Who Wants To Revise Privatization?

The Complementarity of Market Skills and Institutions

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Abstract:

Using survey data from 28 transition countries, we test for the complementarity and substitutability of market-relevant skills and institutions. We show that democracy and good governance complement market skills in transition economies. Under autocracy and weak governance institutions there is no significant difference in support for revising privatization between high and low-skilled respondents. As the level of democracy and the quality of governance increases, the difference in the level of support for revising privatization between the high and low skilled grows dramatically. This finding contributes to our understanding of microfoundations of the politics of economic reform.

Introduction

The privatization of state enterprises has been a central element of economic reform over the last 25 years and by most, but, not all accounts, the beneficial effects of privatization have outweighed the costs (e.g., Guriev and Megginson 2007, Megginson and Netter 2001, McKenzie and Mookherjee 2003). Yet, for all its benefits, the public reviles privatization (Boix 2005, Graham and Sukhtankar 2004, Lora and Panizza 2003, Panizza and Yanez 2005). Survey results from 17 Latin American countries in 2003 found that almost two-thirds of respondents thought that privatization was "not beneficial" (Lora and Panizza 2003). A nationally-representative survey in Russia in 2006 revealed that fifty two percent of respondents agreed that "the majority of private assets in the country should be nationalized" (Denisova et al. 2007). Given the lack of public support, it is hardly surprising that recent years have seen significant reversals of privatization in Bolivia, Kazakhstan, Russia, Ukraine, Venezuela, Zimbabwe and elsewhere.

Why do some oppose and others support revising market reforms, such as privatization? Existing studies of public support for economic reform have focused almost exclusively on the impact of individual-level factors (e.g., Duch 1993; Gibson 1996; Kaltenthaler et al. 2006; but see Grosjean and Senik 2008(a,b) for studies of the effect of democracy). We advance the literature by examining how individual-level traits, such as market skills, interact with national-level factors, such as democracy and governance, in shaping support for economic reform. In particular, we test whether democracy and good governance complement market-relevant skills or substitute for them in transition countries. We use a survey of 28,000 individuals from 28 transition countries that is particularly well suited to study how individual characteristics and national institutions interact to shape attitudes towards market reform because it gathers rich individual-level information comparable across a relatively large number of reforming states with diverse

institutions. We focus on a crucial component of market reforms in transition countries, i.e., public support for revising privatization. We find that under autocracy and weak governance institutions, there is no significant difference in the levels of support for revising privatization between respondents with high market skills, i.e., entrepreneurs and professionals, and respondents with low market skills, i.e., non-entrepreneurs and non-professionals. However, as the level of democracy and the quality of governance increases, the difference in the level of support for revising privatization between individuals with high and low market skills grows dramatically. In democratic and well-governed countries, respondents with low market skills support revising privatization at a much higher rate than respondents with high market skills. Favorable institutional settings allow those with market-relevant skills to reap the full returns of their efforts and thereby bolster their support for economic reform. Thus, in the postcommunist transition, there exists an important complementarity of a good institutional environment and skills useful to economic reforms.

While many argue that groups who gain from economic reform, such as those with the skills most suited for a market economy, will be strong supporters of further economic reform (c.f., Fernandez and Rodrik 1991), our study indicates that under autocracy and weak governance institutions, the high skilled will be no more supportive of further economic reform than the low skilled. It is democracy and good governance that drives a wedge between the preferences over economic reform of those with high and low market skills. Thus, our findings help illuminate how democracy and good governance shape the microfoundations of the politics of economic policymaking: different coalitions may be

needed to advance economic reform under autocracy and weak governance, on the one hand, and under democracy and good governance, on the other.[3]

Our analysis underscores the importance of integrating national-level variables into analyses of individual-level preferences over economic policy. Recent years have seen a renewed interest in comparative political economy in this topic. For example, scholars have examined public attitudes toward trade openness, welfare policy, economic reform, and integration into the European Union in a broad range of countries (c.f., Hiscox 2002; Iversen and Soskice, 2001; Baker 2003; Tucker 2006).[4] These studies have made valuable contributions, but have not explored whether and how preferences vary depending on the institutional environment. We push this literature forward by identifying the complementarity of national-level institutions and individual skills for public support for economic reforms.[5]

In Part 1, we develop an argument about the interplay of individual and institutional-level factors in determining support for revising privatization. In Part 2, we discuss the data and measures. In Part 3, we present our empirical methodology. In Part 4, we discuss our results. In Part 5, we present robustness checks. In Part 6, we conclude.

1. Hypotheses: Skills and Institutions

The literature on the politics of economic reform typically assumes that people evaluate policy *ex ante* based on its expected impact on their personal welfare and *ex post*

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[3] For studies of public support for economic reform in the postcommunist world, see Tucker (2006); for Latin America, see Baker (2003); for a more general argument, see Stokes et al. (2001).

[4] One potentially relevant area of overlap with our study is those works in the varieties of capitalism literature that examine how the institutional environment shapes incentives to invest in specific or general skills (c.f, Iversen and Soskice 2001; Mares 2003).

[5] For studies that integrate national-level variables into analyses of individual-level preferences on other issues, see, among others, Steenbergen and Jones (2002); Anderson and Tverdova (2003); Duch and Stevenson (2005); and Huber et al. (2005).

based on the realized return from the policy (c.f. Fernandez and Rodrik 1991; Roland 2000).[6] Individuals who gain (or expect to gain) from a change in policy are likely to back the change in policy, while those who lose (or expect to lose) oppose it.[7] This is a central assumption that drives much of the theoretical literature on the political economy of reform and has been the subject of considerable empirical scrutiny (c.f., Przeworski 1991; Tucker, Pacek and Berinsky 2002; Baker 2003).

Scholars have identified a variety of individual traits that influence who benefits from economic reforms, such as market liberalization and privatization. These include skills, socio-economic status, and location. Our primary focus is on skills relevant to a market economy based on the idea that higher levels of market skills are associated with greater returns to economic reform and, therefore, more vigorous support for reform. Indeed, there is solid evidence that economic reforms are related to differential rates of returns to market-relevant skills in transition economies (e.g., Brainerd 1998; Svejnar 1999). In particular, returns to skills comprise an important component of wage decompression in reforming economies (e.g., Milanovic 1999). If under a planned economy, returns to market skills were diminished by massive redistribution, the expanded opportunities offered by economic reform allow those with the skills most suited to a market economy to reap larger gains. The argument is even stronger with respect to

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[6] There is a large literature on whether citizens evaluate policy and vote based on prospective or retrospective evaluations (c.f., Fiorina 1981; Fernandez and Rodrik 1991). Respondents in our sample likely evaluate policy based on the effect of privatization which has already taken place and based on the expected future benefits from changing current policy, but we do not explore the relative weights of these factors in their responses. See Stokes et al. (2001) for a discussion of retrospective and prospective evaluations of economic reform.

[7] Of course, personal pocketbook issues are not the only factor influencing support for policy, but there is much evidence that these types of individual material calculations are an important consideration. For a discussion of this issue relevant to the politics of economic reform, see Colton (2000), pp. 94-95, and Stokes et al. (2001), pp. 1-32.

entrepreneurial skills which were not at all in demand in a command economy (e.g., Earle and Sakova 2000). Building on this notion, we expect those with skills most suited to a market economy to be the strongest proponents of market reform.

Yet, little is known about whether the impact of market skills on support for economic reform depends on the institutional environment. Indeed, there are two alternative views of how private returns to skills from market-oriented reforms interact with the institutional environment. The ability to realize gains from market-relevant skills may depend on the extent to which institutions reward those talents. Theoretically, good institutions may be complements or substitutes for the private returns from economic reform.

1.1. Complementarity view

Consider the argument for complementarity. It envisions democracy and good governance institutions primarily as a means of constraining rulers from changing policy opportunistically and engaging in corruption and rent extraction, thereby allowing citizens to realize greater gains from economic reforms (c.f., Zinnes, Eliat and Sachs 2001; Acemoglu and Robinson 2006). Secure in the knowledge that state officials are more constrained by democratic practices and capable governance institutions, those with the skills most suited to a market economy can use their talents to their greatest effect. Low skill citizens may still benefit from good governance and democracy, but their returns from reform will be lower than for high skill citizens. Given the greater returns to market skills from economic reform under good institutions, the high skilled will be stronger proponents of market reforms than the low skilled.

In weak institutional environments the complementarity view suggests that the difference in the responses between those with high and low market skills will be much smaller. Weak institutions may prevent individuals with high market skills from realizing

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their potential returns from market reform, and, therefore, they may be much less enthusiastic about supporting economic reform. For example, under autocracy and weak governance institutions, the returns from market skills may not be realized because government officials are well-placed to take them away through corruption, excessive taxation, and other means of rent-extraction. In these environments, individuals with high market skills and low market skills will both be reluctant to invest the time, energy, and capital to take full advantage of reform fearing arbitrary changes in policy, corruption, and simple government malfeasance. Thus, there is likely to be little difference in the assessment of economic reform between high and low skilled respondents.

According to the complementarity view, democracy and strong governance institutions drive a wedge between the preferences of those with high and low market skills toward economic reform. This view predicts significantly larger differences in the attitudes towards economic reform between those with and without market skills under good institutions than under bad institutions.

1.2. Substitutability view

In contrast, the substitutability argument envisions democracy and good governance institutions primarily as increasing the motives and means for governments to engage in redistribution. It predicts that when democracy and governance institutions are strong, the differences in support for market reform between the low and high skilled will be smaller. Democracy increases incentives to use policy to redistribute benefits to groups harmed by economic reform and good governance institutions can increase state capacity to deliver these benefits. The gains from economic reform may be distributed more evenly across the population under democracy and good governance because those who gain little from economic reform are better compensated through redistribution paid for by those who gain more from economic reforms. This argument has particular bite when the benefits of

economic reform accrue to a small minority (Meltzer and Richard 1981; Alesina and Rodrik 1994). Under good institutional conditions, individuals whose skills are most appropriate for the market will be less fervent supporters of economic reform and those whose skills are less well suited to a market economy will be less strident opponents of reform due to redistribution.

According to the substitutability view, good institutions substitute for market skill differences in shaping public support for economic reform; and, therefore we expect smaller differences in the assessment of economic reform between individuals with different levels of market skills in good compared to bad institutional environments.

We test the complementarity and substitutability views by comparing the actual levels of popular support for revising market reforms for groups with high and low market skills in good and bad institutional environments. Our approach has an attractive feature: because we consider attitudes towards economic reform ex post, i.e., the attitudes of individuals who have already realized the gains and losses from economic reform, it implicitly takes into account the possibility of redistribution and government predation. Potential winners may gain little from economic reform because the (potential) gains may be redistributed or simply taxed away by subsequent government policy. Thus, we treat the ex-post individual assessment of reform as a proxy for the realized net effect of policy change on the welfare of the individual.

2. Data sources and summary

2.1. A measure of support for economic reform

To study public support for economic reform, we focus on a critical component of building a market economy in transition countries: the privatization of state enterprises (Boycko et al. 1995; Megginson 2005). We use the "Life in Transition Survey" (LiTS), a survey based on face-to-face interviews using a representative sample of 1,000 individuals

in each of 28 postcommunist countries conducted in the fall of 2006.[8] More specifically,

we focus on responses to the following question from the survey:

In your opinion, what should be done with most privatized companies? They should be…
(1) Left in the hands of current owners with no change;
(2) Left in the hands of current owners provided they pay privatized assets' worth;
(3) Renationalized and kept in state hands;
(4) Renationalized and then re-privatized again using a more transparent process.

Figure 1 here.

Figure 1 summarizes responses to this question. We dichotomize the responses by

treating answers 1 and 2 as indicating opposition to revising privatization and responses 3

and 4 as signaling support for revising privatization. For our purposes, the critical

distinction between these two groups is that the latter two responses entail the expropriation

of privatized assets held by current owners – either by re-nationalization or by re-

nationalization then re-privatization, while the former two responses allow the current

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[8] The survey was conducted by the European Bank for Reconstruction and Development (EBRD) in collaboration with the World Bank. For technical details of the survey, see EBRD (2007 a, b). Countries included in the study are Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, FYR Macedonia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Mongolia, Montenegro, Poland, Romania, Russia, Serbia, Slovak Republic, Slovenia, Tajikistan, Ukraine, and Uzbekistan.

owners to retain their assets.[9]   Support for the revision of privatization is the main dependent variable in our empirical analysis.[10]

On average, 46.7 percent of respondents in all countries support revising privatization by taking assets from the current owners either through renationalization or renationalization followed by re-privatization. This figure varies considerably across countries: from 67.8 percent in Azerbaijan to 24.8 percent in the Czech Republic. The majority of the population supports revising privatization in eleven out of twenty-eight countries in our sample.   Differences in question wording make direct comparisons with other surveys difficult, but these results are not too dissimilar from recent studies from Latin America. For example, Panizza and Yanez (2005) cite *LatinoBarometer* data from 17 countries in 1998 which finds that 50 percent of respondents believed that "privatization was not beneficial for the country," a figure that rises to over 65 percent in 2003.

We focus on support for revising privatization for several reasons. First, privatization is a key component of economic reforms in transition and developing countries, and removing assets from the hands of current owners marks a significant

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[9] Note that response 2 does not indicate the size of the payment that current owners should make. Therefore, we choose to be conservative and treat response 2 as support for the status quo, as the payment may just be an indication of respondent's preference for increased taxation. This question has a number of shortcomings. In particular, it refers to "most" privatized enterprises rather than offering a more precise wording. It would also be improved with a filter that asked whether anything should be done about privatized enterprises before listing the responses. The order of the responses minimizes the problem somewhat by offering the status quo as the first response.

[10] Taking into account refusals, failures to locate respondents, and other administrative difficulties, the response rate for this survey is 63%, a rate that is roughly equivalent to the response rate of the widely used National Election Studies in the US and the American Time Use Survey (Singer 2002). The non-response rates varied significantly across countries. However, the overall non-response rates as well as outright refusal rates are uncorrelated across countries with our main dependent variable, i.e., the support for revising privatization.

change in the economic and political environment. Even the threat of revising privatization can have important economic consequences by weakening the incentives of current owners to invest in their business. Second, privatization and its possible revision are high profile policies that have engendered great public debate which increases the likelihood that respondents have given the issue some thought. Third, the survey has a relatively clean question on support for and opposition to revising privatization that is comparable across countries. Our empirical results are unchanged when we use a more general question from the survey which asks directly about "support for a market economy" as a dependent variable, but we prefer to focus on the revision of privatization as a more concrete example of support for economic reforms (as we discuss in the robustness section below).[11]

2.2. Measures of market-relevant skills

Our main focus is on market-relevant skills. We proxy for them in two ways relying on the type of jobs respondents hold and on their professions:

(1) First, we consider those who have become entrepreneurs and self-employed during the transition as having skills particularly suitable for market economy. Economic reform gives new entrepreneurs an opportunity to reveal their market skills – talents that were not in demand before transition.

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[11] Studies from the post-communist world have examined attitudes towards market economies or the private sector more generally, but few focus directly on the privatization of state-owned enterprises (c.f., Duch 1993). Hoff and Stiglitz (2008) present a formal model that incorporates the revision of privatization as a parameter, but offer only illustrative evidence. Frye (2006, 2007) uses an experiment embedded in surveys of business elites and the mass public in Russia to examine support for revising privatization, but his findings are limited to a single country and focus on only a few variables of interest. Kaltenthaler et al. (2006) estimate individual-level determinants of privatization support in seven post-Soviet countries, but do not account for cross-country differences in the quality of institutions. There is a very large literature on the politics of privatization in the postcommunist world, but much of it focuses on elite decisionmaking rather than mass support for the policy (c.f., Shleifer and Treisman 2000; Appel 2004).

(2) Second, we deem those respondents who hold high managerial positions and work as top-level professionals (i.e., groups 1 and 2 in the 1-digit Standard Occupational Classification 2000) as having high levels of market-relevant skills. Top level professionals and company managers have skills especially rewarded in a market economy where the wage distribution is substantially less compressed than in a command economy. We refer to these occupations as professionals in our analysis.[12]

Seven percent of respondents are entrepreneurs and ten percent are professionals in our sample. The rest of respondents work for wages in the occupational groups 3 to 9 or do not work.[13] By construction, there is no overlap in these two groups, i.e., entrepreneurs and professionals; but we argue that both groups have skills with potentially high returns under a market economy.

Other conventional measures of human capital, such as education and experience (proxied by age), are poor indicators of *market* skills in a postcommunist environment.

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[12] These occupations include legislators, senior government officials, enterprise managers, director/chief executives, owners of businesses, physicists, engineers, mathematicians, architects, computing professionals, medical doctors, dentists, pharmacists, teachers, lawyers, accountants, professionals and similar occupations.

[13] Some questions in the survey are rather demanding for respondents. For example, the technical appendix of the LiTS notes that in some cases interviewers provided guidance to some respondents in describing their employment history and their occupation. It is possible that interviewers provided guidance on other questions as well, but we have no way of detecting if this is the case. This possibility introduces the potential for interviewer bias, particularly among respondents with lower education. We address this issue in two ways. First, we control for education in our analysis. Second, we verified that the distributions of occupations for the one case where we have comparable data (Russia) are similar between LiTS and the Russian Longitudinal Monitoring Survey (RLMS). RLMS applies a methodology, which is much less demanding for respondents: their verbal answers are recorded and then placed into occupational categories after the survey is completed.

Much of the work experience gained by those who worked for many years under the command economy is likely to be of little value in a more open market economy (Guriev and Zhuravskaya 2009). Similarly, education, particularly vocational education, prior to 1990 (and in some cases for several years after) was designed to prepare citizens to perform tasks relevant to a planned economy – tasks that are largely obsolete in a market environment. Note that we always control for these common measures of human capital in our analysis.

2.3. Measures of the institutional environment

Our focus is on whether the impact of market skills on support for economic reform is contingent on the level of democracy and the quality of governance. Given disagreement about how best to measure democracy, we use four indicators, including the executive constraints and democracy measures from POLITY IV, the voice measure from Kaufmann et al. (2006), and the Freedom House Nations in Transit index (democracy progress score). Each of these commonly used measures of democracy has strengths and weaknesses. The two POLITY measures are based on relatively less subjective indicators, but the rating for executive constraints has a rather low ceiling.[14] The Freedom House measure seems to provide a closer fit with the secondary literature in the transition countries than the POLITY measures, but is based on rather subjective measures. The voice measure from Kaufmann et al. (2006) is also based in part on subjective measures as captured by national-level surveys. Our measures of governance quality also come from Kaufmann et al. (2006). We use the following indices: government effectiveness, the rule of law, control over corruption, and regulatory quality. Even though there are 28 countries in the LiTS

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[14] In our data, more than half the countries have the highest or second highest level of executive constraint on the 1-7 scale. See Treier and Jackman (2008) for a discussion of drawbacks of the POLITY IV continuous measures of democracy.

survey, most of the institutional measures are not available for Montenegro; in addition, the POLITY measures are not available for Bosnia. As a consequence, our sample consists of 27 countries (or 26 when we use the Democracy Index). We describe and summarize each of our main variables of interest as well as all control variables (to be introduced below) in Tables A1 and A2 in Appendix A.

3. Empirical Methodology

To test our hypotheses about the complementarity or substitutability of market-relevant skills and democracy and governance institutions, we compare individual support for revising privatization between groups which do and do not have market-relevant skills in good and bad institutional environments controlling for a wide range of individual and country characteristics.

As a first step (before we proceed to the core of our analysis), we want to establish the benchmark of an average effect of market-relevant skills on support for revising privatization controlling for all country-level variation. For that purpose, we conduct the following Probit estimation:

$$Prob\{R_i = 1\} = F(\alpha + \beta_1 E_i + \gamma_1 P_i + \boldsymbol{\delta}' \mathbf{X}_i + \varphi_c + \varepsilon_i), \tag{1}$$

where i indexes individuals and c indexes countries in which individual i lives; R_i is a dummy which equals one if the individual i supports revising privatization; E_i is a dummy indicating entrepreneurs and self-employed; and P_i is a dummy indicating individuals working as professionals and top managers. φ_c is a country fixed effect. $\mathbf{X}_i$ is a vector of individual covariates; it includes a range of factors that may shape support for economic reform and may be correlated with market-relevant skills. The LiTS data offer a rich set of control variables related to individuals' transition experiences, including labor market history and hardships that individuals experienced between 1989 and 2006. In particular,

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we control for how long the respondents worked for wages in the state and private sectors, the number of different jobs they held, the number of years that respondents experienced food cuts, wage arrears, and whether they had to sell household assets to make ends meet. The list of individual controls also includes various proxies for relative and absolute income and wealth of the respondent, as well as the respondent's perception of his or her position in the wealth distribution from the beginning of transition to 2006. In addition, we control for age, education level, gender, location of residence (rural vs. urban vs. metropolitan area), religion, whether the respondent belongs to an ethnic minority, and current labor market status (employed vs. unemployed).

In this specification, we use bootstrapped standard errors adjusted for clustering of a heteroscedastic error term at the level of primary sampling units (PSUs), i.e., 50 residential locations drawn at random within each country.[15] Equation (1) estimates the average effects of market-relevant skills on the support of privatization revision, β_1 and γ_1, which are expected to be negative.

3.1 National Institutions and Individual Skills

Our primary interest, however, is in whether the effect of market-relevant skills on support for revising privatization depends on a country's institutional environment. Thus, as a second step in our analysis, we introduce interaction effects between variables measuring democracy and governance institutions and variables measuring market skills. Since this approach requires the use of variables measured at two different levels, i.e.,

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[15] The sample selection consisted of two stages. First, 50 primary sampling units (PSUs) were randomly selected in each country based on information from the most recent census in the country. Second, 20 households were selected at random from each PSU. Within each household, the head of the household (or another knowledgeable household member) responded to the questions on aspects of material well-being, while for the other questions one household member (aged 18 or over) was randomly selected to respond.

individual and country-level, we estimate three alternative models designed to handle multi-level data, each of which has its desirable and undesirable features. We begin with a Probit model with country fixed effects, which is a direct generalization of equation (1):

$$Prob\{R_i = 1\} = F\left(\alpha + \beta_1 E_i + \beta_2 E_i I_c^d + \gamma_1 P_i + \gamma_2 P_i I_c^d + \boldsymbol{\delta}' \mathbf{X}_i + \varphi_c + \varepsilon_i\right),\ (2)$$

where I_c denotes a particular measure of institutional environment of country c (i.e., one of our proxies for democracy or governance quality). Superscript d at I_c indicates that we subtract the overall sample mean from the institutional measure I_c before taking the cross-term in order for β_1 and γ_1 to have the same interpretation as in (1), i.e., the effect of market-relevant skills evaluated at the average level of the institutional environment. We include institutional measures in these regressions one-by-one, because they are highly correlated with each other and consider them simply as alternative measures of democracy and governance quality. The rest of the notation and the assumptions about the variance-covariance matrix are unchanged.

The coefficients on the interaction terms, β_2 and γ_2, test for the complementarity and the substitutability of institution I with individual market skills. If they have the same sign as the direct effect of market skills (i.e., are negative), we would conclude that there is a complementarity of skills and institutions. In contrast, if β_2 and γ_2 have the opposite sign of the direct effect of market skills (i.e., are positive), then, skills and institutions are substitutes.

In addition, in order to highlight the direct effect of institutions, I, we estimate a probit model without country fixed effects, but with the direct effect of I as an additional covariate. In the following specification, we cluster the error term at the level of countries which is necessary as we include national-level variables in the list of covariates. As above, standard errors are bootstrapped.

$$Prob\{R_i = 1\} = F\left(\alpha + \beta_1 E_i + \beta_2 E_i I_c^d + \gamma_1 P_i + \gamma_2 P_i I_c^d + \theta I_c + \boldsymbol{\delta}' \mathbf{X}_i + \boldsymbol{\mu}' \mathbf{Z}_c + \varepsilon_i\right). \quad (3)$$

Since equation (3) omits country fixed effects, we control for the following national-level

variables ($\mathbf{Z}_c$): the extent of country's large and small privatization in 2006 as measured by

the EBRD and the log per capita GDP averaged for 1999-2006, as both income and the

extent of privatization may shape the support for revising privatization.[16] The estimation of

the parameter θ in (3) is purely auxiliary because institutions are likely endogenous to

public attitudes towards market reforms and we do not claim to establish direct causality

from the level of institutions to support for privatization revision. We discuss this issue (as

well as the effect of the endogeneity of institutions for the estimation of our parameters of

interest) in detail in the next subsection.

Estimating equation (3) with a probit model has the advantage of simplicity and

ease of computation, but only partially recognizes the nested structure of the data:

responses from many individuals who reside in a small number of countries (Leoni 2009).[17]

To make sure that our results are not driven by potential problems with the probit

estimation of the variance-covariance matrix, we estimate equation (3) using two additional

methods. First, we estimate a one-step two-level model using a Generalized Linear Latent

and Mixed Model (GLLAMM) which takes into account that the data reside in two-levels

(Rabe-Hesketh and Skrondal 2008). Finally, we estimate a two-step model which also

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[16] We also investigated the direct effect and the interaction with market skills of the following
potentially important national-level variables: inequality, growth, type and mode of privatization
(e.g., insider vs. outsider; voucher vs. direct sales), years since privatization. None of them had a
robust effect on support for revising privatization or had any effect on our main findings. We
discuss this in the robustness section below.

[17] Clustering of standard errors is designed for data sets with a relatively small number of
observations drawn from many groups. In the case when the unmeasured residual country-level
variance is trivial, clustered standard errors perform well, but in the presence of large unmeasured
residual country-level variance, this approach produces biased standard errors (Leoni 2009).

accounts for the nested structure of the data (Huber et al. 2005).[18] This procedure begins by estimating a probit model for each country using individual-level predictors, gathers the coefficients on the constants and individual-level variables which are then used as the dependent variables in second stage estimations with national-level variables as predictors (one at a time). The estimates of the national-level variables are weighted in accordance with the precision of the first-level estimates (Borjas and Sueyoshi 1994). This method is less efficient than one-step estimators, such as GLLAMM, but requires fewer distributional assumptions about the data (Beck 2005; Leoni 2009). Both GLLAMM and the two-step method take into account the fact that we have only 27 country-level observations of the institutional environment. To the extent that the results are consistent across estimation procedures, we are more confident in them.

3.2 Endogeneity of Institutions

There are a number of reasons to believe that the level of democracy and the quality of governance institutions are endogenous to public support of market reforms in general and of privatization in particular.[19] Most importantly, crucial omitted variables, such as the quality and timing of reforms themselves, are likely correlated with both the quality of the institutional environment and public support for reforms. One can also argue that reverse causality is a potential problem for estimating the direct effect of institutions on public attitudes towards privatization as many of the institutional quality indices are themselves a compilation of survey responses, which to some extent may have been based on expert or public assessments of privatization. Note that this particular source of endogeneity is probably less damaging for the democracy variables than for the governance indicators as

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[18] For discussions of multi-level data analysis see the special issue of *Political Analysis* vol. 13, 4, (2005), which is dedicated to multi-level models, and Gelman and Hill (2007).

[19] See Grosjean and Senik (2008a) for an interesting approach to finding a source of exogenous variation in democracy.

experts and survey respondents can more easily distinguish between privatization and political rights; moreover, POLITY IV measures of democracy do not include survey responses.

Our main focus, however, is on the interaction between the (endogenous) institutional variables and our measures of market-relevant skills conditional on the effect of the institutional environment (either by controlling for country fixed effects or by the direct inclusion of institutional covariates). Our main identification assumption is that omitted variables and other potential sources of endogeneity of the institutional environment affect responses of individuals with high and low market skills to the same extent irrespective of the institutional environment. Thus, under this assumption, we can estimate the difference-in-differences effect of the interaction between market skills and institutions without a bias by comparing the difference in the support of market reforms between groups with low and high market skills in good and bad institutional environments.

Table 1 here

4. Results

4.1. Benchmark: Market skills in an average institutional environment

Table 1 presents the results of an estimation using individual-level factors as independent variables and controlling for all country-level variation (including institutions) with country fixed effects. Most importantly, we find that our measures of market skills are good predictors of support for the privatization status quo. Being a professional decreases the probability of supporting the revision of privatization on average by 4.1 percentage points. In addition, new entrepreneurs are on average 5.1 percentage points less likely to support revision of privatization than non-entrepreneurs. Thus, controlling for other

factors, individuals with skills suited for an economy with extensive private ownership are especially likely to oppose revising privatization.

The relationship between other measures of human capital and attitudes toward revising privatization is weaker. This is, perhaps, because in transition economies these measures do not reflect the possession of skills specific to a market economy. Most notably, the level of education is statistically insignificant.[20] Age – often used in the literature as a proxy for experience – is positively related to support for revising privatization. The most likely reason for this relationship is that experience under a command economy does not help adjusting to new market conditions (e.g., Guriev and Zhuravskaya 2009). Note that the results are unchanged if we include a squared term for age in the list of regressors.

In addition, we find that employment trajectories are related to support for revising privatization. Respondents who held more jobs are more likely to favor revising privatization, while those who worked longer in the private sector are more vigorous opponents of revising privatization. Individuals who experienced extensive economic hardships related to transition are significantly more likely to favor revising privatization. Respondents from higher consumption deciles and those who own a home or an apartment and those moved up the wealth ladder during the transition support the revision of privatization significantly less than their counterparts with lower incomes and wealth and a

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[20] In an alternative specification with dummies for each level of education, only the holders of a university degree have significantly lower support for revising privatization than all other education groups. Note that all of the top managers and professionals are in that category; nonetheless, the coefficient on the dummy indicating top-level managers and professionals remains significant in this specification. Results from Latin America are inconclusive about the impact of education on support for privatization (Boix 2005, Graham and Sukhtankar 2004, Lora and Panizza 2003, Panizza and Yanez 2005).

less positive wealth trajectory during transition. The unemployed are significantly more likely to support a revision of privatization than the employed.[21]

Table 2 here

4.2. Market skills in different institutional environments

We now turn to the most important part of our analysis, i.e., testing for the complementarity or substitutability of democracy and good governance with market skills of individuals. We begin by exploring the impact of market skills conditional on the level of democracy and governance using single-stage estimations in Table 2. The first two columns present coefficients and marginal effects of the interaction terms between measures of market skills and institutions from the probit estimations with country fixed effects (i.e., equation 2). The top panel of the table presents results for democracy; and the lower panel for governance institutions. The results are consistent with the view that both democracy and good governance institutions complement private returns to skill from economic reform. In regressions for all our measures of institutions without exception, the coefficients on the interaction terms between the relevant institution, on the one hand, and the dummy variables for entrepreneur and for professional or top manager, on the other hand, are negative and statistically significant. Therefore, as democratic institutions grow stronger and governance improves, the difference in the support for revising privatization between groups with high market skills and low market skills increases: those with market

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[21] That respondents in transition countries appear to be able to evaluate privatization in line with their material interests is an interesting finding. While privatization is a high profile policy that is often discussed in the media, it is also a technically complex policy that is a "hard" issue for the public to decipher (Carmines and Stimson 1980). Moreover, recent analyses of public support for privatization from Latin America produce few consistent results (Boix 2005, Graham and Sukhtankar 2004, Lora and Panizza 2003, Panizza and Yanez 2005).

skills become stronger opponents of the revision of privatization relative to those without market skills.

In Columns 3 and 4, we report results from a probit estimation without country fixed effects but with the direct effect of the relevant institution included and clusters by country (i.e., equation 3). The results comport well with the results based on the fixed effects estimation. Again, all interaction terms are negative and statistically significant (with one exception: the coefficient on the interaction between professionals and executive constraints is negative but insignificant). In Column 5, we repeat this estimation using GLLAMM, and despite the small number of second-level observations, the results again are consistent. Overall, the results strongly support the complementarity argument.

Figure 2 here

To illustrate the magnitude of our results, we predict probabilities of support for revising privatization with their confidence intervals for groups with high and low market skills at each level of institutional quality using Monte Carlo simulations. The simulations are based on a probit estimation similar to the one reported in Columns 3 and 4 of table 2 (i.e., equation 3).[22] Using the results of these simulations, we generated a series of graphs. Figure 2 illustrates the differences in the predicted probability of support for the revision of privatization for individuals with and without market skills under varying levels of democracy as measured by POLITY IV's executive constraints variable. The graphs in the left column from the top to the bottom present predicted probabilities of support for revising privatization for 1) professionals compared to non-professionals, 2) entrepreneurs compared to non-entrepreneurs, and 3) a group of entrepreneurs and professionals

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[22] The only difference is that simulations use clustering at the level of PSUs rather than countries. For these simulations, we use Clarify software designed by King, Tomz, and Wittenberg 2000; it does not allow the use of clusters by country as there are only 27 countries. As reported in Table 2, the results are generally robust to clustering by country and by PSU.

compared to a group of non-entrepreneurs and non-professionals for each possible level of constraints on executives (in the range present in our data). The graphs in the right column depict the change in the predicted probability of supporting a revision of privatization associated with a move from 1) a professional to a non-professional, 2) an entrepreneur to a non-entrepreneur, 3) and an entrepreneur or a professional to a non-entrepreneur and non-professional, for each level of executive constraints with 95 percent confidence intervals.

The first thing to note from these graphs is that at low levels of democracy there is no appreciable difference in the attitudes towards the revision of privatization between professionals and non-professional and between entrepreneurs and non-entrepreneurs – groups with and without market skills have very high levels of support for revising privatization. At the lowest level of constraints on executives (i.e., as in Uzbekistan), the rate of support for the revision of privatization is at its peak (70 percent) for all groups regardless of market skills. As democracy becomes more robust, market skills begin to matter. For example, when the executive constraint score is at its maximum, which is the modal value for countries in our sample, moving from a professional to a non-professional increases the probability of supporting the revision of privatization by 5 percentage points and moving from an entrepreneur to a non-entrepreneur increases this probability by 10 percentage points. The effect of market skills is especially pronounced if we compare the support for revising privatization between entrepreneurs and professionals as one group and non-entrepreneurs and non-professionals as the other group, as we do in the bottom row of Figure 2. When the executive constraints measure is at its peak, a change from being either an entrepreneur or a professional to being a non-professional non-entrepreneur is associated with an increase in the predicted probability of support for revising privatization of about 15 percentage points (with 10 being the lower bound of the 95 percent confidence interval). At this level of democracy, 40 percent of individuals in the group with low market skills

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support revising privatization; whereas the rate of support for revising privatization is only about 25 percent among those with high market skills. The bottom right graph shows that if the executive constraint measure falls below 4 (the level of Russia), the differences in attitudes towards privatization are not statistically significant for those with and without market skills; whereas for a level of constraints on executives above the level of Russia, these differences are statistically significant.

Figure 3 here

Similar graphs in Figure 3 illustrate the results for regulatory quality. Again, we see that the difference in the rate of support for the revision of privatization between non-professionals and professionals and between non-entrepreneurs and entrepreneurs increases with the quality of the regulatory environment. More specifically, as shown in the top row of the figure, moving from a professional to a non-professional increases the probability of supporting a revision of privatization by about 2 percentage points when regulatory quality is at the 25th percentile (-0.69, which is approximately equal to the level of regulatory quality in Georgia) and by about 7 percentage points when regulatory quality is at the 75th percentile (0.66, which is approximately the level of Slovak Republic). The middle row indicates that an increase in support for the privatization status quo associated with moving from an entrepreneur to a non-entrepreneur is even more striking. At the level of regulatory quality of Georgia, becoming an entrepreneur decreases support for revising privatization by about 5 percentage points, but at the level of regulatory quality of the Slovak Republic, this decrease is roughly 12 percentage points. The graphs in the bottom row, again, indicate that the greatest differences emerge if we combine different aspects of market skills (i.e., professional status and entrepreneurship). The corresponding figures are 7 and 18 percentage points, respectively. For the highest level of regulatory quality in our sample (Estonia), the rate of support for revising privatization is 35 percent for the group with no

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market skills, whereas it is 15 percent for the group with market skills. The differences in support for revising privatization for the two groups become statistically significant at the level of regulatory quality above Azerbaijan (-0.85). The results using other measures of democracy and quality of governance are similar.

Table 3 Here

Finally, we report estimations of support for revising privatization using the two-stage method as suggested by Huber et al. (2005). Table 3 presents coefficients from the second-stage estimation. The top panel reports results using the measures of democracy and the bottom panel for the quality of governance measures. The results for interactions between market skills and institutions, reported in Columns 3 and 4, are somewhat weaker but consistent in certain respects with the probit and the GLLAMM results (reported in Table 2). The coefficients on the interaction between the measures of democracy and the dummy variable for entrepreneurship reported are always negative, but reach conventional levels of significance in only two of four regressions (Column 3). (In a third regression the p-value of the estimated coefficient is 0.12.) The coefficients on the interaction terms between our four measures of democracy and a dummy variable for professionals and top managers have the correct signs, but are statistically insignificant (Column 4).

The coefficients on the interaction terms of our measures of governance and the dummy variables for entrepreneurs have the correct sign, but do not approach statistical significance (Column 3). In contrast, the coefficients on the interaction terms between the four governance measures and the dummy for professionals and top managers are always significant and negative. It is important to note that the loss of statistical power is expected given the limitations of having very few (26 to 27) observations in the second-stage regressions. Overall, a consistent pattern of results emerges from the three different

estimation procedures, which supports the view of complementarity of skills and institutions.

4.3. Direct effect of institutional environment

Thus far we have examined the impact of market skills on support for revising privatization under varying institutional environments, but have not looked at whether institutions themselves are correlated with support for the revision of privatization. If democracy and good governance institutions help the population at large to gain from reform, then one might expect these national-level variables to be negatively associated with support for the revision of privatization.[23] The two-stage model advocated by Huber et al. (2005) permits an exploration of the direct effects of the national-level variables on individual-level responses. The estimates of the effect of national-level variables in the two-stage method are not invariant to the scaling of the individual-level variables. As the income distributions and demographic structures of the population vary substantially across countries in our sample, we present the results for an average respondent in each country in Column 1 of Table 3 and for a respondent who is a 40-year old female from the 5th income decile in Column 2 of Table 3. Each of our four measures of democracy and governance significantly reduce the levels of support for revising privatization for a 40-year old female; and this is also true for an average respondent with the exception of the insignificant effect of the democracy index. Thus, on average citizens in more democratic and better governed countries express lower levels of support for revising privatization.[24]

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[23] This view is consistent with the complementarity argument. Both low and high skilled benefit from economic reform, but the high skilled benefit more under good governance and democracy, and therefore are more ardent supporters of the privatization status quo.

[24] These estimates of the direct effects are consistent with the results of other estimation procedures, i.e., GLLAMM and probit, reported in Table 2 and Table A3. Table A3 in the appendix reports GLLAMM and probit results without the interaction terms. Here, the only difference with other

The results on the direct effects of institutions are merely suggestive of correlations and limited in at least two important respects. First, and most importantly, institutions are endogenous (as we discuss in the Section 3.2). Second, the number of second-level observations (countries) is relatively small.

5. Robustness Checks

In the main part of our analysis we focus on support for the revision of privatization as a critical component of opposition to economic reform, but our results apply to public attitudes towards the market more generally. In particular, the results hold if we use responses to the following question in the survey as a dependent variable:

With which of these statements do you agree with most:
1) A market economy is preferable to any other form of economic system;
2) Under some circumstances, a planned economy may be preferable to a market economy;
3) For people like me, it does not matter whether the economic system is organized as a market economy or as a planned economy.

We repeated our analysis using a dichotomous variable that equals 1 if the respondent chose options 2 or 3, and 0, if the respondent chose option 1. This measure is highly correlated in our baseline measure of support for revision of privatization (the correlation coefficient is about 0.18 with p-value substantially below one percent). The results are robust to using support for the market as a dependent variable. The signs of the coefficients of interest are always the same; the magnitudes of the coefficients are often a little smaller; but the coefficients remain statistically significant in the vast majority of cases. Note that some loss of statistical significance is to be expected given a larger measurement error in this question, which is more generally formulated and is not directly focused on reform per se, but on the existence of a market economy.

reported results is that in the probit estimations the coefficients of the direct effects of the governance variables are not statistically significant with the exception of control of corruption, which is marginally significant.

We also investigated whether institutions interact with other commonly used measures of human capital: education, age (as a proxy for experience), and health. No significant interactions effects were found. These results indicate that measures of human capital based on age and education are poor proxies for market-relevant skills in transition countries.

We further verified the robustness of our results by limiting the age of respondents to 60 and below to ensure that our results are not driven by the views of the retired population.

We also experimented with different model specifications. Because we have few second-level observations, we are somewhat limited in the number of independent variables that we can include in our estimations. Nevertheless, we also added variables for GDP growth from 1999-2006 and current levels of inequality to our estimations, but these variables were not significantly related to support for revising privatization and did not influence our main results. While our results do not indicate that the impact of market skill on support for reform is conditional on economic inequality, this result may be specific to the postcommunist cases. Where economic inequality is on average higher, as in Latin America, the incentives for politicians to redistribute the gains from reform obtained by the highly skilled may be stronger because the median voter is more likely to be low skilled (Meltzer and Richards 1981). This logic is more compatible with the substitution hypothesis. In contrast, where economic inequality is lower, as in much of Western Europe, the complementarity logic may have more bite.

We also examined whether the type of privatization (voucher versus non-voucher) or the method of privatization (sale versus give away) influenced support for revising privatization directly and through interaction with market skills. These variables were generally unrelated to support for the revision of privatization and did not change our

findings. However, capturing the type or method of privatization with a single measure is difficult and these measures are likely to be noisy.

We also repeated our analysis using interactions of our national-level variables with only one of the two measures of market skills at a time in separate estimations. For example, instead of including interactions for measures of democracy and entrepreneurship and for democracy and professionals in each equation, we only included the latter interaction. The levels of statistical significance of our main variables of interest in our estimations remain unchanged.

In addition, we applied a weighting scheme for the summary statistics to account for the fact that the LiTS data may be somewhat biased towards elderly and female respondents due to non-responses even though the sample was originally constructed to be representative. In the baseline regressions, we do not apply this weighting scheme, but instead, introduce controls for age and gender. When we use the weights in the regression analysis, the results do not change.

The results are also robust to dropping the two most authoritarian countries – Uzbekistan and Belarus – from the sample and to using the most recent values instead of the over-time averages for the institutional indicators.

Overall, our results prove to be robust.

6. Conclusion

Identifying the determinants of support for economic reform has been a central focus of recent research in comparative political economy, but most studies rely on data from too few countries to make it possible to analyze the impact of national-level institutions on individual preferences over policy. We take advantage of a new dataset that allows us to explore how democracy and good governance interact with market skills to shape preferences over economic policy in 28 postcommunist countries. We find that

under autocracy and bad governance, support for economic reform among individuals with market-relevant skills is not different than among individuals without market-relevant skills, but as quality of democracy and governance improves, the differences in support for economic reform between respondents with high and low market skills becomes large. Thus, market skills and good institutional environments are complements rather than substitutes. These results hold not only for public support for revising privatization, but also for a market economy more generally.

Our results indicate that theories of the politics of economic reform may benefit from a consideration of how the institutional environment influences individual preferences over policy. Most works implicitly assume that groups benefiting or poised to benefit from economic reform will support economic reform regardless of the institutional setting, but our findings indicate that preferences over economic policy are conditional on the quality of democracy and governance. That the impact of market skills depends on the institutional environment suggests that theories of the politics of economic reform that rely on those with more market-relevant skills to push for economic reform, may have limited relevance under autocracy and in weak institutional environments. This is a potentially important limitation as economic reforms are often introduced in precisely these settings. Our results indicate that constituencies in support of economic reform may differ under democracy and good governance on the one hand and under autocracy and bad governance on the other.

More generally, our study emphasizes the value of integrating national and individual-level variables in the study of support for economic policy. Whether these results extend to policies beyond economic reform or to other regions of the world is an open question, but analyzing how skills and institutions interact to shape support for policy change is an important agenda for future research.

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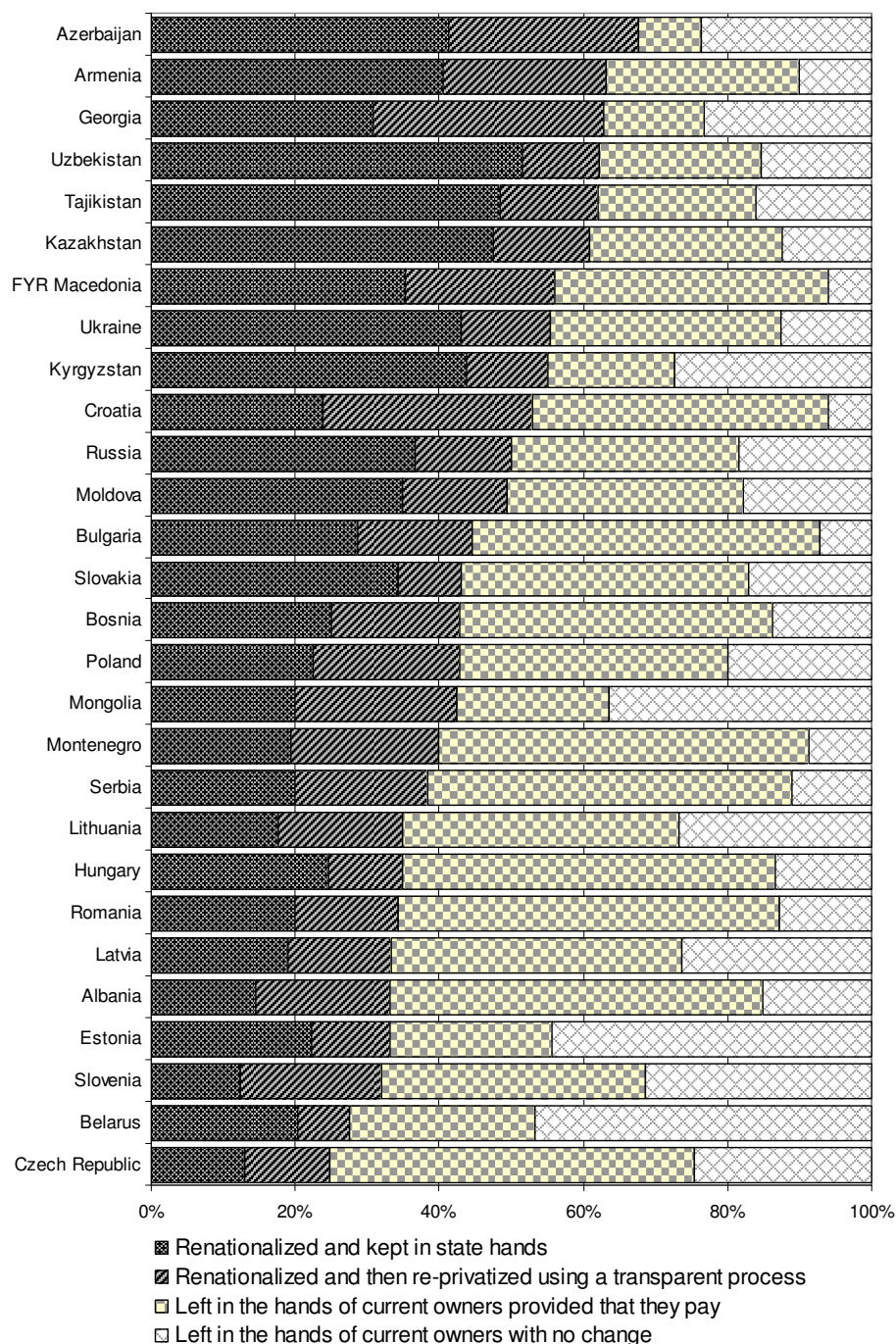
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Figure 1: Public support for revising privatization across countries

Renationalized and kept in state hands
Renationalized and then re-privatized using a transparent process
Left in the hands of current owners provided that they pay
Left in the hands of current owners with no change

Note: Weights applied to ensure that the population as a whole is represented, taking into account the age and gender distribution of the population in each country (see EBRD 2007a: 6). The reported percentages have a Bernoulli distribution. Their standard errors depend on the actual percentage and the number of observations (1000 per country); thus, they are equal to $SE = 100\sqrt{\frac{p_i(1-p_i)}{1000}}$, where p_i denotes the percentage points as reported in the table. The magnitudes of the SE indicate that if a difference between any two countries exceeds 3 percentage points, it is statistically significant.

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Figure 2: Predicted effect of the interaction between constraints on executives and market skills on the public support for privatization revision
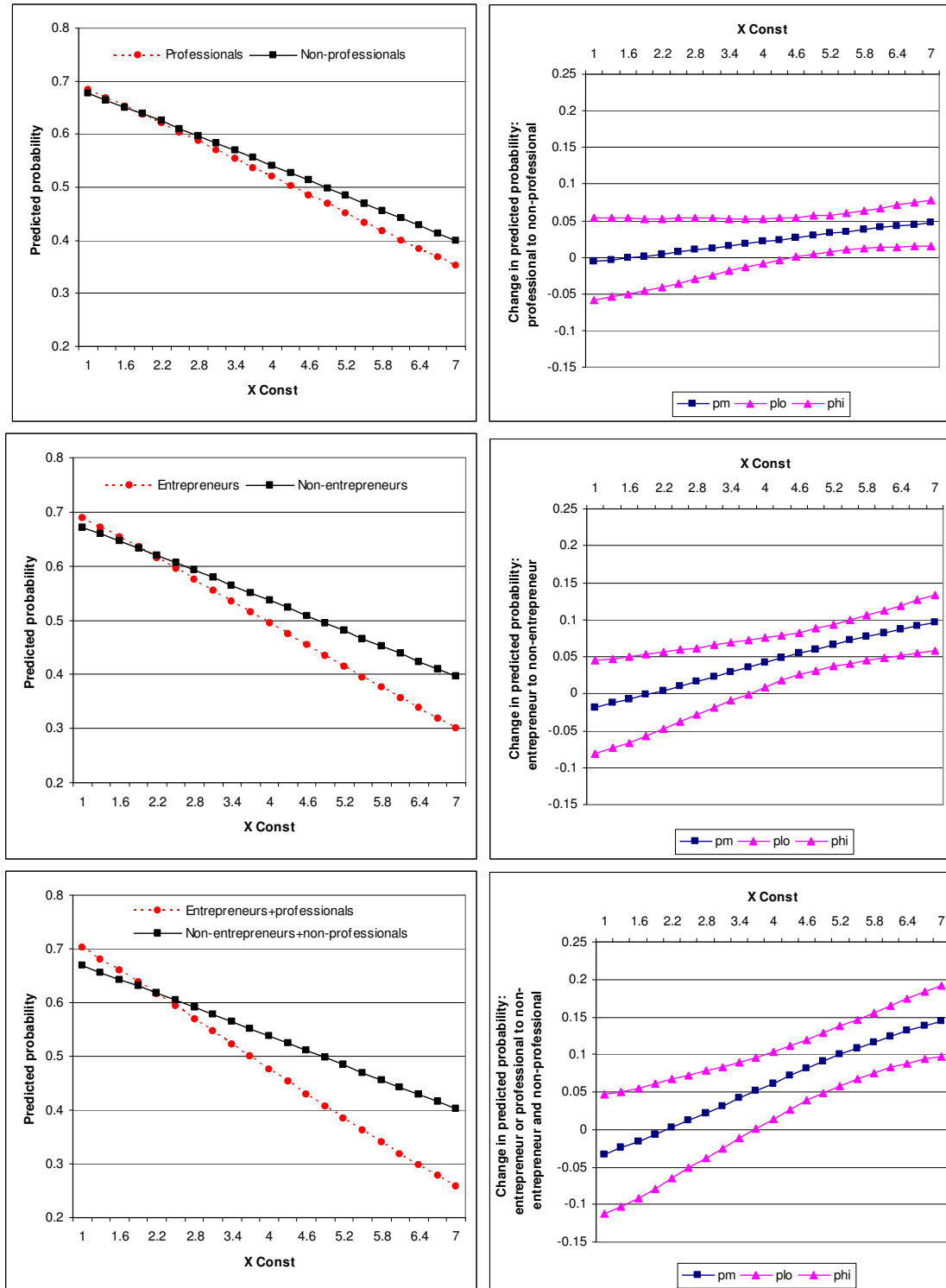
Note: Graphs generated on the basis of Probit estimation with clusters on PSU using King, Tomz, and Wittenberg (2000) software "Clarify, 2003" available at http://gking.harvard.edu/. "plo" and "phi" indicate the 95% confidence interval around the change in the predicted probability indicated by "pm."

Figure 3: Predicted effect of interaction between regulatory quality executives and market skills on the public support for privatization revision
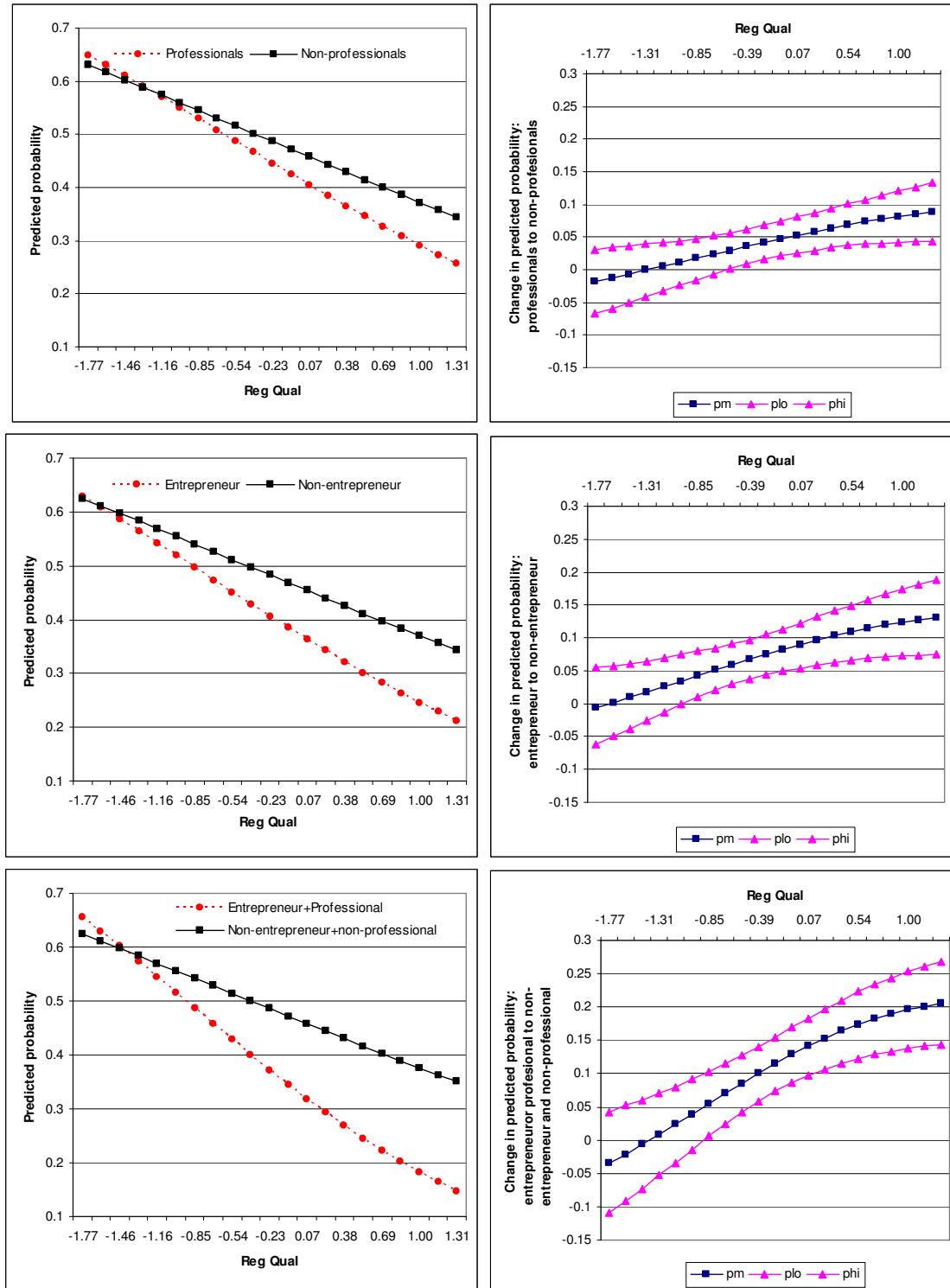
Note: Graphs generated on the basis of Probit estimation with clusters on PSU using King, Tomz, and Wittenberg (2000) software "Clarify, 2003" available at http://gking.harvard.edu/. "plo" and "phi" indicate the 95% confidence interval around the change in the predicted probability indicated by "pm."

Table 1. Direct individual effects. Binomial probit. Marginal effects reported.

	Probability of supporting privatization revision	
	Coefficients	*Marginal effects*
Market Skills:		
Entrepreneur or self-employed	-0.1281***	-0.0509***
	[0.0376]	
Professional or top manager	-0.1036***	-0.0412***
	[0.0331]	
Human capital:		
Age	0.0044***	0.0017***
	[0.0007]	
Education [1-below secondary, 2-secondary,	-0.007	-0.0028
	[0.0107]	
3-professional, vocational training, 4-higher]		
Self-reported poor health status [1-excellent, …, 5-poor]	0.0475***	0.0189***
	[0.0127]	
Transition-related employment history:		
Number of jobs, 1989-2006	0.0322**	0.0128**
	[0.0126]	
Years worked for wages in state sector, 1989-2006	-0.0008	-0.0003
	[0.0019]	
Years worked for wages in private sector, 1989-2006	-0.0067***	-0.0027***
	[0.0023]	
Transition-related hardships:		
Years had wage cuts or wage arrears, 1989-2006	0.0208***	0.0083***
	[0.0057]	
Years had to sell household assets, 1989-2006	0.0250***	0.0099***
	[0.0084]	
Years had to cut down on basic food consumption, 1989-2006	0.0123***	0.0049***
	[0.0030]	
Assets:		
Ownership of a house or apartment	-0.0719**	-0.0286*
	[0.0337]	
Wealth (Decile of per capita household consumption)	-0.0109**	-0.0043**
	[0.0043]	
Self-accessed difference wealth ranking b/w 1989 and 2006	-0.0348***	-0.0138***
	[0.0048]	
Other individual-level controls:		
Gender [Male compared to Female]	-0.0237	-0.0094
	[0.0185]	
Household size	0.0121*	0,0048*
	[0.0066]	
Location="Metropolitan area" - comparison group		
="Rural"	0.1007**	0.0400**
	[0.0431]	
="Urban, excluding metropolitan area"	0.0596	0.0237
	[0.0422]	
Religion="Christian" - comparison group		
="Buddhist"	0.0145	0.0058
	[0.1027]	
="Atheistic / agnostic / none"	0.0387	0.0154
	[0.0393]	
="Muslim"	0.1895***	0.0753***
	[0.0636]	
="Other"	-0.0114	-0.0045
	[0.0723]	
Member of an ethnic minority	0.0142	0.0057
	[0.0419]	
Unemployed, 2006	0.0865**	0.0344**
	[0.0340]	
Country dummies	Yes***	
Observations	24311	
Pseudo R-squared	0.0647	
Log Likelihood	-15716	
Prob>Chi-squared	0.0000	

Bootstrapped standard errrors in brackets clustered at PSU level. Country fixed effects included.

* significant at 10%; ** significant at 5%; *** significant at 1%

Table 2. Interactions effects for institutions and measures of market skills

	Probability of supporting privatization revision					
Estimation model:	**Probit**		**Probit**		**GLLAMM**	
Specification:	Country fixed effects, cluster by PSU, Bootstrapped SEs		Cluster by country, Bootstrapped SEs		Two-levels: individual and country	
	Coefficients	*Marginal Effects*	*Coefficients*	*Marginal Effects*	*Coefficients*	*N obs.*
Democratic institutions and Entrepeneur						
(1) Democracy index			-0.0558***	-0.0222***	-0.0279***	
			[0.0185]		[0.0080]	
Entrepeneur X Democracy index	-0.0433***	-0.0172***	-0.0396***	-0.0158***	-0.0400***	
	[0.0120]		[0.0123]		[0.0109]	
Professional X Democracy index	-0.0191*	-0.0076*	-0.0159*	-0.0063*	-0.0182**	
	[0.0100]		[0.0094]		[0.0088]	22 457
(2) Voice & accountability			-0.3347***	-0.1332***	-0.3561***	
			[0.0972]		[0.0345]	
Entrepeneur X Voice & accountability	-0.1468***	-0.0584***	-0.1351***	-0.0538***	-0.1415***	
	[0.0477]		[0.0490]		[0.0409]	
Professional X Voice & accountability	-0.0932**	-0.0371**	-0.0911**	-0.0362**	-0.1000**	
	[0.0378]		[0.0443]		[0.0400]	23 387
(3) Controls on executives			-0.1208***	-0.0480***	-0.0893***	
			[0.0217]		[0.0084]	
Entrepeneur X Controls on executives	-0.0689***	-0.0274***	-0.0544***	-0.0216***	-0.0670***	
	[0.0187]		[0.0187]		[0.0170]	
Professional X Controls on executives	-0.0339**	-0.0135**	-0.0289	-0.0115	-0.0322*	
	[0.0168]		[0.0180]		[0.0170]	23 381
(4) Democracy freedom house			-0.1665***	-0.0662***	-0.1315***	
			[0.0488]		[0.0176]	
Entrepeneur X Democracy freedom house	-0.0730***	-0.0290***	-0.0742**	-0.0295**	-0.0692**	
	[0.0276]		[0.0308]		[0.0280]	
Professional X Democracy freedom house	-0.0529**	-0.0210**	-0.0463*	-0.0184*	-0.0531**	
	[0.0207]		[0.0240]		[0.0213]	23 494
Governance institutions and Entrepeneur						
(5) Government Effectivness			-0.27	-0.1074	-0.1346***	
			[0.1824]		[0.0504]	
Entrepeneur X Government Effectivness	-0.1706**	-0.0679**	-0.1872**	-0.0745**	-0.1978**	
	[0.0664]		[0.0910]		[0.0911]	
Professional X Government Effectivness	-0.1508***	-0.0600***	-0.1620***	-0.0645***	-0.1478***	
	[0.0504]		[0.0570]		[0.0564]	23 387
(6) Rule of law			-0.1561	-0.0621	-0.2610***	
			[0.1394]		[0.0314]	
Entrepeneur X Rule of law	-0.1813***	-0.0721***	-0.1762**	-0.0701**	-0.2065***	
	[0.0646]		[0.0687]		[0.0743]	
Professional X Rule of law	-0.1495***	-0.0595***	-0.1726***	-0.0687***	-0.1534***	
	[0.0446]		[0.0525]		[0.0533]	23 387
(7) Control of corruption			-0.2579*	-0.1026*	-0.1876***	
			[0.1457]		[0.0273]	
Entrepeneur X Control of corruption	-0.1518*	-0.0604*	-0.1802**	-0.0717**	-0.1621*	
	[0.0792]		[0.0881]		[0.0896]	
Professional X Control of corruption	-0.1723***	-0.0685***	-0.1948***	-0.0775***	-0.1825***	
	[0.0540]		[0.0633]		[0.0584]	23 387
(8) Regulatory quality			-0.2471	-0.0983	-0.4007***	
			[0.1554]		[0.0423]	
Entrepeneur X Regulatory quality	-0.1479***	-0.0588***	-0.1465**	-0.0583**	-0.1389***	
	[0.0536]		[0.0605]		[0.0516]	
Professional X Regulatory quality	-0.1024***	-0.0407***	-0.1074**	-0.0427**	-0.0994**	
	[0.0376]		[0.0526]		[0.0426]	23 387

* significant at 10%; ** significant at 5%; *** significant at 1%.
 The first column indicates 8 separate regressions run for each model (one regression for each institutional variable).

All regressions include all individual-level factors from Table 1 as covariates. Only the coefficients of interest are reported in the table. The full regression output is available from the authors. The estimated coefficients on "Entrepreneur" and "Professional" dummies in every regression are as reported in Table 1 because we subtract the sample mean from the component variables before taking cross-terms.

Table 3. Second stage estimates of the direct effects and interactions, Borjas weights

Institutions	Direct effect (intercept) evaluated at means of individual characteristics in each country	Direct effect (intercept) evaluated at female, 40 years old, from 5th decile	Interaction with entrepreneur	Interaction with professional or top manager	N obs.
Democracy					
Democracy index	-0.083	-0.0864*	-0.0292**	-0.0084	26
	[0.0574]	[0.0476]	[0.0139]	[0.0164]	
Voice & accountability	-0.8021***	-0.6893***	-0.1179	-0.1185	27
	[0.2675]	[0.2419]	[0.0741]	[0.0836]	
Controls on executives	-0.1691*	-0.1583**	-0.0402*	-0.0167	27
	[0.0890]	[0.0748]	[0.0228]	[0.0269]	
Democracy freedom house	-0.3417**	-0.2439*	-0.0225	-0.0273	27
	[0.1580]	[0.1266]	[0.0566]	[0.0538]	
Governance					
Government Effectivness	-1.3285***	-0.8236*	-0.0589	-0.3457**	27
	[0.4222]	[0.4022]	[0.1461]	[0.1253]	
Rule of law	-0.8786***	-0.6753**	-0.1009	-0.1912**	27
	[0.2968]	[0.2760]	[0.0934]	[0.0902]	
Control of corruption	-0.9141**	-0.6289*	-0.0176	-0.2561**	27
	[0.3326]	[0.3082]	[0.1132]	[0.0968]	
Regulatory quality	-1.1547***	-0.8354**	-0.1357	-0.2077*	27
	[0.3563]	[0.3272]	[0.1161]	[0.1119]	
GDP per capita, avg 1999-2006	Yes	Yes	Yes	Yes	
Privatization scale, 2006	Yes	Yes	Yes	Yes	

Coefficients reported. Standard errors in brackets. * significant at 10%; ** significant at 5%; *** significant at 1%. The baseline in the first column is mean value for all individual characteristics calculated separately in each country; in the second column, it is a 40 years old female from the 5th income decile. Coefficients are estimates using linear regression with Borjas weights. Each reported coefficient is taken from a separate second-stage regression with controls for GDP per capita and privatization scale.

Appendix A
Table A1: Description of Variables

(1) Main variables of interest

(1.1) Dependent variable

Support for privatization revision

Dummy equals 1 if the respondent prefers to renationalize most privatized companies and keep them in state hands or to renationalize most privatized companies and re-privatize them again using a more transparent process; 0 if the respondent prefers to leave most privatized companies in the hands of current owners provided that they pay what the assets are worth or to leave most privatized companies in the hands of current owners without any change. *Source: Life in Transition Survey (LiTS), EBRD and World Bank, 2006.*

(1.2) Proxies for market skills

Professional or top manager

Dummy equals 1 if in 2006 the respondent was within working age and worked for wages in an occupation that requires high skills (i.e., legislators, senior government officials, enterprise managers, director/chief executives, owners of business, physicists, engineers, mathematicians, architects, computing professionals, medical doctors, dentists, pharmacists, teachers, lawyers, accountants, authors, professionals and similar occupations), 0 otherwise. *Source: Life in Transition Survey (LiTS), EBRD and World Bank, 2006.*

Entrepreneur or self-employed

Dummy equals 1 if the respondent moved to self-employment and entrepreneurship before 2006. We only refer to working-age respondents, i.e. respondents with an age between 18 and 60 years for any year. *Source: Life in Transition Survey (LiTS), EBRD and World Bank, 2006.*

(1.3) Democracy institutions

Democracy index

Average index of democracy for 1991-2004. Ranging from 0 to 10 with higher values corresponding to more democratic outcomes. The index is derived from averaging the competitiveness of political participation, the openness and competitiveness of executive recruitment, and constraints on the chief executive (*xconst*). *Source: Polity IV dataset, variable 'democ', http://www.systemicpeace.org/polity/polity4.htm.*

Controls on executives

Extent of the institutionalized constraints on the decision-making powers of chief executives. Average index for 1992-2004. Ranging from 1 (no regular limitations on the executive's actions) to 7 (accountability groups have effective authority equal to or greater than the executive in most areas of activity). *Source: Polity IV dataset, variable 'xconst', http://www.systemicpeace.org/polity/polity4.htm.*

Democracy freedom house

Average democratic progress score for 1998-2006, whose scale from 1 to 7 was inverted such that 1 represents the lowest and 7 the highest level of democratic progress. The democracy score is an average of expert ratings (by Freedom House staff members and a panel of academic advisers) for electoral process, civil society, independent media, national democratic governance, local democratic governance, judicial framework and independence, and corruption. Contrary to Polity IV, it provides a separate score for Serbia and Montenegro. *Source: Freedom House, Nations in Transit, http://www.freedomhouse.org.*

Voice & accountability

Voice & accountability represents the extent to which a country's citizens are able to participate in selecting their government, as well as freedom of expression, freedom of association, and free media. Higher values correspond to better governance outcomes. Avg. for 1996, 1998, 2000, 2002-2005. *Source: Kaufmann, Kraay, and Mastruzzi (2006).*

(1.4) Governance institutions

Government effectiveness

Government effectiveness represents the quality of public services, the quality of the civil service and the degree of its independence from political pressures, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies. Higher values correspond to better governance outcomes. Avg. for 1996, 1998, 2000, 2002-2005. *Source: Kaufmann, Kraay, and Mastruzzi (2006).*

Table A1: Continued

Rule of law	Rule of law represents the extent to which agents have confidence in and abide by the rules of society, and in particular the quality of contract enforcement, the police, and the courts, as well as the likelihood of crime and violence. Higher values correspond to better governance outcomes. Avg. for 1996, 1998, 2000, 2002-2005. Source: Kaufmann, Kraay, and Mastruzzi (2006).
Control of corruption	Control of corruption represents the extent to which public power is exercised for private gain, including both petty and grand forms of corruption, as well as "capture" of the state by elites and private interests. Higher values correspond to better governance outcomes. Avg. for 1996, 1998, 2000, 2002-2005. Source: Kaufmann, Kraay, and Mastruzzi (2006).
Regulatory quality	Regulatory quality represents the ability of the government to formulate and implement sound policies and regulations that permit and promote private sector development. Higher values correspond to better governance outcomes. Avg. for 1996, 1998, 2000, 2002-2005. Source: Kaufmann, Kraay, and Mastruzzi (2006).

(2) Other individual-level variables (*Source: Life in Transition Survey (LiTS), EBRD and World Bank, 2006.*)

(2.1) Human capital

Age	Age of the respondent.
Educational degree	Highest educational degree obtained by the respondent, compressed to following categories: (1) below secondary, (2) secondary education, (3) professional, vocational school/training, (4) higher (university, college, post graduate).
Self-reported poor health status	Subjective assessment of the respondent's health conditions: (1) very good, (2) good, (3) medium, (4) bad, (5) very bad.

(2.2) Transition-related employment history

Number of jobs, 1989-2006	Number of jobs for respondents worked for wages (for an employer) in any of the years from 1989 to 2006. A different job is defined by a different occupational position working for the same employer, by a change in the ownership type of the enterprise, and by a change of employer.
Years worked for wages in the state sector, 1989-2006	Number of years (1989-2006) the respondent worked for wages in the state sector (i.e. the state was the owner of the company).
Years worked for wages in the private sector, 1989-2006	Number of years (1989-2006) the respondent worked for wages in the private sector (i.e. the owner of the company was a private one).

(2.3) Transition-related hardships

Years had to accept wage cuts or wage arrears, 1989-2006	Number of years (1989-2006) the respondent had to accept wage cuts or wage arrears.
Years had to sell household assets, 1989-2006	Number of years (1989-2006) the respondent had to sell some of the household assets.
Years had to cut down on basic food consumption, 1989-2006	Number of years (1989-2006) the respondent had to cut down on basic food consumption.

(2.4) Assets

Ownership of a house or apartment	Dummy indicating that any household member (including the respondent) is the majority owner of a house (detached, semi-detached, townhouse, terrace house, apartment, or flat). This information is given by the head of household (or another knowledgeable household member).

Table A1: Continued

Wealth (Deciles of per capita household consumption)	Approximated by the within-country deciles of total household's annualized consumption expenditures per (equalized) household member. Children younger than 14 years enter with a weight of 0.3. The information for consumption expenditures is given by the head of household (or another knowledgeable household member). Our measure of wealth ranges from 1 to 10 based on the expenditure decile in which a respondent is located.
Self-accessed difference wealth ranking b/w 1989 and 2006	Subjective household's wealth ranking on an imaginary ten-step ladder (from the poorest to the richest), difference today with respect to 1989 (retrospective). This information is given by the head of household (or another knowledgeable household member).

(2.5) Additional individual-level controls

Gender	Gender of the respondent (0=female, 1=male).
Household size	Number of household members.
Location	Location of the interviewed household in a (1) metropolitan, (2) rural, or (3) urban (excluding metropolitan) area.
Religion	Religion of the respondent: (1) Christian, (2) Buddhist, (3) atheistic / agnostic / none, (4) Muslim, (5) other.
Member of an ethnic minority	Dummy indicating that the respondent belongs to an ethnic minority in this country.
Unemployment, 2006	Dummy equals a value of 1 if the respondent is actively looking for a job at the time of the survey.

(3) Country-level controls

Privatization scale in 2006	Degree of current privatization progress: large-scale plus small-scale privatization in 2006. Large-scale privatization is ranked from 1 (little private ownership) to 4+ (more than 75 per cent of enterprise assets in private ownership with effective corporate governance). Small-scale privatization is ranked from 1 (little private ownership) to 4+ (no state ownership of small enterprises; effective tradability of land). *Source: EBRD transition indicators, http://www.ebrd.com/country/sector/econo/stats/index.htm.*
GDP per capita in USD 1999-2006	Real GDP per capita in USD, avg. 1999-2006, Source: EBRD selected economic indicators, *http://www.ebrd.com/country/sector/econo/stats/index.htm.*

Table A2: Summary Statistics

Variable	# of obs	Mean	SD	Min	Max
Support for privatization revision	27840	0.46	0.50	0	1
Entrepreneur or self-employed	27640	0.07	0.26	0	1
Professional or top manager	27590	0.10	0.31	0	1
Democracy index	26	5.82	3.22	0.0	10.0
Controls on executives	27	5.32	1.77	1.0	7.0
Democracy freedom house	27	3.99	1.52	1.8	6.5
Voice & accountability	27	-0.06	0.84	-1.6	1.1
Government effectiveness	27	-0.24	0.66	-1.2	0.8
Rule of law	27	-0.34	0.66	-1.3	0.8
Control of corruption	27	-0.37	0.61	-1.2	1.0
Regulatory quality	27	-0.16	0.83	-1.8	1.3
Privatization scale in 2006	28	7.12	1.10	3.3	8.3
GDP per capita in USD 1999-2006	28	3405.74	3149.27	255.9	13506.4
Age	28000	45.97	16.87	17	97
Educational degree	27993	2.53	1.04	1	4
Self-reported poor health status	27996	2.71	0.99	1	5
Number of jobs, 1989-2006	27611	1.09	0.99	0	5
Years worked for wages in the state sector, 1989-2006	27611	4.48	6.11	0	18
Years worked for wages in the private sector, 1989-2006	27611	2.54	4.92	0	18
Years had to accept wage cuts or arrears, 1989-2006	27450	0.57	1.87	0	18
Years had to sell household assets, 1989-2006	27450	0.27	1.19	0	18
Years had to cut down on basic food consumption, 1989-2006	27450	1.86	4.10	0	18
Ownership of a house or apartment	28000	0.85	0.35	0	1
Wealth (deciles of per capita household consumption)	28000	5.68	2.93	1	10
Self-accessed difference wealth ranking b/w 1989 and 2006	25179	-1.37	2.47	-9	9
Gender (0=female, 1=male)	28000	0.47	0.50	0	1
Household size	28000	2.81	1.66	1	12
Location==metropolitan	28000	0.22	0.41	0	1
Location==rural	28000	0.40	0.49	0	1
Location==urban (excluding metropolitan)	28000	0.37	0.48	0	1
Religion==Christian	28000	0.65	0.48	0	1
Religion==Buddhist	28000	0.02	0.15	0	1
Religion==atheistic/agnostic/none	28000	0.11	0.31	0	1
Religion==Muslim	28000	0.19	0.39	0	1
Religion==other	28000	0.02	0.14	0	1
Member of an ethnic minority	27974	0.10	0.30	0	1
Unemployment, 2006	28000	0.09	0.28	0	1

Note: For the summary statistics of individual-level variables we apply weights to ensure that the population as a whole is represented, taking into account the age and gender distribution of the population in each country (see EBRD 2007a: 6). The summary statistics of country-level variables refer to averages over time. For the concrete time frame for each variable see Table A1.

Table A3. Direct effects of institutions

	Probability of supporting privatization revision		
Estimation model:	**Probit**		**GLLAMM**
Specification:	Cluster by country, Bootstrapped SEs		Two-levels: individual and country
	Coefficients	*Marginal Effects*	*Coefficients*
<u>Democracy</u>			
Democracy index	-0.0559***	-0.0222***	-0.0148
	[0.0180]		[0.0092]
Voice & accountability	-0.3355***	-0.1333***	-0.4293***
	[0.0949]		[0.0496]
Controls on executives	-0.1221***	-0.0485***	-0.0719***
	[0.0211]		[0.0099]
Democracy freedom house	-0.1659***	-0.0660***	-0.1191***
	[0.0483]		[0.0374]
<u>Governance</u>			
Government Effectivness	-0.257	-0.1021	-0.1597***
	[0.1872]		[0.0561]
Rule of law	-0.1494	-0.0594	-0.2724***
	[0.1374]		[0.0286]
Control of corruption	-0.2490*	-0.0989*	-0.3091***
	[0.1500]		[0.0249]
Regulatory quality	-0.2435	-0.0967	-0.5227***
	[0.1581]		[0.0472]

* significant at 10%; ** significant at 5%; *** significant at 1%

All regressions include all individual-level factors from Table 1 as covariates. Only the coefficients of interest are reported in the table. The whole regression output is available from the authors.