

Democracy, Market Liberalization and Political Preferences

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Abstract

We estimate the impact of market development and democratization on subjective political preferences. We rely on the specific situation of frontier-zones and the considerable regional variations in culture and economic development in the countries of the former socialist bloc for identification. Using a survey conducted in 2006, we find a positive and significant effect of democracy on support for a market economy, but no effect of market liberalization on support for democracy. Hence, in contrast with the conventional wisdom concerning the sequencing of political and economic reforms, democratization may become a necessary condition to obtain public support for further economic liberalization.

Keywords: market liberalization, democracy, political liberalization, political preferences, spatial regression discontinuity, transition economies.

JEL Codes: H1, H5, P2, P3, P5, O1, O12, O57.

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1. Introduction

This paper questions the conventional wisdom concerning the sequencing of political and economic reforms in developing countries. A popular idea is that market liberalization should come before democratization, in the early stage of a country's development. Supporters of this strategy point to the erratic reform path experienced by some Central and Eastern European countries of the former socialist bloc, which predominantly chose rapid and simultaneous political and economic liberalization in the 1990's (Dewatripont and Roland, 1992; Roland and Verdier, 2003; Godoy and Stiglitz, 2006). Another example is Latin America, where pervasive economic crises seem to illustrate how democracy can be an obstacle to the development of the market, when leaders need to impose unpopular reforms while being responsible to their constituencies. By contrast, in China, the continued hold of the Communist Party over political power is taken to be a key ingredient in the spectacular development of the market economy. In this view, the optimal route is to develop market institutions in a first stage of development, and consider democratization at a later stage.

Pushing the argument one step further, some authors have argued that the desire for political freedom and democratic institutions does not arise until countries reach a certain degree of material comfort and market liberalization (Lipset, 1959; Miller et al., 1994, 1996). Hence, the argument goes, not only is it more practical to postpone democracy until the market is developed, but this sequence also meets citizens' preferences.

The conventional wisdom concerning the linkages between political and economic systems has considerably changed over time. The idea that "modern democracy is a by-product of the capitalist process" (Schumpeter, 1942) find its roots in the writings of Montesquieu, Steuart, Hume and many philosophers of the eighteen century, who saw trade as a quiet passion ("le doux commerce") and hypothesized an affinity between trade and social harmony. Skepticism about

this spontaneous “psychomachia” (Hirschman, 1977, page 24) started with Smith and de Tocqueville and became radical in the nineteenth century (see K. Marx, 1867 or J.S. Mill, 1860). Today, the consensus seems to be that “development” implies both market liberalization and political democracy¹, but with the market coming first. Lipset (1959, page 80) for example claims that: “industrialization, urbanization, high educational standards and a steady increase in the overall wealth of society [are] basic conditions sustaining democracy”. The similarity between market competition and political competition between organized groups has been used in order to underline the economic preconditions of democracy (Dahl 1982, Andrain 1984). Another line of reasoning is that postponing political liberalization gives more leeway to reformers when reform measures potentially hurt important groups of the population. This argument builds upon the political economy of transition literature (Aslund et al., 2001; Dewatripont and Roland, 1992; Roland, 2001; Roland and Verdier, 2003), which discusses the relative pros and cons of democracy versus authoritarianism from the point of view of facilitating economic reforms.

Beyond these theoretical approaches, the existing empirical literature does not offer a clear picture in terms of optimal sequencing of political and economic reforms. A vast literature focuses on the relationship between income growth and democracy. Most papers conclude to a positive relation running from income to democracy (e.g. Przeworski, 2004; Boix, 2003; Boix and Stokes, 2003; Epstein, et al., 2004; Papaioannou and Siourounis, 2009; Londregan and Poole, 1996; Minier, 2001; Burkhart and Lewis-Beck, 1994). However, Acemoglu et al. (2005a, 2005b, 2007a) show that this relationship is not robust to the inclusion of country fixed effects, so that there is “no evidence that economic development has a causal effect on democracy” (Robinson, 2006). Concerning the reverse relationship, from political regimes to economic growth, “the findings are all over the place” (Persson and Tabellini, 2007a). Many papers find no

¹ Hence the concept of the “End of History” (Fukuyama, 1992).

impact of democracy (or democratic transitions) on income growth (Londregan and Poole, 1996; Burkhart and Lewis-Beck, 1994, Helliwell, 1994; Barro, 1996; Rodrik, 2000) but some do find a positive relation (Leblang, 1997; Minier, 1998; Persson and Tabellini, 2006, 2007a, 2007b; Rodrik and Wacziarg, 2005; Tavares and Wacziarg, 2001). A meta-analysis by Przeworski and Limongi (1993) confirms that the literature is inconclusive. The authors review 18 studies and 21 findings: a third of these conclude to the superiority of democracy in promoting economic growth, another third claims that authoritarian regimes are better at promoting growth and the last third finds no significant relationship.

Concerning the relation between democracy and market liberalization, the literature is less abundant. Persson and Tabellini (2006) find that democracy is associated with economic reforms, while economic liberalization only “sometimes” leads to democratization, but that liberalizing the economy first is better for subsequent GDP growth. Giavazzi and Tabellini (2005) claim that causality is more likely to run from political to economic liberalization. A series of papers exploit the experience of post-socialist countries, often hinging on election data or individual level surveys: they essentially conclude to a causality link running from democracy to market liberalization (Fidrmuc, 2003) or from democracy to the support for market liberalization (Dethier, Ghanem and Zoli, 1999; Hayo, 2004).

In this literature, the effort dedicated to the identification strategy is of uneven importance, consisting in instrumentation with lagged variables (Dethier, Ghanem and Zoli, 1999), country fixed effects (Papaioannou and Siourounis 2009, Londregan and Poole 1996), country and year fixed effects (Persson and Tabellini, 2006; Acemoglu et al. 2005a, 2005b, 2007a), simultaneous equations (Tavares and Wacziarg, 2001), Granger tests (Fidrmuc, 2003), difference in difference and matching (Persson and Tabellini (2007a). However, Acemoglu et al. (2001, 2005a, 2007a, 2007b) convincingly argue for the quasi impossibility to exclude the influence of omitted variables such as culture, religion or colonial institutions that preside over the evolution of all the

magnitudes of interest. The influence of such distant past “critical junctures” precludes establishing a univocal direction of causality. This identification problem is also contained in the very idea of the modernization theory that the same development dynamics favor both democracy and market development (Lipset, 1959). Even papers based on panel data with time and country fixed effects are likely to suffer from omitted variables, as the relevant dimension of heterogeneity is not necessarily national: it can be more local (e.g. eastern versus western Ukraine) or wider than the nation (the lasting influence of past empires).

In this paper, we try to overcome this simultaneity bias by using the precise spatial information available in our dataset. We exploit a new set of micro evidence from an original survey of 28 transition economies, the *Life in Transition Survey*, which was implemented in the summer of 2006 (see EBRD, 2007). This survey offers the possibility to identify precisely the geographical location of the primary sampling units. We then hinge on the national and regional sources of heterogeneity.

We first estimate the causal relationship that runs from actual democratization to the popular support for a market economy. Our empirical identification strategy consists of a spatial regression discontinuity design, which relies on the specificities of frontier-zones. Our main identification assumption is that people who live on either side of an integrated frontier-zone experience different political regimes, but share the same experience of the market and, often, the same historically inherited “cultural attitudes” towards the market and democracy on both sides of the frontier. This assumption is particularly plausible for the often artificial frontiers of the former USSR and for other formerly integrated regions such as the Ottoman or the Habsburg Empires. This assumption is tantamount to keeping constant the omitted variables that usually bias estimations of the relationship between market development and the support for democracy.

We also estimate the reciprocal relationship, from actual market development to popular support

for democracy. Here, we exploit within-country regional variations. We rely on the fact that the degree of market development is heterogeneous across different regions of the countries included in the survey, whereas people who live in the same country share a common experience of democracy. We build an index of regional market development that reflects the share of the modern sector of the economy, composed of private, small and medium size firms. We then compare the support for democracy in the various regions of a given country, where market development varies but political and democratic rights are similar.²

We do not pretend to explain the long run causality between democracy and market development; instead we ask whether the demand for democracy emerges after a certain degree of market development is reached, and whether, conversely, democratization is more likely to be an obstacle or an ingredient to citizens' support for market liberalization.

The main result of the paper is that democracy increases popular support for the market whereas, contrasting with the conventional wisdom, economic liberalization does not clearly enhance the support for democracy. This result is robust to alternative indices of democratization and market liberalization as well as to other proxies of preferences for democracy.

Section 2 presents the identification strategies for the two relationships: between democracy and support for the market, and between market development and support for democracy. Section 3 describes the data. Section 4 discusses the empirical results. Section 5 concludes.

² The assumption of similar political rights within a country may be questioned, but as detailed later in the paper, most countries in our sample are highly centralized politically. Even in the case of the Russian Federation, the strong presidential regime helps to attenuate the (statistical) problem.

2. Data

Our study uses the Life in Transition Survey (LITS) conducted by the European Bank for Reconstruction and Development and the World Bank in 2006, in 28 post-transition countries.³ Respondents to the survey were drawn randomly, using a two stage sampling method, with census enumeration areas as Primary Sampling Units (PSUs)⁴, and households as secondary sampling units. This nationally representative survey includes 1000 observations per country, making a total of 28,000 observations.

2.1 Support for the market and for democracy

Support for the market is analyzed using the following question:

Which of the following statements do you agree with most?

- *A market economy is preferable to any other form of economic system.*
- *Under some circumstances, a planned economy may be preferable to a market economy.*
- *For people like me, it does not matter whether the economic system is organized as a market economy or as a planned economy.*

We analyze the probability of choosing one of the first two statements.

Concerning the support for democracy, we analyze the probability of choosing one of the first two proposed answers to the question:

Which of the following statements do you agree with most?

³ Turkmenistan was not included in the survey, neither was Kosovo.

⁴ PSUs were selected randomly, with probability proportional to size.

- *Democracy is preferable to any other form of political system.*

- *Under some circumstances, an authoritarian government may be preferable to a democratic one.*

- *For people like me, it does not matter whether a government is democratic or authoritarian.*

One concern with this type of subjective questions is that answers might reflect some personality traits rather than genuine preferences. While there is no way to fully eliminate this concern with cross-section data, we control for several observable individual characteristics that are likely to be correlated with unobserved individual heterogeneity. We also checked that people do not answer these two questions in a systematic way. For example, people who declare that “*Under some circumstances, a planned economy may be preferable to a market economy*” are equally likely to choose the first or the second answer to the question about democracy.

We also use an alternative measure of support for democracy based on the following survey question:

To what extent do you agree that the following are important for your country?

- *Free and fair elections*
- *Law and order*
- *Freedom of speech*
- *A press that is independent from the government*
- *A strong political opposition*
- *A courts system that defends individual rights against abuse by the state*

- *A courts system that treats all citizens equally, rather than favoring some over others*
- *Protection of minority rights (religious, ethnics, etc...)*
- *Freedom to travel abroad*

(Scale: Strongly disagree, Disagree, Neither agree nor disagree, Agree, Strongly agree, Difficult to say)

We construct an index measuring the “attachment to democracy”, which sums the number of times a person “agrees” or “strongly agrees” that the items listed in the above table are important. The regional index varies from 0 to 9, with an average of 4.5. The average score is highest in Montenegro and Croatia (7) and lowest in Tajikistan (3).

2.2. Frontier-zones

The LITS is based on Primary Sampling Units (PSUs), each containing 20 observations (surveyed persons). Information on the precise location of these PSUs is available in a series of country maps and through the location names, which we use in order to identify groups of PSUs that are located in the immediate vicinity of a political frontier. We define frontier-zones as groups of PSUs that are quasi-adjacent and located on both sides of a frontier (less than 25 km from the border).

As discussed in section 3, the validity of our identification assumption relies on the level of trade openness and market integration across the considered borders. We thus distinguish open frontiers from those that are closed or restricted because of political tensions and disputed territories or geographical obstacles. We hence exclude the (closed) frontiers between Armenia and Azerbaijan, Georgia and Russia, Moldova and Ukraine, as well as all Uzbek borders. We keep all the other (open) frontiers. We are left with 36 frontier-zones, that contain between 40

and 460 observations, concentrated in 2 (Slovak Republic-Ukraine) to 24 (Croatia-Slovenia) PSUs⁵.

In the case of the ten new EU members⁶, persons and goods are free to circulate across borders. This is also true of most part of Central, Eastern and South-Eastern Europe (for example Albania, Macedonia and Montenegro⁷; Bulgaria and Macedonia or Moldova and Romania). Many countries of the survey are integrated in Euro-regions, which are “arrangements for cooperation between units of local or regional government across borders with the purpose of promoting common interests and enhancing the living standards of the border populations”⁸. Two CIS countries: Belarus and Ukraine are also integrated into Euro-regions.⁹ These countries are also largely integrated with Russia, not only historically but also formally, in the framework of the Neman Euro-region which also includes Lithuania and Poland. Finally, 12 countries of the former USSR¹⁰ are members of the Commonwealth of Independent States (CIS), created in December 1991 in order to promote regional economic integration. Several other regional

⁵ For a complete list of frontier-zones considered in the analysis, please refer to the working paper version of this text (IZA DP n°2889).

⁶ Bulgaria, the Czech Republic, Estonia, Latvia, Lithuania, Hungary, Poland, Romania, the Slovak Republic and Slovenia.

⁷ As well as Kosovo, but Kosovo was excluded from our sample.

⁸ Euro-regions are formed in order to address issues that involve important local cross-border externalities, hence the need for regional cooperation. See www.coe.int. Albania, Bosnia and Herzegovina, Croatia, Montenegro and Slovenia are part of the Adriatic Euroregion; Latvia, Lithuania, Poland and Russia are part of the Baltic Euroregion (alongside with Sweden and Denmark); Hungary, Romania, and Serbia are integrated in the Danube - Kris - Mures - Tisza Euroregion

⁹ The Białowieża Forest Euroregion includes Poland and Belarus, the BUG Euroregion includes Belarus, Poland, Ukraine.

¹⁰ Azerbaijan, Armenia, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Uzbekistan and Ukraine.

agreements were signed among members of the CIS, among which the creation of the Eurasian Economic Community¹¹, or the creation of a Common Economic Space including Belarus, Kazakhstan, Russia and Ukraine.

2.3. Scores of democratization

We principally hinge on the Freedom House democracy score (Freedom House, 2006a), which averages national ratings for the electoral process, civil society, independent media, independence of the judicial system, and corruption. This score takes values from 1 to 7, with 1 representing the highest level of democratic progress and 7 the lowest; we have recoded it in order to present the score of democracy in an ascending order. In an alternative specification, we dichotomize this score and for each pair of adjacent countries, we build a dummy variable that takes value 1 in the PSUs located in the most democratic country of each pair, and 0 in PSUs located in the less democratic country (according to the Freedom House indicator).

For robustness, we verify that our results hold when we use other political scales, such as Freedom in the World (Freedom House, 2006b), BTI indicators (Bertelsmann Stiftung, 2005) or Polity IV (CIDCM, 2006). We favor the Freedom House democracy score over other ratings, because it is entirely focused on democratic rights, as opposed to Freedom in the World or BTI, which include ratings on civil and economic rights, and because it is more contrasted than other indicators, including Polity IV.¹²

¹¹ Belarus, Kazakhstan, Kyrgyzstan, Russia, Tajikistan.

¹²In particular, it provides a ranking for Bosnia and Herzegovina, which Polity IV does not.

2.4. Indices of market liberalization

Using questions about the respondents' first, second and third jobs¹³, we build a regional score of market liberalization. The score is the regional proportion of respondents in the active labor force who are self-employed with more than five employees.¹⁴ or have a formal labor contract and either: work in a small enterprise, work in a medium enterprise, work in a private firm, or work in a newly created enterprise (since 1989).

During the Soviet era, socialist economies were distinguished by their exceptionally low proportion of small and medium sized enterprises (SMEs). The logic of central planning favored the organization of production and distribution in large units. We thus interpret the presence of SMEs as an indicator of market development. The presence of private and of newly created firms is also a sign of progress in the transition towards a market economy, an essential aspect of which is the process of privatization of the formerly predominant state-owned sector and the elimination of former monopolies under the pressure of new competitive firms (Berkowitz and Jackson, 2005). Self-employed persons with at least five employees are also part of this new economic pattern that is typical of a market economy and was absent of the landscape of planned economies. We do not count self-employed persons with less than five employees on the grounds that those are less likely to be small firms than forms of quasi unofficial economy or what is sometimes called “disguised unemployment” (Earle and Sakova, 2000). Finally, we interpret the existence of an employment contract as a sign that the person is working in the official sector

¹³ Multiple jobs are frequent in transition countries.

¹⁴ This index thus excludes workers in state run enterprises or collective farms, enterprises that were already existing in 1989, large enterprises of more than 100 employees, self employed with strictly less than five employees and employees without a former labor contract. Our results are robust to variations of that index, for example by considering workers in firms larger than 100 employees or by ignoring whether employees have a formal labor contract.

rather than in the informal sector, an indication of development of the market economy.

This index varies from 0 to 5 with an average of 2.37. It is highest, on average, in Latvia (2.78), followed by the two other Baltic States, and is lowest in Azerbaijan (1.90) and Belarus (1.92).

One concern about our index of market liberalization is that its quality is limited by the lack of representativeness of the data at the regional level. De facto, the average number of observations by region is 82. However, there is no alternative regional index of private sector development or market liberalization that is comparable across countries of our sample. We also regret that indices of industrial concentration are not available at the regional level for the whole set of countries in the sample.¹⁵

As a first validation of our index, we compared it to other available indices of market liberalization and privatization at the country level. We used several EBRD transition indicators and constructed a Transition Indicator as the cumulated score of large scale privatization, small scale privatization, enterprise restructuring, price liberalization, competition policy, banking reform and interest rate liberalization. The correlation coefficient between this score and our index of market development is 0.77.

As an additional test of validity, we confronted our index of market development with regional indices of the shares of private, public, collective or foreign firms in Moldova in 2006, based on firm census data from the World Bank. To remain as close as possible to the LITS index, we only considered private firms between 5 and 100 employees. The correlation coefficient between

¹⁵ In our view, indices of this type would be best suited, if they were available, than some often used indicators based on governance, the protection of legal rights, the protection of minority shareholders or indices of price liberalization. The latter have two important drawbacks: firstly, they are only available at the national level and secondly, they often reflect the progress of the rule of law, i.e. of democracy itself, rather than that of the freedom of transactions on the market.

our LITS-based index and the Moldovan index is 0.34 (significant at 1%). Note that the LITS-based index considers households' addresses, while the Moldovan census records firms' registered address, which is not necessarily the same address where they operate. The LITS based index also excludes firms that existed before 1989, while the Moldovan data does not contain such information. This could explain why the correlation coefficient between the two indices is not higher.

All descriptive statistics are presented in Appendix.

3. Identification strategy: spatial regression discontinuity

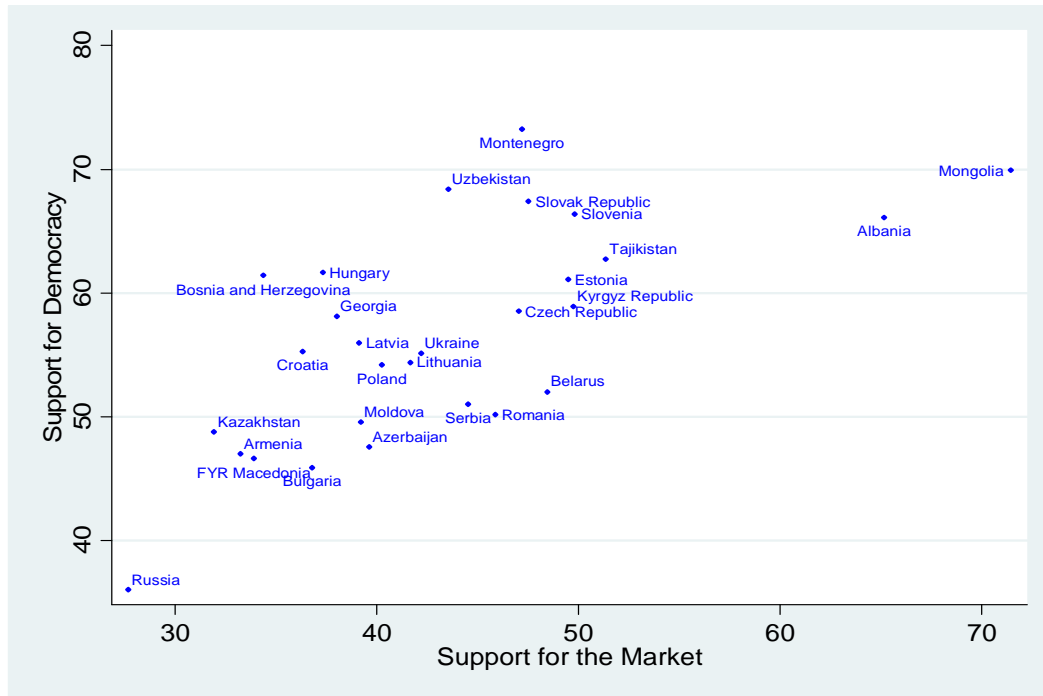
In order to discern the direction of causality between market and democracy, one should ideally rely on a situation in which one variable is exogenously "frozen" while the other randomly takes different values across countries. Of course, in the real world this ideal setting could never exist. On the contrary, market liberalization and democracy are processes that follow highly intertwined dynamic evolutions and depend on countries' historical background.

Even in the case of transition countries, where democracy and the market have both been abolished by the communist experience for at least half a century, these institutions have evolved in parallel since 1989, probably under the influence of common factors, such as popular pressure and the influence of European and international organizations.

As an illustration, Figure 1 shows the strong general cross-country relationship between the average support for the market and the average support for democracy in the 28 countries covered by the *Life in Transition Survey*. Regional differences are also visible. In particular, countries of Central and Eastern Europe and the Baltic states, which are most advanced on the road to a free market and to a full-blown democracy, are also the most supportive of the two processes.

Figure 1. Support for the Market and for Democracy

Percentage of respondents who favor the market/democracy



Notes to Figure 1:

Percentage of respondents who favor the market/democracy, i.e. who declare that “A *market economy is preferable to any other form of economic system*” and “*Democracy is preferable to any other form of political system*” (see section 2.1).

Obviously, using the pooled cross-section data of LITS and running a naive regression of support for democracy on an index of market development, or of support for the market on a democratic index, would come across serious identification problems. The observed correlation would not readily be interpretable in terms of causality because of the influence of omitted variables affecting altogether market development, democracy and the subjective support for either political democracy or a market economy. We propose two different identification strategies in order to isolate the direction of causality from democracy to support for a market economy, and from market development to support for democracy.

3.1. *Democracy and support for the market*

The first question is whether a higher degree of democracy is likely to influence the support for a market economy. To address this question, one needs to overcome the problem that subjective support for a market economy may be due both to the degree of democracy and to the degree of market development itself, both variables being likely to evolve at a parallel pace. It can also be suspected that common “cultural factors” influence attitudes towards both the market and democracy. This potential heterogeneity may come from both national and more local regional history.

In other words, one would like to estimate the naive equation (1) of the support for the market of individual i in region r of country j depending on the degree of democracy in country j ($Democracy_j$):

$$SupportMarket_{irj} = a_0 + a_1 Democracy_j + a_2 X_{irj} + u_i \quad (1)$$

but one suspects that the true relationship is (1’):

$$SupportMarket_{irj} = a_0 + a_1 Democracy_j + a_2 Market_{rj} + a_3 Culture_{rj} + a_4 X_{irj} + u_i \quad (1')$$

where subscripts i stands for individuals, r for regions, j for countries; X_{irj} stands for the socio-demographic characteristics of respondent i living in region r of country j , $Market_{rj}$ reflects the extent of market development in region r , $Culture_{rj}$ embodies regional or national cultural factors and u_i is the error term

Our strategy consists of trying to keep the second and third terms of equation (1’) constant. As

our analysis is based on individual data, we need to find individuals who, in an exogenous way, are confronted to different levels of democracy but to the same degree of market development and who share the same inherited “culture” regarding the politico-economic system.

The specificity of frontier-zones

We rely on the fact that the survey covers a large continuous territory comprising many contiguous countries, including observations at the political border between pairs of countries. The idea is to identify observations in frontier-zones. We assume that, because of spatial integration, people who live in open frontier-zones are influenced by common cultural values and economic conditions, even though they live on different sides of the frontier. In other words, in frontier-zones, while political institutions and the level of democracy vary across the frontier, there is local invariance in the level of market development. This relies on two types of arguments.

The first one is the well-documented high level of interregional trade in frontier-zones (Feenstra, 2004). It is well known that in frontier-zones, whenever it is possible, people do not hesitate to cross the border to work or shop. Seasonal migration (Gould 1994) and “shuttle trade” (see Grafe et al. 2005 in the case of Central Asia) are specific forms of transactions that are particularly vivid near the border, based on local social and business networks (Rauch 2002). Hence regional integration is a fact of everyday lives, which certainly influences the perception of the market by residents of the frontier-zone.

To be sure, political frontiers also act as a barrier to trade between countries, as attested by the “frontier-effect” familiar to trade economists (McCallum 1995, Wolf, 2000). However, recent papers have shown that the lower intensity of trade across frontiers is essentially due to the size of countries, pricing effects (Anderson and van Wincoop 2003), language differences (Melitz, 2002) and currency heterogeneity (Parsley and Wei, 2001; Frankel and Rose, 2002), rather than

to political discontinuity. It is likely that these factors are less important for inhabitants of a frontier-zone than for the average citizen of a country, as the former usually speak at least one common language and are certainly less reluctant to hold the currency of the other country, which they can use frequently. Hence, even though the volume of international transactions is lower than that of intra-country transactions, bilateral trade between two countries is likely to be particularly vivid in the vicinity of the border between them. This is consistent with the well-established finding, using gravity models for instance, that distance is an obstacle to trade, in particular internal distance to the border (Melitz, 2007).

Secondly, in the specific case of the 15 former Soviet republics, regional integration was a hard fact until the early 1990's. Under the socialist system, the economy of the Soviet republics was submitted to the centralized organization of material resources by the Soviet plan based in Moscow. Many countries, particularly in Central Asia and the Caucasus, have inherited from the Soviet Union integrated infrastructure networks, which is a positive factor of trade and regional integration (Broadman, 2006). Fidrmuc and Fidrmuc (2003) actually show that trade among the former constituent republics of the Soviet Union, of Yugoslavia and of Czechoslovakia has remained well above any definition of "normal" trade intensity, even after the disintegration of the three federations. In the case of Central Asia and Caucasus, the very slow change in patterns of trade since 1990 (Babetskii et al, 2003; Broadman, 2006) have led researchers to argue that these countries are "overtrading" among themselves (Grafe et al., 2005).¹⁶

Anecdotal evidence about the vivid economic activity in frontier-zones of the former socialist bloc can be found in Holtom (2006), in the particular example of the Russian-Lithuanian border

¹⁶ Using relative prices of a bundle of goods to complement official trade data, Grafe et al. (2005) show that the impact of borders on trade between Kazakhstan, Kyrgyzstan, Uzbekistan and Tajikistan is much smaller than what the view of cumbersome crossing border procedures and licensing systems would imply. The authors attribute this result to the large development of shuttle trade in this region.

zone: “Every day the population in Russia-Lithuania border town of Sovetsk increases by several thousand thanks to Lithuanian citizens who every morning cross the Koroleva-Luiza bridge on their way to work in the town”. [...] 12 Lithuanian factories have opened in Sovetsk since 2000, providing employment to the people of the town and of the neighboring Lithuanian regions”. Similarly, the opportunities for trade along the Polish-Ukrainian-Belarusian borders gave rise, after 1993, to bazaars and open air markets along Poland’s eastern border. [...] . Based on these arguments and observations, we thus assume that inhabitants of certain frontier-zones share the same experience of the market, even when they live in different countries with different political institutions.

We verify that the degree of market development is more similar between two adjacent frontier-zones than it is on average between two adjacent countries. Using the index of market development as defined in section 3.4, we find that on average, the correlation between indices of market development is three times as high between adjacent frontier-zones of the sample (z_i and z_j) as it is between adjacent countries (i and j) of the sample (see Table A2 in Appendix). If one restricts the analysis to subsets of formerly more integrated countries, the proximity between adjacent frontier-zones appears even higher. For instance, in Central Asia, the correlation between two adjacent frontier-zones is 0.78 against 0.11 in two adjacent countries (row 5 of Table A1). We also checked that in frontier-zones, the structure of employment in terms of occupations and sectors is not statistically different on either side of the borders (Table A3); by contrast this was not true of entire adjacent countries.

Cultural zones

Market integration at frontier-zones is useful to eliminate the risk that the measure of support for market liberalization reflects the actual market development; but what about “cultural” omitted factors? A first element of answer is that the citizens of the former Socialist bloc, and in

particular the Soviet Union, have been living for 45 to 70 years in a common political system marked by strong official ideological values concerning the market. It is not farfetched to assume that they share a common heritage in terms of attitudes towards the market (Alesina and Fuchs-Schundeln, 2007). The very idea of “national culture” is that countries’ past experience continues to exert long-term effects (Fernandez and Fogli, 2005).¹⁷ We therefore rely on the idea that citizens of countries that have belonged to formerly highly integrated zones share a common culture, i.e. common inherited attitudes towards the market and democracy. There are some subsets of the transition countries in which this assumption is particularly appealing. Regions that belonged to the Ottoman Empire (Albania, Bosnia and Herzegovina, Bulgaria, Bessarabia, Crimea, FYR Macedonia, Moldavia, outer Montenegro, Serbia, except Vojvodina, and Wallachia) developed under the same rule for several centuries (see Figure A1).¹⁸ The same is true of regions of the Habsburg Empire (Croatia -except Dalmatia-, Czech Republic, Hungary, Polish Silesia, Slovak Republic, Slovenia, Transylvania and Vojvodina), of Prussia (Estonia, Latvia, Polish Silesia, Pomerania, Royal Prussia), countries of the former Polish-Lithuanian Commonwealth (which included Poland, Ukraine, Lithuania, Belarus and western parts of Russia), countries of the USSR (1922-1991), or countries of the Former Yugoslavia (Bosnia and Herzegovina, Croatia, FYR Macedonia, Montenegro, Serbia and Slovenia), who shared the same rule for several decades (1918-1991). Countries of Central Asia have also shared common influences practically until their independence in the early 1990’s, starting with Alexander the Great’s Empire, then under the Persian, Turkish, Mongol and Timuride Empires and finally under the Russian Empire and the Soviet Union. We thus retain these cultural and historical groupings in order to deal with the potential impact of cultural factors on attitudes towards the

¹⁷ In Bisin and Verdier (2000) or Fernandez and Fogli (2005), culture is defined as long term inertia in preferences.

¹⁸ Of course, the delimitation of the former Habsburg, Prussian or Ottoman Empires has varied greatly along history. We only retain in this paper regions that have belonged to these former Empires for at least 200 years (source: Sheperd, 1911, 1923, 1926; Euratlas, 2008).

politico-economic system (we run sub-regressions inside each of these cultural zones).

We also rely on the fact that current frontiers of many transition countries are more or less artificial divisions of formerly integrated jurisdictions and have been frequently changing. The idea that frontiers are arbitrary has been challenged by recent empirical work, e.g. Schulze and Wolf (2007) who show that frontiers can emerge spontaneously in a manner that separates heterogeneous populations and include together more homogenous groups (see also Alesina and Spolaore, 1997, or Alesina, Spolaore and Wacziarg, 2000). In the case of the former USSR however, frontiers and entire ethnic groups have on the contrary been artificially displaced under the Stalinist regime, mixing heterogeneous populations together and tracing arbitrary frontiers in order to minimize the risk of nationalism, secessionist movements and mobilization against the Soviet regime (Werth, 2001; Cadiot, 2005). Of course, after the dissolution of the Soviet Union new frontiers were traced, which were not all arbitrary. However, the legacy of the Stalinist territorial policy made it impossible to delimitate ethnically homogenous territories. The fact that people were free to move after the delimitation of the border does not alter our main assumption that they share many of the politico-economic attitudes with the inhabitants of the other frontier-zone. Even in Central and Eastern Europe, it was only after the First World War and the collapse of the Ottoman, Tsarist, Prussian and Habsburg empires that ‘nation-states’ became established, and from the start, questions lingered over their viability, precisely because of unresolved ‘national questions’ which did not correspond to the borders of these new states, but on the contrary widely cut across them (Batt, 2002).

Estimating support for the market in frontier-zones

Our test therefore consists, for the set of inhabitants of open frontier-zones, of regressing individual support for the market on an index of democracy, controlling for frontier-zone dummies and other socio-demographic characteristics of respondents. The assumptions of (i)

market integration and (ii) common culture at the frontier between two formerly integrated countries imply that the third and fourth terms of equation (1') are constant and can thus be dropped out. We thus estimate equation (1'') on the sub-samples of frontier-zones. We regress the support for the market of individual i living in frontier-zone k of country j , on the level of democracy of country j :

$$\text{Support Market}_{ikj} = a_0 + a_1 \text{Democracy}_j + a_2 X_{ikj} + a_3 C_k + u_i \quad (1'')$$

where Democracy_j corresponds to the Freedom House democracy score of country j ,

X_{ikj} stands for the socio-demographic characteristics of respondent i , living in country j and

frontier zone k , C_k is a vector of frontier-zone dummies and u_i is the error term. In an alternative

specification, we run the same regression on a dummy variable indicating whether the country of residence of an individual is more democratic than the adjacent country (i.e. we dichotomize the variable measuring the score of democracy). We also check that our results hold when alternative measures of democracy are used (see section 3).

3.2. Market development and support for democracy

To isolate the causation running from market liberalization to support for democracy, we need to overcome the symmetrical problem, i.e. to avoid the contamination of the actual degree of democracy and the influence of “cultural factors” on support for democracy. This implies keeping constant the second and third terms of equation (2):

$$\text{Support Democracy}_{irj} = b_0 + b_1 \text{Market}_{rj} + b_2 \text{Democracy}_j + b_3 \text{Culture}_{rj} + b_4 X_{irj} + u_i \quad (2)$$

Here, we rely on the considerable within-country regional variations in terms of market

development (Zhuravskaya, 2006; EBRD, 2006). We build an index that reflects the regional emergence of private, small and medium enterprises and the formal sector (see section 2.4).

We start with the simplifying assumption that political institutions and “culture” are the same in a given country. We consider that as far as democracy is concerned, the changes mainly operate at the national level, whereas the emergence of the market is more differentiated across regions. Of course, in some countries, the degree of democracy may vary across regions if local governments have an important autonomy in terms of institutional design or implementation of federal laws. However, this problem is not likely to be important in the countries under consideration, which are rather highly centralized politically. Even in the case of the Russian federation, the strong presidential regime, whose focus has precisely been to recentralize state power (Fish, 2001), helps attenuate the (statistical) problem. In other large countries, such as Poland, Romania, Ukraine, Belarus, or Kazakhstan, power devolution to the regions and the extent of local democracy remain limited.¹⁹

We thus identify individuals of a given country who live in regions that experience unequal degrees of market development and we estimate the support for democracy of individual i living in region r of country j on the degree of market development of region r in country j ($Market_{r,j}$), controlling for individual socio-demographic characteristics $X_{i,r,j}$ and for country dummies C_j :

$$SupportDemocracy_{i,r,j} = b_0 + b_1 Market_{r,j} + b_2 X_{i,r,j} + b_3 C_j + u_i \quad (2')$$

¹⁹ See, for example, Kovryga and Mooney Nickel (2004) and Riabchuk (2008) for the case of Ukraine, Regulska (1997) and Yoder (2003) for Poland. For Belarus or other authoritarian regimes in Central Asia, presidential power is an impediment to any form of power devolution.

In order to control for potential omitted cultural factors, we again rely on the long lasting influence of former empires or federations, and we run equation (2') on the various sub-samples of formerly integrated empires and federations and of today's areas of deeper integration.

Admittedly, the identification strategy for the estimation of equation (2') is weaker than that of equation (1''). Indeed, it relies on the assumption that the uneven development of the market across the regions of a country is not due to some local variable that would also affect the political attitudes of the inhabitants. In order to reduce the potential influence of such omitted variables, we control for the type of living area of respondents (metropolitan, urban or rural areas), or for the geographical distance to the capital city. Of course, this does not entirely solve the problem. For example, one could suspect that the western part of Ukraine is both more prone to democracy and to economic development than the eastern part, because it is influenced by the more "modern" values and attitudes of its western neighbors, Poland, Slovakia or Hungary. While we recognize this risk, we assume that the heterogeneity of values and culture inside a given country is smaller than it is on average between different distant countries. The rationale is that there is more cultural distance, on average, between a Lithuanian and a Kazakh than between a Lithuanian and a Pole. This idea is based on the importance of local social interactions in the transmission of cultural traits (Bisin and Verdier 2001, Glaeser et al. 2001). The underlying empirical model is a transposition of gravity models, where cultural proximity is explained instead of commercial intensity. In a companion paper, we estimated a gravity model that allows assessing the role of physical distance and geopolitical factors on cultural attitudes and economic outcomes.²⁰ Estimating the model on the same LITS data, we found that, indeed, physical distance increases the dissimilarity in political attitudes and in economic occupation patterns between pairs of locations, while belonging to the same country, to contiguous countries

²⁰ For a detailed account of the underlying theoretical model and empirical results, see Grosjean (2009).

or to the same former dynastic empire, decreases it.²¹

4. Results

Although simple correlations show that supporting the market and supporting democracy are highly correlated attitudes (the correlation coefficient is 0.45), our identification strategies lead to a more contrasted picture. We find that democracy does increase support for a market economy, whereas the development of the market has no significant effect on the support for democracy.

This pattern is apparent in descriptive statistics. On average, among inhabitants of frontier-zones, the percentage of those who support the market is 7% higher on the more democratic side of the border. By contrast, there is no correlation between regional average support for democracy and the level of market development.

4.1. *Democracy increases support for the market*

We start with a graphical analysis that illustrates the main assumption of the spatial discontinuity regression. Using longitudinal and latitudinal coordinates of each PSU in the sample, we computed the distance of every PSU in each country to each border of this country.²² Distances are indexed negatively when one gets closer to the political border on its least democratic side and with a positive sign on its most democratic side (in terms of the Freedom House Nations in Transit ranking). For example, the distance between a PSU in Poland and the Polish-Belarusian border is indexed positively, while the distance between that same PSU and the Polish-Czech

²¹ The effect is quite large. For example, sharing a common border reduces the dissimilarity in economic occupation patterns between pairs of PSUs to an extent that is equivalent to reducing the physical distance between PSUs by 3029 km (the average distance between PSU pairs being 2019 km). Belonging to the same country is tantamount to reducing the geographical distance by 2163 km and belonging to the same former dynastic empire by 1154 km.

²² We use the great circle formula (Head and Mayer, 2008) in order to compute the physical distance from coordinates.

border is indexed negatively. We then averaged the measure of support for the market and the index of market development across countries, by ranges of distance to the borders.

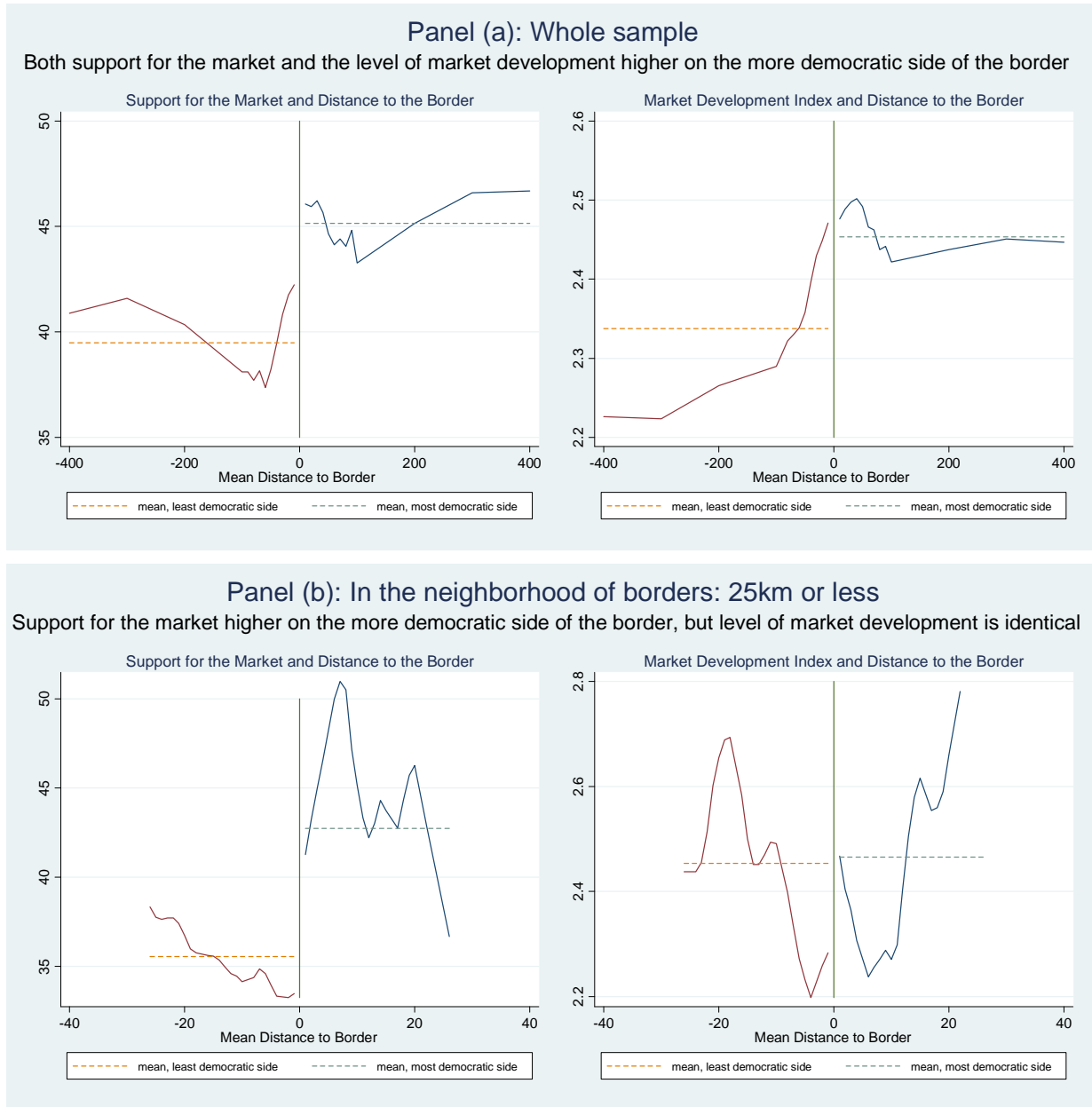
Figure 2 presents the percentage of people who support the market and the index of market development as a function of the distance to political borders.

Panel (a) includes all PSUs of the sample. Support for the market is clearly higher on the “more democratic” side of the borders, but so is the index of market development, so that it is impossible to disentangle the influence of democracy on political preferences from that of market development.

Panel (b) only retains PSUs that are located less than 25 km away from a border. Support for the market is still significantly higher on the “more democratic” side of the border.²³ However, there is no longer any discontinuity at the border in the average level of market development. This indicates that the main identifying assumption of our spatial regression discontinuity is valid: there is local invariance in the level of market development within 25 km of each border, while there is variation in political institutions and preferences for a market economy.

²³ The P-value for a negative difference between the means of “Support for the Market” between the least and the most democratic side of the border is 0.079.

Figure 2: Support for the Market and Market Development Index at the Border



Notes to Figure 2:

In panel (a), distances are rounded to the nearest ten for distances up to 100 and to the nearest 50 for distances higher than 100. Vertical spike represents the border. Locally weighted scatter plot (lowess) (bandwidth of 0.8) on each side of the border. Horizontal lines are averages on each side of the border.

Figure 2 shows that support for the market is markedly higher on the most democratic side of

the border. This effect is confirmed in a regression analysis. Table 1 presents the general regressions of the support for the market on scores of democratization (equation 1’). Columns 1 and 2 present the regression on the *Freedom House Nations in Transit* (2006a) democracy score, whereas columns 3 and 4 contain the regressions on a dummy variable representing the relative advancement of democracy (see section 3.3). All regressions are performed on the sub-sample of respondents living in frontier-zones, less than 25 km away from the border. We control for frontier-zone dummies and standard errors are adjusted for clustering on frontier-zones. Finally, in Table 2, the regressions are performed within each zone of deeper cultural integration, as discussed in section 3.2.

Table 1. Democracy Increases the Support for Market Development

Dprobit Estimates of Support for the Market	(1) Market preferable	(2) Plan preferable	(3) Market preferable	(4) Plan preferable
Democracy index	0.040*** [0.015]	-0.026 [0.019]		
More democracy			0.088** [0.034]	-0.067** [0.028]
Adult (35-49)	-0.067*** [0.015]	0.053*** [0.016]	-0.068*** [0.015]	0.054*** [0.016]
Mid-age (50-65)	-0.094*** [0.021]	0.055*** [0.021]	-0.095*** [0.021]	0.055*** [0.020]
Old (>65)	-0.157*** [0.024]	0.062** [0.031]	-0.162*** [0.025]	0.066** [0.031]
Poor	-0.067*** [0.018]	-0.008 [0.016]	-0.065*** [0.018]	-0.009 [0.015]
Rich	0.016 [0.021]	-0.005 [0.015]	0.011 [0.020]	-0.001 [0.014]
Male	0.051*** [0.010]	-0.001 [0.011]	0.053*** [0.010]	-0.003 [0.011]
Compulsory education	-0.019 [0.032]	0.096*** [0.033]	-0.016 [0.031]	0.100*** [0.031]
Secondary education	0.039 [0.035]	0.131*** [0.034]	0.046 [0.035]	0.130*** [0.032]
Professional education	0.055* [0.032]	0.126*** [0.028]	0.061* [0.032]	0.124*** [0.028]
University education	0.105*** [0.034]	0.193*** [0.034]	0.111*** [0.033]	0.190*** [0.033]
Post grad.. education	0.023	0.200***	0.039	0.190**

	[0.076]	[0.076]	[0.078]	[0.077]
Unemployed	0.000	-0.006	0.006	-0.012
	[0.027]	[0.027]	[0.027]	[0.026]
Self employed	0.096***	-0.088***	0.110***	-0.096***
	[0.027]	[0.018]	[0.027]	[0.018]
White collar worker	0.051	0.006	0.057	-0.004
	[0.037]	[0.028]	[0.036]	[0.028]
Blue collar worker	0.000	0.027	-0.001	0.023
	[0.033]	[0.029]	[0.032]	[0.027]
Service worker	0.033	-0.007	0.043	-0.017
	[0.033]	[0.025]	[0.033]	[0.024]
Farmer, farm worker	0.031	0.014	0.048	0.001
	[0.052]	[0.033]	[0.051]	[0.033]
Pensioner	-0.012	0.004	-0.002	-0.005
	[0.037]	[0.022]	[0.036]	[0.023]
Student	0.023	0.011	0.029	0.004
	[0.059]	[0.046]	[0.057]	[0.043]
Housewife	0.045	-0.026	0.060	-0.039
	[0.049]	[0.028]	[0.048]	[0.028]
Observations	6690	6690	6910	6910
Pseudo R2	0.0689	0.0331	0.0742	0.0337

Notes to Table 1:

Controls: frontier zone dummies. Omitted categories: young (17 to 34 years old), middle income group, lowest education, employee, occupation in army. Robust standard errors adjusted for clustering on frontier zones. *** significant at 1%, ** 5%, * 10%. **Democracy index** is built on the basis of Freedom House (2006a). **More democracy** is a dummy variable based on the same index (see section 3.3).

Columns 1 and 3 in Table 1 analyze the determinants of the probability of declaring that “a market economy is preferable to any other form of economic system”. The coefficients on both the democratic index and the “more democracy” dummy variable are positive and significant. Column 1 displays the marginal effect of a change in the Freedom House democratic score, while the coefficient on the variable “more democracy” represents the effect of a discrete change of this dummy variable from 0 to 1 (on the probability to support the market). Hence, column 3 in Table 1 shows that conditionally on living in a frontier-zone, living on the “more democratic” side of the frontier increases the probability of supporting the market by about 8.8 percentage

points.

Columns 2 and 4 analyze the determinants of the probability to declare that “under some circumstances, a planned economy may be preferable to a market economy”. Column 2 shows that an incremental change in the democracy score does not significantly affect the preference for a planned economy. However, the coefficient on the discrete “more democracy” dummy variable is significant at 5%. Column 4 thus indicates that conditionally on living in a frontier-zone, experiencing a more democratic regime reduces the probability of favoring a planned economy by roughly 6.7 percentage points.²⁴

Other rows of Table 1 display the other correlates of attitudes towards the market. We distinguish three income categories (the richest, middle and poorest quintiles of income inside each country), six educational levels, occupational categories, and employment status (self-employed versus employees). Self-employed workers tend to be more supportive of the market, while elder people and the poorest third of the population are less so.

If one accepts the assumption that people living in a common frontier-zone share the same practical experience of the market (and the same background culture), the lesson of Table 1 is that living in a country with a higher degree of democracy exerts a positive influence on the support for the market.

As a robustness check, we ran the same regression as in column 3 of Table 1 within each frontier-zone.²⁵ The positive effect of democratic institutions on the support for the market was unchanged and proved particularly strong and significant at borders that are well integrated both

²⁴ In alternative specifications not reported in this paper, we verified that our results are robust to alternative specifications, such as OLS or multinomial logit. We also checked that the results are robust to clustering at the country level. Our result holds when people who declare that “it does not matter” are excluded from the sample.

²⁵ Results are not reported here but are available from the authors upon request.

culturally and economically, for example the frontier between Moldova and Romania or between Estonia and Latvia. The effect was also particularly strong for the Belarus-Lithuania, Belarus-Poland and Ukraine-Russia frontier-zones, all formerly part of the Polish-Lithuanian Commonwealth and currently highly integrated.

We also estimated equation (1'') within various sub-samples of frontier-zones belonging to historically integrated regions. Table 2 presents the regressions within “cultural zones” as defined in section 3.1. A higher level of democracy exerts a positive and significant influence on the support for the market in the regions of the former Ottoman Empire, Prussia, Polish Lithuanian commonwealth, countries of the former USSR, of the former Yugoslavia, of the CIS and of Central Asia. By contrast, it is not significant in the former Habsburg Empire. Nevertheless, when Hungary is excluded from the sample, the effect is positive and significant in the remaining regions of the former Habsburg Empire²⁶.

Table 2. Democracy and Support for the Market within Cultural Areas

	(1)	(2)	(3)	(4)	(5)
Dprobit estimates of Support for the Market	Habsburg Empire	Habsburg Empire (i)	Ottoman Empire	Prussia	Polish Lithuanian Commonwealth
Democracy index	-0.003 [0.065]	0.078*** [0.011]	0.105** [0.049]	0.172*** [0.020]	0.032** [0.013]
Pseudo R2	0.07	0.08	0.07	0.51	0.11
Observations	1976	1676	1840	57	1714
	(6)	(7)	(8)	(9)	
	USSR	Yugoslavia	CIS	Central Asia	
Democracy index	0.064*** [0.020]	0.085*** [0.022]	0.060* [0.031]	0.231*** [0.043]	
Pseudo R2	0.09	0.06	0.10	0.13	
Observations	2914	2134	2314	740	

Notes to Table 2:

(i) Without Hungary

²⁶ The unexpected results for Hungary may be explained by the difficult situation in the country, which, at the time of the LITS, was going through a political crisis.

Sub-samples of frontier-zones. Controls: income categories, age categories, gender, occupation categories, self employed, education categories and frontier zone dummies. Robust standard errors adjusted for clustering on frontier zones. *** significant at 1%, ** significant at 5%, * significant at 10%.

Democracy index is built on the basis of Freedom House (2006a).

As a robustness check, we also tested different indicators of democracy: the *Freedom of the World* (Freedom House, 2006b), *BTI* (Bertelsmann Stiftung, 2005) and *Polity IV* (CIDCM, 2006) indicators. The result concerning the influence of democracy on the support for the market was preserved.

We have checked that the relation was robust to the inclusion of other country-level variables, which might have an impact on support for the market and be at the same time correlated with democracy, i.e. life expectancy, GDP per capita, the unemployment rate and the level of government expenditure as a percentage of GDP (a proxy for the importance of the welfare system). These variables were never significant in any of the regressions (in the sub-sample of border-zones).

We also considered the possibility that there might be elements of market liberalization of a country that can be taken advantage of only by citizens of that country. To get around this issue, we controlled for some measures of market liberalization, which could be associated with restrictions to entry and unequal treatment of agents depending on their nationality. We successively included in the regression: the EBRD transition indicator of small scale privatization (which also includes the tradability of land), the EBRD indicator of banking reform and the EBRD indicator of interest rate liberalization. This did not alter the results. Furthermore, these variables turned out not to be significant, consistently with the idea that there is no variation in the perception of market development across borders in frontier zones

4.2. *Market liberalization does not raise the support for democracy*

We now address the symmetric question whether market liberalization increases the support for democracy. As explained in section 3, we rely on the evidence that there are wide regional differences within the countries under study.

Table 3 displays various estimates of political attitudes regressed on indices of regional market development using the entire sample, i.e. including all regions of a given country. Because the impact of market development on political attitudes could be driven by metropolitan regions, in which market liberalization is more advanced and where people are likely to have specific political attitudes, we include a control for the type of area (metropolitan/urban/rural) in all regressions.

Table 3. Support for Democracy and Regional Indices of Market Liberalization

	(1)	(2)
Dprobit estimates of Support for Democracy/Authoritarianism	Democracy preferable	Authoritarian government preferable
Market development index of region	-0.011	0.002
	[0.030]	[0.019]
Adult (35-49)	-0.026**	0.018**
	[0.011]	[0.008]
Mid-age (50-65)	-0.032**	0.022**
	[0.016]	[0.010]
Old (>65)	-0.061***	0.026*
	[0.023]	[0.015]
Poor	-0.053***	-0.001
	[0.010]	[0.006]
Rich	0.031***	-0.003
	[0.010]	[0.005]
Male	0.037***	0.002
	[0.008]	[0.005]
Compulsory education	0.044**	0.029*
	[0.021]	[0.017]
Secondary education	0.105***	0.040***
	[0.022]	[0.015]
Professional education	0.119***	0.046***
	[0.019]	[0.015]
University education	0.188***	0.056***

	[0.020]	[0.016]
Post graduate education	0.254***	0.016
	[0.026]	[0.026]
Unemployed	0.023	-0.013
	[0.018]	[0.013]
Self employed	0.032	-0.017
	[0.022]	[0.014]
White collar worker	0.091***	-0.012
	[0.013]	[0.011]
Blue collar worker	0.031*	-0.01
	[0.016]	[0.012]
Service worker	0.054***	-0.007
	[0.014]	[0.011]
Farmer, farm worker	0.066***	-0.001
	[0.019]	[0.013]
Pensioner	0.001	-0.005
	[0.019]	[0.010]
Student	0.134***	-0.036**
	[0.029]	[0.014]
Housewife	0.045**	-0.037***
	[0.019]	[0.014]
Observations	27920	27920
Pseudo R2	0.054	0.027

Notes to Table 3:

Controls: country dummies, urban/rural or metropolitan area. Omitted categories: young (17 to 34 years old), middle income group, occupation in army, self-employed, lowest education. Robust standard errors adjusted for clustering at the country level. *** significant at 1%, ** at 5%, * at 10%.

The market development index is constructed at the regional level.

Column 1 analyzes the determinants of the probability to declare that “*democracy is preferable to any other form of political system*”. The index of market development has no impact on this variable. Identically, the probability to declare that “*under some circumstances, an authoritarian government may be preferable to a democratic one*” (column 2) does not depend on the index of market development.²⁷ Hence, market liberalization does not appear to reinforce democratic

²⁷ In alternative specifications not reported in this paper, we verified that our results are robust to alternative specifications, such as OLS or multinomial logit. The same result holds when people who declare that it “does not

values. Other effects indicate that the richer, better educated, younger, self-employed people and surprisingly, farmers and farm-workers, are more supportive of democracy. By contrast, the poor, those who have not completed compulsory education and women are less supportive of democracy and more likely to declare that the political system does not matter to them. These results are similar to Fidrmuc (2000).

We also ran the same estimation of support for democracy within each country of the survey²⁸. Country-wise regressions corroborated the finding that support for democracy does not increase with the market development indicator²⁹.

In Table 4, we estimate the support for democracy within each zone of deeper cultural integration. Essentially, regional market development again appears to have no significant impact on the support for democracy. The index of market development is only significant for the regions of the former Habsburg Empire. Again, when Hungary is excluded from the sample, the effect is no longer significant in the remaining regions of the former Habsburg Empire. In countries of the former USSR and of Central Asia, the impact of the market development index is significantly negative.

matter” are excluded.

²⁸ Results are not reported here but are available from the authors upon request.

²⁹ As a robustness test, we ran the same regression as in Table 3 on the Moldovan sub-sample, including the market development index from the Moldovan firm census (see section 2.4) instead of the LITS-based indicator. The coefficient on the index of market liberalization was never significant in any specification.

Table 4. Support for Democracy and Regional Indices of Market Liberalization in Former Empires and Federations

	(1)	(2)	(3)	(4)	(5)
Dprobit estimates of Support for Democracy	Habsburg Empire	Habsburg Empire (i)	Ottoman Empire	Prussia	Polish Lithuanian Commonwealth
Market development Index	0.119***	0.089	0.014	-0.022	-0.004
	[0.046]	[0.092]	[0.048]	[0.128]	[0.044]
Pseudo R2	0.06	0.06	0.06	0.09	0.06
Observations	4635	5635	7954	239	4972
	(6)	(7)	(8)	(9)	
	USSR	Yugoslavia	CIS	Central Asia	
Market development index	-0.080**	0.045	-0.077	-0.204**	
	[0.034]	[0.044]	[0.048]	[0.096]	
Pseudo R2	0.05	0.06	0.06	0.05	
Observations	13952	5971	10972	4000	

Notes to Table 4:

Controls: income categories, age categories, education categories, gender, occupation categories, self-employed, country dummies.

Regions (in columns) are defined as in Table 2. (i) Without Hungary. The market development index is constructed at the regional level.

Robust standard errors adjusted for clustering at country level. *** significant at 1%, ** significant at 5%, * significant at 10%.

Finally, as robustness checks, we use alternative indicators of the explained variable (support for democracy) and of the explanatory variable (market development).

First, we use the score of “attachment to democracy”, as described in section 2.1. We regress this score on the regional market development index, on the whole sample, including the usual controls and clustering at the country level. Again, our regional index of market development does not significantly influence the importance that citizens attach to democratic values. The coefficient estimate is 0.048 and the standard deviation is 0.090.

We then consider the risk that the indices of market development that we use are misconstrued. We use an indicator of relative wealth as an alternative to the market development index. We compute the average aggregate regional income based on the real expenditures declared by the households of the survey, relative to the national average.³⁰ This is based on the idea that aggregate income is an outcome of market development. This relative wealth index is thus more specifically an indicator of the successful outcome of market development. Again, as shown by Table 5, this indicator does not have any significant impact on the attitudes to democracy or authoritarian regimes. This contrasts with the relationship between average income and democracy that has been observed at the aggregate national level by Barro (1996) or Minier (2001).

Table 5. Support for Democracy and Relative Regional Income

	(1)	(2)
Dprobit estimates of Support to Democracy	Democracy preferable	Authoritarian government preferable
Relative Regional Level of Expenditure	0.021	-0.002
	[0.043]	[0.031]
Observations	27960	27960
Pseudo R2	0.055	0.027

Notes to Table 5:

Controls: income categories, age categories, education categories, gender, occupation categories, self-employed, country dummies.

Robust standard errors adjusted for clustering at the country level. *** significant at 1%, ** significant at 5%, * significant at 10%.

Admittedly, the identification strategy is weaker for the estimation of the relationship running from market development to the demand for democracy. This is essentially because of the risk of

³⁰ Household expenditures were adjusted for household size using the modified OECD equivalence scale.

regional level omitted variable. In other words, there may be differences in the degree of development of democracy at the regional level, which are correlated with the regional measure of market liberalization. However, these would likely be upward biases, as more democratic countries are also those in which residents are the more supportive of democracy. The fact that we do not observe any statistical impact of the level of market development on the demand for democracy suggests that the bias is actually negligible. Still, in order to address this potential problem, we ran several robustness tests. First, in the main regression (Table 3), we controlled for the type of area where respondents live, i.e. urban/metropolitan/rural areas, as different level of urban concentration are typically correlated with the type of omitted variable that influences the variables of interest (attitudes and advancement in reforms). Alternatively, for the same reason, we controlled for the distance of respondents location to the capital city of each country, or we dropped metropolitan areas from the sample. This did not alter the results.

In summary, the degree of market development does not seem to exert a sizable impact on the political support for democracy, or on the rejection of authoritarian regimes. In contradiction with a frequently held view that democracy will “follow” market liberalization, developing market institutions is not a guarantee or a sufficient condition of the subsequent emergence of demand for democracy, even when the market is successful in raising aggregate income.

4. Conclusion

The main results of this paper is that, in transition countries, building democratic institutions has acted as an ingredient in favor of market liberalization whereas early market development is no guarantee of subsequent popular support for democracy. This contrasts with the widespread view that the demand for democracy needs naturally emerge as a by-product of capitalism. The sequencing literature (e.g. Giavazzi and Tabellini, 2005) claims that liberalizing the economy in the first place is best for economic growth. Our results suggest that, at a certain point,

democratization may become a necessary condition to obtain public support for further liberalization. To be sure, this does not exclude the risk that democracy complicates the task of reformers, with the risk of impeding market liberalization.

A possible explanation for the positive relationship between democracy and support for a market economy is the impact of democracy on the extent of the social cohesion policy implemented by the government. As advocated by Acemoglu and Robinson (2000) or Acemoglu et al. (2007b), extending democratic rights can play the role of a credible commitment of the government to future income redistribution, thereby contributing to reinforce popular adhesion to the process of economic reform. More generally, citizens of stronger democracies may have more confidence in their ability to obtain a high degree of social insurance in the face of economic shocks.

Appendix

Table A1. Descriptive Statistics

Variable		mean	std. dev.
Market preferable	1 if resp. prefers market economy to other form of economic system	0.43	0.50
Planned economy is preferable	1 if resp. prefers planned economy under certain circumstances	0.26	0.44
Democracy preferable	1 if resp. prefers democracy to other form of political system	0.57	0.49
Authoritarian reg. preferable	1 if resp. prefers authoritarian regime under certain circumstances	0.16	0.37
Old	more than 65 years old	0.16	0.37
Mid-age	between 50 and 65 years old	0.24	0.43
Adult	between 35 and 49 years old	0.31	0.46
Gender	1 if male	0.48	0.50
Unemployed	Actively looking for a job. waiting for an answer or find no job available	0.09	0.29
White collar worker (i)		0.17	0.38
Blue collar worker (i)		0.18	0.38
Service worker (i)		0.12	0.32
Farmer or farm worker (i)		0.05	0.22
Pensioner		0.21	0.41
Student		0.03	0.16
Housewife		0.06	0.25
Self employed	Work as self employed at their main job (regardless occupation)	0.08	0.28
Democracy index	2006 Freedom House Nations in Transit Democracy Index rescaled such that a higher score reflects a higher level of democracy (ii). Min: 1.18 (Uzbekistan), Max: 6.25 (Slovenia).	4.01	1.61
Market development index	Regional index: sum of shares of active population employed in: SMEs. private. post-1989 created enterprises. Min: 1; Max:5	2.39	1.05
Importance of democracy	Index of importance of above democratic institutions (see section 5). Min: 0; Max: 9	5.38	3.59

Notes to Table A1:

(i) The different categories of employment were constructed from the responses about the

respondent’s first job, using the ISCO classification. The ISCO categories corresponding to our “white collar” category are: 1: Legislator, Senior Official and Manager, 2: Professionals, and 3: Technicians and Associated Professionals. Our “service workers” category consists of: 4: Clerks and 5: Service workers and shop and market sales workers. 6: Skilled agricultural and fishery workers are in our “farmer and farm worker category” together with independent farmers. All remaining ISCO categories (except Armed forces, our excluded category) are considered as blue collar workers.

(ii) The *democracy score* ratings from *Nations in Transit* survey by Freedom House are based on a scale of 1 to 7, with 1 representing the highest level of democratic progress and 7 the lowest. It averages ratings for the electoral process, civil society, independent media, independence of the judicial system, and corruption.

Table A2: Correlation between Market Development Indices

	Adjacent frontiers	Adjacent countries
Whole sample	0.68	0.21
CIS	0.21	-0.08
Central Asia	0.78	0.11
Baltic states	0.90	0.38
European Union	0.73	0.26
Former USSR	0.73	0.27
Former Yugoslavia	0.08	-0.27
Former Ottoman Empire	0.10	-0.18
Former Habsburg Empire	0.10	0.07
Former Polish Lithuanian Commonwealth	0.51	-0.13

Notes to Table A2:

Number of observations (frontier-zones): whole sample: 65; CIS (Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Russia, Ukraine and Tajikistan): 23; Central Asia (Kazakhstan, Kyrgyz Republic and Tajikistan): 5; Baltic states: 7; European Union: 26; Former USSR (CIS and Baltic States): 31; Former Yugoslavia (Bosnia and Herzegovina, Croatia, Macedonia, Montenegro, Serbia and Slovenia): 12; Former Ottoman Empire (see below): 13, Former Habsburg Empire (see below): 15; Former Polish Lithuanian Commonwealth

(see below): 20.

For each pair of frontier zones between two countries i and j , the average indices of market liberalization (see section 3.4) are calculated at the level of frontier zone i and frontier zone j and of country i and country j .

Table A3: Respondents characteristics on each side of the frontier

	On less democratic side frontier (a)	On more democratic side frontier (a)	Difference (b)
Age	46.5 [0.293]	48.6 [0.319]	-2.100***
Education	2.46 [0.019]	2.38 [0.021]	0.071*
Proportion of unemployed (i)	0.095[0.018]	0.077 [0.011]	0.018
Proportion of self employed (i)	0.057 [0.007]	0.070 [0.018]	-0.013
Proportion of white collar (i)	0.180 [0.023]	0.137 [0.015]	0.043
Proportion of blue collar (i)	0.153 [0.012]	0.164 [0.012]	-0.010
Proportion of service workers (i)	0.115 [0.010]	0.111 [0.010]	0.113
Proportion of farmers or farm workers (i)	0.043 [0.010]	0.055 [0.024]	-0.012
Observations	3801	3121	

Notes to Table A3:

(a): mean with standard errors in brackets. (b): statistical significance of the difference between means across the border: *** significant at 1%, * significant at 10%. (i) Proportions are computed over the active population.

We checked that the proportion of people employed in each category of the 2 digit ISIC classification of industries is identical on either side of the border (results not reported).

Figure A1. Map of Dynastic Empires in Central and Eastern Europe



Notes to Figure A1:

The figure indicates PSUs that belonged to the Russian, Prussian, Habsburg and Ottoman Empires for more than 200 years.

Source: EurAtlas, *Periodical Historical Atlas of Europe* (2008)

References

Acemoglu, Daron and James A. Robinson. 2000. “Why Did The West Extend The Franchise? Democracy, Inequality, And Growth In Historical Perspective,” *The Quarterly Journal of Economics*, MIT Press, vol. 115(4), pages 1167-1199, November.

Acemoglu, Daron, Simon H. Johnson and James A. Robinson. 2001. “The Colonial Origins of Comparative Development: An Empirical Investigation.” *The American Economic Review*, 91(5): 1369-1401.

Acemoglu, Daron, Simon H. Johnson, James A. Robinson and Pierre Yared. 2005a. “From Education to Democracy?” *The American Economic Review*, 95(2): 44-49.

Acemoglu, Daron, Simon H. Johnson, James A. Robinson and Pierre Yared. 2005b.

“Income and Democracy.” NBER working paper 1125.

Acemoglu, Daron, Simon H. Johnson, James A. Robinson and Pierre Yared. 2007a. “Reevaluating the Modernization Hypothesis”. NBER Working Paper W13334.

Acemoglu, Daron, Maria Angelica Bautista, Pablo Querubin and James A. Robinson. 2007b. Economic and Political Inequality in Development: The Case of Cundinamarca, Colombia. Working paper, June 2007

Alesina, Alberto, Enrico Spolaore and Romain Wacziarg. 2000. “Economic Integration and Political Disintegration.” *American Economic Review*, 90(5): 1276-1296.

Alesina, Alberto and Enrico Spolaore. 1997. “On the Number and Size of Nations.” *The Quarterly Journal of Economics*, 112(4): 1027-56.

Alesina, Alberto and Nicola Fuchs-Schundeln. 2007. “Goodbye Lenin (or Not?): The Effect of Communism on People.” *The American Economic Review*, 97(4): 1507-1528.

Anderson James and Eric Van Wincoop, 2003. “Gravity with Gravitas: A Solution to the Border Puzzle.” *American Economic Review*, 93(1), 170-192.

Andrain Charles F. 1984. “Capitalism and Democracy Reappraised. A review Essay.” *The Western Political Quarterly*, 37(4), 652-664.

Aslund, Anders, Peter Boone and Simon Johnson. 2001. “Escaping the Under Reform Trap.” *IMF Staff Papers*, International Monetary Fund, 48(4).

Babetskii, Ian, Oxana Koukhartcouk and Martin Raiser. 2003. “How Deep is your Trade?” EBRD working paper 83.

Barro, Robert J. 1996. “Democracy and Growth.” *Journal of Economic Growth*, 1(1): 1-27.

Batt, Judy. 2002. “Introduction: Regions, State and Identity in Central and Eastern Europe”, *Regional & Federal Studies*, 12:2, 1 – 14.

Berkowitz, Daniel and John E. Jackson. 2005. ‘The Evolution of an Economic and Political Middle Class in Transition Countries.’ Paper presented at the 2005 Annual Meeting of the

American Political Science Association, Washington, DC.

Bertelsmann Stiftung. 2005. Bertelsmann Transformation Index 2006: Political Management in International Comparison, http://www.bertelsmann-transformation-index.de/fileadmin/pdf/BTI_2006_Brosch_re_GB.pdf (accessed February 2007).

Bisin, Alberto and Thierry Verdier. 2000. "A Model of Cultural Transmission, Voting and Political Ideology." *European Journal of Political Economy*, 16(1): 5-29.

Boix, Carles. 2003 Democracy and Redistribution. New York: Cambridge University Press.

Boix, Carles and Susan Stokes. 2003. "Endogenous Democratization". *World Politics* 55 (July): 517-49.

Broadman, Harry G. 2006. *From Disintegration to Reintegration: Eastern Europe and the Former Soviet Union in International Trade*, World Bank, 440 p.

Burkhart, Ross E. and Michael S. Lewis-Beck. 1994. "Comparative Democracy: The Economic Development Thesis." *The American Political Science Review*, 88(4): 903-910.

Cadiot Juliette 2005. "Searching for Nationality: Statistics and National Categories at the End of the Russian Empire (1897-1917)". *The Russian Review*, 64(3): 440-455.

Centre for International Development and Conflict Management (CIDCM). 2006. Polity IV: Political Regimes Characteristics and Transition: 1800-2004, University of Maryland. <http://www.cidcm.umd.edu/polity/> (accessed February 2007).

Dahl, Robert A. 1982. Dilemmas of Pluralist Democracy: Autonomy vs. Control . New Haven: Yale University Press.

Dethier Jean-Jacques, Ghanem Hafez and Zoli Edda. 1999. "Does Democracy Facilitate the Economic Transition? An Empirical Study of Central and Eastern Europe and the Former Soviet Union", World Bank Policy Research Working Paper No. 2194.

Dewatripont, Mathias and Gérard Roland. 1992. "The Virtues of Gradualism and Legitimacy in the Transition to a Market Economy." *The Economic Journal*, 102(411): 291-300.

Earle, John S. and Zuzana Sakova. 2000. "Business Start-ups or Disguised Unemployment? Evidence on the Character of Self-employment from Transition Economies." *Labor Economics*, 7(5): 575–601.

EBRD Transition Report. 2006. *Finance in transition*, Chapter 1: "Progress in Transition", 1-18.

EBRD. 2007. *Life in Transition, a Survey of Peoples' Experiences and Attitudes.* <http://www.ebrd.com/pubs/econo/lits.pdf> (accessed July 2007)

Euratlas. 2008. Periodical Historical Atlas of Europe. Version 1.2.

Feenstra Robert C., 2004, *Advanced International Trade. Theory and Evidence*, Princeton University Press, chapter 5, 137-173.

Fernandez, Raquel and Alessandra Fogli. 2005. "Culture: An Empirical Investigation of Beliefs, Work, and Fertility." NBER Working Papers 11268.

Fidrmuc Jan. and J. Fidrmuc, 2003. "Disintegration and Trade." *Review of International Economics*, 11(5), 811-829.

Fidrmuc, Jan. 2000. "Economics of Voting in Post-communist Countries". *Electoral Studies*, 19 (2/3), 2000, pp. 197-217. Special issue: Economics and Elections.

Fidrmuc, Jan. 2003. "Economic Reform, Democracy and Growth during post-communist transition." *European Journal of Political Economy*, 19(3): 583-604.

Fish, M. Steven. 2001. "Ten Years After the Soviet Breakup Putin's Path." *Journal of Democracy*, 12 (4): 71-78

Frankel J. and A. Rose. 2002. "An Estimate of the Effect of Common Currencies on Trade and Income." *Quarterly Journal of Economics*, 117(2), 437-466.

Freedom House. 2006a. Nations in Transit 2006: Democratization from Central Europe to Eurasia, Rowman and Littlefield Publishers. <http://www.freedomhouse.org/template.cfm?page=42&year=2006> (accessed February 2007).

Freedom House. 2006b. *Freedom in the World 2006: The Annual Survey of Political Rights and Civil Liberties*, Rowman and Littlefield Publishers.
<http://www.freedomhouse.org/template.cfm?page=25&year=2006> (accessed February 2007).

Fukuyama. 1992. *The End of History and the Last Man*, Free Press 1992.

Giavazzi Francesco and Guido Tabellini. 2005. "Economic and Political Liberalizations." *Journal of Monetary Economics*, 52(7): 1297-1330.

Glaeser, Edward L, Bruce Sacerdote and Jose A. Scheinkman. 1996. "Crime and Social Interactions," *The Quarterly Journal of Economics*, 111(2), 507-48.

Godoy, Sergio and Joseph Stiglitz. 2006. "Growth, Initial Conditions, Law and Speed of Privatization in Transition Countries: 11 Years Later." NBER Working Papers 11992.

Gould David M. 1994. "Immigrant Links to Home Country: Empirical Implications for US Bilateral Trade Flows." *Review of Economics and Statistics*, 76, 302-316.

Grafe, Clemens, Martin Raiser and Toshiaki Sakatsume. 2005. "Beyond Borders: Reconsidering Regional Trade in Central Asia." EBRD working paper 95.

Grosjean, Pauline. 2009. *The Role of History and Geography in Cultural Diffusion: a Gravitational Approach*. PSE working paper n°2009-

Hayo, Bernd. 2004. "Public support for creating a market economy in eastern Europe." *Journal of Comparative Economics*, 32(4): 720-744.

Head, Keith and Thierry Mayer (2008). Detection of local interactions from the spatial pattern of names in France. *Journal of Regional Science*, 48, 67-95

Helliwell, John F. 1994. "Empirical Linkages between Democracy and Economic Growth." *British Journal of Political Science*, 24(2): 225-248.

Hirschman Albert O. 1977. *The Passions and the Interests. Political arguments for Capitalism before its Triumph*, Princeton University Press.

Holtom, Paul. 2006. "Shuttle Trade and New Border Regimes", *Russian Regional Perspectives*

Journal, Volume 1 - Issue 3.

Kovryga Oleksandr V. and Patricia Mooney Nickel. 2004. "The Inevitability of Enduring Historical and Cultural Patterns: The Paradox of Decentralization Efforts in Ukraine."

Administrative Theory & Praxis, 26 (4): 609:634

Leblang, David A. 1997. "Political Democracy and Economic Growth: Pooled Cross-Sectional and Time-Series Evidence." *British Journal of Political Science*, 27(3): 453-466.

Lipset, Seymour M. 1959. "Some Social Requisites of Democracy: Economic Development and Political Legitimacy." *The American Political Science Review*, 53(1): 69-105.

Londregan John and Keith Poole. 1996. "Does High Income Promote Democracy?". *World Politics*, 49: 1-30

Marx, Karl. 1867. *Capital, Vol. 1 A Critique of Political Economy*, ed. Penguin Classic London, 1990.

McCallum John. 1995. "National Borders Matter: Canada-US Regional Trade Patterns." *American Economic Review*, 85(3), 615-623.

Melitz Jacques. 2007. "North, South and distance in the gravity model." *European Economic Review*, 51(4): 971-991.

Melitz, Jacques. 2002. "Language and foreign trade." CEPR Discussion Papers 3590, C.E.P.R. Discussion Papers.

Mill, John Stuart. 1860. *Considerations on Representative Government. In Utilitarianism, Liberty, and Representative Government*, ed. H. B. Acton. London: Dent, 1951.

Miller, Arthur, Vicki L. Hesli and William M. Reisinger. 1994. "Reassessing Mass Support for Political and Economic Change in the Former USSR." *The American Political Science Review*, 88(2): 399-411.

Miller, Arthur, William M. Reisinger and Vicki L. Hesli. 1996. "Understanding Political Change in Post-Soviet Societies: a Further Commentary on Finifter and Mickiewicz." *The*

American Political Science Review, 90(1): 153-166.

Minier, Jenny A. 1998. "Democracy and Growth: Alternative Approaches". *Journal of Economic Growth*, 3(3): 241-66.

Minier, Jenny A. 2001. "Is Democracy a Normal Good? Evidence from Democratic Movements." *Southern Economic Journal*, 67(4): 996-1009.

Papaioannou Elias and Gregorios Siourounis. 2009. "Democratization and Growth". *Economic Journal*, forthcoming.

Parsley David C. and Shang-Jin Wei. 2001. "Explaining the border effect: The role of exchange rate variability, shipping costs, and geography." *Journal of International Economics*, (55): 87-105.

Persson, Torsten and Guido Tabellini. 2006. "Democracy and Development: The Devil in the Details." *The American Economic Review*, 96(2): 319-324.

Persson, Torsten and Guido Tabellini. 2007a. "The Growth Effects of Democracy: Is It Heterogeneous and How Can It Be Estimated?" May 2007, forthcoming in *Institutions and Economic Performance*, edited by E. Helpman, Harvard University Press.

Persson, Torsten and Guido Tabellini. 2007b. "Democratic Capital: The Nexus of Political and Economic Change." NBER working paper 12175.

Przeworski, Adam and Fernando Limongi. 1993. "Political Regimes and Economic Growth." *The Journal of Economic Perspectives*, 7(3): 51-69.

Przeworski, Adam. 2004. "Democracy and Economic Development." In *The Evolution of Political Knowledge*, ed. Edward D. Mansfield and Richard Sisson, Columbus: Ohio State University Press.

Rauch James E. 2002. "Business and Social Networks in International Trade." *Journal of Economic Literature*, 39(4): 1177-1203.

Regulska Joanna. 1997. "Decentralization or (re)centralization: struggle for political power in

Poland.” *Environment and Planning C: Government and Policy*, 15(2) 187–207.

Riabchuk, Mykola. 2008. “Ukraine: Lessons Learned from Other Postcommunist Transitions.” *Orbis*, 52 (1): 41-64

Robinson, James. 2006. “Economic Development and Democracy”. *Annual Review of Political Science*, (9): 503-27.

Rodrik, Dani and Wacziarg, Romain. 2005. “Do Democratic Transitions Produce Bad Economic Outcomes?” *The American Economic Review*, 95(2): 50-55.

Rodrik, Dani. 2000. “Institutions for High-Quality Growth: What they are and How to Acquire Them.” *Studies in Comparative International Development*.

Roland, Gérard and Thierry Verdier. 2003. “Law Enforcement and Transition.” *European Economic Review*, 47(4): 669-685.

Roland, Gérard. 2001. “The Political Economy of Transition.” *The Journal of Economic Perspectives*, 16(1): 29-50.

Schulze, Max S. and Nikolaus Wolf 2007. “On the Origins of Border Effects: Insights from the Habsburg Customs Union.” CEPR Discussion Papers 6327.

Schumpeter, Joseph A. 1942. *Capitalism, Socialism and Democracy*, New York, Harper and Bros.

Tavares, José and Romain Wacziarg. 2001. “How Democracy Affects Growth”. *European Economic Review*, 45(8): 1341-1379.

Werth Nicolas. 2001. *Histoire de l'Union soviétique. De l'Empire russe à la CEI, 1900-1991*, 5ème édition, Paris, PUF, 590 pages.

Wolf Holger C. 2000. “Intranational Home bias in Trade.” *Review of Economics and Statistics*, 82(4): 555-563.

Yoder, Jennifer A. 2003. “Decentralisation and Regionalisation after Communism: Administrative and Territorial Reform in Poland and the Czech Republic.” *Europe-Asia Studies*,

55(2): 263-286

Zhuravskaya, Ekaterina V. 2000. "Incentives to Provide Local Public Goods: Fiscal Federalism, Russian Style." *Journal of Public Economics*, 76(3): 337-368.