

# **Bureaucracy, Politics and Corruption**

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## **Abstract**

Most comparative studies on corruption are geared towards the analysis of factors dealing with the selection and the incentives of those (small number of) individuals taking policy decisions in a state. With few exceptions, such as Rauch & Evans (2000), the selection and incentives of those (thousands of) individuals within the state apparatus in charge of implementing policies have been neglected. In turn, the studies that take Weberian bureaucratic features into account do not control for political institutions. This paper aims at bridging the gap between these two institutionalist approaches by analyzing an original dataset from a survey answered by 526 experts from 52 countries. There are two main empirical findings. First, some bureaucratic factors, and especially meritocratic recruitment, reduce corruption, trumping out the impact of most standard political variables such as years of democracy, the number of veto players or the type of electoral system. Second, the analysis shows that other allegedly relevant features in the bureaucratic institutionalist literature, such as public employees' competitive salaries, career stability or internal promotion, do not have a significant impact.

Draft  
March 20, 2009

Paper prepared for presentation at the Midwest Political Science Association

Annual National Conference, Chicago, USA, April 2-5, 2009.

## Introduction

A growing literature, mainly in economics and political science, has highlighted the importance of non-corrupt government institutions. Scholars and policy-makers agree that “good governance”, “state capacity”, and “quality of government” foster social and economic development, and economists have started to view dysfunctional government institutions as the most serious obstacle to economic development across the globe (e.g., Hall and Jones 1999; Acemoglu, Johnson, and Robinson 2001, 2002; Easterly and Levine 2003; Rodrik, Subramanian, and Trebbi 2004). Students of social capital, while originally viewing civil society as the main provider of interpersonal trust (Putnam 1993), have shifted their attention to administrative corruption and bad governance (Rothstein and Uslaner 2007; Rothstein and Stolle 2008; Rothstein and Eek, forthcoming). Even scholars of international relations are paying increasing attention to the importance of governance institutions, either for the outbreak of interstate wars (Mansfield and Snyder 2005) or for the sustainability of civil peace in war-torn countries (Paris 2004).

Although the positive effects from non-corrupt government institutions seems fairly undisputed today, the unanswered question is still why some states have been able to establish non-corrupt institutions, while others can not get rid of corruption and bad government. In answering that question the literature is heavily geared towards what can be called the properties of the *input* side of the state. They examine the effect of democracy, electoral systems or veto players – that is, factors dealing with the selection mechanisms and incentives of those who take policy decisions, neglecting the selection processes and incentives of those who implement policies: public employees. While the few individuals at the top of the state apparatus – e.g. the President, the members of the cabinet or the MPs – have been analyzed in the

comparative literature on corruption, the bulk majority of members of the state apparatus – in many countries millions of individuals – have been clearly overlooked. There are only a few examples in the literature, such as Rauch and Evans (2000), where the *output* side of the state been taken into account, but in these few studies the input factors have been neglected.

In sum, even though there are indications that both input and output factors do seem to matter for controlling corruption, they have not been systematically tested together. This paper aims at bridging the gap between these two alternative institutional approaches by testing Rauch and Evans' (2000) bureaucratic structure hypotheses together with the most prevailing input-side factors in the political institutionalist literature. In order to do so the paper uses an original dataset based on a survey to 526 experts from 52 countries which to the best of our knowledge represents the hitherto most encompassing dataset on bureaucratic structures at the cross-country level.

In addition, this paper also considers both which particular bureaucratic features do matter for corruption, and through which mechanisms they reduce corruption. Similar to Olsen (2005) and Evans and Rauch (1999), we therefore disentangle the concept of bureaucracy and focus on a few characteristics. While Rauch and Evans (2000) rely heavily on socialization – an *esprit de corps* – as the main causal mechanism, this paper suggests another mechanism, namely the existence of *separation of interests* between politicians and bureaucrats. This mechanism does not require any assumptions on the higher competence, higher morals or “better” nature of merit-recruited public employees’ vis-à-vis political appointees, but simply that meritocratic employees are responsive to a different chain of accountability than politicians. It is not that they are “better types”; they are just “different types” and, as

a result, collusion for taking bribes becomes a more strenuous collective action problem to solve, and thus less likely.

The remainder of the paper is organized as follows. The next section critically reviews the two literatures of corruption which hardly speak to each other: the politico-institutionalist, focused on input-side factors, and the bureaucratic-institutionalist, focused on output-side characteristics and, in particular, on the so-called Weberian bureaucracy. Subsequently, the paper disentangles this concept: which of the multiple features traditionally associated to a Weberian bureaucracy do matter for controlling corruption? And, more importantly, through which mechanisms do they act to curb corruption? A data and methods section presents how the original dataset on bureaucratic features has been built from a 54-country expert survey launched by *The Quality of Government Institute* and introduces the political and bureaucratic factors which will be tested in the posterior empirical section.

The two main findings of the empirical analysis are, first, that some bureaucratic factors such as the development of a professional bureaucracy exert a significant influence that trumps out the impact of most standard political variables found as significant in the political institutionalist literature such as years of democracy or the type of electoral system; and, second, that other allegedly relevant features for the bureaucratic literature, such as competitive salaries, career stability or formal exams for bureaucrats do not have an impact on their own.

### What matters: Politics or Bureaucracy?

We can distinguish among two types of institutionalist explanations of corruption: a majority of studies that stresses political institutions and a growing minority that emphasizes bureaucratic institutions. What matters for the former is who the rulers are, how we select them, which incentives they have and how they take decisions, and

what matters for the latter are the characteristics of the bureaucrats implementing decisions. As already mentioned, these different sets of factors have not been tested together.

Generally speaking, most of the institutionalist literature – in theoretical, but especially in empirical terms – has focused on political factors as the main state-related factors for explaining corruption. To start with, there are numerous cross-country studies dealing with the impact of the type of political regime over corruption: are democratic states more or less corrupt than authoritarian ones? In particular, many authors have explored what Harris-White and White (1996, 3) and Sung (2004, 179) define as the “contradictory” relationship between democracy and corruption: there seems to be a significant relationship between democracy and corruption, but it is a non-linear one. This non-linearity has been defined as either a U-shaped (e.g., Montinola and Jackman 2002), a J-shaped (e.g., Bäck and Hadenius 2008), or an S-shaped (e.g., Sung 2004) relationship. In terms of control of corruption and quality of government, younger democracies perform worse than authoritarian regimes and much worse than older democracies (Keefer 2007). In consolidated democracies politicians may be capable of building reputations as providers of good public policies, but that may be too costly for politicians in younger democracies. The latter may prefer to rely on patrons and, as a result, younger democracies will tend to over-provide clientelistic policies and be more corrupt than older ones.

A second political factor that the institutionalist literature finds as relevant for explaining cross-country differences in corruption levels regards who composes the political elites of a country. In particular, a consistent finding in the literature is that the higher the number of women in the national parliament of a country, even after controlling for other relevant political factors, the lower the level of corruption

(Treisman 2000; Dollar et al. 2001). Although the causal direction of this relationship is unclear (Sung 2003), the significant effect of the number of women in parliament for the development of certain public policies is a reason to take this relationship seriously (Wängnerud 2008). Everything else being equal, having women in political positions may matter for reducing corruption.

A third political factor follows, in general, from the virtues associated to separation of powers and, in particular, from Tsebelis' (1995) veto player theory. Along those lines, Andrews and Montinola (2004) understand corruption as a coordination game among the different relevant actors within a polity. The more veto players, the more difficult coordination among them will be and, thus, the lower the level of corruption a country will have. Andrews and Montinola (2004) find support for this hypothesis in an analysis of 35 emerging democracies for two decades. Using a similar argument, Persson, Roland and Tabellini (2000) consider that since in presidential systems elected officials cannot make credible commitments to each other, rent-seeking and corruption will be lower than in parliamentary regimes.

A fourth group of political factors traditionally seen as related to corruption are the characteristics of the electoral system. As comparative studies have shown, the impact of the classical distinction between majoritarian and PR systems over corruption must be qualified, and its different components must be analyzed separately. A feature linked to PR systems – the existence of large voting districts – has positive effect in controlling corruption. The mechanism behind that relationship would be that larger voting districts lower the barriers to entry. At the same time, a characteristic of majoritarian systems – a higher share of MPs elected in single-member districts – also leads to lower levels of corruption. The mechanism in this case would be that when candidates are elected from party lists have lower levels of

individual accountability, and thus, more prone to engage in corrupt activities (Persson, Tabellini and Trebbi 2003; cf. Kunikova and Rose-Ackerman 2005; Chang and Golden 2006).

All these political institutions have been found as having a significant impact on corruption in the literature and this paper will subject them to empirical testing. Nevertheless, we argue that these political arguments only offer us one side of the institutionalist story. There is a set of traditionally neglected factors in the most empirical institutionalist studies that may also have a relevant say for explaining the level of corruption of a country: the features of its bureaucracy.

From a mostly theoretical point of view, the latest decade has been a “time to rediscover bureaucracy” (Olsen 2005, 1) and numerous authors have provided a strong defence for and predicted a return to the Weberian bureaucratic organization (Suleiman 2003, Pollit and Bouckaert 2004, ch. 8). Contrary to the prediction of numerous scholars and international organizations, particularly in the 1980s and 1990s, Weberian bureaucracy does not seem nowadays an “organizational dinosaur helplessly involved in its death struggle” (Olsen 2005), but has been found to have positive effects in terms of good governance – specially in small-N studies (Wade 1990, Evans 1995). Nevertheless, the Weberian bureaucratic ideal-type of administration contains very diverse structural characteristics – e.g. a formalized, standardized, hierarchical and specialized *bureau* plus a professional administrative staff with merit lifelong employment and organized careers – that may reduce its scientific tractability. The diverse components of Weberian bureaucracies may not necessarily occur together in practice (Hall 1963; Olsen 2008), and it is difficult to assemble comparative data on bureaucratic features that may travel well from one country to another. We are thus left with the intriguing question of which

characteristics of Weberian bureaucracies, if any, contribute to good government and the control of corruption.

Rauch and Evans (2000) address that question in a pioneering study of 35 developing countries. They test the impact of three structural components of the “Weberian state hypothesis” on corruption and bureaucratic performance: the level of meritocratic recruitment, the existence of competitive salaries and the degree of internal promotion and career stability. While the effect of the latter two could not be clearly established, the level of meritocratic recruitment – understood in a formal way as the existence of competitive formal examinations and the possession of university degrees among the employees of core economic agencies – seemed to reduce the level of corruption in the pool of countries analyzed.

Despite the innovative nature of Rauch and Evans’ analysis, obvious when taking into account the large number of studies which have used their dataset since (see for example Henderson et al 2007), there are several reasons which lead us to undertake a further study of the relationship between bureaucratic features and corruption. Firstly, Rauch and Evans (2000) do not control for the standard political variables of the institutionalism literature and; for example, the relationships they found could simply disappear once one includes variables regarding the nature of the political regime.

Secondly, the sample of 35 countries selected – 30 “semi-industrialized” countries in 1980 plus 5 poorer countries selected to increase the representation of other world regions – could be formed by countries at a critical stage of economic development, precisely when bureaucratic characteristics could be more necessary according to the ‘developmental state’ literature. In particular, the so-called East Asian tigers, the development of which has been more clearly connected to state



policies (Amsten 1989; Johnson 1982; Wade 1990), are overrepresented in the sample. One could cast doubts about the inferences of their results for non-semi-industrialized countries, such as in advanced industrial OECD countries, or for developing countries which have not followed the East Asian development path, such as the East European countries.

An additional flaw is that it is not obvious which their theoretical mechanisms are. Rauch and Evans (2000, 53) seem to mostly rely on a cultural mechanism, namely the “esprit de corps”; but they do not offer clear guidelines on how the different bureaucratic features they test are proxies for this or other alternative mechanisms. This leads to the theoretical contribution of this paper: to detect the particular bureaucratic features relevant for tackling corruption and identify the mechanisms through which they act.

### Why Does Bureaucratic Structure Affect Corruption?

Since Max Weber’s (1978) monumental essays, written nearly 100 years ago, the positive effects of his bureaucratic ideal-type for good government have been discussed by an endless number of scholars in political science, public administration and sociology. Since one cannot realistically capture all characteristics of the ideal Weberian bureaucracy in a comparative dataset, this paper focuses on some features that can be especially important for explaining corruption – that is, the characteristics of staff policy: how public employees are selected and which incentives they face. Similar to Evans and Rauch (1999, 2000), we exclusively look at “the relevant determinants of recruitment and career patterns for bureaucrats” (1999, 749). The difficult question is thus to establish what these “relevant” bureaucratic features are.

Table 1 summarizes the alternative (unobservable) causal mechanisms and the partially overlapping (observable) bureaucratic features that should have a positive impact in the control of corruption according to each mechanism.

\*\*\* Table 1 around here \*\*\*

The first mechanism has to do with the levels of competence among the employees selected to join the public service. In order to improve bureaucratic performance and diminish corrupt practices, one should select “better types”. This can be done through two related procedures. We consider these two must be distinguished so as to clarify the posterior empirical analysis and because the normative implications in terms of how public employees should be selected may be quite different. Using the principal-agent theory terminology, one can either ‘screen’ the potential pool of candidates and select the most competent among them – in a similar fashion as private-sector firms select employees – or one can ask candidates to ‘signal’ their capabilities in a competitive formal examination or in a given educational degree – that is, the standard entry procedure to administrative *Corps* of functionaries. The first observable recruitment feature would thus be the extent to which the administration ‘screens’ would-be public employees according to their merit as opposed to their acquaintance or loyalty to their political superiors. Another observable recruitment feature would be the extent to which candidates must ‘signal’ their merit through formal competitive exams.

The second mechanism would not deal with how to prevent adverse selection but how to reduce moral hazard. In simple words, this mechanism would consist of “creating better types” through socialization and thereby generate an *Esprit de Corps*.

The driving force would be the development of a set of common norms within the bureaucracy for fostering impartial and non-corrupt behavior. Those norms would be the joint effect of many characteristics of what the literature defines as a closed civil service system (Bekke, Perry and Toonen 1996, 5; Læg Reid and Wise 2007, 171): the existence of career stability and lifelong tenure; the prevalence of internal promotions over lateral entries to the civil service; and the development of special laws covering the terms of employment for public sector employees instead of the general labor laws prevailing in the country. The high number of interactions among the civil servants within the same Corps would create a sense of common norms which would discourage corrupt behaviors. This would be the most decisive mechanism of a Weberian bureaucracy for Rauch and Evans. As they summarize, the formation of stronger ties among public employees reinforces the adherence to codified rules of behavior; “Ideally, a sense of commitment to corporate goals and ‘esprit de corps’ develop” (Rauch and Evans 2000, 52).

The third mechanism would affect bureaucratic performance by way of internal promotion. Rauch (1995) argues that internal promotion creates a virtuous circle increasing the quality of bureaucratic performance and decreasing corrupt behavior. There are two reasons for this. First, if high level bureaucrats (principals) are selected from the ranks of lower level bureaucrats (agents) the selection process is likely to produce principals that are interested in the exercise of power – that is, in imposing their preferences over collective goods to the public. As a byproduct of their efforts to implement their policy preferences they will supervise their agents to insure that they are carrying out their tasks instead of being engaged in corrupt exchanges. In addition, if the agents know that they can be promoted to principals they will be relatively more responsive. Both these factors contribute to increase “public goods provision and

decrease the extent to which it [the state] implicitly taxes the private sector through large scale corruption” (Rauch and Evans 2000, 52).

The fourth mechanism works against corruption mainly through wage policy. It is a classical premise in the literature on bureaucracies and corruption to assume that public servants maximize expected income. As a result scholars analyze both bureaucrats’ wages and penalties for corruption within the framework of a cost-benefit analysis in which economic incentives – carrots and sticks – should be set so that public servants are not tempted to engage in corrupt behavior (Becker and Stigler 1974). Studies do not agree if it is the relative level of wages in comparison to private sector ones, or their perceived fairness that ultimately could deter corrupt behavior. The general idea, although it is inherently difficult to subject to empirical scrutiny, is that public servants incentives can be affected by, on the one hand, their wage and, on the other, the probability of detection and the penalty for corruption (Van Rijckeghem and Weder 2001, 308).

One major caveat of this bureaucratic literature is that it is not clear that these four mechanisms are backed empirically. The result from Rauch and Evans (2000) seminal article does in fact give a very mixed support for these standard mechanisms in the Weberian bureaucracy literature. Only their meritocratic recruitment variable seems to exhibit a systematic effect on the control of corruption. Nevertheless, their proxies for internal promotion and career stability, despite being linked to their main theoretical mechanism – the development of an *esprit de corps* – do not show a clear effect on reducing corruption. Also when it comes to the effect of competitive wages – the *temptation* mechanism – the empirical evidence is mixed. Rauch and Evans (2000) do not find empirical support for this mechanism, while other studies do (Van Rijckeghem and Weder 2001).

Given these problems, we suggest an alternative causal mechanism that can be easily operationalized and has been overlooked in the literature. It does not require the long-term development of norms, but, at the same time, can also be compatible with the findings of Rauch and Evans (2000). We refer to this mechanism as the *separation of interests* mechanism.

The basic idea is that the existence of a professional bureaucracy reduces corruption not by virtue of selecting more competent agents, but by introducing agents with known different interests to those of politicians. Here especially the meritocratic recruitment of bureaucrats contributes to create separation of interests within the administration between two groups with different chains of responsiveness – politicians and bureaucrats – which in turn mitigates corruption. Since Woodrow Wilson’s (1887) classic assessment, students of public administration have warned against the negative effects produced by merging the roles of politicians and bureaucrats (see for example Aberbach et al 1981; Peters and Pierre 2004; Simon 1958; Weber 1968).

Scholars from transaction-cost-economics have also observed the potential negative effects of a uniform provider of public goods. Miller and Hammond (1994) formally show that any provider of public goods has incentives to maximize the “residual” inherently generated by the supply of any public good at the expense of social efficiency. In other words, they have incentives to misuse public office for private gain or to be corrupt. Citizens therefore face the problem of how to “constrain the political leader from giving in to incentives for abuse and inefficiency” (Miller and Hammond 1994, 24). Miller and Falaschetti (2001) stress that there is no perfect solution to this dilemma, and there will always be some room of manoeuvre for corrupt behaviour, but a way to minimize it is to transform the residual-owner into a

team of agents with “known different interests”. As a result of their heterogeneous nature, these agents will face a collective action problem in case they want to collude for undertaking a corrupt activity. As a most preferred example of a “residual-minimizing” polity Miller and Hammond (1994, 23) propose the establishing of a “professional bureaucrat” who counterbalances the more homogeneous interests of elected politicians.

It is important to remark here that, unlike in the *competence* mechanism, what prevents corruption here is not that merit-recruited bureaucrats are “better types” than the political appointed ones, but that they are simply “different types.” If an administration was exclusively composed of merit-based bureaucrats without any significant political interference, one could also expect relatively high levels of corruption. That, for example, could be the case of the numerous complaints about corruption and opacity in the most autonomous administrative *Corps* of some bureaucratic authoritarian states such as Franco’s Spain (Lapuente 2007, 221-224). Following this argument, we consider there are two reasons for why a professional bureaucracy could hamper corruption. First, introducing bureaucratic agents with separated interests to those of their principals creates coordination problems for opportunistic actions such as accepting bribes. Obviously, professional bureaucrats may also engage in corrupt behaviour, but this may require coordination with other actors who may often be elected officials. Generally speaking, weakening the ties between politicians and bureaucrats increases the chances for both types to reveal corrupt actions taken by the other type. Second, since we have individuals who are recruited from two different constituencies, one political and one professional (meritocratic), two parallel hierarchies of accountability is created. As Alesina and Tabellini point out, “the main difference between top-level politicians and top level

bureaucrats lies in how they are held accountable. Politicians are held accountable, by voters, at election time. Top-level bureaucrats are accountable to their professional peers or to the public at large, for how they have fulfilled the goals of their organization” (Alesina and Tabellini 2007, 169-170). Consequently, the careers of professional civil servants become independent from the careers of political incumbents. The future prospects of civil servants – inside or outside the administration – will depend on their professional status and not on following politicians’ instructions.

## Data and methods

In order to test the theoretical arguments deployed in table 1, we need data on both corruption and the structure of the bureaucracy. For a measure of corruption we rely on the widely used World Bank Governance Indicator “Control of corruption” (Kaufmann et al. 2006). This is a perceptions-based measure of corruption, “including both petty and grand forms of corruption, as well as ‘capture’ of the state by elites and private interests,” and draws on 19 different data sources (ibid., 4, 89). Given our theoretical point of departure we would ideally have preferred a measure of administrative rather than political corruption, but to the best of our knowledge no such measure exists.<sup>1</sup> All data on corruption, together with the control variables, are from the Quality of Government Dataset (Teorell et al. 2008a).

The more daunting task is to find useful gauges of the structure of public administration. For this purpose we have collected original data on a cross-section of countries, the so-called “Quality of Government Institute Quality of Government

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<sup>1</sup> We prefer the World Bank Institute measure over the “Corruption perception index” produced by Transparency International for the simple reason that it is based on a somewhat expanded sample of countries. The two indicators are however very strongly correlated (at around .95, depending on the year and sample selection), and mostly rely on the same underlying original sources.

Survey” based on a country-expert survey answered by 526 public administration experts worldwide (Teorell et al. 2008b). In this paper we present the first results from this ongoing data collection project. Appendix A offers a detailed description of the design and implementation of the survey as well as the methods for country and expert selections. Despite receiving responses by experts on 58 countries, to enhance data quality, this paper exclusively relies on the 54 countries for which at least 3 expert responses have been obtained. Western Europe and Northern America together with postcommunist Eastern Europe and the former Soviet Union carry the weight of countries covered. Only seven non-Western and non-postcommunist countries are covered by at least three respondents: India, Brazil, South Africa, Japan, South Korea, Mexico, and Turkey, the last four of which are OECD members. By and large, then, our sample of countries is heavily geared towards the developed world.

The questionnaire items relevant for gauging the structure of the public administration are presented in Appendix B. For present purposes we have concentrated on the 8 items that tap into the features of public administration for which we developed the theoretical expectations in Table 1 above. These include the extent to which recruitment is based on merit (q2\_a) and formal examinations (q2\_c) rather than political criteria (q2\_b, q2,d), as well as the extent to which promotion within the hierarchy is an internal affair (q2\_e) and is based on lifelong career paths (q2\_f). Competitive salaries (q2\_k) and special protection from extraordinary labor laws (q8\_1) are other components of this assemblage of features, which collectively usually goes under the heading “Weberianism” in the literature.

The fact that Max Weber had a clear theoretical idea of what constitutes the ideal-typical bureaucracy, however, does not necessarily imply that these features hang together in the empirical world of public administration systems. Although this



disconnection between Weberian theory and real-world administrations has been a commonplace among scholars for decades (Hall 1963, Olsen 2005), the availability of this country survey allow us for the first time to subject it to a large-N empirical scrutiny. To test the extent to which the traditionally considered Weberian features go hand in hand in reality, we performed a country-level principal components factor analysis of the above mentioned 8 items, the results of which are reported in Table 2. What emerges from this inductive procedure of classifying bureaucratic features, at least in our sample of countries, is that it seems that there are actually two dimensions of “Weberianism”. In a first dimension, meritocratic recruitment and internal promotion appear as strongly connected with the absence of a politicized bureaucracy. In a second dimension, the use of formal examination systems is intimately connected to having lifelong careers and protection from special employment regulations. We interpret the first dimension as one tapping into the degree of *professionalism* in the public administration, as it is capturing the extent to which the professional merits and not political contacts are determining recruitments and promotions, whereas the second very much resembles the distinction between *open* and *closed* civil service systems (Bekke, Perry and Toonen 1996, 5). The final component, competitive salaries, does not conclusively belong to either of these dimensions. We will thus treat it as a separate indicator of the public administration structure in the analyses to come.

\*\*\* Table 2 around here \*\*\*

Based on these results, we construct two factor indices in order to represent the two distinct dimensions of the public bureaucracy. These scores are computed as an additive index of all items highlighted in bold, weighted by their respective factor

loadings. By construction, the factors scores have zero means and unit standard deviation. The cross-country variations in these indices, together with the remaining competitive salaries indicator, are presented in Figure 1-3.

\*\*\* Figure 1-3 around here \*\*\*

In figure 1 we find mainly countries belonging to the Anglo-American tradition, such as Ireland, New Zealand and the UK, or to the Scandinavian administrative tradition, such as Norway, Denmark and Sweden, at the top of the Bureaucratic Professionalism continuum, which is not very surprising. However, here we also find countries belonging to the East Asian administrative tradition, like Japan and Korea, known for having a strong professional bureaucracy (Painter and Peters, forthcoming). Further down we find countries with known high levels of politicization of the civil service, such as Spain, Italy and Mexico (Dahlström, 2008; Matheson et al 2007). Figure 2 captures how “closed” civil service systems are. Again, the ranking seems to correspond with established observations. The countries at the top are Brazil, India, Spain, France and Japan, where at least the tree later are often pointed out as the most clear examples of a closed bureaucratic structure (Silberman 1993, 12). When it comes to the competitive salaries, presented in figure 3, the admittedly few countries that are overlapping in our sample and the Evans and Rauch sample seems also to be matching. Mexico and Korea are two of the countries with the most competitive salaries in both samples, while Spain is ranked fairly low (Rauch and Evans 2000, 66).

## Results

We start the empirical analysis by testing the traditional political institutional variables vis-à-vis a bureaucratic professionalization variable, which we interpret as mainly capturing the separation interest mechanism, while leaving the other dimensions of Weberianism, as well as their constitutive components, aside for a moment. As a proxy for this mechanism we rely on the professionalism index uncovered by the principal components analysis developed in the previous section. Its different components (the first four listed in Table 2) refer neatly to the bureaucratic features through which the mechanism of separation of political and professional interests is assumed to work (5a-c in Table 1).

Table 3 reports a series of cross-country regressions with the “Control of corruption” indicator as our dependent variable, here reversed to enhance interpretability (so that higher scores means more corruption, and vice versa). In order to take measurement error in the dependent variable into account, we weigh observations in the cross-country regressions with the inverse of the standard errors of the corruption indicator.

\*\*\* Table 3 around here \*\*\*

Since there is no agreed upon standard set of economic and political determinants of corruption to rely upon, we have tested several alternative specifications. The first, and most restrictive, model is an exact replica of Rauch and Evans’s (2000) specification, only including GDP per capita (logged), the level of education and degree of ethnolinguistic fractionalization. The second model is instead geared towards factors that, apart from economic development and education, should

help explain why certain countries introduce professional bureaucracies whereas others do not. Drawing on Lapuente and Nistotskaya (2009), this means including proxies for political uncertainty (level and years of democracy) as well as the number of veto players (political constraints), together proxying for “intra-temporal and inter-temporal political fragmentation” (2009, 5). In addition, we have also included the old Weberian cultural argument that a professional bureaucracy should be particularly suitable to a “protestant ethics”.

Models (3) and (4) are more encompassing models of corruption. In one of the broadest literature reviews to date, Treisman (2007) argues that “quite strong evidence suggests that highly developed, long-established liberal democracies, with a free and widely read press, a high share of women in parliament, and a history of openness to trade, are perceived as less corrupt” (2007, 211). We have thus in model (3) included measures for all these correlates of corruption. Moreover, in model (4) we have replicated the model used in Persson, Tabellini and Trebbi’s (2003) much-cited work on electoral rules and corruption, including the Rauch and Evans (2000) variables together with level and years of democracy, Protestantism, Confucianism, trade volume and a dummy for OECD members.<sup>2</sup>

In model (5), finally, we have assembled a parsed control model where every determinant that comes out as statistically significant in *any* of models (1) through (4) is retained.<sup>3</sup> In addition, regional dummies are introduced in order to wipe out the influence of some relatively extreme outliers. As can be seen, our index of

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<sup>2</sup> The two electoral systems variables most prominently affecting corruption in Persson, Tabellini and Trebbi’s (2003) study – that is, the inverse of the average district magnitude and the proportion of parliamentary candidates elected in single-member districts – are also included in this model. Neither of these variables are significant, however, so to preserve space we have left them out of the table.

<sup>3</sup> The one exception to this rule is level of democracy according to Freedom House, the reason being that this indicator encompasses the Freedom House freedom of the press indicator, and thus mostly introduces undue amounts of multicollinearity. Results remain the same if this variable replaces the press freedom indicator.

bureaucratic professionalism works as a statistically significant deterrent of corruption across all these specifications. In the final parsed model, the coefficient of  $-.20$  can be interpreted as indicating that an increase of about one standard deviation in the level of professionalism leads to about a fifth standard deviation decrease in the level of corruption, all else being equal.

Thus, from the results of these different model specifications we can conclude that a cluster of bureaucratic features, in our this analysis defined as bureaucratic professionalism (which is far from all the features considered as relevant in the literature on bureaucracies) corresponding to some theoretical mechanisms (but, again, far from all the traditional mechanisms in the literature) significantly reduces corruption also when controlling for the effect of different political institutions.

We are now moving on to start the empirical analysis of what mechanisms creates the relationship between bureaucracy and corruption. It is important to bear in mind here that it is inherently difficult to empirically distinguish what causal mechanism/s of the ones deployed in Table 1 can ultimately explain the relationship between bureaucratic characteristics and corruption – given that some mechanisms could be captured by the same observable bureaucratic features. But the question is still relevant; why do Weberian bureaucracies reduce corruption? Is it because the ‘competence’ of the bureaucrats is higher, because of an ‘Esprit de Corps’, because of ‘cooptation’, by means of preventing ‘temptations’, or as we are suggesting because of a separation of interest between politicians and bureaucrats?

Retaining the same parsed control model, we proceed now to test the different alternative mechanisms in Table 4. First, we tap our professionalism index against the second cluster of bureaucratic features emerging from the principal components analysis – the open vs. closed civil service dimension. The three highly correlated

bureaucratic features which form it correspond to two traditional theoretical mechanisms in the literature: the level of competence of employees (competitive formal examinations) and the *Esprit de Corps* (lifelong careers and special employment laws for public employees). We also compare the professionalism index vis-à-vis one of the most prevailing theoretical mechanisms in the literature of corruption: the competitiveness of public wages to deter temptations.

Interestingly, only professionalism comes out as significant in this contest.<sup>4</sup> This implies that those bureaucratic features that through the traditionally praised long-term socialization process in an *Esprit de Corps* should curb corruption are not supported in our data. Neither does the temptation seem to work. In other words, in order to reduce corruption, neither the bureaucratic features traditionally linked to the internalization of norms, nor what public employees earn, seem to matter.

In order to identify more precisely the mechanism/s creating the reduction in corruption, we take two additional steps. In model (2) we investigate the separate components of the professionalism index (here items q2\_b and q2\_d, both capturing politicization, have been averaged in order to reduce multicollinearity). Despite the fact that these components are strongly interrelated, one of them clearly comes out as the strongest deterrent to corruption: having a recruitment system based on skills and merit. This indicator also, in model (3), trumps the separate components of the ‘civil service closedness’ index, none of which by themselves are significantly related to corruption. One might suspect multicollinearity for this latter result, but neither formal examinations, lifelong careers, nor special employment laws come out as statistically significant determinant when entered individually to the parsed control model. They simply do not seem to have an impact on curbing corruption.

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<sup>4</sup> This applies regardless of whether the three contestants are entered individually or collectively into the model.

Regarding the theoretically deduced causal mechanisms, the implications from these three models are not conclusive yet. It is not clear if meritocratic recruitment is curbing corruption because “better types” have been selected as bureaucrats or because the interests of bureaucrats and politicians have been separated. Nevertheless, we interpret the results as speaking against both the ‘Esprit de Corps’ and the ‘temptation’ mechanisms. We also take the result as an indication that the internal promotion is not what matters, since its effects disappear in model (2), a finding that would speak against the ‘cooptation’ mechanism pointed out by Rauch (1995). And it should also be pointed out that one of the two indicators for the competence mechanism, namely formal examinations, do not have an statistically significant effect on the control of corruption. Again, although not conclusively, our interpretation is that this leaves us with only two mechanisms for explaining why Weberian bureaucracies reduce corruption – selecting “better types” and selecting “different types” – ruling out some of the most prevailing mechanisms in the so far highly theoretical literature on bureaucracy and corruption. More importantly, these results leave us with one single powerful bureaucratic feature as the best instrument against corruption: meritocratic recruitment.

\*\*\* Table 4 around here \*\*\*

A potentially serious objection to these results concerns endogeneity bias. Having perceptions based measures at both side of the equation (albeit from different sources), how can we rule out the possibility that the administrations of the less corrupt countries are simply perceived as being more professional and merit-based? Unfortunately we cannot perfectly rule out this interpretation, but we can include one

additional design feature that should at least ameliorate the problem: drawing on temporal variability in the corruption perceptions. This far we have solely relied on the cross-sectional measure of corruption from the year of 2002 (since that is when all control variables are measured in the cross-sectional Quality of Government Dataset).<sup>5</sup> In the last two models of Table 4, however, we rely on the *latest* available measure, from 2005, while controlling for the *earliest* available measure, being from 1996. In effect this implies that we control for the lagged dependent variable, a potentially strong strategy for purging our estimates from endogeneity bias.

As model (4) makes clear, this strategy reduces the effect of the professionalism index below standard thresholds for statistical significance.<sup>6</sup> The merit indicator in model (5) however survives even this control. By interpretation, a standard deviation difference in the extent of meritocratic recruitment corresponds to about a sixth of a standard deviation reduction in the perceived level of corruption in a country between 1996 and 2005. In Figure 4 we display the partial regression plot for this final specification—that is, the relationship between meritocratic recruitment and corruption once the effects of all control variables, including the lagged dependent variable, have been taken into account. As the upper plot indicates, Italy and Albania at first appear to be exerting undue influence on this result in terms of being relatively influential confirming outliers. On the other hand, Iceland pushes the result in the other direction by appearing as a disconfirming outlier. The lower plot however demonstrates our result is robust to the exclusion of these three outliers (the partial correlation in both plots is about  $-.46$ ).

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<sup>5</sup> All results in Table 3 and 4 however remain exactly the same if we consistently use the 2005 “control of corruption” indicator as our dependent variable.

<sup>6</sup> It should be noted, however, that without the regional dummies in the model, professionalism comes out as statistically significant even in model (4). This result however hinges on the inclusion or not of two extremely influential cases: South Africa and Albania.



To this we may finally add some empirical illustrations from the history of nowadays established Western democracies pointing out that meritocratic recruitment did not happen *after* – or as a result of – administrative corruption was curbed. To start with, while the British meritocratic reform of the administration was imposed by the 1854 Northcote-Trevelyan report, which recommended strict merit selection procedures to join the Civil Service, the period known as the ‘Old Corruption’ would according to most historians’ accounts end in the 1860s (Harling 1995). The introduction of merit was thus not a consequence of a less corrupted administration, but, inversely, meritocratic recruitment was an instrument used by reform-minded politicians to curb corruption by putting an end to “fringe emoluments received by the major office-holders and their relatives” (Rubinstein 1983, 62).

Similarly, the goal of the Progressive Era reformers who pushed for the adoption of merit recruitment systems (i.e. Civil Service Commissions) across US cities was mostly to disable the urban political machines in which corruption seemed to prosper (Van Riper 1958; Kelman 1987; Schultz and Maranto 1998). The US historical experience suggests that it was the extension of merit the key for “righting the urban wrongs” of extensive corruption in US cities and it was due to the efforts of Progressive reformers who, by claiming for the establishment of merit recruitment systems, undertook “one of the great crusades of the age” (Teaford 1993, 30, 37).

## Conclusions

In the literature on corruption, scholars have looked either to political explanations, or to bureaucratic explanations. Even though there are indications that both substantially affect corruption, they have not been tested together. The literature emphasizing political factors has a tendency to ignore the potential influence from the bureaucracy,

while the bureaucracy literature, in turn, has not included insights regarding political factors.

In this paper we have tried to bridge this gap, as we have empirically tested both types of factors. The empirical results show that even when controlling for a very broad range of political and institutional factors, bureaucratic professionalism is a statistically significant deterrent of corruption, and thereby underline the importance of including measures of bureaucratic professionalism in general models explaining cross-country variance in corruption.

The discussion about cross-country effects of Weberian bureaucracy has been fueled by the seminal work of Evans and Rauch (1999; 2000). However, as was recently pointed out by Olsen (2008), there are many different parts of a Weberian bureaucracy that do not necessarily go together empirically. Therefore, in the theoretical section of this paper we disentangle the causal relationship between a Weberian bureaucracy and low levels of corruption. We identify four causal mechanisms from the literature and suggest one more, often neglected mechanism, namely the separation of interest between bureaucrats and politicians. We argue that a separation of interest is introduced when the bureaucracy is professionalized, and especially when bureaucrats are recruited according to skills and merit. We interpret the empirical results as supporting this notion and speaking against other, previously suggested Weberian mechanisms working through competitive salaries in the public sector, career stability, and formal examinations for bureaucrats.

## **APPENDIX A: Country and Expert Selection in the “Quality of Government Institute Quality of Government Survey**

After a pilot conducted in the Winter of 2007-2008, the survey has been administrated starting in September 2008 as a web survey of public administration experts in a wide array of countries. Although the scope of the survey is global in principle, we soon realized that there would be a trade-off between the number of countries we could include in the study, particularly from the developing world, and the information we could acquire on potential public administration experts. The solution to this problem that we opted for was to select experts first, and then let the experts, by themselves choosing the country for which they wanted to provide their responses, determine the selection of countries. In practice, what we did was to assemble a list of persons registered with four international networks for public administration scholars: The Network of Institutes and Schools of Public Administration in Central and Eastern Europe (NISPACEE), The European Group of Public Administration Scholars (EGPA), the European Institute of Public Administration (EIPA), and the Structure and Organization of Government (SOG) Research Committee at IPSA. The homepages of these scholarly networks provided the bulk of names of public administration scholars that was sent the questionnaire, but we also did some complementary searches on the internet, drew from personal contacts of scholars at the QoG Institute, and used the list of experts recruited from the pilot survey.

All in all, this resulted in a sample of 1288 persons from 53 countries. We contacted these persons by email, including some background information on the survey, a request to take part, together with a clickable link inside the email leading to the web-based questionnaire in English. The only incentives presented to participants

were access to the data, a first-hand report, and the possibility of being invited to future conferences on the Quality of Government.

At present (March 12<sup>th</sup> 2009), after three reminders, 499 or 38.7 percent of these experts have responded, providing responses for 54 countries. In order to cover some underrepresented small European states, and to enhance the coverage of countries with critically low response rates, we launched a second wave of the survey in January this year. This fresh sample was based on extended internet searches and personal contacts, with the addition of a snowballing component through which one responding expert could suggest other experts on his or her country. At present 27 additional valid responses out of 67 sampled experts have been collected, covering 9 countries (4 of which were not covered in the original sample).

On the whole, this leaves us with 526 expert responses on 58 countries (see table below). The average respondent in this sample is a male (66 %), 47-year-old PhD (82 %). An overwhelming majority of respondents were either born (91 %) or live (92 %) in the country for which they have provided their responses. To enhance data quality, we have in this paper exclusively relied on the 52 countries for at least 3 expert responses have been obtained. While the number of respondents even among this restricted set of countries varies substantially, from only 3 for Brazil and Malta to a maximum of 28 in the Czech Republic, on average 10 experts per country have taken the time to respond to our survey. As should be expected from the sampling frame, Western Europe and Northern America together with postcommunist Eastern Europe and the former Soviet Union carry the weight of countries covered.

### Number of Valid Responses by Country

<i>Country</i>	<i>Respondents</i>	<i>Country</i>	<i>Respondents</i>
Albania	11	South Korea	7
Armenia	16	Kyrgyzstan	6
Australia	10	Latvia	7
Austria	5	Lithuania	11
Azerbaijan	6	<i>Luxembourg</i>	1
Belarus	9	Macedonia	7
Belgium	7	Malta	3
Bosnia & Herzegovina	7	<i>Mauritius</i>	1
Brazil	3	Mexico	11
Bulgaria	22	Netherlands	14
Canada	13	New Zealand	12
<i>China</i>	1	<i>Nigeria</i>	2
Croatia	6	Norway	12
<i>Cyprus</i>	1	Poland	11
Czech Republic	28	Portugal	9
Denmark	13	Romania	17
Estonia	10	Russian Federation	6
Finland	11	<i>Serbia</i>	2
France	6	Slovakia	7
Georgia	8	Slovenia	11
Germany	12	South Africa	3
Greece	22	Spain	7
Hungary	15	Sweden	11
Iceland	4	Switzerland	5
India	7	Turkey	5
Ireland	16	Ukraine	11
Italy	7	United Kingdom	11
Japan	9	United States	19
Kazakhstan	7	Uzbekistan	3
		TOTAL	526

*Note:* Countries in italics are not included in this paper due to too low response rate.

## Appendix B: Survey Questionnaire (extract)

2. Thinking about the country you have chosen, how often would you say the following occurs today?

	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>← Hardly ever</span> <span>→ Almost always</span> </div>							No opinion
	1	2	3	4	5	6	7	
a. When recruiting public sector employees, the skills and merits of the applicants decide who gets the job?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. When recruiting public sector employees, the political connections of the applicants decide who gets the job?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Public sector employees are hired via a formal examination system?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. The top political leadership hires and fires senior public officials?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
e. Senior public officials are recruited from within the ranks of the public sector?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. Once one is recruited as a public sector employee, one stays a public sector employee for the rest of one's career?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g. Firms that provide the most favorable kickbacks to senior officials are awarded public procurement contracts in favor of firms making the lowest bid?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. When deciding how to implement policies in individual cases, public sector employees treat some groups in society unfairly?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j. When granting licenses to start up private firms, public sector employees favor applicants with which they have strong personal contacts?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k. Senior officials have salaries that are comparable with the salaries of private sector managers with roughly similar training and responsibilities?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
l. The salaries of public sector employees are linked to appraisals of their performance?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
m. When found guilty of misconduct, public sector employees are reprimanded by proper bureaucratic mechanisms?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

 8. To what extent would you say the following applies today to the country you have chosen to submit your answers for?

	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>Not at all</span> <span>↔</span> <span>To a very large extent</span> </div>							No opinion
	1	2	3	4	5	6	7	
a. Public sector employees strive to be efficient?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. Public sector employees strive to implement the policies decided upon by the top political leadership?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. Public sector employees strive to help clients?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Public sector employees strive to follow rules?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
e. Public sector employees strive to fulfill the ideology of the party/parties in government?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f. The terms of employment for public sector employees are regulated by special laws that do not apply to private sector employees?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
g. The provision of public services is subject to competition from private sector companies, NGOs or other public agencies?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h. The provision of public services is funded by user fees and/or private insurances rather than taxes?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i. Women are proportionally represented among public sector employees?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

*Table 1. Causal mechanisms suggested to reduce corruption and its observable indicators.*

<i>Causal Mechanisms</i>	<i>Observable Bureaucratic Features</i>
<p>1. <i>Competence</i> The key is to “select better types”</p>	<p>1a. Meritocratic recruitment (candidates are “screened” according to their merit)</p> <p>1b. Competitive Formal Examinations (candidates “signal” their merit)</p>
<p>2. <i>Esprit de Corps</i> The key is to “create better types” through socialization in certain values, strong ties among the members of the <i>Corps</i> and isolation from external influences</p>	<p>2a. Career stability / Secure tenure.</p> <p>2b. Internal promotions (in opposition to lateral entries).</p> <p>2c. Special laws for public employment (in opposition to standard labor laws).</p>
<p>3. <i>Cooptation</i> The principals of the administration are selected among the agents</p>	<p>3. Internal promotions (in opposition to lateral entries).</p>
<p>4. <i>Temptation</i> The key is to pay bureaucrats enough, so as they do not engage in corrupt behavior to complement their salaries</p>	<p>4. Competitive salaries in the public sector.</p>
<p>5. <i>Separation of interests</i> The interests of principals and bureaucratic agents are separated because they are responsive to different chains of accountability</p>	<p>5a. Meritocratic recruitment (candidates are “screened” according to their merit)</p> <p>5b. Non-politicization of public service posts.</p> <p>5c. Internal promotions (in opposition to lateral entries).</p>



*Table 2. Two Dimensions of Weberianism.*

	<i>Professionalism</i>	<i>Closedness</i>
Meritocratic recruitment (q2_a)	<b>.90</b>	-.04
Political recruitment (q2_b)	<b>-.94</b>	.08
Political elite recruits senior officials (q2_d)	<b>-.82</b>	-.15
Senior officials internally recruited (q2_e)	<b>.81</b>	.28
Formal examination system (q2_c)	.07	<b>.80</b>
Lifelong careers (q2_f)	.34	<b>.80</b>
Special employment laws (q8_f)	-.25	<b>.73</b>
Competitive salaries (q2_k)	.18	-.49

*Note:* Entries are varimax rotated factors loadings for the first factors retained from a principal components factor analysis at the country level (n=52). Loadings >.5 or <-.5 are highlighted in bold, questionnaire items (see Appendix B) within parentheses.

Table 3. Bureaucratic Professionalism and Corruption (WLS estimates).

	(1)	(2)	(3)	(4)	(5)
Professionalism	-0.32*** (0.08)	-0.24*** (0.07)	-0.23*** (0.07)	-0.26*** (0.08)	-0.20*** (0.07)
Log(GDP/cap)	-0.95*** (0.10)	-0.61*** (0.11)	-0.29 (0.17)	-0.62** (0.24)	-0.27** (0.11)
Education	-0.00 (0.00)	-0.00 (0.00)		-0.00 (0.01)	
ELF	-0.33 (0.33)			-0.09 (0.36)	
Level of democracy (Polity)		-0.01 (0.02)	0.01 (0.02)		
Level of democracy (Freedom House)				0.08** (0.04)	
Years of democracy		-0.00* (0.00)	-0.00* (0.00)	-0.00 (0.00)	-0.00 (0.00)
Political constraints		-0.85** (0.39)			-0.28 (0.37)
Protestantism		-0.01*** (0.00)		-0.01*** (0.00)	-0.01*** (0.00)
Confucianism				0.50 (0.36)	
Freedom of the press			0.02** (0.01)		0.02*** (0.01)
Newspapers			0.00 (0.00)		
Television sets			-0.00 (0.00)		
Female representation			-0.02*** (0.01)		-0.00 (0.01)
Years open to trade			0.00 (0.01)		
Trade volume				0.00 (0.00)	
OECD member				-0.11 (0.23)	
Western					-0.36** (0.17)
Latin American					0.45** (0.21)
African					-0.10 (0.36)
Asian					0.15 (0.20)
Constant	8.47*** (0.91)	5.90*** (0.93)	1.98 (1.82)	5.21** (2.05)	1.94 (1.22)
No. of countries	50	47	43	38	47
Adjusted R-squared	0.845	0.916	0.938	0.888	0.956

\* significant at the .10-level, \*\* significant at the .05-level, \*\*\* significant at the .01-level.

Note: Entries are Weighted Least Squares regression coefficients, with standard errors within parentheses, and the inverse of the estimated error variance in the corruption perceptions measure used as weight. The dependent variable is the inverse of the WB "Control of corruption" indicator from 2002.

Table 4. Components, mechanisms, and endogeneity (WLS estimates).

	(1)	(2)	(3)	(4)	(5)
Professionalism	-0.18** (0.07)			-0.10 (0.06)	
Closedness	0.05 (0.05)				
Competitive salaries	-0.03 (0.04)				
Meritocratic recruitm.		-0.20** (0.08)	-0.20*** (0.06)		-0.15*** (0.05)
Politicized recruitment		0.00 (0.06)			
Internal promotion		-0.01 (0.06)			
Formal examinations			0.02 (0.04)		
Lifelong careers			0.00 (0.06)		
Special employment laws			0.03 (0.06)		
Corruption in 1996				0.31*** (0.08)	0.30*** (0.07)
Constant	2.14* (1.22)	2.40** (1.06)	2.03* (1.11)	0.42 (0.85)	1.18 (0.83)
Observations	47	47	47	47	47
Adjusted R-squared	0.956	0.959	0.959	0.968	0.973

\* significant at the .10-level, \*\* significant at the .05-level, \*\*\* significant at the .01-level.

*Note:* Entries are Weighted Least Squares regression coefficients, with standard errors within parentheses, and the inverse of the estimated error variance in the corruption perceptions measure used as weight. The dependent variable is the inverse of the WB “Control of corruption” indicator from 2002 in models 1-3, from 2002 in models 4-5. All models include the same control variables as model (5) of Table 3: Years of democracy, Political constraints, Protestantism, Freedom of the press, Female representation and regional dummies.

**Figure 1. Bureaucratic Professionalism (country scores)**

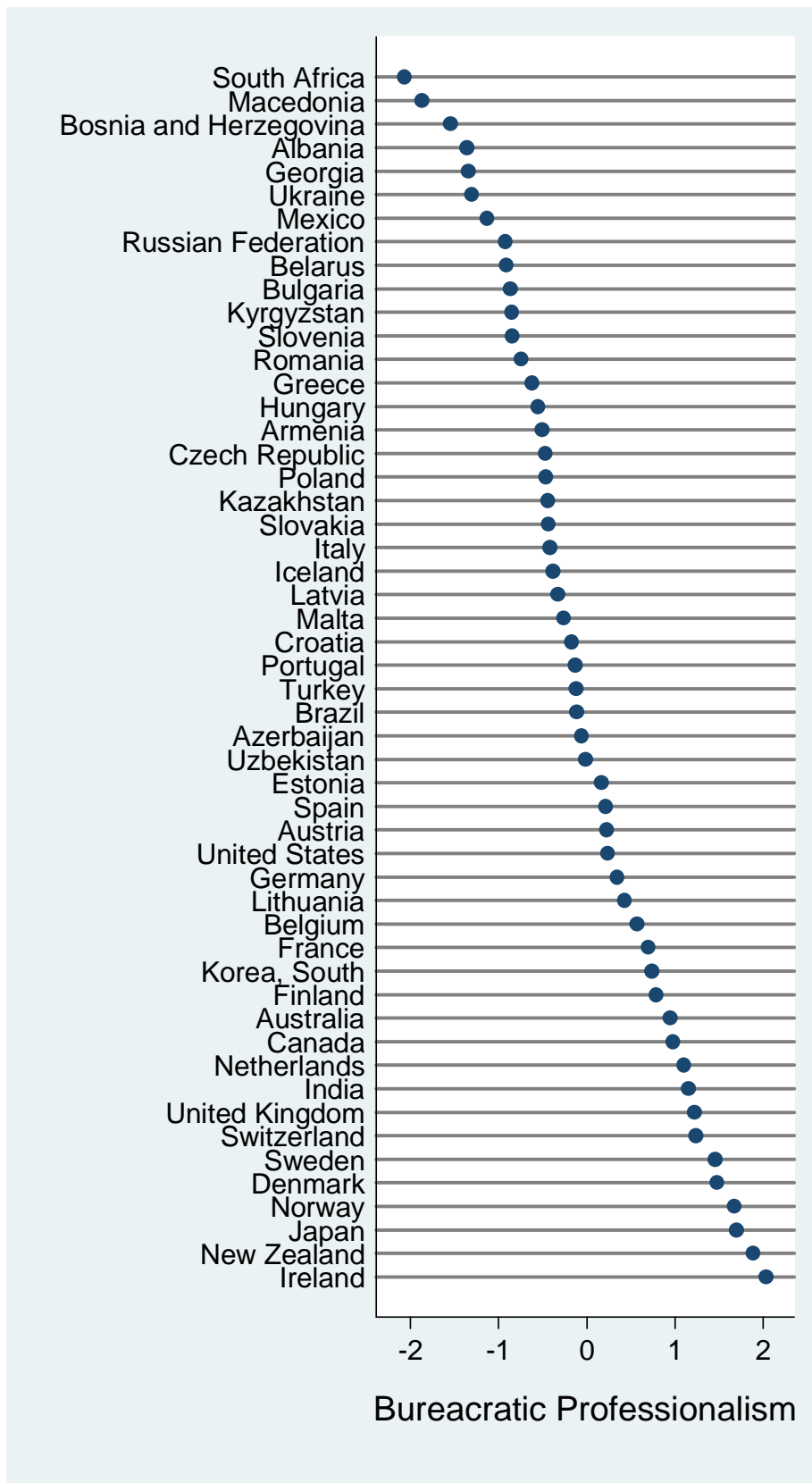
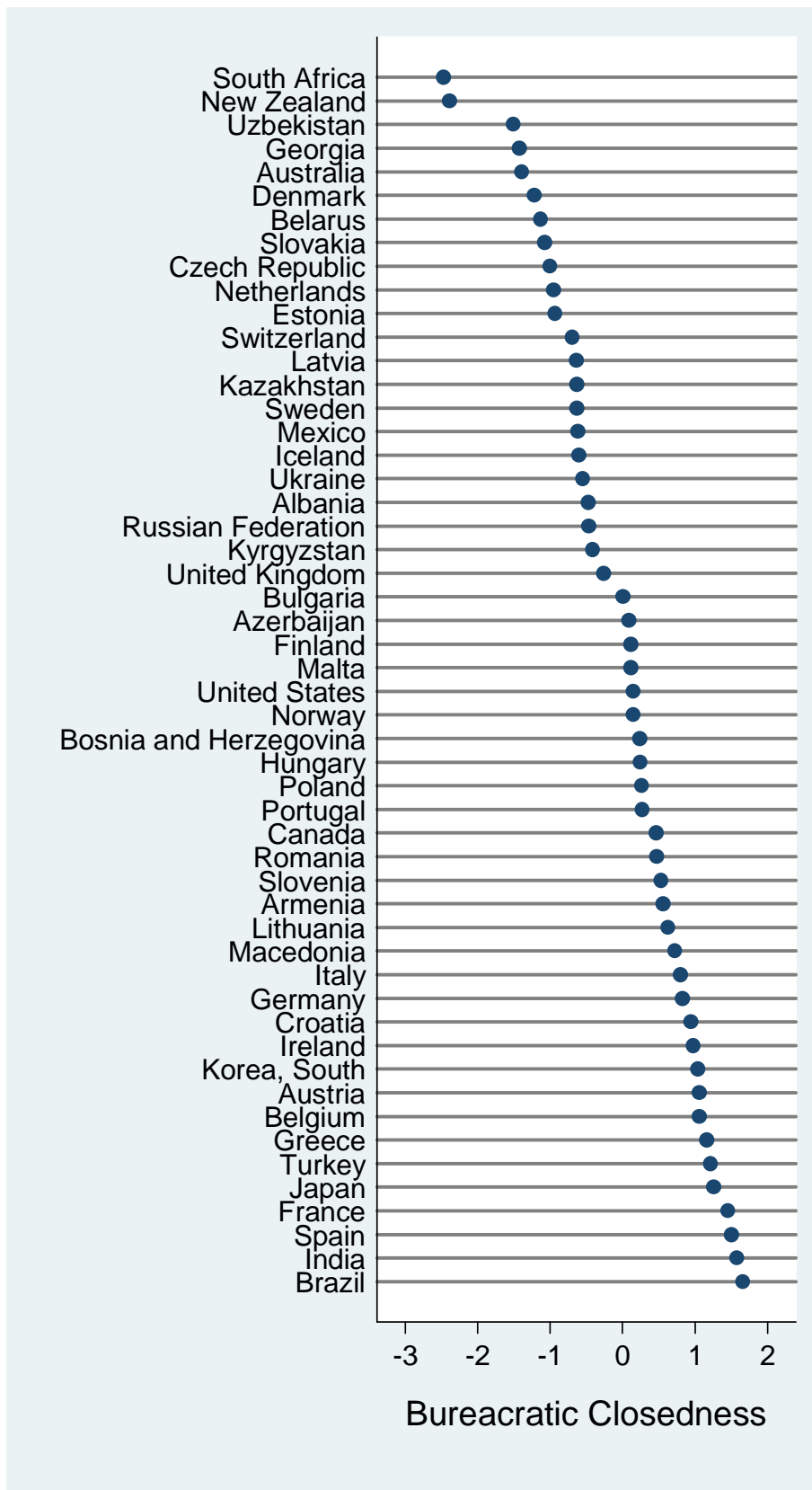
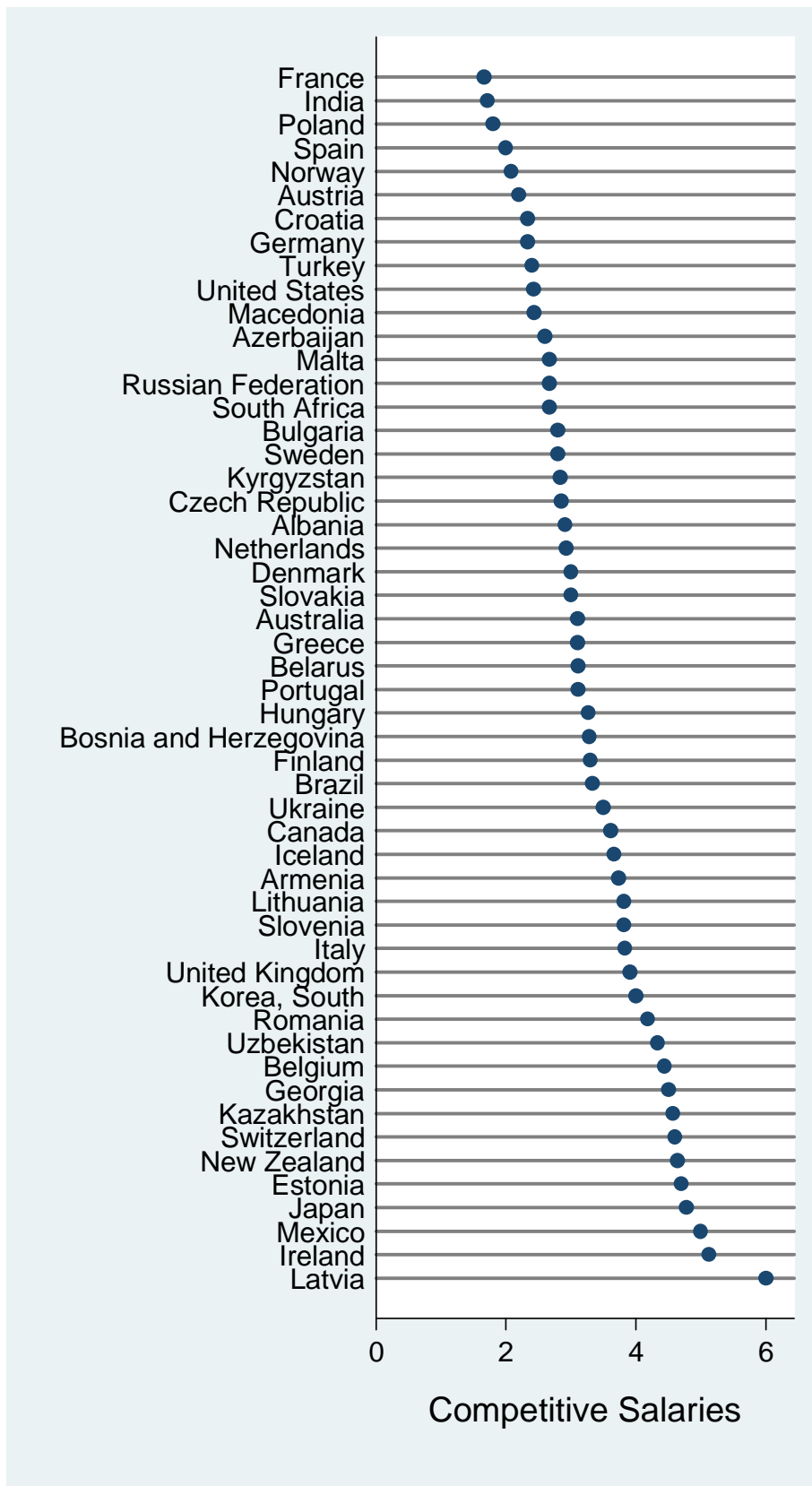


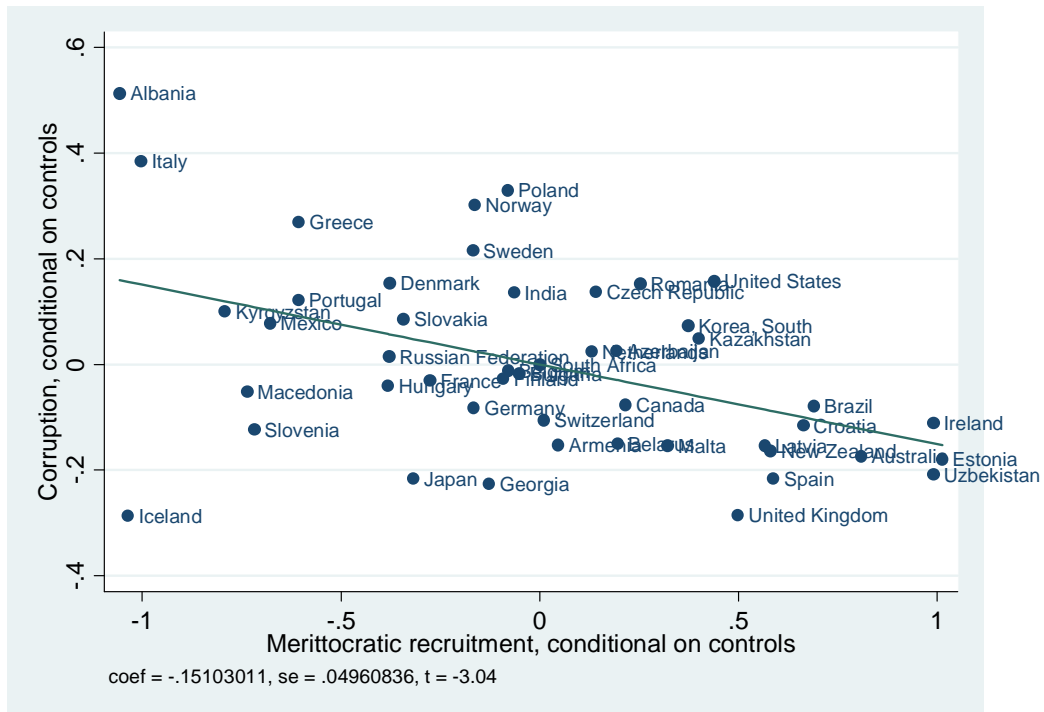
Figure 2. Bureaucratic Closedness (country scores)



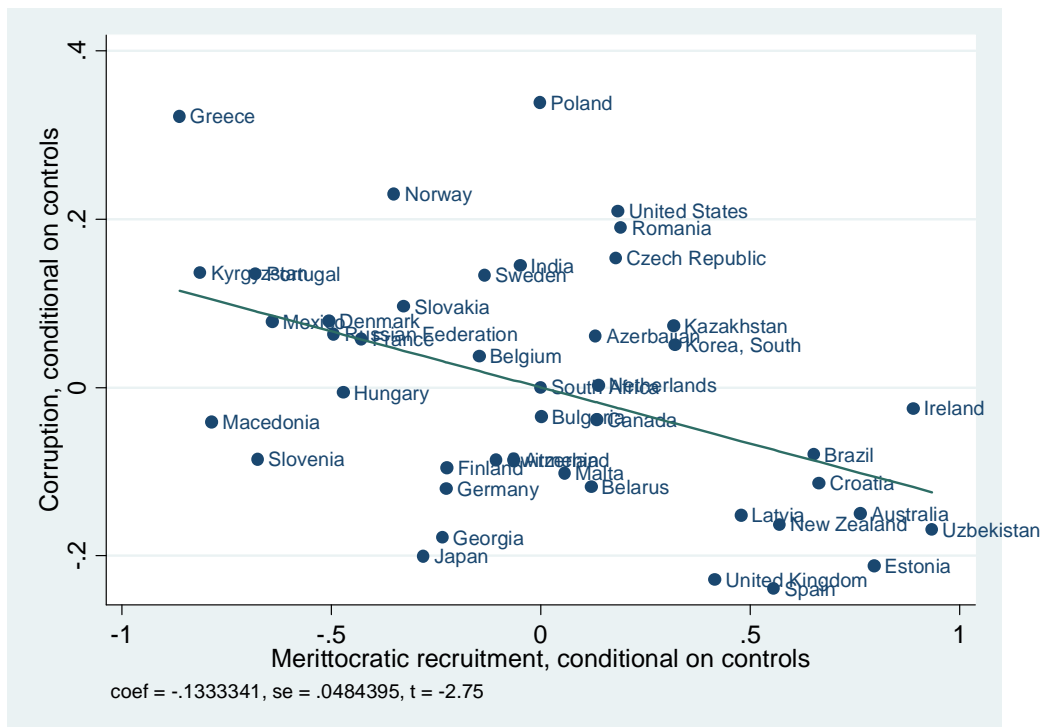
**Figure 3. Competitive Salaries (country scores)**



**Figure 4a. Partial regression plot**



**Figure 4b. Partial regression plot, excluding Albania, Italy & Iceland**



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