

A Service of



Leibniz-Informationszentrum Wirtschaft Leibniz Information Centre

Fidrmuc, Jan

Working Paper

Liberalization, democracy and economic performance during transition

ZEI Working Paper, No. B 05-2000

Provided in Cooperation with:

ZEI - Center for European Integration Studies, University of Bonn

Suggested Citation: Fidrmuc, Jan (2000): Liberalization, democracy and economic performance during transition, ZEI Working Paper, No. B 05-2000, Rheinische Friedrich-Wilhelms-Universität Bonn, Zentrum für Europäische Integrationsforschung (ZEI), Bonn

This Version is available at: https://hdl.handle.net/10419/39651

${\bf Standard\text{-}Nutzungsbedingungen:}$

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.



Zentrum für Europäische Integrationsforschung Center for European Integration Studies

Rheinische Friedrich-Wilhelms-Universität Bonn



Jan Fidrmuc

Liberalization, Democracy and Economic Performance during Transition

B 05 2000

Liberalization, Democracy and Economic Performance during Transition*

Jan Fidrmuc[†]

Center for European Integration Studies (ZEI), University of Bonn and CEPR London

January 2000

Abstract

This paper analyzes the inter-relations between economic and political processes during transition in 25 post-communist countries of Central and Eastern Europe and the former Soviet Union. The main findings are the following: First, economic liberalization generally has positive effect on growth even when controlling for initial conditions. The effect is U-shaped during the contraction and linear during the recovery, but in both periods complete liberalization is superior to no liberalization. Second, democracy has a negative effect on growth during the contraction, whereas its effect appears insignificant during the recovery. Third, economic performance is a strong determinant of support for the reform in elections: support for the reform falls with unemployment and increases with economic growth, output level relative to 1989, and, surprisingly, inflation. Finally, economic liberalization per se increases opposition against the reform, as the costs of the reform apparently go beyond deteriorating economic performance. The level of democracy, in contrast, increases the support for the reform.

Keywords: Democracy, Economic Liberalization, Economic Performance, Voting.

<u>JEL codes</u>: O11, P26, P27

^{*} A previous version of this paper was entitled "Economic Performance and Political Liberalization during Post-communist Transitions." I benefited from comments and suggestions from Jürgen von Hagen, Philipp Harms and Arye Hillman, as well as participants of the EMMA meeting at CentER, the 9th Silvaplana Workshop on Political Economy, ZEI Research Breakfast, and a seminar at SITE. This research was initiated while I was affiliated with the CentER for Economic Research at Tilburg University, whose hospitality and stimulating research environment I gratefully acknowledge.

[†] Address: ZEI, Walter-Flex-Strasse 3, 53113 Bonn, Germany. Email: Fidrmuc@united.econ.uni-bonn.de. Phone: +49-228-73-1821, Fax: +49-228-73-1809. Web: http://homes.arealcity.com/fidrmuc/.

1 Introduction

In Fall 1989, Mikhail Gorbachev renounced the Brezhnev doctrine and replaced it with what later became known as the Sinatra doctrine ("My Way"). Soon thereafter, several dramatic changes took place in the countries of Central and Eastern Europe. The Berlin Wall came down and borders opened up. Romania's beloved leader Nicolae Ceausescu was gunned down by his rebellious subjects. The playwright Václav Havel and electrician Lech Walesa became the presidents of their countries. Throughout the region, communist regimes were toppled by massive protests or armed struggle. Free and democratic elections ensued and sealed the change. After more than forty years, the pendulum of history finally swung back. Soon it appeared that the political transition was essentially over, and the only questions left to be answered were those relating to stabilization, economic reform, and the optimal path to prosperity.

However, the news about the demise of communism proved to be vastly exaggerated. The reform turned out more costly and painful than expected, and public support for belt tightening soon dissipated. Disillusioned voters became easy prey for nationalism and populism. Throughout the region, the former communist parties rose from their graves and returned to power. Symbolically, Poland now has a communist president once again. The pendulum of history swung back, showing how intensely politics and economics have become intertwined in the post-communist countries. The continuation of reforms and the very sustainability of democracy came under threat from the political backlash brought about by adverse effects of the reforms.

The focus of this paper reflects three crucial questions relating to the design of economic reforms in the transition countries: First, was greater liberalization the key to less severe transition-induced decline and faster recovery, or was the gradual approach more successful? Second, what was the effect of political liberalization, alongside economic liberalization, on economic performance? And, finally, what are the political costs of the reform? To what extend is the political backlash against democratic and pro-reform parties a price the reformers pay for excessive adverse effects of the reform?

The first question received a great deal of attention, in the policy debate as well as in the academic literature. Many papers have been written discussing the vices and virtues of shock vs. gradualism, and the discussion is far from over (Lipton and Sachs, 1990, give an early exposition; Dewatripont and Roland, 1996, compile a survey of arguments). With the

publication of the World Bank's World Development Report 1996 (the results of the background study were summarized also by de Melo et al, 1996), the originally mainly theoretical discussion gained an empirical dimension. De Melo et al. (1996) analyzed the patterns of economic performance in a cross section of transition countries and found a positive effect of economic liberalization on post-stabilization growth, and a negative effect on inflation. Subsequent studies soon followed, some confirming de Melo et al.'s finding, other disputing it (see section 3.1 for a more detailed discussion).

The second question, pondering the relationship between political liberalization and economic performance during transition, is mainly motivated by the experience of countries such as Chile, South Korea and Taiwan, which only introduced democracy after economic reform was successfully implemented (see Edwards, 1991). The argument for a benevolent dictator rests on the observation that actions of elected governments often are often motivated by the desire to enlist and sustain support from various constituencies (trade unions, farmers, specific industries) rather than sound economic rationale. In economic transition, when the traditional standing of many constituencies is being changed dramatically, the government will find itself under even greater pressure. Even more importantly, because of the predominantly adverse effects of economic liberalization in its early stages, the reform can be halted or reversed due to political backlash that it generates. Postponement of democracy until the reform starts delivering its positive effects may help bridge this period. The argument in favor of democracy, on the other hand, builds on the importance of guaranteeing the protection and enforcement of property rights. Accordingly, political and civil liberties are necessary in order to protect economic agents from predatory behavior by the government (see North, 1993). Unlike the role of economic liberalization, the effect of democracy on economic performance during transition is relatively little explored empirically. De Melo et a. (1996) and Dethier et al. (1999) point out the high degree of correlation between the measures of economic and political liberalization, and suggest that political liberalization facilitates economic reforms. Political liberalization, they argue, affects economic performance only indirectly, through its effect on economic liberalization. The direct effect of democracy alongside economic liberalization on economic performance during transition has not been addressed in the previous literature, however.¹

Finally, political sustainability of economic reforms is a necessary condition for the

¹ Barro (1996), in contrast, studies the relationship between democracy and economic growth in a cross section of developed and developing countries.

successful completion of the reforms (see the discussion in Dewatripont and Roland, 1996). Not surprisingly, economic performance is a strong determinant of the political support for the reforms. Previous studies on this topic include Fidrmuc (2000a,b), who uses regional results of national elections to study economic determinants of voting preferences in the Czech Republic, Hungary, Poland and Slovakia; Hayo (1999), who uses the Eurobarometer surveys to explore the determinants of support for the creation of a market economy; and Brainerd (1999), whose analysis of the relationship between individual economic characteristics and voting behavior in Russia is based on household surveys.

The objective of this paper is to broaden our understanding of these three types of interactions between economics and politics in the post-communist countries in transition. The main results are the following: First, I find strong and positive relationship between economic liberalization and economic performance, even after controlling for initial conditions measured by the countries' distance from Western Europe, their initial GNP per capita, population growth, secondary school enrollment, and a dummy for military conflicts. The effect of liberalization is particularly strong during the later period of transition (recovery). Second, I find that democracy has a U-shaped effect on economic performance, at least during the early part of the transition (contraction). Thus, either no democracy or full democracy leads to better economic performance than moderate democracy. This result for transition countries stands in contrast to that found by Barro (1996) for a broad section of developed and developing countries—his findings indicate an inverse U-shaped relationship. Finally, I find a strong effect of economic performance on election results in a subset of transition countries that I analyzed. In particular, support for the pro-reform parties is negatively related to unemployment and positively to economic growth, output level relative to 1989, and, surprisingly, inflation. Moreover, economic liberalization per se increases opposition against the reform, as the costs of the reform apparently go beyond what can be explained by deteriorating economic performance.

In the next section, I take stock of the main results of economic and political transition in 25 countries in Central and Eastern Europe (CEE) and the former Soviet Union (FSU). In section 3, after briefly surveying previous arguments put forward in the literature, I evaluate the relationship between economic and political liberalization, and economic performance. In section 4, I look at the relationship between economic performance and political support for reforms, as reflected in electoral outcomes in seven post-communist countries. Finally, section 5 concludes.

2 Growth Performance during Transition

The severity of the adverse effects of reforms adopted in early 1990s exceeded most expectations. Table 1 reports basic indicators of economic performance for 25 transition countries. According to the official statistics, economic activity virtually collapsed in many post-communist countries. By 1998, real GDP shrank to between 25 and 83 % of the level attained in 1989 (Georgia and Uzbekistan, respectively, were the two extremes). The average cumulative contraction of output for the 25 countries listed in Table 1 was 42 %. For comparison, US GNP fell by 34 % during the Great Depression. The output fall was also relatively long-lasting, the average duration of the depression was 5.6 years, 4.2 years in CEE and the Baltics and 7 years in the FSU. The subsequent cumulative increase of GDP was relatively small, 10 % on average. Price liberalization brought about a one-time inflationary jump as the prices adjusted to equate demand and supply. However, inflation spiraled away in several post-communist countries, reaching four or even five digit levels. Unemployment rate increased from virtually zero to well over 10% in most countries. Transition also brought about a dramatic increase in income inequality and poverty: for instance, the number of people below poverty line in the FSU increased from 14 million in 1989 to 147 million.

Insert Table 1 about here.

It is generally accepted that the official statistics exaggerate the severity of the output fall. The statistics directly measure the production of medium-sized and large firms, but only estimate the output of small firms which make up most of the new and growing private sector. Over-reporting under communism (for political reasons) and under-reporting at present (for tax purposes) also play a role. The official statistics only imperfectly estimate the transfer of economic activity from the official to the unofficial economy. In addition, output fell also because of the elimination of undesired production, reduction of waste, and fall in inventories as the shortage economy turned into a surplus one. Nonetheless, even if overestimated by the official statistics, the reform-induced output fall in CEE and FSU was undoubtedly very severe.

Several theoretical explanations have been suggested to account for the output fall. Calvo and Coricelli (1993) blame the credit crunch—credit restrictions and high real interest rates—due to overly restrictive monetary policy. Blanchard and Kremer (1997), and Roland and

Verdier (1999) develop supply-side explanations based on disorganization of production (supplier-buyer) relationships due to asymmetric information about outside options in bargaining, or search frictions and relation-specific investment, respectively. Finally, Hillman (1999) and Hillman and Ursprung (1999) suggest that the output fall occurred because economic and political reforms were not accompanied by a change of political culture. Hence, the political culture of rent seeking remained in place, and time and resources spent for rent-seeking activities even increased, thus precipitating the output fall. This proposition is supported also by Shleifer (1998) who compares the outcomes of transition in Poland and Russia. In particular, Shleifer notes that in Poland most of the post-communist political leadership are new politicians. In contrast, the Russian political elite is composed primarily of former communists.

The ultimate objective of the reforms was to remove the inefficiencies inherent to the socialist economy, and transfer resources to a more productive use. After an initial transitory decline, economic activity should have picked up and exceeded the pre-reform levels. Instead, the recovery proved to be slow or non-existent. As Table 1 reports, GDP on average increased by less than 10 % since the economy had hit the bottom. As of 1998, the recovery has not yet occurred in four countries: Russia, Ukraine, Moldova and Kazakhstan. Only in Poland and Slovenia output exceeded the pre-transition level by 1998. In general, the countries of Central Europe and the Baltics succeeded in stabilizing their economies and resuming growth, whereas economic performance was much worse in the Balkans and especially the FSU.

There are marked differences also in terms of progress in liberalization and implementation of democracy among the transition countries. The EBRD has published annual indicators of progress in transition since 1994. The average value² (henceforth referred to as the Liberalization Index) of these indicators as of 1998 is reported in Table 1. Accordingly, Hungary progressed furthest in terms of liberalization, closely followed by the Czech Republic, Slovakia, Poland and Estonia. In contrast, Turkmenistan, Belarus, and Tajikistan progressed the least.

Progress in political reforms is reflected in the indices of political rights and civil liberties

² The EBRD index is based on the average of progress-in-transition indicators (large-scale and small-scale privatization, enterprise restructuring, price liberalization, trade and foreign exchange liberalization, competition policy, banking reform, securities markets, and legal rules on investment) compiled annually by the European Bank for Reconstruction and Development (EBRD). The indicators take values from 1 (little progress) to 4+ (comparable to developed industrial economies). The index reported in Table 1 is the unweighted average of the EBRD indicators (with 4+ replaced by 5). It is normalized so as to take values between zero (little liberalization) and one (maximum liberalization).

reported by the Freedom House. Table 1 reports the average value³ (henceforth referred to as the Democracy Index) as of 1998/99. Accordingly, Hungary, along with the Czech Republic, Poland, Slovenia, and the Baltics are most democratic among the transition countries (having received the same marks as Germany or the UK). On the other hand, Belarus, Tajikistan, Turkmenistan and Uzbekistan are least democratic.

3 Determinants of Economic Performance

3.1 Previous Findings and Controversies

The question most often pondered by the literature concerns the relationship between economic performance during transition and the choice of reform strategy: Did the countries that chose a rapid reform strategy incur greater or smaller costs in terms of output decline and inflation? Did rapid reforms pay off with a faster subsequent recovery, or did the countries that postponed or avoided reforms succeed in avoiding the output fall? And, even more importantly, where the post-communist countries in a position to choose the speed of reforms, or was the choice pre-determined by their respective starting situation?

The literature attempting to answer these questions can be divided into two groups: those who argue that economic liberalization brought about better economic performance, and those who argue that initial conditions were crucial in determining both the progress in economic liberalization and economic performance.

The search for a causal relationship between economic liberalization and performance in transition was started by de Melo et al. (1996). They construct annual liberalization indices for three broad areas of reforms—liberalization of internal markets, liberalization of external markets, and privatization and restructuring—for the individual transition countries over 1989-94. These indices are the basis for their measure of economic liberalization—the cumulative liberalization index (CLI), defined as the sum of yearly weighted-average indices (with weights 0.3, 0.3 and 0.4, respectively). Their conclusion is that more liberalization was associated with higher growth and lower inflation (both averaged over 1993-94).

Other studies reached similar conclusions. Fischer et al. (1996, 1997) extend the analysis

³ The Freedom House indices evaluate the extent of political rights and civil liberties. The index reported in Table 1 is the average of the two indices, normalized so that it ranges between zero (no democracy, original Freedom House 7) and unity (full democracy, Freedom House rank 1).

to panel data framework. Selowsky and Martin (1997), also using panel data, argue that liberalization has different effects on performance in CEE and the FSU. In particular, while liberalization has immediate positive effect on performance in CEE, it is associated with initial deterioration and only subsequent improvement in the FSU. Similarly, Tichit (1999) finds that several variables have different, sometimes even opposite effect on economic performance in the CEE and the FSU. Finally, Havrylyshyn et al. (1998) show that the effect of liberalization is more profound at a later stage in the transition than at its outset.

However, Åslund et al. (1996) find that the relationship between liberalization and average growth over 1989-95 turns out to be insignificant after including dummies for the ruble zone⁴ and war-torn countries. Åslund et al. interpret this result as indicating the importance of initial conditions. Accordingly, the countries with more favorable initial conditions were able to liberalize more and experienced less severe economic decline. However, although this interpretation is plausible, the result also reflects the construction of the CLI. The FSU countries started liberalizing later and therefore their CLI, which reflects both the intensity as well as the duration of liberalization, is by definition lower.⁵ The rublezone dummy then proxies for cumulative liberalization and effectively divides the post-communist countries into groups with high and low cumulative liberalization. Given the small sample size (24 countries), the CLI turns out insignificant. Moreover, Åslund et al. (1996) report significant effect of cumulative liberalization on the growth rate as of 1995 even when including the ruble-zone and war-torn dummies.

Heybey and Murrell (1999) as well as Krueger and Ciolko (1999) also underscore the importance of initial conditions. Both papers argue that economic liberalization is in fact endogenous and pre-determined by the initial conditions. Heybey and Murrell estimate a system of simultaneous equations to show that there is in fact two-way causation between economic growth and the speed of liberalization (measured as the change in the annual liberalization index). Krueger and Ciolko, in turn, show that the level of liberalization (measured by the CLI) is well explained by a simple regression including a dummy for the FSU (former Soviet Union), GNP per capita as of 1988 and the ratio of exports to GDP.

Finally, the effect of democracy on economic performance during transition has been

⁴ All members of the former Soviet Union, including the Baltic states.

⁵ Heybey and Murrell (1999) point out further problems related to the use of the CLI. In particular, the CLI reflects neither the level, nor speed of liberalization (the former is measured by the annual liberalization index whereas the latter is captured by the change of the annual index).

largely ignored in the literature. Instead, the attention turned towards the relationship between democracy and economic liberalization. De Melo et al. (1996) observe that political liberalization (measured by the Freedom House index of political rights and civil liberties) is strongly and positively correlated with the liberalization index. They suggest that political liberalization encourages economic liberalization, although the causality can also be two-way. Accordingly, the effect of political liberalization on economic performance is only indirect, via its effect on economic liberalization.

3.2 Economic Liberalization and Initial Conditions

Table 2 presents the results of cross-country regressions for the 25 countries of Central and Eastern Europe and the former Soviet Union listed in Table 1. The dependent variable is the average growth. The regressions are estimated for three periods: the entire transition period (1990-98), the initial period characterized chiefly by contraction (1990-93), and the later period, which in most countries was associated with (at least the first signs of) recovery (1994-98). The unweighted average rate of growth during the entire period was –4.33% annually, during the contraction period, GDP on average fell by -9.71% per year, whereas the growth rate during the recovery was essentially zero, -0.03%. Separate analysis of the two sub-periods should reveal whether different factors were important during the early and later phases of the transition, or whether the effect of individual factors was different.

Insert Table 2 here.

The explanatory variables include the liberalization index, measures reflecting initial conditions, and some of the variables that were found to be significant in the growth literature. As pointed out above, the CLI may not be the best measure of economic liberalization for several reasons. Therefore, the regressions use the average values of annual liberalization indices, and thus account for the average level of liberalization during the respective period rather than cumulative liberalization or speed of liberalization.⁷ As the EBRD started to report its liberalization index only as of 1994, the indices constructed by de Melo et al. (1996) are

⁶ In contrast, the effect of democracy on economic performance developed and developing countries has received considerable attention, see Barro (1996) and the references therein.

⁷ The problem with using the CLI is that, over longer period, a country, which started to liberalize earlier, could easily report higher CLI than a country that liberalized later but attained much higher level of liberalization. Using the speed of reforms as an explanatory variable is also problematic, as, for example, countries with no liberalization and complete liberalization would both report zero speed of liberalization.

used for 1990-93. For the regression covering the entire transition period, the series linking up de Melo et al.'s and EBRD indices, constructed by Havrylyshyn et al. (1998), is used.⁸ The upper part of the table enters the liberalization index in linear form, whereas the lower part stipulates a quadratic relationship.

The regressions control for initial conditions by including the distance from the country's capital to Western Europe (represented by Brussels)⁹ and a dummy for countries affected by military conflicts (equal to unity for Croatia, Macedonia, Armenia, Azerbaijan, Georgia and Tajikistan). The distance from Brussels serves as a proxy for a variety of factors such as historical legacies, social, cultural and religious traditions, level of economic development, quality of institutions and the rule of law, as well as the cost of engaging in economic relations with Western Europe.¹⁰ The distance from Western Europe replaces the commonly used dummy for Former Soviet Union. Unlike the FSU dummy, it provides a continuous measure of initial conditions. Clearly, the initial conditions in Estonia were dramatically different from those in Tajikistan (for example).

The Liberalization Index is negatively correlated with the distance, the correlation coefficient between the distance from Brussels and the Liberalization Index for 1990-93 (1994-98) is -0.74 (-0.66). Hence, the further a country lies from Brussels, the more reluctant it was to implement radical economic reforms.

Overall, the effect of liberalization on growth is significant and positive in all three subperiods. There are, however, important differences when comparing the contraction and the recovery. The effect during the contraction is better depicted by a quadratic relationship, which indicates a U-shaped pattern (Havrylyshyn et al., 1998, reach a similar conclusion). Accordingly, liberalization in transition countries retards growth at low levels but accelerates growth after a moderate level of liberalization has already been attained. Either no liberalization or full liberalization is better than intermediate liberalization. The minimum effect of liberalization is attained at value of liberalization index equal to 0.34, i.e. slightly higher than the value ascribed to Russia and Moldova during that period. Once the minimum level has been exceeded, there are increasing returns to further liberalization. It is important to note though that full liberalization is superior to no liberalization at all.

⁸ I am grateful to Ron van Rooden for kindly sharing this series with me.

⁹ As I was unable to obtain distance from Brussels for Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan, I estimated it with 6,000 km—see Table 1.

¹⁰ Brussels serves here purely as a point of reference for measuring distance from Western Europe. Fischer et al. (1998b) use distance from Brussels, Murrel (1996), on the other hand, uses the distance of Vienna. Neither, however, uses it as an explanatory variable in determining economic performance.

The U-shaped effect of liberalization on growth reflects, first, the fact that some countries started implementing economic reforms later, and accordingly succeeded to postpone the transition-induced contraction (for this reason, some analysts advocate the use of 'transition time' rather than calendar time). Note, however, that the effect of liberalization on growth is clearly positive in the later transition period, and, hence, a postponement of reforms can only provide temporary protection from contraction. Second, it indicates that while intermediate reform does not avoid disruptions to economic activity (or disorganization, as argued by Blanchard and Kremer, 1997), it does not deliver the same efficiency gains as a complete reform.

During the recovery period, the linear relationship fits quite well the relationship between liberalization and growth. The regression with the non-linear specification produces slightly lower adjusted R^2 . Moreover, it indicates that the relationship is hump-shaped, with the maximum effect at value of 0.87, substantially higher than the maximum level of liberalization attained among the transition countries by 1998. Finally, the relationship during the entire transition period is also better depicted by a linear specification. The coefficients for the non-linear specification are jointly significant, but the minimum effect is estimated at value of -0.35, which is outside the actual range of the liberalization index. Hence, all observations lie along the upward sloping part of the U-shaped curve.

The effect of liberalization on growth is also economically significant. Full liberalization (increase in the value of the index from zero to unity) is associated with average growth higher by 16.2 percentage points during the contraction (based on the non-linear relationship) and 22.6 percentage points during the recovery (based on the linear relationship, the non-linear relationship predicts a gain of 16.9 percentage points).

Åslund et al. (1996) find that the effect of economic liberalization on economic performance becomes insignificant after controlling for initial conditions by including dummies for the FSU (including the Baltics) and countries affected by military conflicts. When controlling for the initial conditions by the distance from Western Europe along with the dummy for military conflicts, the effect of liberalization remains strongly significant in both periods. Hence, the regression results presented in Table 2 show quite convincingly that the countries that liberalized more aggressively in general record significantly better economic performance than the countries that proceeded in a more hesitant manner. To reconcile the result obtained here with those presented by Åslund et al. and other studies, one should note that their regressions were estimated for the early years of the transition when the

effect of liberalization appears to be better accounted for by a non-linear relationship. In addition, the FSU dummy is not a very good measure of initial conditions, as it assumes identical initial conditions for a rather diverse group of countries.

It is, however, possible that the regression results reflect reverse causation, in particular, economic performance may determine the progress in terms of economic liberalization. To check for possible endogeneity, I estimated the regressions with liberalization indices pertaining to the first year of the respective period (i.e. 1990 for both 1990-93 and 1990-98 and 1994 for 1994-98). The regression results were affected only marginally.

The regressions reveal also the importance of initial conditions. Interestingly, the distance from Western Europe appears more important during the recovery than during the contraction. The difference in underlying initial conditions that is associated with being further from Brussels by one thousand kilometers implies a reduction in average growth by 1.1 percentage point during the recovery. The dummy for military conflicts has a strongly negative effect on economic performance during the contraction. Countries engaged in or affected by military conflicts experienced growth lower by 10.1 percentage points annually during the contraction. Somewhat surprisingly, at least at first sight, the dummy obtains a positive sign during the recovery, when the same countries report average annual growth higher by 4.7 percentage points. The positive coefficient of the conflict dummy in the recovery period apparently reflects the fact that the most of the conflicts have already ended or subsided by mid 1990s and the countries are now recovering and making up for the lost output. The main exception is Tajikistan, which is still stricken by continuing internal conflicts as well as by the civil war in neighboring Afghanistan.

Population growth, secondary-school enrollment and the initial level of GNP¹¹ are some of the variables typically found important in the economic growth literature—see, for example, Barro (1991), and Levine and Renelt (1992). Fischer et al. (1998a) use these and other variables to predict growth prospects for the transition countries. ¹² The growth literature suggests that population growth has a negative effect and school enrollment a positive effect on growth. However, it appears that in the transition countries, population growth only affects

¹¹ The data can be criticized. Contemporaneous population growth and secondary-school enrollment were chosen even though these variables obviously need time to take effect. However, the alternative was to use data stemming from the communist period, which are known to be unreliable. The estimates of the initial GNP seem to be unrealistically high for the FSU republics. Given that these figures are in purchasing-power-parity terms, the high figures reported for the FSU probably reflect, among other factors, low prices for energy and housing.

growth during the contraction period, and its effect is actually positive. This may be due to the large migratory movements taking place in the wake of break-ups of the Soviet Union and Yugoslavia. Migration, unlike natural population growth, entails departures or arrivals people in economically productive age, and it is not surprising that its effect is positive (Tichit, 1999). On the other hand, population growth turned out insignificant in the regressions for the recovery period and was therefore omitted.

The secondary-school enrollment has the expected sign and is significant in both subperiods: better human capital improves growth performance. Other variables suggested by the
growth literature, in particular primary-school enrollment and government expenditure, were
generally not significant. In fact, if anything, government expenditure actually appears to have
a mild positive effect on growth during transition (Campos, 1999, obtained a similar result).

Investment (as a share of GDP) has a significant and positive effect during the contraction
only, whereas it is insignificant and negative during the recovery (not reported). Investment
apparently takes time to have a positive effect on economic performance. Tichit (1999) found
that investment has positive effect on growth only in the CEE countries, whereas it is
insignificant in the FSU. This pattern can also be behind the insignificant results obtained for
a cross section of CEE and FSU countries.

The coefficient on the initial GNP per capita is negative (although during the recovery it is only marginally significant). The negative coefficient is consistent with the notion of conditional convergence, as predicted by the neoclassical growth theory. Hence, countries that were initially poorer, tend to grow faster (when controlling for other factors affecting growth).

The regressions reported in Table 2 provide a rather good account of the determinants of growth in the transition countries, with the adjusted R^2 ranging between 0.57 and 0.80. The most important explanatory variable is the liberalization index, which alone (along with the constant) produces an adjusted R^2 of 0.48 for the entire-period regression. The distance from Brussels alone results in an adjusted R^2 of 0.20. The dummy for military conflict alone produces an adjusted R^2 of 0.13. Population growth, secondary school enrollment, and the initial GNP each yield an adjusted R^2 between 0.02 and 0.04.

¹² However, because of the extraordinary nature of the post-communist transition, it is not surprising to find that the determinants of growth in transition countries are different from those in market economies. See Campos (1999) for more discussion.

3.3 Democracy and Economic Performance

Barro (1996), in his well know study on the relationship between democracy and growth found that "democracy enhances growth at low levels of political freedom but depresses growth when a moderate level of freedom has already been attained" (p. 1). A clear policy implication based on this conclusion is that the transition countries should have introduced only limited democracy, until reaching a level of economic development when they can afford the luxury of full democracy. In fact, Barro (1996) predicts that Hungary, one of the few post-communist countries in his data set, will experience a deterioration of democracy between 1994 and 2000, as the extent of democracy reached by 1994 was not commensurate to its level of economic development.

That is not what has happened. Table 1 reports the values of the Democracy Index as of 1998/99. The countries that introduced widest democracy (Hungary, the Czech Republic, Poland, Slovenia, and the Baltics) also achieved the best results in terms of economic performance. In contrast, some of the countries that implemented only moderate democracy (for example Russia, Ukraine and Moldova) saw their economic activity plunge with little signs of subsequent recovery.

The liberalization and policy discussion abounds with arguments both in support and against introduction of democracy simultaneously with economic reforms. On the one hand, it is argued that an authoritarian government may be necessary to implement reforms, which will in the end increase efficiency but are costly in the short term. Democracy would put political constraints on the ability of the government to implement such reforms. Fernandez and Rodrik (1991) show that rational voters may reject a reform that benefits a majority if individual payoffs are uncertain. Such a reform would be sustained *ex post* once it is implemented but would be rejected if subjected to a vote *ex ante*. Similarly, Alesina and Drazen (1991) show that efficiency-enhancing reform can be delayed due to war of attrition and asymmetric distribution of payoffs. The experience of Latin American countries as well as South Korea and more recently China is often quoted as an example of a successful transition without simultaneous political reform (see for example Edwards, 1991, and Rodrik, 1996).

On the other hand, lack of democracy, and the lack of rule of law typically associated with it, increase the uncertainty and reduces incentives for engaging in profit-seeking activities. As North (1993) puts it, "well specified and enforced property rights, a necessary condition for economic growth, are only secure when political and civil rights are secure; otherwise

arbitrary confiscation is always a threat."¹³ Anecdotal and survey evidence, especially from the former Soviet Union, seems to support this point (see Shleifer, 1998).

Yet, the effect of democracy on economic performance during transition has not been explicitly studied. De Melo et al. (1996) and Dethier et al. (1999) observe that the levels of liberalization and democracy are strongly correlated in the transition countries. Indeed, the correlation coefficient between the average indices of liberalization and democracy over 1990-98 is 0.88. They argue that democracy facilitates economic liberalization in the transition countries. Thus, the perceived relationship between democracy and economic performance is only indirect, via the effect of democracy on economic liberalization.

Table 3 fills this void by empirically analyzing the relationship between democracy and economic performance in the transition countries. The regressions control for some of the variables included already in Tables 2: the liberalization index, the distance from Western Europe, secondary school enrollment, the conflict dummy, and the initial GNP. The democracy index is based on the scores reported by the Freedom House, as explained above. As with the liberalization index, the indices used are the averages over the respective periods. Again, contraction and recovery periods are considered separately. Non-linear relationship is stipulated for the liberalization index during the contraction, based on the findings of the preceding sub-section.

Insert Table 3 here.

It is important to note that the effect of liberalization remains strongly significant and of similar magnitude as in the corresponding regressions in Table 2. Hence, the effect of democracy goes beyond facilitating economic liberalization. On the other hand, the distance from Western Europe is no longer significant in the regression for the contraction period after controlling for democracy (and it is only marginally significant during the recovery). This may indicate that the extent of democracy is correlated with (some of) the initial conditions. In particular, the further a country is from Western Europe, the less democratic it is (correlation coefficient –0.82).

As with liberalization, the relationship between democracy and growth is different during

_

¹³ North (1993) argues that England and the Low Countries achieved sustained per capita growth during and after the Industrial Revolution because political freedoms and representative government guaranteed property rights. In contrast, Spain, Portugal, the Arab world and medieval China eventually failed economically, despite having created vast empires and assembled great wealth.

the contraction and the recovery. During the contraction, as well as during the entire transition period, more democracy actually hurts growth performance of the transition countries. On the other hand, the effect is positive but insignificant during the recovery. Hence, simultaneous economic liberalization and introduction of democracy during the early phase of transition was indeed associated with worse economic performance. Transition countries thus could do better by postponing the introduction of democracy temporarily while implementing economic reforms. This goes against the argument put forward, among others, by de Melo et al. (1996) and Dethier et al. (1999) who indicate that democracy should have, at least indirectly, a positive effect on growth, as it reinforces economic liberalization. On the contrary, the results presented here indicate that, once controlling for economic liberalization, the effect of democracy is negative. ¹⁴

The negative effect of democracy on growth can be ascribed to two reasons (at least). First, it may reflect increased political uncertainty, as democratic governments are faced with political backlash in the wake of short-term adverse effects of the reforms. Such uncertainty reduces incentives to engage in profit-bearing activities. Second, governments facing reelection may pursue short-term political aims, even if these are detrimental to long-term economic performance. Both factors become less important during the later phase of the transition, as economic and political developments consolidate. The insignificant result for the recovery period may therefore occur as the relationship between democracy and growth converts from a negative one to a different, long-term relationship.

The effect of democracy on growth in transition stands in contrast to the one found by Barro (1996), although he obtains his result with a different set of explanatory variables. As all transition countries started off with from low levels of democracy, according to the pattern found by Barro the effect of introducing democracy should be initially positive, until an intermediate level is reached. Instead, the relationship appears negative for the transition countries.

As was the case with the effect of liberalization on growth, there is also the possibility of reversed causation. Countries that experienced less severe transition-induced decline may have found it easier to implement political reforms. Or, governments experiencing adverse economic developments shied from political liberalization in order to avoid being toppled in

_

¹⁴ The effect of democracy appears U-shaped during the contraction when the liberalization index is included only in linear form. When both indices are included in quadratic form, only the U-shaped effect of liberalization remains significant, whereas the joint significance level of the linear and quadratic terms for democracy falls to 20%.

democratic elections. Indeed, regressions with the initial level of democracy (1990 and 1994 for the respective periods) instead of average values produced insignificant results. However, the informational value of the 1990 democracy index is very questionable, as it does not distinguish among the constituent parts of the Soviet Union, Yugoslavia and Czechoslovakia. Therefore, it is not all that surprising that it is insignificant.¹⁵

4 Economic Performance and Political Support for the Reforms

The adverse effects of reforms have had profound political consequences. The support for radical economic reforms quickly dissipated in most of the post-communist countries. The intensity of political backlash against the reforms has been related to the extent of adverse effects of the reforms, in particular unemployment. A good example of this relationship is the Czech Republic, where the pro-reform parties remained in power as long as unemployment remained low. Fortunately, in the countries where post-communist parties returned to power, reforms were generally not reversed—in some cases (especially Hungary and Poland), the post-communists proved to be more enthusiastic reformers that the parties that originally instigated the reforms.

After studying the relationship between economic and political liberalization and economic performance, the present section documents the reverse relationship—the effect of economic performance on political developments, as reflected in electoral outcomes in selected transition countries.¹⁷ The relationship between economic performance and the support for reforms has been explored mainly theoretically (see, for example, Rodrik, 1995), but empirical analysis has been scarce up to date, primarily because of the lack of appropriate data. Recent empirical work includes Brainerd (1999), Hayo (1999), Warner (1997) and Fidrmuc (2000a,b) (see Fidrmuc, 2000a, for additional references). The approach utilized in the current paper is similar to that of Fidrmuc (2000a,b), but instead of regional data, the analysis is based on a cross section of 17 elections in seven countries of Central and South-

¹⁵ Separate indices for the constituent parts of the former Soviet Union and Yugoslavia are available as of 1991, for Czechoslovakia since 1993. However, the indices do not seem very reliable in the first year of two, as the analysts apparently need longer time to learn to assess political freedoms in the newly established countries. For example, Tajikistan received an index of 0.667 in 1991, which was reduced to 0.167 one year later and subsequently to zero.

¹⁶ See Fidrmuc (2000a,b).

¹⁷ Note, however, that the subject of this section is not precisely the reverse of that of the previous section. In particular, this section analyzes the effect of economic performance on the support for reforms (both economic and political), not the progress of the reform itself.

Eastern Europe: the Czech Republic, Slovakia, Hungary, Poland, Romania, Bulgaria, and Slovenia. Only a subset of the transition countries was selected, because, in order for the analysis to be meaningful, the countries should be democratic. This criterion excludes the bulk of the former Soviet Republics (see Table 1). Furthermore, classification of parties according to their political orientation is tricky in the former Soviet Union, as nationalist often means anti-Soviet and pro-reform (especially in the Baltics). Last but not least, these are the countries for which information is most readily available.

Table 4 presents the results of an analysis of election results for a cross section of post-communist countries. The dependent variable is the share of votes received in each particular election by parties categorized along two dimensions: their political orientation (pro-reform parties, and left wing/nationalist parties), and incumbency. The election results are regressed on variables reflecting economic performance: unemployment rate, growth rate, index of output level with 1989 equal to 100, and the inflation rate. In addition, the regressions reported in the lower part of Table 4 included also the liberalization and democracy indices. All variables pertain to the election year. The regressions are estimated by OLS with heteroskedasticity robust standard errors. Using the logit transformation for the dependent variable yielded virtually identical results. 19

Insert Table 4 here.

The results reveal a pattern similar to the findings of Fidrmuc, 2000a,b. The regressions where parties are classified according to their political orientation have very high explanatory power (with the adjusted R^2 of 0.6 or higher). In contrast, the analysis of the votes of the incumbent parties yield adjusted R^2 of only 0.3-0.4. Hence, the categorization of parties according to their political orientation is apparently better suited for an analysis of the patterns underlying voting behavior in the transition countries.

Economic performance has strong effects on electoral outcomes. Unemployment reduces the support for pro-reform parties, and increases the support for left wing and nationalist parties. One percentage point of unemployment transforms into a gain of nearly two percentage points for the left-wing and nationalist parties and a corresponding loss for the reformers. Economic growth shows positive effect on the votes for pro-reform parties and

¹⁸ Choosing the year prior to the election delivered worse quality of statistical fit.

negative effect on the votes for left wing and nationalist parties (however, both effects are only significant, it at all, in the regressions that include also the indices of liberalization and democracy). The higher is the level of real output compared to 1989, the greater is the support for the pro-reform parties and lower the support for the left-wing and nationalist parties.

The effect of inflation is somewhat surprising—apparently, inflation increases support for the pro-reform parties and reduces support for the left wing and nationalist parties. A plausible explanation of this result is that the support for the pro-reform parties rises when inflation is high, as these parties have established a record of reigning in inflation.

The magnitude of these effects is economically (and politically) significant. An increase in the unemployment rate by 4 percentage points (as was, for example, the case in the Czech Republic between the 1996 and 1998 elections) implies an expected loss of some 8 percentage points in support of the reformers and a corresponding gain in support for the left wing and nationalists. A recession causing the GDP to fall by 3 percent in the election year implies a loss of one percentage point of support for the reformers and a similar gain for the left wing and nationalist. Inflation, on the other hand, has only sizeable effects on electoral outcomes when it approaches three-digit levels.

Controlling for the effects of liberalization and democracy on electoral outcomes improves the quality of the statistical fit (except for the regression for the incumbent parties). Inclusion of these two indicators is to reveal whether the extent of economic liberalization and democracy affect electoral outcomes, even when controlling for economic performance.

The results illustrate a peculiar pattern. The support for the pro-reform parties falls with greater liberalization but rises with greater extent of democracy. This implies that, on the one hand, greater economic liberalization reduces political support for the reforms. On the other hand, pro-reform parties' political position is apparently strengthened by wider ranging democracy. This empirical finding goes counter the argument put forward by some analysts, who argue that the governments implementing wide-ranging reforms need to be *shielded* from political backlash caused by adverse short-term effects of the reforms (see the discussion in Hellman, 1999, and the references cited therein). On the contrary, democracy-minding reformers are apparently rewarded by higher political support (which, however, does not make them immune to political backlash, which can still occur in response to the adverse effects of the reforms). The effect of liberalization and democracy on the support for left-wing

 $^{^{19}}$ The logit transformation corresponds to converting the dependent variable into the following form: log(V/(1-V)), where V is the vote share for a particular party (cf. Greene, 1997, p. 895).

and nationalist parties is positive, but essentially insignificant (apparently due to the correlation of the two indices, as the effect turns out significant when only one index, either that of liberalization or democracy, is included).

Greater liberalization brings about lower support for the pro-reform parties, even after controlling for the main adverse effects of the reforms—unemployment, output fall and inflation. Hence, the adverse effects of economic reforms apparently go beyond those captures by basic economic statistics. A plausible interpretation is that the greater is liberalization, the larger is the fraction of the electorate affected by transition-related redistribution of rents and changes in relative social and economic position. This is likely to be the case at least in the short term, whereas the favorable effects of the reform generally accrue later.

The regression for the incumbents produces much worse statistical fit than the regressions with parties classified according to their political orientation. This is analogous to the findings reported by Fidrmuc (2000b). Only the unemployment rate and the output level are significant and have the expected signs. Growth is insignificant and even has the wrong sing. Only the unemployment rate and the output level are significant and have the expected signs. Growth is insignificant and even has the wrong sing. Finally, greater democracy makes the government more likely to be toppled in an election (although the effect is only marginally significant).

The stronger results when parties are classified according to their political orientation rather than incumbency suggest that the patterns of political support are rather stable over time and independent of the parties' incumbency status. Hence, voters' support is associated with the political orientation of individual parties (and thus the policies that the parties are expected to deliver) rather than the past performance of the party or coalition currently in office. The former pattern of voters' support can be denoted as *clientelistic voting*—voters tend to associate themselves with a party that best represents their interests (Nannestad and Paldam, 1994, denote this as the clientele hypothesis). The latter pattern—*retrospective voting* (or the responsibility hypothesis, according to Nannestad and Paldam, 1994)—is the pattern commonly observed in the developed countries, accordingly, the voters punish the government for bad economic performance by voting for the opposition.

5 Conclusions

This paper illustrates important inter-relations between economics and politics during the post-communist transitions in Central and Eastern Europe. Economic and political liberalization affect economic performance. Economic performance, in turn, affects the outcomes of political processes, which eventually determine whether liberalization and democracy will be continued or reversed.

The main findings of the paper at hand are the following: First, greater liberalization is generally associated with better economic performance, even when controlling for different initial conditions. While the relationship between liberalization and growth appears U-shaped during the early years of transition, it later becomes clearly positive. Second, introduction of democracy reduces growth during the early phases of transition after controlling for the effects of economic liberalization and initial conditions. Later, the relationship becomes insignificant. Third, economic performance in turn has a strong effect on electoral outcomes in the transition countries. Support for the pro-reform parties is positively related to economic growth, the level of output relative to the 1989 level and negatively related to unemployment. In addition, inflation increases support for the pro-reform parties, probably reflecting the expectation that a pro-reform government will reign in run-away inflation. Finally, economic liberalization per se increases the opposition against the reform, even when controlling for the adverse effects of transition in terms of economic performance. Hence, the costs of the reform go beyond rising unemployment and transitional recession. In contrast, the level of democracy has a positive effect on the support for reforms.

The U-shaped pattern of the relationship between liberalization and growth during early transition helps to explain why some post-communist countries resumed growth after two or three years of economic declines whereas others continued to muddle through much longer. Intermediate reforms deliver worse economic performance than either no reforms at all or more wide ranging reforms. As Fidrmuc (2000c) argues, the growth prospect of the countries experiencing continuous declines could be improved dramatically if they caught up with the more reform-enthusiastic countries in terms of economic liberalization. If, on the other hand, they will sustain low levels of liberalization, their economic decline is likely to continue.

The findings of this paper give some credit to the suggestion that countries in transition should implement wide ranging economic reforms while temporarily postponing the introduction of democracy. However, the advantage so obtained only lasts for the initial transition period. On the other hand, the analysis of electoral outcomes reveals that greater level of democracy is associated with greater support for the pro-reform parties (after controlling for other determinants of political support, in particular measures of economic performance and the level of liberalization).

The paper at hand also documents the political risks associated with a reform that is excessively costly. Adverse effects of the reform give rise to a political backlash against the reforms, which can eventually thwart the continuation of the reforms. Hence, while the radical reforms generally give rise to better economic performance in the long term, the need to sustain sufficient political support for their continuation requires careful balancing of the costs and benefits of the reforms, and in particular their effects on different socio-economic groups. Such balancing will create constituencies in support of further reforms—as argued, for example, by Dewatripont and Roland (1995).

References

- Alesina, Alberto, and Allan Drazen (1991), "Why Are Stabilizations Delayed?" *American Economic Review* **81** (5), 1170-1188.
- Åslund, Anders, Peter Boone and Simon Johnson (1996), "How to Stabilize: Lessons from Post-communist Countries," *Brookings Papers on Economic Activity* 1, 217-291.
- Barro, Robert (1991), "Economic Growth in a Cross Section of Countries," *Quarterly Journal of Economics* **106**, 407-443.
- Barro, Robert J. (1996), "Democracy and Growth," *Journal of Economic Growth* 1 (1), 1-27, March 1996.
- Blanchard, Olivier and Michael Kremer (1997), "Disorganization," Quarterly Journal of Economics (November), 1091-1126.
- Brainerd, Elizabeth (1999), "Winners and Losers in Russia's Economic Transition," *American Economic Review* **88**, 1094-1116.
- Calvo, Guillermo A., and Fabrizio Coricelli (1993), "Output Collapse in Eastern Europe: The Role of Credit," IMF Staff Papers 40 (1).
- Campos, Nauro (1999), Back to the Future: The Growth Prospects of Transition Economies Reconsidered, William Davidson Institute Working Paper No. 229, Ann Arbor, MI.
- De Mello, Martha, Cebdet Denizer, and Alan Gelb (1996), "Patterns of Transition from Plan to Market," *World Bank Economic Review* **10** (3), 397-424.
- De Mello, Martha, Cebdet Denizer, Alan Gelb and Stoyan Tenev (1997), "Circumstance and Choice: The Role of Initial Conditions and Policies in Transition Economies," World Bank Policy Research Paper, The World Bank.

- Dethier, Jean-Jacques, Hafez Ghanem and Edda Zoli (1999), "Does Democracy Facilitate the Economic Transition? An Empirical Study of Central and Eastern Europe and the Former Soviet Union," The World Bank, Policy Research Working Paper No. 2194.
- Dewatripont, Mathias, and Gérard Roland (1995), "The Design of Reform Packages under Uncertainty," *American Economic Review* **85** (5), 1207-1233.
- Dewatripont, Mathias, and Gérard Roland (1996), "Transition as a Process of Large-scale Institutional Change," *Economics of Transition* **4** (1), 1-30.
- Edwards, Sebastian (1991), "Stabilization and Liberalization Policies in Central and Eastern Europe: Lessons from Latin America," NBER Working Paper No. 3816.
- Fernandez, Raquel and Dani Rodrik (1991), "Resistance of Reform: Status Quo Bias in the Presence of Individual-Specific Uncertainty," *American Economic Review* **81**, 1146-1155
- Fidrmuc, Jan (2000a), "Political Support for Reforms: Economics of Voting in Transition Countries," *European Economic Review* (forthcoming).
- Fidrmuc, Jan (2000b), "Economics of Voting in Post-communist Countries," *Electoral Studies* (forthcoming).
- Fidrmuc, Jan (2000c), "Economic Performance and Growth Prospects in Transition," Center for European Integration Studies (ZEI), University of Bonn, mimeo.
- Fischer, Stanley; Sahay, Ratna; Vegh, Carlos A (1996), "Stabilization and Growth in Transition Economies: The Early Experience," *Journal of Economic Perspectives* **10** (2), 45-66.
- Fischer, Stanley; Sahay, Ratna; Vegh, Carlos A (1998a), "From Transition to Market: Evidence and Growth Prospects," IMF Working Paper WP/98/52.
- Fischer, Stanley; Sahay, Ratna; Vegh, Carlos A (1998b), "How Far is Eastern Europe from Brussels?" IMF Working Paper WP/98/53.
- Greene, William H., 1997. Econometric Analysis, Prentice Hall International, third edition.
- Havrylyshyn, Oleh, Ivailo Izvorski, and Ron van Rooden (1998), "Recovery and Growth in Transition Economies 1990-97: A Stylized Regression Analysis," IMF Working Paper WP/98/141.
- Hayo, Bernd (1999), "Determinants of Public Support for Market Reforms in Eastern Europe," Center for European Integration Studies, University of Bonn, mimeo.
- Hellman, Joel S. (1998), "Winners Take All: The Politics of Partial Reform in Postcommunist Transitions," *World Politics* **50** (January), 203-234.
- Heybey, Berta, and Peter Murrel (1998), "The Relationship between Economic Growth and the Speed of Liberalization During Transition," *Journal of Policy Reform*, forthcoming.
- Hillman, Arye L. (1999), "In Transit to the Promised Land: Ten Years in the Wilderness without Moses," Bar-Illan University, mimeo. Presented at 5th Dubrovnik Conference on Transition Economics.
- Hillman, Arye L. and Heinrich W. Ursprung (1999), "Sustained Political Culture and Transition Failure," Bar-Illan University and University of Konstanz, mimeo.
- Krueger, Gary, and Marek Ciolko (1998), "A Note on Initial Conditions and Liberalization during Transition," *Journal of Comparative Economics* **26**, 718-734.

- Levine, Ross and David Renelt (1992), "A Sensitivity Analysis of Cross-Country Growth Regressions," *American Economic Review* **82** (4), 942-963.
- Lipton, David and Jeffrey Sachs (1990), "Creating a Market Economy in Eastern Europe: The Case of Poland," *Brookings Papers on Economic Activity* 1:1990, 75-147.
- Nannestad, Peter and Martin Paldam, 1994. The VP-Function: A Survey of Literature on Vote and Popularity Functions after 25 Years, Public Choice 79, 213-245.
- North, Douglass C. (1993), "The Paradox of the West," Economics Working Paper Archive, Washington University—St. Louis, Missouri.
- Rodrik, Dani (1995), "The Dynamics of Political Support for Reforms in Economies in Transition," Journal of the Japanese and International Economies 9 (4), 403-425.
- Rodrik, Dani (1996), "Understanding Economic Policy Reform," *Journal of Economic Literature* **XXXIV** (March), 9-41.
- Roland, Gérard, and Thierry Verdier (1999), "Transition and the output Fall," Economics of Transition 7 (1), 1-28.
- Shleifer, Andrei (1998), "Government in Transition," *European Economic Review* **41** (3-5), 385-410.
- Sachs, Jeffrey (1996), "The Transition at Mid Decade," *American Economic Review: Papers and Proceedings* **86** (2), 128-133.
- Selowsky, Marcelo and Ricardo Martin (1997), "Policy Performance and Output Growth in the Transition Economies," *American Economic Review (Papers and Proceedings)* **87** (2), 349-353.
- Warner, Andrew (1997) "Is Economic Reform Popular at the Polls: Russia 1995?" Harvard Institute for International Development, mimeo.

Data Sources

- EBRD Transition Report (various issues), European Bank for Reconstruction and Development, London, UK.
- World Development Report 1996, The World Bank, Washington D.C., 1996.
- Freedom in the World: Annual Survey of Freedom Country Scores 1972-73 to 1998-99, Freedom House, http://www.freedomhouse.org/.
- Berglund, Sten, Hellén Tomas, and Frank H. Aarebrot (1998), "The Handbook of Political Change in Eastern Europe," Edward Elgar, Cheltenham, UK.
- Shell Route Planner, http://shell.route66.nl/shell/routenl.html (distances from Brussels)

	Avg. Growth	Avg. Growth	Avg. Growth	GDP Bottom	GDP Increase	Avg. Inflation	Unemploy ment Rate	GNP p.c. [USD]	EBRD Lib. Index	EBRD Lib. Index	Democracy Index	Distance fr. Brussels	Sec. Sch. Enrol.	Pop. Growth
	1990-98	1990-93	1994-98	1990-98	1990-98	1990-98	1995	1989	1994	1998	1998/99	[km]	1993	1990-94
Czech Rep.	-0.26	-3.65	2.46	85.24	11.40	16.14	2.90	8600	0.625	0.656	0.917	913	85	-0.10
Slovakia	0.22	-6.83	5.86	74.97	24.67	16.31	13.10	7600	0.583	0.625	0.833	1223	87	0.30
Hungary	-0.42	-4.78	3.06	81.89	13.27	23.61	10.40	6810	0.583	0.688	0.917	1412	79	-0.30
Poland	1.98	-3.05	6.00	82.21	34.94	93.43	14.90	5150	0.583	0.625	0.917	1338	82	0.30
Slovenia	0.43	-4.08	4.04	82.04	20.76	106.87	13.90	9200	0.542	0.594	0.917	1352	88	-0.10
Bulgaria	-4.39	-7.40	-1.98	63.19	2.53	211.16	11.10	5000	0.375	0.438	0.750	2175	66	-0.80
Romania	-2.56	-6.45	0.56	74.99	2.68	117.17	9.50	3470	0.417	0.406	0.833	2234	86	-0.50
Albania	-0.77	-8.83	5.68	60.38	26.02	49.16	16.90	1400	0.375	0.406	0.417	2427	79	-0.60
Croatia	-2.42	-12.35	5.52	58.58	18.01	336.54	14.50	6171	0.542	0.531	0.500	1399	80	0.00
Macedonia	-5.32	-13.05	0.86	55.11	4.09	321.96	37.70	3394	0.458	0.438	0.667	2225	53	0.90
Estonia	-2.58	-11.23	4.34	60.76	15.60	168.76	9.70	8900	0.583	0.625	0.917	2508	87	-1.20
Latvia	-4.88	-14.33	2.68	50.97	7.24	148.12	6.60	8590	0.458	0.531	0.917	2197	84	-1.20
Lithuania	-4.43	-12.05	1.66	53.29	10.31	201.46	6.20	6430	0.500	0.500	0.917	1785	76	0.00
Russia	-6.17	-7.80	-4.86	55.77	0.00	344.36	8.30	7720	0.417	0.375	0.500	2607	84	0.00
Ukraine	-10.29	-10.63	-10.02	36.76	0.00	823.76	0.50	5680	0.083	0.344	0.583	2215	65	0.00
Belarus	-2.54	-5.35	-0.30	62.69	14.36	590.24	2.70	7010	0.167	0.125	0.167	1881	89	0.20
Moldova	-10.58	-12.33	-9.18	33.63	0.00	285.51	1.40	4670	0.292	0.406	0.667	2233	67	-0.10
Armenia	-7.24	-22.98	5.34	31.00	9.20	1102.93	6.70	5530	0.208	0.406	0.500	4167	80	1.40
Azerbaijan	-8.06	-14.53	-2.88	36.96	6.61	472.66	17.00	4620	0.083	0.313	0.333	4321	89	1.00
Georgia	-9.63	-25.80	3.30	25.38	7.77	2212.90	2.60	5590	0.083	0.406	0.583	4193	n.a.	-0.20
Kazakhstan	-5.14	-6.38	-4.16	61.26	0.00	584.22	1.70	5130	0.167	0.438	0.250	6000°	89	0.10
Kyrgyzstan	-5.20	-9.25	-1.96	50.39	8.23	229.34	3.00	3180	0.458	0.469	0.333	6000 e	n.a.	0.40
Tajikistan	-8.61	-12.18	-5.76	39.19	2.78	552.89	2.00	3010	0.167	0.219	0.167	6000 e	98	2.00
Turkmenistan	-8.28	-4.50	-11.30	42.04	1.89	838.71	3.00	4230	0.042	0.125	0.000	6000 e	n.a.	4.60
Uzbekistan	-1.18	-3.08	0.34	83.36	5.79	411.13	0.40	2740	0.250	0.313	0.083	6000 ^e	96	2.20
Average	-4.33	-9.71	-0.03	57.68	9.93	410.37	8.67	5432	0.36	0.440	0.583	2992	81.32	0.33

Sources: EBRD Transition Report (various issues), de Melo et al. (1996, 1997), Freedom House, World Bank World Development Report 1996, Shell Route Planner.

Notes: GDP Bottom refers to the index for the lowest level of GDP during the period 1990-98, with 1989=100. GDP Increase is the cumulative increase in GDP since the lowest level has been reached. GNP per capita in 1989 is in US\$ at purchasing power parity. EBRD Liberalization Index is the unweighted mean of the EBRD progress in transition indicators as of 1994, normalized so that it ranges between zero (no liberalization) and unity (complete liberalization). Democracy Index is the average of scores for political rights and civil liberties, respectively, normalized so that it ranges between zero (no democracy) and unity (complete democracy). Distance from Brussels is road distances in kilometers. Distances indicated with ° are estimates rather than actual distances. School enrollment is that for males.

 Table 2
 Economic Liberalization, Initial Conditions and Economic Performance

Average Growth over:	1990-98	t-stats	1990-93	t-stats	1994-98	t-stats
Constant	-23.653	-6.12	-20.209	-4.58	-21.094	-3.54
Liberalization Index	16.208	4.23	10.993	3.06	22.559	4.48
Distance from Brussels	-0.00077	-2.10	-0.00060	-0.96	-0.00108	-2.25
Population Growth	0.608	3.92	2.028	4.01		
Sec. School Enrollment	0.207	4.70	0.168	2.96	0.214	2.79
Conflict Dummy	-2.222	-3.71	-10.136	-6.55	4.733	2.85
1989 GNP p.c.	-0.00062	-4.53	-0.00072	-2.59	-0.00063	-1.48
Adj.R ²	0.798		0.723		0.583	
Average Growth over:	1990-98	t-stats	1990-93	t-stats	1994-98	t-stats
Constant	-20.843	-3.64	-11.203	-3.02	-25.653	-4.33
Liberalization Index	6.365	0.35	-35.921	-2.437	39.846	2.70
Liberalization Squared	9.122	0.59	52.150	3.14	-22.941	1.21
Distance from Brussels	-0.00069	-2.14	-0.00039	-0.80	-0.0011	-2.32
Population Growth	0.405	1.03	0.729	1.11		
Sec. School Enrollment	0.201	4.88	0.159	3.09	0.233	3.22
Conflict Dummy	-2.210	-3.49	-10.300	-7.42	4.645	2.88
1989 GNP p.c.	-0.00064	-4.64	-0.00082	-3.34	-0.00054	-1.27
Adj.R ²	0.789		0.782		0.577	
Joint Significance Liberalization	0.000		0.000		0.000	
Minimum/Maximum effect at:	-0.35		0.34		0.87	

Notes: Estimated by OLS with heteroskedasticity robust t-statistics, for the 25 countries included in Table 1. The liberalization index is the average annual liberalization indices over the respective period. The indices used for 1990-98 and 1990-93 are based on those constructed by de Melo et al. (1996) and extended by Havrylyshyn et al. (1998). The indices used for 1994-98 are from the EBRD Transition Report (various issues). The conflict dummy equals one for Croatia, Macedonia, Armenia, Azerbaijan, Georgia and Tajikistan. The initial per capita GNP is in purchasing power parity terms, in US dollars. The distance from Brussels for Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan is estimated as 6,000 km. Population growth is averaged over 1990-94, in percent, according to the World Bank World Development Report 1996. Secondary school enrolment is males only, in percent, according to World Bank World Development Report 1996. The missing values of school enrollment for Georgia, Kyrgyzstan and Turkmenistan were substituted by the sample average school enrollment. Joint Significance Liberalization is the joint significance level of the liberalization index and its squared value. Minimum/Maximum effects refer to the level where the effect of liberalization reaches its minimum or maximum in the non-linear specification.

 Table 3
 Democracy and Economic Performance

Average Growth over:	1990-98	t-stats	1990-93	t-stats	1994-98	t-stats
Constant	-21.053	-4.17	-6.277	-1.41	-23.926	-3.17
Liberalization Index	20.712	6.13	-44.156	-4.72	17.853	2.85
Liberalization Squared			65.380	6.45		
Distance from Brussels	-0.00075	-2.00	-0.00025	-0.71	-0.00090	-1.52
Democracy	-6.557	-1.81	-7.139	-1.92	4.432	0.94
Sec. School Enrollment	0.182	3.79	0.141	2.54	0.241	2.70
Conflict Dummy	-2.609	-3.16	-10.855	-8.11	4.924	2.81
1989 GNP p.c.	-0.00048	-3.25	-0.00068	-2.45	-0.00072	-1.63
Adj.R ²	0.795		0.786		0.571	
Joint Significance Liberalization			0.000			
Minimum/Maximum effect at:			0.34			

Notes: Estimated by OLS with heteroskedasticity robust t-statistics, for the 25 countries included in Table 1. See also Notes to Table 2. Democracy Index is the based on the average of political rights and civil liberties according to the Freedom House and normalized so that it ranges between zero and unity (see Notes to Table 1). The indices used in the regressions are the averages for the respective periods. Joint Significance Liberalization is the joint significance level of the liberalization index and its squared value. Minimum/Maximum effect refers to the level where the effect of liberalization reaches its minimum or maximum in the non-linear specification.

Table 4 Economic Performance and Election Results

	Pro-reform Parties	t-stats	Left wing + Nationalists	t-stats	Incumbents	t-stats
Constant	8.736	0.84	39.338	3.42	1.720	0.09
Unemployment Rate	-1.966	-5.86	1.943	4.18	-1.103	-3.21
Growth Rate	0.381	1.40	-0.265	-0.90	-0.349	-1.01
Output [1989=100]	0.492	4.43	-0.086	-0.79	0.488	2.46
Avg. Inflation	0.040	8.08	-0.030	-5.01	0.004	0.46
Adj. R ²	0.785		0.646		0.365	
	Pro-reform Parties	t-stats	Left wing + Nationalists	t-stats	Incumbents	t-stats
Constant	12.444	2.03	23.098	2.52	12.051	0.67
Unemployment Rate	-1.979	-5.64	1.939	4.25	-1.095	-3.03
Growth Rate	0.364	1.59	-0.445	-1.92	-0.212	-0.57
Output [1989=100]	0.379	4.43	-0.200	-2.72	0.612	2.48
Avg. Inflation	0.037	10.46	-0.030	-9.02	0.005	0.73
Liberalization Index	-34.788	-2.97	12.766	0.84	3.787	0.19
Democracy Index	40.113	3.27	19.880	1.31	-29.328	-1.48
Adi. R ²	0.815		0.687		0.316	

Notes: Estimated by OLS with heteroskedasticity robust t-statistics. Number of observations is 17. The parties are classified along two dimensions: pro-reform vs. left-wing and nationalists, and incumbent vs. other (not reported). Average vote shares are 35.6% for the pro-reform parties, 48.6% for the left wing and nationalists, and 32.8% for the incumbent. The dependent variable is the share of votes for parties in the respective category in elections in the Czech Republic (1992, 1996, 1998), Slovakia (1992, 1994, 1998), Hungary (1994, 1998), Poland (1993, 1997), Romania (1992, 1996), Bulgaria (1991, 1994, 1997), and Slovenia (1992, 1996). All explanatory variables pertain to the election year. See the Notes following Table 1 for definitions of individual explanatory variables.

Source of election data: The Handbook of Political Change in Eastern Europe.

2008		
B01-08	Euro-Diplomatie durch gemeinsame "Wirtschaftsregierung"	Martin Seidel
2007		
B03-07	Löhne und Steuern im Systemwettbewerb der Mitgliedstaaten	Martin Seidel
	der Europäischen Union	
B02-07	Konsolidierung und Reform der Europäischen Union	Martin Seidel
B01-07	The Ratification of European Treaties - Legal and Constitutio-	Martin Seidel
	nal Basis of a European Referendum.	
2006		
B03-06	Financial Frictions, Capital Reallocation, and Aggregate Fluc-	Jürgen von Hagen, Haiping Zhang
	tuations	
B02-06	Financial Openness and Macroeconomic Volatility	Jürgen von Hagen, Haiping Zhang
B01-06	A Welfare Analysis of Capital Account Liberalization	Jürgen von Hagen, Haiping Zhang
2005		
B11-05	Das Kompetenz- und Entscheidungssystem des Vertrages von	Martin Seidel
D10.05	Rom im Wandel seiner Funktion und Verfassung	M .: C : I I
B10-05	Die Schutzklauseln der Beitrittsverträge	Martin Seidel
B09-05	Measuring Tax Burdens in Europe Remittances as Investment in the Absence of Altruism	Guntram B. Wolff
B08-05 B07-05	Economic Integration in a Multicone World?	Gabriel González-König Christian Volpe Martincus, Jenni-
D07-03	Economic integration in a multicone world:	fer Pédussel Wu
B06-05	Banking Sector (Under?)Development in Central and Eastern	Jürgen von Hagen, Valeriya Din-
200 00	Europe	ger
B05-05	Regulatory Standards Can Lead to Predation	Stefan Lutz
B04-05	Währungspolitik als Sozialpolitik	Martin Seidel
B03-05	Public Education in an Integrated Europe: Studying to Migrate	Panu Poutvaara
	and Teaching to Stay?	
B02-05	Voice of the Diaspora: An Analysis of Migrant Voting Behavior	Jan Fidrmuc, Orla Doyle
B01-05	Macroeconomic Adjustment in the New EU Member States	Jürgen von Hagen, Iulia Traistaru
2004		
B33-04	The Effects of Transition and Political Instability On Foreign	Josef C. Brada, Ali M. Kutan, Ta-
D20.04	Direct Investment Inflows: Central Europe and the Balkans	ner M. Yigit
B32-04	The Choice of Exchange Rate Regimes in Developing Countries: A Multimornian David Analysis	Jürgen von Hagen, Jizhong Zhou
B31-04	tries: A Mulitnominal Panal Analysis Fear of Floating and Fear of Pegging: An Empirical Analysis of	Jürgen von Hagen, Jizhong Zhou
D31-04	De Facto Exchange Rate Regimes in Developing Countries	Jurgen von Hagen, Jizhong Zhou
B30-04	Der Vollzug von Gemeinschaftsrecht über die Mitgliedstaaten	Martin Seidel
200 01	und seine Rolle für die EU und den Beitrittsprozess	War EM Gerael
B29-04	Deutschlands Wirtschaft, seine Schulden und die Unzulänglich-	Dieter Spethmann, Otto Steiger
	keiten der einheitlichen Geldpolitik im Eurosystem	,
B28-04	Fiscal Crises in U.S. Cities: Structural and Non-structural Cau-	Guntram B. Wolff
	ses	
B27-04	Firm Performance and Privatization in Ukraine	Galyna Grygorenko, Stefan Lutz
B26-04	Analyzing Trade Opening in Ukraine: Effects of a Customs Uni-	Oksana Harbuzyuk, Stefan Lutz
B25-04	on with the EU	Lucian T. Orlanski
B23-04 B24-04	Exchange Rate Risk and Convergence to the Euro The Endogeneity of Money and the Eurosystem	Lucjan T. Orlowski Otto Steiger
B23-04	Which Lender of Last Resort for the Eurosystem?	Otto Steiger
B22-04	Non-Discretonary Monetary Policy: The Answer for Transition	Elham-Mafi Kreft, Steven F. Kreft
0.	Economies?	
B21-04	The Effectiveness of Subsidies Revisited: Accounting for Wage	Volker Reinthaler, Guntram B.
-	and Employment Effects in Business R+D	Wolff
B20-04	Money Market Pressure and the Determinants of Banking Cri-	Jürgen von Hagen, Tai-kuang Ho
	ses	-
B19-04	Die Stellung der Europäischen Zentralbank nach dem Verfas-	Martin Seidel
	sungsvertrag	

B18-04	Transmission Channels of Business Cycles Synchronization in an Enlarged EMU	Iulia Traistaru
B17-04	Foreign Exchange Regime, the Real Exchange Rate and Current Account Sustainability: The Case of Turkey	Sübidey Togan, Hasan Ersel
B16-04	Does It Matter Where Immigrants Work? Traded Goods, Non-traded Goods, and Sector Specific Employment	Harry P. Bowen, Jennifer Pédussel Wu
B15-04	Do Economic Integration and Fiscal Competition Help to Explain Local Patterns?	Christian Volpe Martincus
B14-04 B13-04	Euro Adoption and Maastricht Criteria: Rules or Discretion? The Role of Electoral and Party Systems in the Development of Fiscal Institutions in the Central and Eastern European Countries	Jiri Jonas Sami Yläoutinen
B12-04	Measuring and Explaining Levels of Regional Economic Integration	Jennifer Pédussel Wu
B11-04	Economic Integration and Location of Manufacturing Activities: Evidence from MERCOSUR	Pablo Sanguinetti, Iulia Traistaru, Christian Volpe Martincus
B10-04	Economic Integration and Industry Location in Transition Countries	Laura Resmini
B09-04	Testing Creditor Moral Hazard in Souvereign Bond Markets: A Unified Theoretical Approach and Empirical Evidence	Ayse Y. Evrensel, Ali M. Kutan
B08-04	European Integration, Productivity Growth and Real Convergence	Taner M. Yigit, Ali M. Kutan
B07-04	The Contribution of Income, Social Capital, and Institutions to Human Well-being in Africa	Mina Baliamoune-Lutz, Stefan H. Lutz
B06-04	Rural Urban Inequality in Africa: A Panel Study of the Effects of Trade Liberalization and Financial Deepening	Mina Baliamoune-Lutz, Stefan H. Lutz
B05-04 B04-04	Money Rules for the Eurozone Candidate Countries Who is in Favor of Enlargement? Determinants of Support for EU Membership in the Candidate Countries' Referenda	Lucjan T. Orlowski Orla Doyle, Jan Fidrmuc
B03-04	Over- and Underbidding in Central Bank Open Market Operations Conducted as Fixed Rate Tender	Ulrich Bindseil
B02-04	Total Factor Productivity and Economic Freedom Implications for EU Enlargement	Ronald L. Moomaw, Euy Seok Yang
B01-04	Die neuen Schutzklauseln der Artikel 38 und 39 des Beitrittsvertrages: Schutz der alten Mitgliedstaaten vor Störungen durch die neuen Mitgliedstaaten	Martin Seidel
2003 B29-03	Macroeconomic Implications of Low Inflation in the Euro Area	Jürgen von Hagen, Boris Hofmann
B28-03	The Effects of Transition and Political Instability on Foreign Direct Investment: Central Europe and the Balkans	Josef C. Brada, Ali M. Kutan, Ta- ner M. Yigit
B27-03	The Performance of the Euribor Futures Market: Efficiency and the Impact of ECB Policy Announcements (Electronic Version of International Finance)	Kerstin Bernoth, Juergen von Hagen
B26-03	Souvereign Risk Premia in the European Government Bond Market (überarbeitete Version zum Herunterladen)	Kerstin Bernoth, Juergen von Hagen, Ludger Schulknecht
B25-03	How Flexible are Wages in EU Accession Countries?	Anna Iara, Iulia Traistaru
B24-03	Monetary Policy Reaction Functions: ECB versus Bundesbank Economic Integration and Manufacturing Concentration Pat-	Bernd Hayo, Boris Hofmann Iulia Traistaru, Christian Volpe
B23-03	terns: Evidence from Mercosur	Martincus
B22-03	Reformzwänge innerhalb der EU angesichts der Osterweiterung	Martin Seidel
B21-03	Reputation Flows: Contractual Disputes and the Channels for Inter-Firm Communication	William Pyle
B20-03	Urban Primacy, Gigantism, and International Trade: Evidence from Asia and the Americas	Ronald L. Moomaw, Mohammed A. Alwosabi
B19-03	An Empirical Analysis of Competing Explanations of Urban Primacy Evidence from Asia and the Americas	Ronald L. Moomaw, Mohammed A. Alwosabi

_		
B18-03	The Effects of Regional and Industry-Wide FDI Spillovers on	Stefan H. Lutz, Oleksandr Talave-
D17 02	Export of Ukrainian Firms	ra, Sang-Min Park Mihails Hazans
B17-03 B16-03	Determinants of Inter-Regional Migration in the Baltic States South-East Europe: Economic Performance, Perspectives, and	Iulia Traistaru, Jürgen von Hagen
D10-03	Policy Challenges	Tulia Traistaru, Jurgeli voli Trageli
B15-03	Employed and Unemployed Search: The Marginal Willingness	Jos van Ommeren, Mihails Hazans
D13 03	to Pay for Attributes in Lithuania, the US and the Netherlands	303 van Ommeren, minans Hazans
B14-03	FCIs and Economic Activity: Some International Evidence	Charles Goodhart, Boris Hofmann
B13-03	The IS Curve and the Transmission of Monetary Policy: Is there	Charles Goodhart, Boris Hofmann
	a Puzzle?	
B12-03	What Makes Regions in Eastern Europe Catching Up? The	Gabriele Tondl, Goran Vuksic
	Role of Foreign Investment, Human Resources, and Geography	
B11-03	Die Weisungs- und Herrschaftsmacht der Europäischen Zen-	Martin Seidel
	tralbank im europäischen System der Zentralbanken - eine	
D10 00	rechtliche Analyse	
B10-03	Foreign Direct Investment and Perceptions of Vulnerability to	Josef C. Brada, Vladimír Tomsík
D00 02	Foreign Exchange Crises: Evidence from Transition Economies The European Control Bank and the Europy An Apply	Cunnar Hainsahn Otto Staigar
B09-03	The European Central Bank and the Eurosystem: An Analysis of the Missing Central Monetary Institution in European	Gunnar Heinsohn, Otto Steiger
	Monetary Union	
B08-03	The Determination of Capital Controls: Which Role Do Ex-	Jürgen von Hagen, Jizhong Zhou
	change Rate Regimes Play?	
B07-03	Nach Nizza und Stockholm: Stand des Binnenmarktes und	Martin Seidel
	Prioritäten für die Zukunft	
B06-03	Fiscal Discipline and Growth in Euroland. Experiences with the	Jürgen von Hagen
	Stability and Growth Pact	
B05-03	Reconsidering the Evidence: Are Eurozone Business Cycles	Michael Massmann, James Mit-
	Converging?	chell
D04.00	D 111 1 1 E D (1. (ED))	$C \cdot C \cdot U \cdot U \cdot C \cdot U \cdot U \cdot U \cdot U \cdot U \cdot $
B04-03	Do Ukrainian Firms Benefit from FDI?	Stefan H. Lutz, Oleksandr Talave-
		ra
B03-03	Europäische Steuerkoordination und die Schweiz	ra Stefan H. Lutz
		ra
B03-03	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and	ra Stefan H. Lutz
B03-03 B02-03	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains	ra Stefan H. Lutz Mihails Hazans
B03-03 B02-03 B01-03	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und poli- tischen Gefüge der Europäischen Union	ra Stefan H. Lutz Mihails Hazans Martin Seidel
B03-03 B02-03 B01-03	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und poli-	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul,
B03-03 B02-03 B01-03 2002 B30-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und poli- tischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Ass- urance	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel
B03-03 B02-03 B01-03 2002 B30-02 B29B-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und poli- tischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Ass- urance Trade Agreements as Self-protection	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und poli- tischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Ass- urance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candi-	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02 B26-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candi-	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02 B26-02 B25-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02 B26-02 B25-02 B24-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors The Effects of Quotas on Vertical Intra-industry Trade Legal Aspects of European Economic and Monetary Union Der Staat als Lender of Last Resort - oder: Die Achillesverse	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz Stefan Lutz
B03-03 B02-03 B01-03 2002 B30-02 B29A-02 B29A-02 B27-02 B26-02 B26-02 B25-02 B24-02 B23-02 B22-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors The Effects of Quotas on Vertical Intra-industry Trade Legal Aspects of European Economic and Monetary Union Der Staat als Lender of Last Resort - oder: Die Achillesverse des Eurosystems	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz Stefan Lutz Martin Seidel Otto Steiger
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02 B26-02 B25-02 B24-02 B23-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors The Effects of Quotas on Vertical Intra-industry Trade Legal Aspects of European Economic and Monetary Union Der Staat als Lender of Last Resort - oder: Die Achillesverse des Eurosystems Nominal and Real Stochastic Convergence Within the Tran-	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz Stefan Lutz Martin Seidel
B03-03 B02-03 B01-03 2002 B30-02 B29A-02 B29A-02 B27-02 B26-02 B26-02 B25-02 B24-02 B23-02 B22-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors The Effects of Quotas on Vertical Intra-industry Trade Legal Aspects of European Economic and Monetary Union Der Staat als Lender of Last Resort - oder: Die Achillesverse des Eurosystems Nominal and Real Stochastic Convergence Within the Transition Economies and to the European Union: Evidence from	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz Stefan Lutz Martin Seidel Otto Steiger
B03-03 B02-03 B01-03 2002 B30-02 B29B-02 B29A-02 B28-02 B27-02 B26-02 B25-02 B24-02 B23-02 B22-02 B21-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors The Effects of Quotas on Vertical Intra-industry Trade Legal Aspects of European Economic and Monetary Union Der Staat als Lender of Last Resort - oder: Die Achillesverse des Eurosystems Nominal and Real Stochastic Convergence Within the Transition Economies and to the European Union: Evidence from Panel Data	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz Stefan Lutz Martin Seidel Otto Steiger Ali M. Kutan, Taner M. Yigit
B03-03 B02-03 B01-03 2002 B30-02 B29A-02 B29A-02 B27-02 B26-02 B26-02 B25-02 B24-02 B23-02 B22-02	Europäische Steuerkoordination und die Schweiz Commuting in the Baltic States: Patterns, Determinants, and Gains Die Wirtschafts- und Währungsunion im rechtlichen und politischen Gefüge der Europäischen Union An Adverse Selection Model of Optimal Unemployment Assurance Trade Agreements as Self-protection Growth and Business Cycles with Imperfect Credit Markets Inequality, Politics and Economic Growth Poverty Traps and Growth in a Model of Endogenous Time Preference Monetary Convergence and Risk Premiums in the EU Candidate Countries Trade Policy: Institutional Vs. Economic Factors The Effects of Quotas on Vertical Intra-industry Trade Legal Aspects of European Economic and Monetary Union Der Staat als Lender of Last Resort - oder: Die Achillesverse des Eurosystems Nominal and Real Stochastic Convergence Within the Transition Economies and to the European Union: Evidence from	ra Stefan H. Lutz Mihails Hazans Martin Seidel Marcus Hagedorn, Ashok Kaul, Tim Mennel Jennifer Pédussel Wu Debajyoti Chakrabarty Debajyoti Chakrabarty Debajyoti Chakrabarty Lucjan T. Orlowski Stefan Lutz Stefan Lutz Martin Seidel Otto Steiger

B19-02	East Germany: Transition with Unification, Experiments and Experiences	Jürgen von Hagen, Rolf R. Strauch, Guntram B. Wolff
B18-02	Regional Specialization and Employment Dynamics in Transition Countries	Iulia Traistaru, Guntram B. Wolff
B17-02	Specialization and Growth Patterns in Border Regions of Accession Countries	Laura Resmini
B16-02	Regional Specialization and Concentration of Industrial Activity in Accession Countries	Iulia Traistaru, Peter Nijkamp, Si- monetta Longhi
B15-02	Does Broad Money Matter for Interest Rate Policy?	Matthias Brückner, Andreas Schaber
B14-02	The Long and Short of It: Global Liberalization, Poverty and Inequality	Christian E. Weller, Adam Hersch
B13-02	De Facto and Official Exchange Rate Regimes in Transition Economies	Jürgen von Hagen, Jizhong Zhou
B12-02	Argentina: The Anatomy of A Crisis	Jiri Jonas
B11-02	The Eurosystem and the Art of Central Banking	Gunnar Heinsohn, Otto Steiger
B10-02	National Origins of European Law: Towards an Autonomous System of European Law?	Martin Seidel
B09-02	Monetary Policy in the Euro Area - Lessons from the First Years	Volker Clausen, Bernd Hayo
B08-02	Has the Link Between the Spot and Forward Exchange Rates Broken Down? Evidence From Rolling Cointegration Tests	Ali M. Kutan, Su Zhou
B07-02	Perspektiven der Erweiterung der Europäischen Union	Martin Seidel
B06-02	Is There Asymmetry in Forward Exchange Rate Bias? Multi-Country Evidence	Su Zhou, Ali M. Kutan
B05-02	Real and Monetary Convergence Within the European Union and Between the European Union and Candidate Countries: A Rolling Cointegration Approach	Josef C. Brada, Ali M. Kutan, Su Zhou
B04-02	Asymmetric Monetary Policy Effects in EMU	Volker Clausen, Bernd Hayo
B03-02	The Choice of Exchange Rate Regimes: An Empirical Analysis for Transition Economies	Jürgen von Hagen, Jizhong Zhou
B02-02	The Euro System and the Federal Reserve System Compared: Facts and Challenges	Karlheinz Ruckriegel, Franz Seitz
B01-02	Does Inflation Targeting Matter?	Manfred J. M. Neumann, Jürgen von Hagen
2001		
B29-01	Is Kazakhstan Vulnerable to the Dutch Disease?	Karlygash Kuralbayeva, Ali M. Ku- tan, Michael L. Wyzan
B28-01	Political Economy of the Nice Treaty: Rebalancing the EU Council. The Future of European Agricultural Policies	Deutsch-Französisches Wirt- schaftspolitisches Forum
B27-01	Investor Panic, IMF Actions, and Emerging Stock Market Returns and Volatility: A Panel Investigation	Bernd Hayo, Ali M. Kutan
B26-01	Regional Effects of Terrorism on Tourism: Evidence from Three Mediterranean Countries	Konstantinos Drakos, Ali M. Ku- tan
B25-01	Monetary Convergence of the EU Candidates to the Euro: A Theoretical Framework and Policy Implications	Lucjan T. Orlowski
B24-01	Disintegration and Trade	Jarko and Jan Fidrmuc
B23-01	Migration and Adjustment to Shocks in Transition Economies	Jan Fidrmuc
B22-01	Strategic Delegation and International Capital Taxation	Matthias Brückner
B21-01	Balkan and Mediterranean Candidates for European Union Membership: The Convergence of Their Monetary Policy With	Josef C. Brada, Ali M. Kutan
B20-01	That of the Europaen Central Bank An Empirical Inquiry of the Efficiency of Intergovernmental Transfers for Water Projects Based on the WRDA Data	Anna Rubinchik-Pessach
B19-01	Detrending and the Money-Output Link: International Evidence	R.W. Hafer, Ali M. Kutan

B18-01	Monetary Policy in Unknown Territory. The European Central Bank in the Early Years	Jürgen von Hagen, Matthias Brückner
B17-01	Executive Authority, the Personal Vote, and Budget Discipline in Latin American and Carribean Countries	Mark Hallerberg, Patrick Marier
B16-01	Sources of Inflation and Output Fluctuations in Poland and Hungary: Implications for Full Membership in the European Union	Selahattin Dibooglu, Ali M. Kutan
B15-01 B14-01	Programs Without Alternative: Public Pensions in the OECD Formal Fiscal Restraints and Budget Processes As Solutions to a Deficit and Spending Bias in Public Finances - U.S. Experi-	Christian E. Weller Rolf R. Strauch, Jürgen von Hagen
B13-01	ence and Possible Lessons for EMU German Public Finances: Recent Experiences and Future Chal-	Jürgen von Hagen, Rolf R. Strauch
B12-01	lenges The Impact of Eastern Enlargement On EU-Labour Markets. Pensions Reform Between Economic and Political Problems	Deutsch-Französisches Wirt- schaftspolitisches Forum
B11-01	Inflationary Performance in a Monetary Union With Large Wage Setters	Lilia Cavallar
B10-01	Integration of the Baltic States into the EU and Institutions of Fiscal Convergence: A Critical Evaluation of Key Issues and Empirical Evidence	Ali M. Kutan, Niina Pautola-Mol
B09-01	Democracy in Transition Economies: Grease or Sand in the Wheels of Growth?	Jan Fidrmuc
B08-01	The Functioning of Economic Policy Coordination	Jürgen von Hagen, Susanne Mundschenk
B07-01	The Convergence of Monetary Policy Between Candidate Countries and the European Union	Josef C. Brada, Ali M. Kutan
B06-01	Opposites Attract: The Case of Greek and Turkish Financial Markets	Konstantinos Drakos, Ali M. Ku- tan
B05-01	Trade Rules and Global Governance: A Long Term Agenda. The Future of Banking.	Deutsch-Französisches Wirt- schaftspolitisches Forum
B04-01	The Determination of Unemployment Benefits	Rafael di Tella, Robert J. Mac- Culloch
B03-01	Preferences Over Inflation and Unemployment: Evidence from Surveys of Happiness	Rafael di Tella, Robert J. Mac- Culloch, Andrew J. Oswald
B02-01	The Konstanz Seminar on Monetary Theory and Policy at Thirty	Michele Fratianni, Jürgen von Hagen
B01-01	Divided Boards: Partisanship Through Delegated Monetary Policy	Etienne Farvaque, Gael Lagadec
2000		
B20-00	Breakin-up a Nation, From the Inside	Etienne Farvaque
B19-00	Income Dynamics and Stability in the Transition Process, general Reflections applied to the Czech Republic	Jens Hölscher
B18-00	Budget Processes: Theory and Experimental Evidence	Karl-Martin Ehrhart, Roy Gardner, Jürgen von Hagen, Claudia Keser
B17-00	Rückführung der Landwirtschaftspolitik in die Verantwortung der Mitgliedsstaaten? - Rechts- und Verfassungsfragen des Gemeinschaftsrechts	Martin Seidel
B16-00	The European Central Bank: Independence and Accountability	Christa Randzio-Plath, Tomasso Padoa-Schioppa
B15-00	Regional Risk Sharing and Redistribution in the German Federation	Jürgen von Hagen, Ralf Hepp
B14-00	Sources of Real Exchange Rate Fluctuations in Transition Economies: The Case of Poland and Hungary	Selahattin Dibooglu, Ali M. Kutan
B13-00	Back to the Future: The Growth Prospects of Transition Economies Reconsidered	Nauro F. Campos

B12-00	Rechtsetzung und Rechtsangleichung als Folge der Einheitlichen Europäischen Währung	Martin Seidel
B11-00	A Dynamic Approach to Inflation Targeting in Transition Economies	Lucjan T. Orlowski
B10-00	The Importance of Domestic Political Institutions: Why and How Belgium Qualified for EMU	Marc Hallerberg
B09-00	Rational Institutions Yield Hysteresis	Rafael Di Tella, Robert Mac- Culloch
B08-00	The Effectiveness of Self-Protection Policies for Safeguarding Emerging Market Economies from Crises	Kenneth Kletzer
B07-00	Financial Supervision and Policy Coordination in The EMU	Deutsch-Französisches Wirt- schaftspolitisches Forum
B06-00	The Demand for Money in Austria	Bernd Hayo
B05-00	Liberalization, Democracy and Economic Performance during	Jan Fidrmuc
D03-00	· · · · · · · · · · · · · · · · · · ·	Jan Flutinuc
B04-00	Transition A New Political Culture in The EU - Democratic Accountability of the ECB	Christa Randzio-Plath
B03-00	Integration, Disintegration and Trade in Europe: Evolution of Trade Relations during the 1990's	Jarko Fidrmuc, Jan Fidrmuc
B02-00	Inflation Bias and Productivity Shocks in Transition Economies: The Case of the Czech Republic	Josef C. Barda, Arthur E. King, Ali M. Kutan
B01-00	Monetary Union and Fiscal Federalism	Kenneth Kletzer, Jürgen von Hagen
1999		_
B26-99	Skills, Labour Costs, and Vertically Differentiated Industries: A General Equilibrium Analysis	Stefan Lutz, Alessandro Turrini
B25-99	Micro and Macro Determinants of Public Support for Market Reforms in Eastern Europe	Bernd Hayo
B24-99	What Makes a Revolution?	Robert MacCulloch
B23-99	Informal Family Insurance and the Design of the Welfare State	Rafael Di Tella, Robert Mac- Culloch
B22-99	Partisan Social Happiness	Rafael Di Tella, Robert Mac- Culloch
B21-99	The End of Moderate Inflation in Three Transition Economies?	Josef C. Brada, Ali M. Kutan
B20-99	Subnational Government Bailouts in Germany	Helmut Seitz
B19-99	The Evolution of Monetary Policy in Transition Economies	Ali M. Kutan, Josef C. Brada
B18-99	Why are Eastern Europe's Banks not failing when everybody	Christian E. Weller, Bernard Mor-
D10-99	else's are?	zuch
B17-99	Stability of Monetary Unions: Lessons from the Break-Up of Czechoslovakia	Jan Fidrmuc, Julius Horvath and Jarko Fidrmuc
B16-99	Multinational Banks and Development Finance	Christian E.Weller and Mark J. Scher
B15-99	Financial Crises after Financial Liberalization: Exceptional Circumstances or Structural Weakness?	Christian E. Weller
B14-99	Industry Effects of Monetary Policy in Germany	Bernd Hayo and Birgit Uhlenbrock
B13-99	Fiancial Fragility or What Went Right and What Could Go Wrong in Central European Banking?	Christian E. Weller and Jürgen von Hagen
B12 -99	Size Distortions of Tests of the Null Hypothesis of Stationarity: Evidence and Implications for Applied Work	Mehmet Caner and Lutz Kilian
B11-99	Financial Supervision and Policy Coordination in the EMU	Deutsch-Französisches Wirt- schaftspolitisches Forum
B10-99	Financial Liberalization, Multinational Banks and Credit Supply: The Case of Poland	Christian Weller
B09-99	Monetary Policy, Parameter Uncertainty and Optimal Learning	Volker Wieland
B08-99	The Connection between more Multinational Banks and less Real Credit in Transition Economies	Christian Weller

B07-99	Comovement and Catch-up in Productivity across Sectors: Evidence from the OECD	Christopher M. Cornwell and Jens- Uwe Wächter
B06-99	Productivity Convergence and Economic Growth: A Frontier Production Function Approach	Christopher M. Cornwell and Jens- Uwe Wächter
B05-99	Tumbling Giant: Germany's Experience with the Maastricht Fiscal Criteria	Jürgen von Hagen and Rolf Strauch
B04-99	The Finance-Investment Link in a Transition Economy: Evidence for Poland from Panel Data	Christian Weller
B03-99	The Macroeconomics of Happiness	Rafael Di Tella, Robert Mac- Culloch and Andrew J. Oswald
B02-99	The Consequences of Labour Market Flexibility: Panel Evidence Based on Survey Data	Rafael Di Tella and Robert Mac- Culloch
B01-99	The Excess Volatility of Foreign Exchange Rates: Statistical Puzzle or Theoretical Artifact?	Robert B.H. Hauswald
1998		
B16-98	Labour Market + Tax Policy in the EMU	Deutsch-Französisches Wirt- schaftspolitisches Forum
B15-98	Can Taxing Foreign Competition Harm the Domestic Industry?	Stefan Lutz
B14-98	Free Trade and Arms Races: Some Thoughts Regarding EU-Russian Trade	Rafael Reuveny and John Maxwell
B13-98	Fiscal Policy and Intranational Risk-Sharing	Jürgen von Hagen
B12-98	Price Stability and Monetary Policy Effectiveness when Nomi-	Athanasios Orphanides and Volker
212 00	nal Interest Rates are Bounded at Zero	Wieland
B11A-98	Die Bewertung der "dauerhaft tragbaren öffentlichen Finanz- lage"der EU Mitgliedstaaten beim Übergang zur dritten Stufe	Rolf Strauch
B11-98	der EWWU Exchange Rate Regimes in the Transition Economies: Case Stu-	Julius Horvath and Jiri Jonas
B10-98	dy of the Czech Republic: 1990-1997 Der Wettbewerb der Rechts- und politischen Systeme in der	Martin Seidel
	Europäischen Union	
B09-98 B08-98	U.S. Monetary Policy and Monetary Policy and the ESCB Money-Output Granger Causality Revisited: An Empirical Ana-	Robert L. Hetzel Bernd Hayo
	lysis of EU Countries (überarbeitete Version zum Herunterladen)	
B07-98	Designing Voluntary Environmental Agreements in Europe: Some Lessons from the U.S. EPA's 33/50 Program	John W. Maxwell
B06-98	Monetary Union, Asymmetric Productivity Shocks and Fiscal Insurance: an Analytical Discussion of Welfare Issues	Kenneth Kletzer
B05-98	Estimating a European Demand for Money (überarbeitete Version zum Herunterladen)	Bernd Hayo
B04-98	The EMU's Exchange Rate Policy	Deutsch-Französisches Wirt- schaftspolitisches Forum
B03-98	Central Bank Policy in a More Perfect Financial System	Jürgen von Hagen / Ingo Fender
B02-98	Trade with Low-Wage Countries and Wage Inequality	Jaleel Ahmad
B01-98	Budgeting Institutions for Aggregate Fiscal Discipline	Jürgen von Hagen
1997 B04-97	Macroeconomic Stabilization with a Common Currency: Does European Monetary Unification Create a Need for Fiscal Ins-	Kenneth Kletzer
B-03-97	urance or Federalism? Liberalising European Markets for Energy and Telecommunications. Some Lessans from the U.S. Electric Utility Industry.	Tom Lyon / John Mayo
B02-97	tions: Some Lessons from the US Electric Utility Industry Employment and EMU	Deutsch-Französisches Wirt-
B01-97	A Stability Pact for Europe	schaftspolitisches Forum (a Forum organized by ZEI)

ISSN 1436 - 6053

Zentrum für Europäische Integrationsforschung Center for European Integration Studies Rheinische Friedrich-Wilhelms-Universität Bonn

Germany www.zei.de