementation. The Governance Indicator developed by Kaufmann, Kraay and Mastruzzi (2011) combines the quality of the public service, the political independence of the administration, the quality of policy formulation and implementation and other administration-related aspects into an index for government effectiveness that ranges from -2.5 to +2.5. Higher values correspond to greater government effectiveness.

*Strong Centre-Right government (CR)*. If the share of government-posts held by Centre-Right candidates is sufficiently large, Centre-Right candidates' can exert a dominant influence on policymaking and implementation. We use the percentage share of (ministerial) posts held by Centre-Right parties in the government from the Comparative Political Data Set III 1990-2010 of Armingeon et al. (2012) for operationalization.

*High economic competitiveness (COM)*. A high degree of competitiveness facilitates sound future growth and economic prosperity, as increased tax revenue creates budgetary leeway and alleviates the need for austerity in subsequent years. Conversely, low economic competitiveness heralds poor growth prospects and significantly limits the future budgetary scope. The Global Competitiveness Index of the World Economic Forum aggregates data on basic conditions for growth, efficiency-boosting factors and innovation-boosting factors on a numerical scale which

can range from 2.7 to 5.8.

-- insert Table 2 here --

## **Results**

Results reveal two necessary conditions for a positive evaluation by the IMF (for full results see Table A4 and Figure A1 online appendix). First, the IMF requires a country to possess the institutional capacity to structure the implementation of austerity measures in order to consider the latter feasible: whenever the IMF gave an austerity program a positive evaluation, either the political system tended to be centralized, or the state administration was effective (dc + EFF).

A second prerequisite for the IMF to evaluate an austerity program positively is a tractable problem: either the austerity program has to be non-ambitious, or an ongoing IMF program is in place (amb + PRG). The existence of an IMF program might actually influence the program's perceived ambitiousness: it reduces information asymmetries and enables the IMF to enforce maximum compliance instead of having to rely on persuasion (Fang & Stone 2012; IMF 2015b).

Table 3 presents the three paths that imply that the IMF grades austerity programs well. The single cases that are explained by this solution, the consistency and coverage indicators for the single paths and the overall solution are listed below. Cases can display several paths. We discuss typical cases for each path below.

-- insert Table 3 here --

It is striking that a comparatively centralized political system is a necessary part of the story for

a positive evaluation. Paths 1 and 2 describe the “struggling, but manageable students”: austerity programs passed in countries with ineffective state administrations (eff), but which are comparatively centralized (dc) and with a direct involvement of the IMF (PRG). In the first path, this combined with low program ambitiousness (amb), and in path 2, with a strong Centre-Right government (CR). In line with the “defensive forecasting” assertion, these cases are Greece and Portugal, where the IMF provided financial support and was directly involved in the implementation of agreed austerity measures. The IMF seems to be confident that its engagement in a country can bolster a weak state administration under favorable conditions marked by fewer veto points, reasonable consolidation targets, or a Centre-Right government that supports the austerity program. Whether this is due to the IMF’s closer grip on implementation, the improved availability of information, or a combination of these, could be addressed in future research by interviewing IMF officials about their motives.

Another group of positively evaluated austerity programs entailed “model pupils” with comparatively unambitious programs (amb) adopted in economically competitive (COM), centralized countries (dc) with a strong Centre-Right government (CR) and an effective administration (EFF). These ideal conditions for the successful implementation of austerity measures were present in Denmark and Finland. For instance, Finland devised a program which was aimed merely at “keeping the balance”. Since there was never any need to reestablish Finland’s standing on capital markets, the existence of an IMF program was irrelevant for the IMF’s evaluation.

Figure 2 illustrates how the cases score on this solution. Despite the low coverage, we are able to explain six out of nine cases of positive evaluation. France is a deviant case, as we will discuss below.

-- insert Figure 2 here --

Another four paths imply that the IMF evaluated austerity programs negatively (Table 4). Three factors have a particular salience when the IMF rates austerity programs negatively: first, the programs should not be overly ambitious; second, low economic competitiveness is often a hurdle; and third, the IMF is obviously skeptical when it is not engaged in a country.

-- insert Table 4 here --

Both paths 1 and 2 suggest that in the absence of direct IMF involvement, the IMF considers ambitious programs to be “likely deceivers”. Examples for path 1 are the two austerity programs passed in quick succession in Italy under the Berlusconi government and under the Monti government, which entailed severe cuts to be implemented swiftly (AMB), but facing significant veto power in a decentralized country (DC) without IMF involvement (prg). Low problem tractability, Italy’s low ability to structure implementation, and the IMF’s low control over the latter lent little credibility to these austerity programs. As an instance for path 2, in May 2010, Spain announced that it wanted to reduce its deficit by 3.3 percentage points in no more than 19 months (AMB). The highly ambitious program did not convince the IMF: the IMF had no direct control or information (prg), political support by the Leftist government under Zapatero was weak (cr), and Spain was comparatively uncompetitive economically (com).

The third pathway to a negative evaluation of implementation credibility entails “hopeless cases” like the Czech Republic’s 2012 austerity program with a particularly unfavorable configuration of conditions, namely: strong decentralization (DC), low effectiveness of state administration (eff), low economic competitiveness (com), and no IMF involvement (prg). Understandably, the IMF deems the successful implementation of such programs unlikely,

irrespective of how ambitious they are.

The fourth path covers the Irish austerity program as a special, “overly ambitious” case: it envisaged a deficit reduction of no less than 28.9 percentage points in 48 months. The IMF projected that the program would miss its target by “only” -1.8 points. The presence of a rather effective state administration (EFF) combined with low economic competitiveness (com), but the program’s exceptionally high ambitiousness was probably decisive for the IMF. Indeed, the evaluation could be seen as rather positive. The solution has a high explanatory power, covering 8 out of 11 negative evaluations (Figure 3).

-- insert Figure 3 here --

Our proposed framework had a limited capacity to explain the evaluation of austerity programs in Western European countries like Austria, Belgium, France and Germany, but also Slovakia. Figure 1 has already revealed that, given the wide range of IMF evaluations, regional provenience cannot itself be the missing explanation. Based on the IMF country reports, we now discuss such “outlier” cases (Rihoux & Ragin 2009; Schneider & Rohlfiing 2013) (see Table A9 online appendix).

Austria’s two austerity programs represent the “least explained cases” for negative and positive evaluation. As they display an identical country context and the same configuration of explanatory factors, we can identify the decisive additional factor through a controlled comparison. Austria announced its first austerity program, which aimed at reducing the deficit by 2 % within 47 months, in January 2010. The IMF criticized Austria for over-emphasizing revenue measures in its plan for fiscal consolidation, and projected that it would miss the target by -0.9%, due to negative effects on growth and sustainability. The second Austrian austerity program was launched in February 2012 to lower the deficit by 0.6 % within 58 months. The

IMF projected that this program would exceed its target by 1.4 %: Austria had proven responsive to the IMF's calls to shift the focus of fiscal policy to the reduction of expenditures, now striking an appropriate balance between fiscal discipline and the cyclical needs of the economy.

This comparison suggests that the IMF evaluates countries more positively if they emphasize expenditure reduction for achieving fiscal balance, especially during the initial stages of adjustment (Broome 2015; IMF 1995: 26). Indeed, the IMF also reacted to the other unexplained negatively rated programs with calls for more expenditure containment (France 2012, Germany 2010). Conversely, the other positively rated deviant cases (Belgium 2012, Slovak Republic 2012) were explicitly lauded by the IMF for their focus on expenditure containment.

The French austerity program, announced in August 2011, was rated negatively, despite the fact that France is a “model pupil”. The IMF predicted a slight miss of -0.3 per cent (targeted reduction: 1.4 per cent in 16 months). The Danish 2010 program and the Finnish 2012 program belonged to the same group of “model pupils” and received a positive evaluation. Here, the crux of the matter was tax policy. The IMF staff pointed out that the very high French tax burden would keep increasing relative to France's peers. Conversely, the IMF welcomed the tax freeze implemented in Denmark and lauded the Finnish taxation measures as steps in the right direction.

These comparisons suggest that, particularly in the context of Western European countries, the IMF considers not only implementation credibility, but also the austerity programs' content – specifically, their relative emphasis on revenue measures or expenditure reduction. As austerity programs often outline this content in broad terms only, the IMF appears also to take past experience into account (Heller 2002).

## **Conclusions**

This paper investigated the grounds on which the IMF assessed the prospects for success of austerity programs during the European debt crisis. The methodological approach we adopted differs from the conventional toolbox of IMF studies, as it focuses on interrelated and substitutable, rather than isolated net effects on IMF surveillance. This in turn paves the way for an analysis of the causal mechanisms through which IOs influence their member states. Simultaneously, our less-than-intermediate-N fuzzy set analysis entails relatively high amounts of limited diversity and precludes highly generalizable results, or statements about the size of the causal effects. Extensive robustness tests and case knowledge helped us control for measurement error (Skaaning 2011).

Despite these limitations, using Sabatier and Mazmanian's (1980) seminal framework, our study is the first to show that the austerity programs' domestic implementation credibility heavily influences IMF surveillance (Broome & Seabrooke 2012). First, the IMF requires a minimum of *institutional capacity to structure implementation* to give an austerity program a positive evaluation. Second, the *problem has to have a minimum level of tractability*, either because the program is not very ambitious, or because an IMF rescue program is in place. Indeed, third, the *IMF's engagement in a country* appears to be crucial. The IMF took a more skeptical stance when it was not directly involved, particularly if austerity programs were overly ambitious and/or the unfavorable implementation context made failure likely. Finally, the IMF favored *expenditure reduction over revenue measures*. These findings cohere with the relevance of domestic conditions for IMF-decision-making within the context of conditionality (Broome 2010; Chwioroth 2013; Stone 2002; Woods 2006).

This paper has departed from much research on IMF-decision-making by examining the specific context of IMF surveillance in developed European countries. One of our main motivations was that insights on IMF-decision-making in one context may not be readily

transferable to another context (Sager & Andereggen 2012; Thomann & Manatschal 2015). We focused on comparable cases which share an internal market, where the absence of the option of devaluing the currency enhances the importance of austerity programs. In many developing countries, where economic policy is more centralized and less transparent than in the European context, the IMF usually gets a closer grip on key actors and agencies responsible for implementation (Woods 2006: 82). Accordingly, individual ‘sympathetic interlocutors’ should be given more attention by the IMF when dealing with developing countries (Broome & Seabrooke 2015; Chwieroth 2015; Woods 2006). Moreover, considering complementarities between budget policy and institutional configurations in different varieties of capitalism may be a promising avenue for future research (Amable & Azizi 2014; Hall & Soskice 2001).

Within the scope of our sample, our results suggest that the IMF is a strict guide on the road to fiscal adjustment. Particularly in cases where austerity requirements are substantial and must be implemented swiftly, the IMF tends not to give positive evaluations if the country is not involved in an IMF program. While these patterns are compatible with the “defensive forecasting” argument (Aldenhoff 2007; Dreher et al. 2008; Fratscher & Reynaud 2011), our overall results suggest that this is as much about implementation credibility and, ultimately, about exerting influence as it is about legitimizing lending activities. First, when the IMF’s policy advice is backed up with financial incentives for domestic compliance through loan programs, it is harder for national authorities to reject the IMF’s reform recommendations (Broome 2015: 149). Second, the IMF possesses more information on and control over whether a government is serious about enacting “IMF friendly” policy reforms (Broome & Seabrooke 2012: 2).

To date, the literature has examined IMF influence predominantly within the context of lending activities (Bird 2007; Barnett & Finnemore 2004; Dreher & Gassebner 2012; Steinwand & Stone 2008; Stone 2002, 2004). However, our study illustrates that evaluations are a relatively

obvious way for the IMF to effectively exert indirect influence on member states via its surveillance activities. First, for rather uncompetitive countries with lower institutional capacity, it is almost impossible to take the road to fiscal adjustment without the IMF. By tendency, countries that need to restore their standing on international capital markets can do so only under the IMF's direct supervision. If countries reject this help, they pay for their independence from the IMF with higher country-risk perceptions on capital markets. A higher risk perception on capital markets heralds rising refinancing costs, which, in turn, implies diminished scope for independent policymaking (Ban & Gallagher 2015). Hence, weak countries in need of fiscal consolidation pay the price in terms of sovereignty not only after they receive funding from the IMF, but already through the IMF's evaluation of their fiscal position. Second, regardless of any existing IMF program, the IMF also uses its evaluations to impose its preferred policy options upon economically less vulnerable countries. This calls for further research examining the realm of indirect influence that exists between the IMF and its member countries.

## **Supporting Information**

Additional Supporting Information may be found in the online version of the published article at the publisher's web-site:

**Appendix A: Supplementary tables and figures**

**Appendix B: Calibration and robustness test**

**Appendix C: R code for replication**

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## Tables and Figures

Table 1: Conditions and directional expectations

<i>Condition</i>	<i>Ceteris paribus, condition produces positive evaluation (POS) when...</i>	<i>Ceteris paribus, condition produces negative evaluation (pos) when...</i>
<b>Problem tractability</b>		
Highly ambitious program		
AMB	no expectation	no expectation
Existence of an IMF program		
PRG	present	absent
<b>Ability of the statute to structure implementation</b>		
Highly decentralized political system		
DC	Absent	present
Effective state administration		
EFF	Present	absent
<b>Non-statutory variables</b>		
Strong Centre-Right government		
CR	Present	absent
High economic competitiveness		
COM	Present	absent

*Note:* directional expectations denote counterfactual arguments rather than empirically testable hypotheses (Schneider & Wagemann 2012: 168-177)

Table 2: Measurement and calibration

		<i>Calibration (set membership)</i>			
		<i>Fully out</i>	<i>Neither in nor out</i>	<i>Fully in</i>	
<i>Set</i>	<i>Measurement</i>	<i>0.05</i>	<i>0.5</i>	<i>0.95</i>	
<i>Outcome</i>	Positive evaluation of cost-saving measures by IMF (POS)	Difference between budget deficit reduction targeted by austerity program and budget deficit reduction forecast by IMF (Fiscal Monitor)	-2.4	-0.15	1.4
<i>Problem tractability</i>	Highly ambitious program (AMB)	Required reduction in fiscal balance in per cent, divided by duration of program in months	0.01	0.1205	0.20
	Existence of an IMF program (PRG)	Dichotomous variable	0	--	1
<i>Ability to structure implementation</i>	Highly decentralized political system (DC)	AER Decentralization Index (2009)	33.5	47	55
	Effective state administration (EFF)	Government Effectiveness partial index of the Governance Indicator of Kaufmann et al. (2011)	0.7	1.175	2.065
<i>Non-statutory variables</i>	Strong Centre-Right government (CR)	Percentage share of Centre-Right parties in government (Comparative Political Data Set III 1990-2010 by Armingeon et al. (2012))	5	52	95
	High economic competitiveness (COM)	WEF Global Competitiveness Index	4.28	4.86	5.285

Table 3: Sufficient conditions for positive evaluation

<i>Intermediate solution</i>	<b>amb*PRG*dc*eff</b> + <b>PRG*dc*eff*CR</b> + <b>amb*dc*EFF*CR*COM</b> → POS		
<i>Single case coverage</i>	GRC3; GRC2,PRT2	GRC2,PRT2; GRC1	DNK,FIN, <i>FRA</i>
<i>Consistency Raw</i>	0.908	0.796	0.848
<i>coverage</i>	0.228	0.269	0.247
<i>Unique coverage</i>	0.050	0.092	0.243
<i>Solution consistency 0.831; Solution coverage 0.563</i>			

**Bold:** parsimonious solution (enhanced causal interpretability).

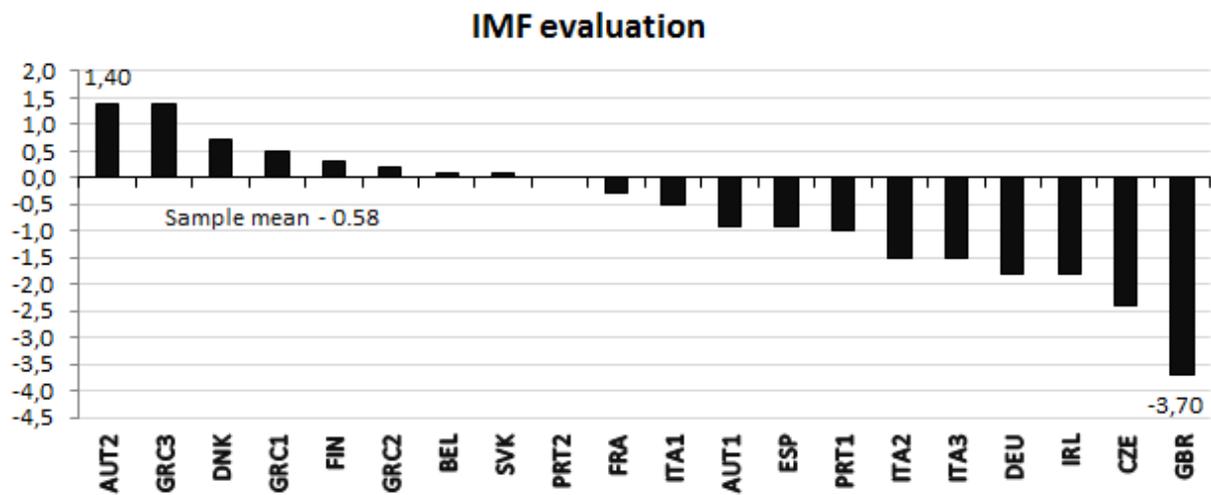
*Italics:* deviant case consistency in kind.

Table 4: Sufficient conditions for negative evaluation

<i>Intermediate solution</i>	<b>AMB*prg*DC + AMB*prg*cr*com + prg*DC*eff*com + AMB*EFF*com → pos</b>			
<i>Single case coverage</i>	ITA2,ITA3; GBR;ESP	PRT1;ESP	ESP;CZE; ITA1	IRL
<i>Consistency Raw coverage</i>	0.969	1.000	0.946	1.000
<i>Unique coverage</i>	0.421	0.212	0.404	0.212
	0.099	0.084	0.084	0.084
<i>Solution consistency 0.931; Solution coverage 0.643</i>				

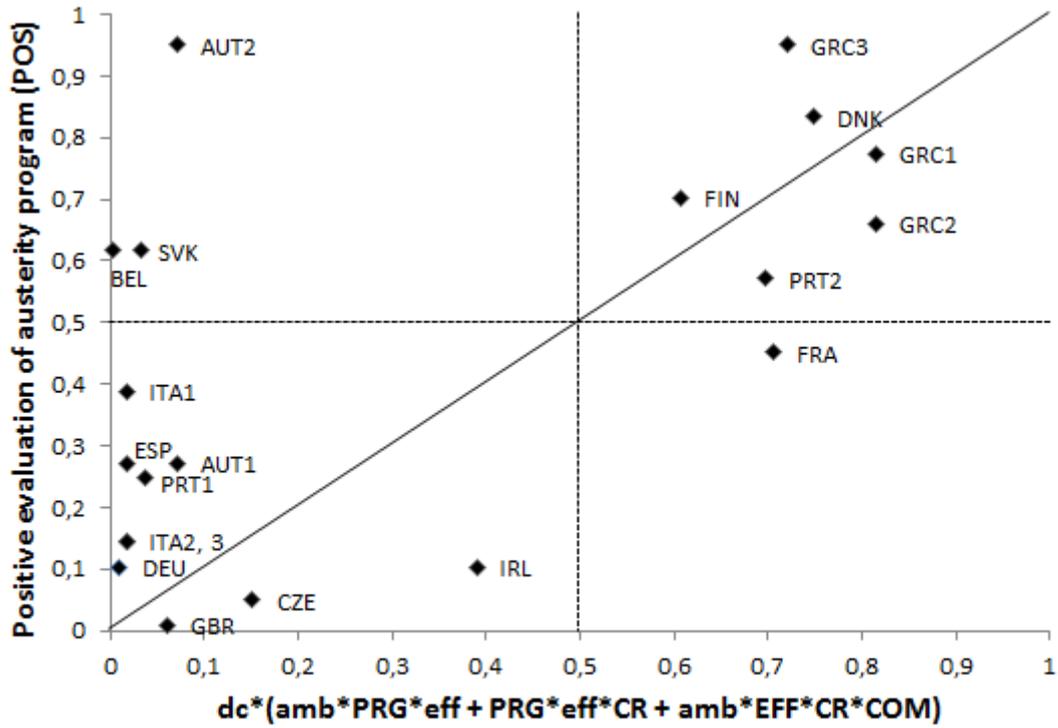
**Bold:** parsimonious solution (enhanced causal interpretability).

Figure 1: IMF evaluations of austerity programs, January 2009 - May 2012



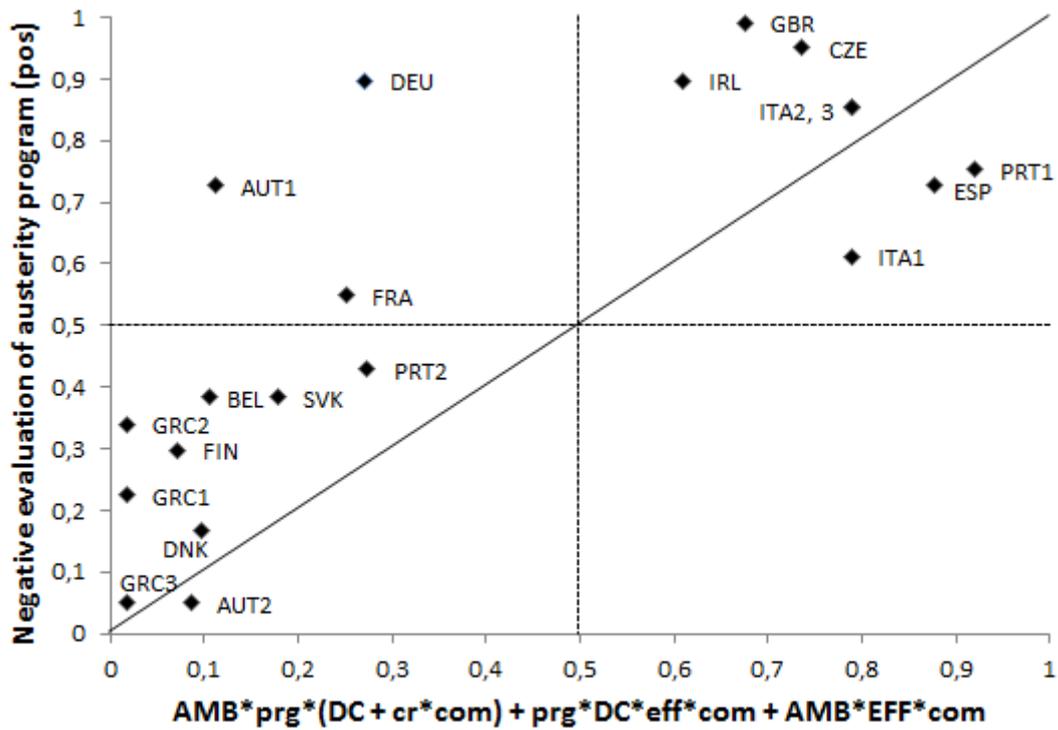
Key: AUT = Austria, BEL = Belgium, CZE = Czech Republic, DEU = Germany, DNK = Denmark, ESP = Spain, FIN = Finland, FRA = France, GBR = United Kingdom, GRC = Greece, IRL = Ireland, ITA = Italy, PRT = Portugal, SVK = Slovak Republic.

Figure 2: Intermediate solution for positive evaluation



Cases situated above the diagonal are consistent. In the upper left quadrant are deviant cases for coverage, in the lower right quadrant are deviant cases consistency in kind. The lower left quadrant is irrelevant (Schneider & Rohlfing 2013).

Figure 3: Intermediate solution for negative evaluation



Cases situated above the diagonal are consistent. In the upper left quadrant are deviant cases for coverage, in the lower right quadrant are deviant cases consistency in kind. The lower left quadrant is irrelevant (Schneider & Rohlfing 2013).