





028736

ENEPO

EU Eastern Neighbourhood: Economic Potential and Future Development

Instrument: Specific Targeted Research Project

Thematic Priority: Priority 7 – Citizens and Governance in a Knowledge-based Society

D25

Working paper on concepts and definitions of institutional development (harmonisation) and methodology of measuring them

Due date of deliverable: 30/04/2007 Actual submission date: 12/06/2007

Start date of project: 01/05/2006 Duration: 36 months

Organisation name of lead contractor for this deliverable: CASE Ukraine

Revision []

June 11 2007

Deliverable 25

Working paper on concepts and definitions of institutional development (harmonization) and methodology of measuring them.

Prepared in the framework of WP 11, ENEPO

Contents

Introduction	2
Chapter 1. Institutional harmonization and its costs and benefits in the context of the EU	
cooperation with its neighbors	3
Chapter 2. Possible problems with institutional harmonization and the ways of overcoming them	
Chapter 3. Measuring non-tariff barriers and their impact on the economy	27
Chapter 4. Measuring costs of institutional harmonization	42
Conclusions	
References	58

Summary

This paper studies costs and benefits of institutional harmonization in the application to EU relations with its neighbors. The purpose of this paper is to outline the likely forms of institutional harmonization between the EU and its eastern neighbors and overview the methodologies for measurement of its effects (costs and benefits). This paper serves as a background for two measurement exercises – one on benefits and another on costs – that are to be undertaken at the second stage of research.

Introduction

This working paper contains the results of the first stage of the research conducted in the framework of the Work Package 11 of the ENEPO project. Work package 11, called "The costs and benefits of institutional harmonization" aims to identify the costs and benefits of institutional harmonization between EU and its eastern neighbors.

The first stage of research, presented here, is devoted to discussion of concept of institutional harmonization, its application in the context of relations between the EU and its eastern neighbors, discussion of possible costs and benefits of such harmonization and methods to measure them. This research serves as a background for the second stage of the project that is devoted to measuring costs and benefits of institutional harmonization between the EU and its eastern neighbors.

For the purposes of analysis in this paper by "eastern neighbors" (which we abbreviate as EN countries) we mean countries covered by the European Neighbourhood Policy plus Russia, i.e. we analyze Armenia, Azerbaijan, Belarus, Georgia, Moldova, Russia and Ukraine.

Chapter 1 starts with a brief discussion of the concept of institutions and institutional harmonization. Then it proceeds to an enquiry on what institutional harmonization between the EU and its neighbors may mean and what shape it can take. Based on this analysis, assumptions about the shape of harmonization are developed (to be used in further analysis). This is followed by a brief discussion of possible costs and benefits of the suggested path of harmonization and some methodological remarks on their measurement. In Chapter 2 limitations and problems of institutional harmonization are discussed. Chapter 3 is devoted to discussion of methodologies to measure the magnitude of non-tariff barriers (NTBs). This analysis will be further used for estimation of benefits of institutional harmonization in the context of getting better market access. Chapter 4 discusses methodologies to measure costs of institutional harmonization and their empirical estimates. Analysis in Chapters 3 and 4 serve a background for development of respective models to measure costs and benefits at the second stage of the research.

Chapter 1. Institutional harmonization and its costs and benefits in the context of the EU cooperation with its neighbors

1. Concept of institutional harmonization and its applications to the European integration

1.1 What is institutional harmonization

It has become an established fact that institutions are an important factor of economic performance of economies. Numerous empirical studies showed a positive correlation between the level of development of institutions of countries and performance of their economies across space and over time (the earliest and most famous of them done by the Nobel Prize winner Douglass North (North, 1990)).

The link between the institutions and growth stems from the very notion of institutions: according to North's theory, they are formal rules, informal constraints, and enforcement mechanisms that provide the basic structure by which human beings create order and attempt to reduce uncertainty in exchange. By reducing uncertainty, institutions help reduce transaction costs and, hence, the profitability and feasibility of engaging in economic activity.

In the context of harmonisation within and with the EU, institutional harmonisation can be considered as a part of Europeanisation – a process of internalisation of European values and policy paradigms. It takes place as within the EU itself, so beyond its borders. Enlargement, for example, stimulated Europeanisation in the acceding states. The European Neighbourhood policy attempts to bring the same forces in play beyond EU frontiers.

We would argue that the success of the institutional harmonisation can be measured by the degree of the Europeanisation achieved, i.e. whether the changes have been internalised. Simple mechanical replication of institutions that does not lead to their internalisation will not bring much benefit and might actually harm the "importing" country. If the institutional changes are not internalised, the harmonisation can result in emergence of a large gap between the official institutions and unofficial ones. The EU appreciates this challenge and tries to seek ways to increase local ownership of the integration effort. In particular, in the Action Plans within ENP it suggests the joint setting of priorities and joint monitoring of reform performance.¹

1.2 What institutional harmonization with the EU may mean - lessons from existing arrangements

In the economic domain, institutional harmonisation with the EU means adoption of the rules and policies that govern the EU economy. The highest degree of harmonisation can be achieved by joining the EU; yet, other arrangements that involve certain degree of harmonisation are also possible. The existing arrangements vary by the degree of integration and by the coverage. After the membership in the EU, the strongest degree of integration is achieved within the European Economic Area (EEA); then follow EU-Swiss bilateral cooperation and EU-Turkey Customs Union, and, finally, different free trade arrangements (such as Euro-Mediterranean FTA or FTA with Chile). In addition, there are examples of sectoral arrangements, such as Mutual Recognition

¹ Chapter 2 discusses the limitations of institutional harmonisation in the context of the ENP and the need for its internalisation.

agreements in particular sectors. We will briefly discuss each arrangement and try to draw lessons for neighbor countries.

Option 1 – accession to the EU (membership)

Although this option is not realistic in the timeframe of our analysis, it is worth discussing as a benchmark case and a maximum of what can be potentially attained. At the latest round of accession negotiations for 10 countries that joined in 2004, the parties negotiated 31 chapters as a part of the accession. They included free movement of goods, services, persons and capital, as well as company law, competition policy, agriculture, fisheries, transport policy, taxation, economic and monetary union, statistics, employment and social policy, energy and others.

In the economic domain, institutional harmonisation with the EU means, first of all, adoption of the EU's rules in the four domains of its internal market – goods, services, capital and labour. The main instruments here are harmonisation and mutual recognition. Harmonisation means adopting EU acquis; while mutual recognition means that states give each others' laws and standards the same validity as their own. In addition to harmonisation in the areas of "four freedoms", the acceding states need to take on rules in other areas of the European common market. For example, they have to comply with EU competition acquis, and before the accession the European Commission tests whether enterprises operating in the candidate countries are accustomed to operating in an environment such as that of the Community.

It is clear that the scope and the depth of institutional harmonization between EU and its eastern neighbors will be smaller than in case of accession states. In some sectors harmonization can be deep, and in these cases it will be interesting to look at accession countries' experiences. Yet, in a number of sectors no harmonization is likely to happen without membership prospect (such as citizenship or CFSP). It makes sense then to return to discussion of accession experiences once it is decided which sectors will see deep harmonization.

Option 2 – European Economic Area

European Economic Area (EEA) is an example of institutional harmonization with the EU without membership. Currently, EEA includes Iceland, Lichtenstein and Norway. EEA works on a basis of a multilateral agreement between EEA members and the EU. According to the agreement, EEA members adopt all EU acquis related to the functioning of the EU common market (with exception of Fishery policy in case of Norway and Common Agricultural Policy). With regard to third countries, EEA states are free to set their own tariffs and conduct their own trade policy (including anti-dumping measures, or concluding mutual recognition agreements).

The major disadvantage of this arrangement is quite a weak influence on EU decision making (EEA countries can only participate in "decision shaping" through consultations in working groups). Plus, adoption of the full body of the EU Common market related acquis may be disadvantageous for some sectors.² Finally, adoption of all EU acquis requires an advanced administrative and

² The issue of sectoral coverage will be discussed later, yet at this point it is worth noting that it could be difficult to avoid some losses for some sectors in any deal on integration/harmonization with the EU, as so far the "package approach" has been the major feature of the European integration, that involved not only exchange of one-sector

institutional capacity. On the positive side one can mention, of course, unimpeded access to the EU internal market. EEA states also participate in a range of EU programs and institutions, for example, standardization bodies.

Experience of EEA countries shows that one can fully participate in the EU internal market without EU membership. Yet, it would be difficult for the EU eastern neighbors to fully adopt this model in any near future mainly because of lack of administrative capacity and also because their economies substantially differ from the EU economy (both by level of development and structure) much more than economies of EEA countries. Yet, some elements of this model could be borrowed. For example, neighbor countries could participate in standardization bodies in the areas where they go for substantial harmonization with the EU.

Option 3 – EU-Switzerland cooperation

EU-Swiss bilateral cooperation is based on a free trade agreement and a range of sectoral agreements on the free movement of persons, elimination of technical barriers to trade, public procurement, civil aviation, transport, agriculture, research and others. Switzerland adopts EU's acquis only in the sectors covered by agreements plus related policies (public procurement, for example).

Such a harmonization "a la carte" has its obvious advantages, as partners may chose sectors in which it is beneficial for them to have harmonized policies. At the same time, it can pose problems, as it limits the scope for package deals that involve concessions in different sectors and, thus, limits the scope for harmonization. In order to limit the "cherry-picking" by Switzerland, the EU introduced a so-called 'guillotine clause' so that Switzerland cannot opt out of one agreement without having all others suspended. Moreover, the limited scope of harmonization does not ensure genuinely free market access; for example, if competition policy is not fully harmonized (which is the case in Switzerland), it leaves room for launching antidumping cases and prohibiting market access.

Despite all these limitations, however, Swiss authorities recently confirmed their preference for continuing the cooperation based on bilateral sectoral agreements, because they think at the moment this option is the most efficient in promoting Swiss interests³. This approach, based on the search for best options of promotion of state interests, as opposed to search of the optiomal shape of integration, could be very useful in case of EN countries, as it helps to focus on the substance and purpose rather than form of integration and harmonisation.

To summarise, the Swiss model of cooperation could be attractive to neighbors because of its selective nature. At the same time, their interests in relations with EU may be different from those of Switzerland. For example, for EN countries institutional harmonization with the EU may serve as a road to modernization; in such a case it could be in their interest to have more comprehensive harmonization. In particular, adopting EU horizontal policies in areas such as competition can stimulate important market reforms in these countries. Therefore, in defining the scope and the

_

concessions, but also cross-sectoral deals. The basic initial deal between France and Germany that formed the ECSC is the most evident example to this end.

³ Swiss Integration Office, 2006

depth of their institutional harmonization with the EU, one of the major parameters should be the extent to which each particular measure helps in reform and modernization of their economies.

Option 4 - EU-Turkey Customs Union

Another option that eastern neighbors could contemplate is a customs union (CU) with the EU. CU means full trade liberalization accompanied by an application of a single external tariff. To date, the EU has only one such agreement with a non-member country – with Turkey⁴. According to the agreement, the two parties eliminated tariff and non-tariff barriers to each other's industrial goods, and Turkey adopted Community's Common Customs Tariff for imports from the third countries. However, the customs union does not cover agriculture (except processed agricultural products), services and public procurement. Turkey harmonized its legislation in the areas of the protection of intellectual, industrial and commercial property rights, competition, state aid, public procurement and taxation, as well as settlement rights and services with that of the EU. The decision on implementing the customs union contains quite detailed prescriptions on what parts of the acquis should be adopted (or with which the Turkish legislation should comply) and when.

The record of implementation of the CU agreement shows mixed results. On the one hand, as Ulgen and Zahariadis (2004) ague, it helped to transform the Turkish industry by introducing stronger competition, which led to improvements in productivity, and changed the structure of the Turkish industry through its integration in international production and distribution networks. Furthermore, it helped to modernize Turkey's economic legislation, which also facilitated creation of a favorable business climate.

On the other hand, customs union has important downsides. First is the possibility of trade diversion. In case of Turkey this seems not have been the case, as Ulgen and Zahariadis (2004) argue. Yet, other countries should carefully consider the possibility of such an effect of the CU. Second, Turkey has no influence on its tariff policy and has to follow trade policy of the EU. For example, it had to conclude free trade agreements with all third states with which EU had FTAs. In case of a CU with such a big partner as the EU, the situation is exacerbated by the very unequal character of the relationship, as EU does not adjust its trade policy to Turkey's interests.

All this limitations make it difficult to recommend CU as a suitable arrangement for EN countries. The most important argument in their case is that the majority of them have large portion of trade with non-EU countries (very often between themselves, and especially with Russia), so that trade diversion could bring substantial losses. At the same time, it is instructive to look at the Turkish case because of similarity of its level of institutional development with that of the EN countries. Unlike EEA countries, which are able to adopt all economic acquis and get the full market access, Turkey represents a case of a partner with less developed institutions that not only faces the challenge in adopting EU economic requirements, but also diverse challenges of development and economic modernization.

The first lesson from the Turkish experience is that harmonization of standards is not enough to get market access; what is also important is conformity assessment. Ulgen and Zahariadis (2004), for example, show that Turkish products often face difficulties entering the EU market due to lack of

⁴ To be exact, EU has other two CU agreements – with Andorra and San Marino, European microstates

conformity assessment, which arises due to weaknesses in the Turkish certification and accreditation system and, consequently, lack of trust on the part of the EU.

Second, despite adoption of EU product standards and different trade-related acquis, Turkey is not saved from EU antidumping investigations and other trade defense measures. According to the agreement on CU, application of these instruments can be suspended if the EU-Turkey Association Council finds that Turkey had implemented competition, state aid control and other relevant parts of the acquis related to the internal market and ensured their effective enforcement⁵. As with conformity assessment, Turkey is not there yet.

Third, it is important to ensure the depth and the coverage of market access that is beneficial for both parties. For example, the EU-Turkey customs union does not cover agriculture and services, which substantially limits the benefit of CU for Turkey.

Finally, the Turkish case also shows that it is better not to build cooperation on assumptions: i.e. Turkey considered CU as a stepping stone to the EU membership. Yet, the road to the EU membership appeared to be rather long (and still not secure), at the same time Turkey had to bear different economic and political costs of CU.

To summarize, it is difficult to advise creation of a customs union with the EU for EN countries due to serious drawbacks of this arrangement, first of all, the possibility of trade diversion. At the same time, useful lessons could be drawn from the Turkish experience. On the one hand, it shows that CU did stimulate harmonization and reform of the Turkish economy in line with EU requirements. At the same time, weak institutional capacity prevented Turkey from enjoying fully the benefits from such an arrangement (for example, due to lack of conformity assessment). Other limitations of the arrangement - a possibility of imposition of antidumping duties, exclusion of important sectors (agriculture and services) from the arrangement - further weakened its positive effect. These shortcomings are not necessarily features of the customs union per se, yet they could be instructive for EU eastern neighbors for shaping their economic agreements with the EU.

Option 5 – Free trade area (FTA)

The EU has a multiplicity of FTAs: in addition to EEA, it has been advancing FTAs with developing countries in the Middle East, North Africa, Latin America, Caribbean and other regions. The most interesting from the point of view of EN countries could be Euro-Mediterranean Free Trade Area (EMFTA), as it applies to another group of EU neighbors. Creation of EMFTA is a part of the Barcelona process – the process of cooperation and integration between the EU and the Mediterranean countries. EMFTA does not exist yet – its creation should be completed by 2010. Currently, countries-participants of the process have association agreements with the EU that define the mechanisms of completing EMFTA.

Compared to other forms of cooperation and integration, FTA is the weakest in terms of the depth and scope of institutional harmonization. In case of Mediterranean countries, Association agreements provide only for liberalization of trade in manufactured goods, but not in services or agriculture. Empirical estimates show that liberalization in agriculture in Euromed countries could

-

⁵ EC (1995)

bring between 0 and 0.5% of GDP6. The small magnitude of the effect stems mainly from the expected shrinkage of the agricultural sector in Euromed countries, partly because of stronger competition from subsidized imports from the EU. As for the services sector, welfare gains from liberalization are estimated at approximately the same magnitude – at about 1% of GDP; yet, due to the effect on FDI and a stimulating effect on domestic reforms services liberalization could bring benefits many times larger (up to 50% of GDP).⁷ It was only recently that the EU and its Mediterranean partners started to advance the agenda of liberalization in agricultural products and services.⁸

The depth of harmonization envisaged by Euromed Association agreements is also insignificant: unlike in EU-Turkey customs union agreement, Euromed agreements do not have any requirements on adopting EU acquis, except for rules of origin. Also, provisions on state aid, competition and other horizontal issues have a declarative character. An advance on these issues is made in the Action Plans in the ENP framework, which, for example, set clear agenda for harmonization of product standards (through implementation by Euromed partners of the Agreement on Conformity Assessment and Acceptance of Industrial Products (ACAA)), and also contain quite detailed and concrete provisions on customs, state aid and competition policy.

The main conclusion that one may draw from the Mediterranean countries' experience is that gains from a simple FTA limited to liberalization of trade in goods are going to be limited, and EN partners should consider "enhanced" types of agreements. In particular, they could investigate the possibilities and possible effects of liberalization of trade in services and agriculture.

Conclusion on other countries experience

- Based on the review of some lessons from the existing arrangements, one can conclude that EN countries should opt for a wider integration than just liberalization of trade in manufactured goods and consider other sectors.
- Harmonization should be based on the realistic assessment of integration options, and not assumptions. It should also focus on achieving the interest of EN countries and not so much on the name and design of the integration model.
- Transposition of EU standards into the national legislation does not give an automatic market access, it needs to be also effectively implemented.
- Sectoral approach could be attractive, as it offers flexibility; yet it also poses limits on integration.
- Customs union is stronger in promoting institutional harmonization than FTA, yet its drawbacks make it unattractive option for EN countries.

1.3 Options for institutional harmonization of EU Eastern Neighbors

_

⁶ IARC (2006)

⁷ IARC (2006)

⁸ See, for example, Euromed (2005)

The institutional harmonization in the neighboring countries with the EU is going to be driven by the agenda of facilitating market access, especially in the goods sector, and integration in infrastructure sectors, notably energy and transport.

The absence of membership prospective for the EU neighbors is likely to limit the degree of institutional harmonization of these countries with the EU compared to that achieved in case of accession. Impossibility of acceding to certain institutions and insufficient leverage are two broad reasons that will limit the degree and scope of integration and its effects. For example, neighbor countries will not be able to fully participate in such EU institutions as the Council and the European Commission (although some observatory status is, of course, possible). At the same time, it would be difficult for the EU to impose conditionality on these states comparable to that it was able to apply to the accession countries. The promise of full integration in the EU, extended to candidate countries, has legitimized the EU's demands on adoption of it norms and institutions by acceding countries. It is not going to be the case with the neighbouring countries; rather, their integration with the EU will be selective in terms of coverage and will be based on mutual benefit in each particular field.

The current debate on the prospects of integration and cooperation between the EU and its Eastern neighbours goes within the framework of the European Neighbourhood Policy (ENP). The ENP was developed in 2004 with the general objective of avoiding the emergence of new dividing lines between the enlarged EU and its neighbours. ENP covers all EU eastern neighbours, except Russia, and ten Mediterranean countries. Russia refused to join ENP, but develops its relationship with the EU through a Strategic Partnership covering four "common spaces".

The official economic objective of the ENP is to help the neighbours develop and modernise their economies by anchoring them to the European model of economic governance. The EU proposes doing so by creating enhanced FTAs and extending to neighbors access to the EU internal market and undertaking deep integration in several sectors, first of all, energy and transport. The key premise of the ENP is that economic integration should go beyond free trade in goods and should also include "behind the border" issues: eliminating non-tariff barriers and progressively achieving comprehensive convergence in trade and regulatory areas such as technical norms and standards, sanitary and phytosanitary measures, rules of origin, customs procedures, and others.

ENP Action Plans have been the main instrument in implementation of the ENP. The EU concluded them with all eastern neighbours except Belarus, cooperation with which is limited due to undemocratic regime in the country. In its recent Communication on the ENP, the European Commission states that "Over time, the implementation of the ENP Action Plans, particularly on regulatory areas, will prepare the ground for the conclusion of a new generation of deep and comprehensive Free Trade Agreements (FTA) with all ENP partners". These FTAs will cover substantial part of trade in goods and services, including sectors important for ENP countries, and will include strong legally-binding provisions on trade and economic regulatory issues.¹⁰

Action Plans for EU Eastern Neighbors envisage the following with regard to institutional harmonization:

-

⁹ European Commission (2006), p.4

¹⁰ Ibid., p.4

Table 1.1 Key provisions on institutional harmonisation in the economic domain as defined in ENP Action Plans for EU Eastern Neighbors

Trade general	Exploration of possibilities for establishment of a free trade agreement
Horizontal issues:	
Customs	Harmonisation and simplification of customs legislation and procedures
Trade in EU harmonized areas	Adoption of European and international legislative and administrative practices for standards, technical regulations and conformity assessment in EU harmonized areas, especially in priority sectors of cooperation for both parties
Trade in EU non- harmonised areas	Elimination of discrimination in EU non-harmonized areas, increasing information exchange
SPS	Modernisation of SPS through: adoption of WTO requirements on SPS, gradual convergence with EU practices
Company law and establishment	Convergence and effective implementation of key principles on company law, accounting and auditing with international and EU rules and standards
Services	gradual liberalisation of trade in selected service sectors
Movement of capital	Ensuring the free movement of capital relating to direct investment
Movement of workers	Abolishing discrimination towards migrant workers as regards working conditions, remuneration or dismissal
Taxation	Developing the tax system in accordance with general EU and international principles
Competition policy	Convergence with EU principles on Competition, in particular through establishing full transparency on state aid, increase in capacity and independence of competition authorities
Intellectual and industrial property rights (IPR)	Ensure full conformity of IPR legislation with TRIPS and its effective enforcement; develop cooperation with EU law enforcement bodies in field of IPR
Public procurement	Ensure compliance of the public procurement system with EU procurement legislation and principles, in particular transparency, information provision, access to legal recourse, awareness as well as limited use of exceptions
Statistics	Adoption of statistical methods fully compatible with European standards
Sectors:	
Transport	Approximation of legislative and regulatory frameworks with European and

	international standards, in particular for safety and security (all transport modes); co-operation in satellite navigation; conclusion of agreements on air services with the EU; development of the Pan-European Corridors and Areas
Energy	Energy policy convergence towards EU energy policy objectives; gradual convergence towards the principles of the EU internal electricity and gas markets
Information Society	Adoption of audiovisual legislation in full compliance with European
and media	standards with a view to future participation in international instruments of the
	Council of Europe in the field of media; approximate digital television and
	audio broadcasting to European standards
Environment	No exact requirements on convergence, but demands to ensure that
	conditions for good environmental governance are set and to
	implementing them; enhance co-operation on environmental issues
Science and	Encourage integration into the European Research Area and into
technology, R&D	Community R&D Framework Programmes

As the above summary of provision demonstrates, the harmonization agenda is quite wide in scope and encompasses all major horizontal policy areas. The depth of harmonization, however, differs, with highest demands being put for standards for industrial products, SPS and competition policy.

Second major route for neighbors' engagement is sectoral integration. The analysis of Action Plans suggests that transport and energy will see the deepest degree of integration and harmonization in the near future. EU neighbors can potentially go as far as full integration in the European energy and transport networks. Most importantly, there is a strong mutual interest in integration in these sectors: in particular in the energy sector, integration would allow enhancing energy security for both EU and its neighbors. The EU is also interested in the integration in the aviation sector to get better market access in the ENP countries, 11 while the latter hope it will help upgrade the sector and attract investment in it. As in case with market access in goods, the most important effect of integration in these sectors for the neighbor countries is going to be the stimulus for liberalisation and reform of these sectors that the integration will demand.

The EU's partnership with Russia is developed within the framework of the "Common European Economic Space" that were agreed at the Russian-European summit in May 2002. At the St.Petersburg Summit in May 2003, the EU and Russia decided to develop four common spaces: a common economic space; a common space for freedom, security and justice; a space for cooperation for external security; and a space for joint research and education. At the Moscow Summit in May 2005, a package of Road Maps was adopted that outline the actions necessary to implement the common spaces.

¹¹ The Action Plans, in particular, suggest possible joining by Ukraine, Moldova and Georgia of the European Joint Aviation Authorities. The EU also plans to conclude a comprehensive aviation agreement with Russia, which, it hopes, will solve the problem of discriminatory Siberian overflight charges.

The general provisions of the common economic space (CES) are similar to the provisions of the ENP Action Plans, but are put in a different wording. The major difference is that it does not speak of Russia's adopting EU's acquis, but rather about "dialogue" and "approximation". The Road Map on CES, again, talks about creation of an "integrated market". As with ENP countries, CES includes proposals on creation of common networks in several sectors: telecommunications, transport, energy, space and environment. Cooperation in the energy sector is likely to be a priority.

1.4 Proposed institutional harmonization package for EU eastern neighbors

Based on the provisions of the ENP documents, specifics of the EU Eastern neighbors and drawing on the lessons of other countries, we suggest that institutional harmonization between the EU and its neighbors in the medium term will involve the following:

- FTA in industrial products, involving full harmonization of product standards and regulation in EU harmonized areas and adoption of Mutual Recognition agreement in nonharmonized areas;
- 2) Partial liberalization of trade in agricultural products (in sectors that are able to comply with EU SPS requirements);
- 3) Partial liberalization of trade in services. Service sector in EN countries constitutes between 32% and 60% of GDP (Table 1.2), which means that liberalization in services trade can have strong economic effects.
- 4) Integration in EU energy and transport networks.

Table 1.2 Composition of GDP, %, 2004

	Agriculture	Industry	Services
Armenia	25,4	39,1	35,6
Azerbaidjan	13,5	54,3	32,2
Belarus	15,7	38,3	46,1
Georgia (2003)	20,5	25,5	54,1
Moldova	23,4	21,4	55,2
Russia (2003)	5,2	34,2	60,7
Ukraine	13,7	40,1	46,3

Source: http://www.europa.eu.int/comm/trade/issues/bilateral/datapdf.htm

3. Effects from institutional harmonization

Experience of previous integration initiatives, as within the EU, so in other parts of the world could give insights of what to expect from institutional harmonisation in the EU neighbouring states. This chapter starts with overview of theoretical underpinnings on the impact of institutional harmonisation on the performance of the economies, to which added are examples from empirical studies. The focus of the analysis is on the effects for the countries that import institutions, i.e.

countries that integrate with the EU. The analysis starts with description of benefits from institutional harmonisation and then turns to costs.

3.1 Benefits

There are different channels through which the institutional harmonization with the EU is going to benefit a country. The major of them are:

- better market access
- increased investment
- increased competition
- reduced corruption

The ultimate result of all these effects is higher economic efficiency and welfare.

1) Improved market access

Institutional harmonisation, especially in the economic sphere, is going to improve the mutual market access between the EU and the partner country. This effect comes due to reduction in the non-tariff barriers thanks to harmonisation in economic regulations and standards. In case of European integration this means harmonisation of partner country's institutional settings with the requirements of the European internal market. These include product standards and regulations, competition and state aid policy and other areas regulated by the EU's acquis. Once a partner country harmonises these areas with EU requirements, its companies can freely sell at the EU market. To its turn, better market access brings efficiency gains that promote growth (discussed further).

Lejour et al (2001) distinguishes two channels through which market access can have a positive effect on the economic efficiency and growth. One works through better exploitation of the comparative advantage, when better market access (through the removal of NTBs) leads to change in relative prices and, therefore, makes prices more informative of real comparative advantage of countries, thus encouraging more efficient trade pattern, this, in turn, leads to economic growth. The second effect works through the change in terms of trade for both partners due to removal of the loss that the NTB generated (unlike tariffs, NTBs do not generate income to any of the parties and are a pure efficiency loss). According to estimations by Lejour et al (2001), improvement of access of CEE countries to the EU market leads to 5-9% GDP welfare improvement in CEE. Maliszewska (2004) obtained a similar result – 3-7% GDP. There exist a range of other estimates of effects from better market access through NTBs removal, which are discussed in detail in Chapter 3.

2) Increased investment

The estimated efficiency and growth gains from the institutional harmonization are going to be larger if one incorporates its dynamic effect, in particular, on investment. First, the institutional harmonization makes the environment in the partner country more familiar to investors. Secondly, as the quality of imported institutions is going to be better than of old domestic ones (as we

assumed for ENP countries), the business environment will become more hospitable to investors. For example, a successful adoption of EU norms on property rights or competition is likely to increase substantially the attractiveness of ENP economies for investment. Thirdly, the effect of "tying hands", as discussed above, increases credibility and stability of government policies. All these effects result in the reduction of the risk premium and, thus, of interest rates. Lower risk premium will attract risk-averse investors and will also bring efficiency gains due to higher certainty. Furthermore, the reduction in interest rates will make investment more affordable. All these effects will stimulate capital accumulation and growth.

Baldwin et al (1997) estimate that the effect from the reduced risk premium may result in up to 18.8% real income growth (this result is obtained under assumption that risk premium reduces by 15%). CEPS (2006, p. 72) estimates for Ukraine give about 4-5% welfare improvement from the reduced cost of capital (CEPS estimates the fall in the risk premium at 17%).

3) Increased credibility of reforms and certainty in the economy

Credibility of reforms is the major condition of their success. If economic agents do not believe the announced reform plans, they will not adjust their economic behaviour accordingly, and thus, the reform will not have a desired effect. The argument goes as follows: The credibility problem arises either when the government's policies are inconsistent or when government's motives are unclear; or the anticipated political costs of the policies are high; and finally, when the macro-economic environment is unstable (Rodrik, 1989, as cited in Piazolo, 1999). The literature suggests several strategies to deal with the credibility problem: to signal commitment, to change governmental incentives and to reduce the scope of governmental maneuvering.

Integration with a more advanced partner, such as the European Union, can help enhance the credibility of reforms. In particular, Piazolo (1999) argues that integration with an advanced partner such as the EU gives an opportunity to use all of the above mentioned strategies to improve credibility. First, commitment to integrate serves as a signal of government that limits the scope of its maneuver, including deviation from reforms. Second, integration involves obligations that reduce the possibility of arbitrary changes of policies. Finally, integration may change the incentive structure of the government (i.e. when integration brings valuable benefits to the government), so that it becomes reluctant to deviate.

A similar argument is developed by Whalley (1996), namely that the objectives of the countries that seek regional integration are not limited to economic gains from trade, but also include a multiplicity of other goals, including securing irreversibility of reforms.

Previous enlargements of the EU can provide insights on how these effects operate. In the process of accession of CEE countries, the Europe Agreements served as guides for implementing domestic reforms and advancing integration agenda. A failure to comply with them could substantially delay the integration process, which was regarded as very undesirable by the acceding countries. In such a way, the Europe Agreements served as a powerful reform catalyst and a disciplinarian device. The accession of Romania and Bulgaria confirms the very strong effect of accession to the EU on credibility of domestic policies. In 2005, the EU began talking of postponement of accession of these countries, as they have not reformed sufficiently; the EU was especially concerned about the pervasive corruption. The fear of such a delay prompted the Bulgarian and Romanian governments to intensify their effort.

Another example comes from Mexico: according to Whalley (1996), it was not that much market access, as the need to secure the irreversibility of reforms that was behind Mexico's negotiations of NAFTA.

4) Increased competition

Integration into the European market and the accompanying institutional harmonisation can spur competition in the economy. This effect laid at the core of the original idea of the EU common market. The positive effect on competition comes through trade liberalisation, as common market demands removal of protective trade barriers and exposes companies to a strong competition from other companies in the united market. Also, adoption of EU competition and state aid rules is going to give pro-competitive effects. Finally, integration and harmonisation with the EU can help the government overcome domestic protectionist pressures by referring to the need to comply with demands of integration. Finally, competition promotes efficiency and growth (although there are still many unresolved questions in the empirical research on effect of competition on growth¹²).

5) Reduction in corruption

Related to the effect of "tied hands" is another effect from the harmonization with the EU – reduction in corruption. The restrictions that harmonization imposes leave less room for discretionary interpretation of rules and, thus, leave less chance for corruption. Moreover, increased competition due to freer trade reduces monopoly rents and, thus, removes incentives for companies to bribe politicians. There are a large number of studies that show that corruption undermines the effectiveness of investment and slows down the long-term growth of an economy.¹³

Concluding remarks on benefits

As the above overview suggests, the ultimate result of the work of the above effects is an increase in efficiency of resource use and, thus, in productivity and growth. Therefore, additional boost to economic growth can serve as the main measure of the effect of the institutional harmonisation.

3.2 Costs

Institutional harmonization of neighbors with the EU may involve some costs. Harmonization in the economic domain - adaptation of standards, policies and regulations - will require companies to make additional investments and the state to conduct a lot of work on harmonization of legislation and its implementation.

The assessment of the costs of harmonization is a very difficult exercise, both conceptually and technically. The major methodological difficulty lies, as with assessment of benefits, in separating the effect of integration from the effect of the general reform and modernization effort. Another difficulty is the definition of the cost. For example, whether expenses on improvement in product safety should be considered as a cost or as an investment? Or whether compliance with higher

¹² See Aghion and Griffith (2005) for a good overview of different studies and an attempt to reconcile them.

¹³ It has many other effects, such as aggravation of poverty and inequality (as it hurts the poor the most), reducing aid efficiency, threatening security etc.

environmental standards should be treated as a cost or as investment? From a long-term prospective, many expenses on improvement of product safety, environmental quality, administrative procedures and the like are not costs, but rather investments, as they lead to improvement of the economic environment and quality of life. Therefore, a more appropriate name for the "costs" would be "investment in the short run". These should be clearly separated from costs that emerge due to unproductive losses.

There were some attempts to estimate the costs of compliance in the CEE countries in the course of their accession to the EU. The cost of compliance in the agricultural sector was especially high. So, in Poland the costs of the dairy sector adjustment were estimated at PLN 15.5 bn (EUR 3.7 bn) in 1999 (CEN, 2003, p. 126); the investments in the area of environment – at EUR 30.4 bn (Ibid p. 155). The total costs of compliance in the agricultural sector in Poland and Lithuania were estimated at 2-2.5% of GDP (CEPS, 2006, p. 89).

In order to help accession countries to make the adjustments, the EU provided a lot of institutional and financial help. In case of neighbor countries, the amount of support is likely to be substantially lower. Therefore, in their harmonization effort with the EU they should carefully calculate costs and weight them against the expected benefits and to shape and schedule their harmonization effort accordingly.

Chapter 4 discusses the costs of institutional harmonisation and the ways to measure them in more detail.

4. Note on quantifying the effects from institutional harmonization

Measuring the effects of the institutional harmonisation is a challenging task. The major methodological difficulty lies in separating the effects of the institutional harmonisation from the effects of the general reform effort and modernisation that would take place anyway. To the best of our knowledge, there are no studies that suggest a methodology of disentangling these two effects. What the existing studies do is separation of the impact of the quality of institutions on growth in general. The most frequently applied method for measuring the effects of integration, including harmonisation of institutions, is the Computable-General Equilibrium (CGE) model. To asses the impact of institutional harmonisation institutional variables are translated into tariff equivalents.

Another methodological difficulty lies in the very broad spectrum of effects from the institutional harmonisation, not all of which are easily measurable. Yet, as the overview of the effects in the previous section suggests, many of them do impact economic growth and welfare one way or another. Therefore, growth in welfare could be considered as a general indicator of the effect of the institutional change.

The limited nature of neighbours' integration with the EU also poses some methodological challenges, as it means partial harmonisation. This necessitates making some assumptions as to the degree and the coverage of harmonisation. For the purposes of our analysis we assume that harmonisation will be the most advanced in the economic domain, which is, in fact, what the EU itself has announced, i.e. that economic integration will be the priority area of the ENP. Second major assumption is about the degree and form of the integration: moving towards full market

_

¹⁴ At the same time, it is expected that by 2020 the accumulated benefits from improvement of environmental standards will accrue to EUR 41- 208 bn (mainly due to improved health of the population).

access in the majority of economic sectors. This assumption is also based on the already disclosed plans of the EU and its ENP partners.

In sum, for the purposes of measuring the effects of the institutional harmonisation of the eastern neighbours with the EU we will concentrate on the welfare and growth effects stemming from the improved market access. The estimation of costs of harmonisation will be based on the same assumptions.

Chapter 2. Possible problems with institutional harmonization and the ways of overcoming them

"Critically important, the same institution will operate differently in an open access order than in a limited access order. ... Since institutions are made up of rules, behavior patterns, and shared beliefs, the same observable rules may have very different outcomes if the behavior and beliefs associated with them are different..... the fact that the same institution may work differently in a limited and open access social order provides a fundamental insight into the transition process." © 2006 by Douglass C North, John Joseph Wallis, and Barry R. Weingast.

At the beginning of transition in the former soviet block there was a widespread belief that "importing" of the modern Western institutions (understood mostly as formal rules, organizational structures, and so forth) augmented with "capacity building" and extensive advisory aid will make the democracy and markets work. The record has been mixed so far. While the policies were mostly successful in the Eastern European aspirants for EU membership, the experience of CIS countries is less convincing. Very often, importation of foreign formal institutions did not produce the expected results and was even sometimes counter-productive. In this chapter we try to find out what is special about CIS countries that makes institutional harmonization with the western models so difficult and what can be done to deal with these peculiarities, in particular, in the context of their relations with the EU.

2.1 Some theoretical underpinnings

A recent work by North et al (2005, 2006) provides a very insightful and convenient framework for analyzing development in general and transition in particular. We think this approach very clearly demonstrates the nature of problems CIS countries face in their development.

According to North et al. (2005, 2006), all contemporary states can be classified into two fundamentally different groups. In the first one, a ruling coalition preserves its power through paternalism, namely granting of various players with rents in exchange for political support and abstaining from violence. This kind of social order is called a "limited access" one, since the rents can only be generated and preserved through some limitations on entry. The second kind of social order is called an "open access" one, because it is based on political and economic competition. Of course, in any real-world state these both arrangements are present to certain extent. What makes a difference is their balance. But, most importantly for our purposes, the same formal institutions may work differently depending on the fundamental balance between an "open access social order" and a "limited access social order" that is characteristic to a particular country. Therefore, the key question of the effective (not only formal, but de-facto) institutional harmonization becomes how to achieve the transition from the limited access to the open access order.

North et al. (2005, 2006) show that limited access order has been the prevailing mode of social organization for thousands years, and it is only at around 17th-18th centuries that open access societies started to emerge in the Western Europe. The process was gradual, and economic and

political opening went hand in hand. According to the authors, the key to transition has been impersonalisation of exchanges among elites, which became possible due to emergence of rule of law for elites (so that elites respected obligations based on their allegiance to an organization). Other pre-conditions of transition involved perpetual forms of organizations for elites (i.e. emergence of organization as a legal entity) and political control of the limitary. Once these preconditions are met, the success of transition depends on the existence of civil society (i.e. the number and variety of organisations) and is supported by competition in the economic domain.

Based on the North et al. classification, we can infer that EU Member States have an open access order, while CIS countries have strong elements of limited access order (of course, with variation from one country to another). Therefore, institutional harmonisation of eastern neighbors with the EU in fact represents a transition from one order (limited access) to another (open access), and it is in this context that we will try to analyse the challenges and solutions for harmonization.

2.2 Institutional and societal peculiarities of the CIS

Historically, the Russian Empire, the USSR, and later the CIS countries have managed to preserve limited access order despite importing and formal implementation of the modern European institutions. Specific institutional and societal arrangements that have emerged in the process of such an adjustment are remarkably persistent. They can potentially adjust other kinds of new institutions in a similar way that would de-facto preserve limited access despite formal changes, therefore making the reforms ineffective or fake. In this chapter we will briefly describe these phenomena that are, in our opinion, characteristic (although not necessarily unique) to the CIS countries, and can essentially affect the institutional harmonization

- 1. "Soft" rule of law. It means discretionary implementation of (often impracticable) legislation. There is an aphorism of the 19th century Russian historian Karamsin that have become a sort of proverb in the Russian Empire, and then in the USSR and succeeding countries: "the severity of the Russian laws is mitigated by their optional (i.e. discretionary) enforcement". As long as there are no means for punishing all of the breakers of impracticable legislation, it gets enforced arbitrary, at the discretion of a government official. Moreover, soft rule of law puts every person or firm that is subject to a certain law or regulation into discretion of that official, thus generating potential for rents. Yet, rich people or those with connections can reduce their "costs of compliance" by using their capital and ties, which only reinforces the limited nature of the social order. Soft rule of law, therefore, supports the limited-access order and its most prominent feature in the CIS countries.
- 2. Limited access order is interconnected with weakness of civil society and generally low social capital. As Putnam et al. (1993) pointed out, any kind of personal discretionary power tends to crowd out social capital, since it provides people with alternative way of settling the issues. For example, the people in the Southern Italy while being used to patron-client relationships lack the social capital, which prevents the local democratic institutions from working as effectively as the ones in the Northern Italy. Many kinds of modern institutions that are likely to be imported in the process of harmonization imply civil mechanisms that are supposed to complement, support, or check the correspondent state institutes. For example, the policy of decentralization of governance is usually motivated with an assumption that the people can better control and scrutinize the local authorities, thus decentralization should improve transparency. However, this is true only provided that the social capital is high enough. In CIS countries it is not necessarily the case.

3. Yet another important societal peculiarity is persistence of reputation-based interpersonal networks of reciprocal exchange with "favours of access" - "blat" networks that penetrated the whole Soviet society (Ledeneva, 1998). They have emerged as an essentially informal institutional arrangement able to reduce the transaction costs of illegal (but still not illegitimate) exchange. Under the prevailing extortion such networks appear as a necessary defensive strategy that the people use to protect their interests from 'vlast'. However, once emerged as a means for protection of contracts independent from the law, such networks may equally serve to circumvent any kind of legislation and to conduct any kind of unlawful deals. Therefore, they eventually undermine and crowd out the rule of law necessary for a market economy (Litwack, 1991).

Taken together, these interrelated phenomena cast serious doubts if the new rules imported in the process of institutional harmonization with the EU can be implemented properly, work effectively, and not further help in maintaining a limited access order. In particular, while planning the harmonization initiatives, one should be aware that:

- there is no "weberian" bureaucracy able to implement the new restrictions, while both the
 people and state officials possessed (and inherited) a vast experience in circumventing or
 ignoring excessively restrictive regulations;
- these states are serving primary to elites, not the population; correspondingly, they resist to implementation of the modern institutions;
- despite formal "openness", the entry and competition can be restricted in some informal ways, so the liberalization is getting partly of fully offset. Moreover, privileges can erode the effectiveness of formal restrictions;
- the people may be unready to use the opportunities provided by the "open access" institutions democracy and market.

As a result, the attempts to impose new institutions may even have a perverse effect and help further solidify institutions of the limited access order, further weaken the rule of law and social capital, further corrupt the bureaucracy, and strengthen the informal social arrangements for unlawful transactions.

2.3 Risks to harmonization as demonstrated by previous experiences

Past experiences of introduction of western institutions in the now CIS countries could be instructive of what to expect from the institutional harmonization with the EU. One of the major lessons from the past is that attempts of implementation of exogenously designed formal institutions may be counter-productive if they create or amplify the gap between formal and informal institutions. This happens, for instance, when the practices that were tolerated or even prized suddenly become persecuted; or some new rules and practices that have not grown up within the society suddenly get imposed; or previously punishable practices become legalized while still perceived by many people as illegitimate. Such kind of attempts took place many times, of which we take as examples the Petrovian reforms in the early 18th century Russia; the Bolsheviks policies in 1920th USSR; and the tax reform in Ukraine of 1997. In all of these cases the following problems were observed that have largely distorted, if not perverted, the outcomes of reforms.

1. Increase in inequality and privileges

As long as the gap between formal and informal institutions increases, the large, powerful, and potentially dangerous groups become pressing for releasing them from harshness of reforms, and

very often succeed. Such a fragmentation often provides them with rents. This corresponds to the logic of a limited access order that has to buy political support for rents. But it means that from a viewpoint of transformation to an open access order such kinds of institutional changes can be rather counterproductive.

For example, in 1996 the package of "European-like" tax legislation was prepared in Ukraine under the supervision and with a vast technical assistance of international organizations. The law drafts have seemingly met the modern Western standards and were designed in a way that should facilitate further harmonization with the EU standards. During the year of 1997 the package was broken down, but the most of the laws were eventually adopted, although with numerous substantial amendments. Already at the stage of draft bills they were pierced with hundreds of corrections mostly providing with various kinds of privileges, which made them worse than the prereform legislation. Later on, permanent manipulation with privileges and attempts to open (and later on, fix) the tax loopholes (all together constituting hundreds of amendments per year!) have made this legislation terribly unstable. Even in 2004, seven years after, there were more than 30 corrections of tax legislation within a single year (IFC, 2005). Such instability became an additional and in many cases the most cumbersome business impediment in Ukraine for many years. Later on, huge privileges were also granted to some industries and territories (in the latter case – with a reference, among all, to alleged European experience). As of 2006, the system of taxation remained highly unstable and mostly a confiscatory one, since tax authorities have to fulfill the plan tasks on tax collection, and the most important taxes are subject to negotiations (as admitted in public by the top officials). Their unequal enforcement is one of the most powerful tools for the limitation of access. Meanwhile, tax administration remains the top impediment to business development, while tax rates (still quite high) are usually rated as the major impediment to business after business regulation (IFC, 2005; GCR 2000-2006).

2. Overall deterioration in enforcement and implementation of the law, increase in corruption

The gap between formal and informal arrangements becomes filled with discretion and, respectively, corruption. They corrode overall respect to the law, and tend to get widespread across the society thereby hindering the effectiveness of the law in the other spheres too. Social order before the reforms could be well adapted to the poor law enforcement and lack of formal regulation. Reforms may destroy the respective adaptive mechanisms, while being unable to replace them with any viable alternative instead.

For example, right after his coming to power in 1696, the young and ambitious tsar Peter I (latter called The Great) being inspired with an example of The Netherlands has initiated an attempt of modernizing the patrimonial state of Muscovite Rus'. Although these reforms were mostly successful, they were not, in fact, concise enough to build an open-access order (and actually were not aimed at this). They were primarily aimed at establishing of a genuine bureaucratic rule, which they failed to do, as well as in setting up of the rule of law for elites. Despite formal reform, the patrimonial practices persisted in the forms of rampant corruption and nepotism. (Volkov, 2000) argues that they have in a way increased (or even begot) the corruption in Russia. On the one hand, previously well-established practices of gifting the bosses have suddenly became qualified as corrupted ones, and respectively condemned. Quite loose and innumerous laws that have emerged within the pre-reform society used to be respected, but the new ones were not.

For the same reason, tax reform in Ukraine failed to improve tax collection. From the very beginning it failed to abolish the soft budget constrains for enterprises. They were successfully eliminated in 2001, but the rest of deficiencies have mostly remained. Tax arrears that used to be already problematic before skyrocketed right after the new laws gain the power from January, 1998 (Figure 2.1)

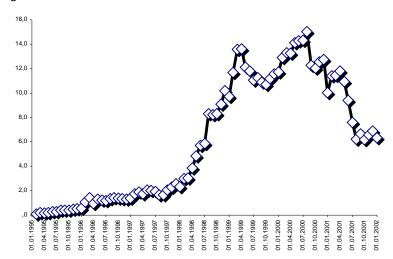


Figure 2.1 Tax arrears in Ukraine in 1995-2001

Source: World Bank

According to the enterprise survey data, in about a half of cases the tax authorities tried to misinterpret the law, sharing the first place in rating with custom authorities (IFC, 2005). Also, according to the recent business surveys the tax administration is rated first in corruption (BIZPRO, 2005). Due to the other sources it shares the first places with customs authorities and traffic police.

3. Further solidification of inefficient informal institutions

The gap between formal and informal arrangements, if persists, can become a ground for vested interests associated with informal but powerful structures benefiting from the very existence of this gap. For example, this can refer to corrupted officials, powerful bosses abusing their discretionary power for political purposes, privileged (e.g. "crony") businesses, and so forth. Such kind of interests can successfully prevent the gap from closing down, or even try to widen it further. If the gap becomes too wide, it may lead to an "institutional trap" (Polterovich, 2001): too harsh and restrictive reforms can create a self-propelling institutional gap. The opposite case (actually analyzed by Polterovich) can also take place, although seems to be much less likely: too rapid liberalization can potentially create so large windfall rents from arbitrage that allow respective players to monopolize the markets and "capture" the state in order to protect this monopoly.

For example, in more than two centuries after the Petrovian reforms the Bolsheviks have further worsened the situation by implementing their artificially designed institutional arrangements. They have attempted to impose artificially designed formal institutions, including strict bans for private property, entrepreneurship, and market exchange. This attempt was doomed from the very beginning due to the coordination failure inherent to the pure central planning, and even more due to the failure in setting of production incentives under an ideologically pure communism. While facing a real economic collapse the Bolsheviks had to sacrifice ideological dogmas and allow small business and private land ownership. Even when later on these policies were mostly reverted, the

market practices persisted and even became essential due to their decisive role in compensating the numerous failures of central planning (Smith and Swain, 1999). They took, however, a specific form of barter exchange with "favors of access" to different kinds of discretionary opportunities provided by the positions of the member of the social network within the Soviet system (Ledeneva, 1998). Goods and services in short supply; career promotions; entering the universities; release from various official and semi-official duties, up to military service, and many other kinds of favors were widely traded within so called blat reputation-based networks of interpersonal exchange. By open-access order standards this would be called corruption.

These networks of favors have survived the crash of the soviet system and nowadays substantially hamper establishment of the new, "open-access" institutions (as predicted by Litwack, 1991, and described by Ledeneva, 2000). In particular, those who used to have preferential access to influential or well-informed officials in the Ukrainian tax authorities have largely benefited from instability and unpredictability of tax legislation, because they suffered much less than their competitors not involved in respective networks.

Yet another closely related example is anti-corruption policies aimed at increasing of the risk to be punished in case of corruption. Giving that under the "soft" rule of law the legislation is very often impracticable, and therefore corruption is a normal practice, catching and jailing of selected scapegoats does not, in fact, significantly reduce the overall level of corruption. However, as long as enforcement remains selective, the anti-corruption persecution is used mostly as a tool in the apparatus wars against some rivals, not necessarily the most corrupted persons. Their punishment is respectively (and mostly fairly) perceived as a result of their bad luck or inability to concord with those in power, rather than as fair consequence of their corrupt behavior. On the other hand, increasing risk of corrupted deals further solidifies the networks of favors, both at the nexus between business and bureaucracy (reputation is needed to give a bribe, otherwise the bribe-taker risks too much), and within the bureaucracy (in order to protect herself from being selected as a scapegoat, a corrupted bureaucrat has to establish and maintain good connections with upper authorities and law enforcement officers). Both effects, in turn, lead to further limitation of access through increase in barriers of entry due to higher bribe tax and direct obstacles for those who are to less extent involved into networks of favors.

These risks, as exemplified by past experiences, should be taken into consideration in the course of elaboration of EU policies towards its eastern neighbors. Now we turn to analysis of what problems the harmonization efforts with the EU can meet (or already do) in CIS countries.

2.4 Challenges to institutional harmonization with the EU

Customs

Harmonisation and simplification of customs legislation and procedures is one of the key items on the agenda of EU relations with its neighbors. The ENP Progress Report on Ukraine (2006), for example, reports many measures that were taken to this end, including implementation of the concept of a "single window" at the borders, harmonization of customs valuation rules with WTO standards, introduction of electronic customs declarations etc. Nonetheless, according to the World Bank Enterprise Survey data, the customs procedures still pose a major impediment to trade. So, average time to clear direct exports through customs has increased for more than 21% from 2002 to 2005; and average time to claim imports from customs has increased by as much as 46%. As a result the percentage of firms that trade directly has shrunk by almost 30%. From anecdotal evidence we can suggest that these complications were attributed to the gueues at the "single

windows", red tape, and more rigorous implementation of complicated and cumbersome (but arguably justified) procedures stipulated by the current legislation.

Trade in goods

In the area of trade in goods, harmonization with the EU implies adoption of European and international legislative and administrative practices for standards, technical regulations and conformity assessment in EU harmonized areas, and gradual removal of non-tariff barriers. But at least in some cases these measures are getting offset, sometimes in a creative way. For example, after long and hard negotiations the Ukrainian parliament had to lift the ban for importing of the cars older than eight years, as required for the WTO accession. However, simultaneously it introduced a special fee prohibitive for the first registration of such cars. The level of the fee was set a prohibitive level, i.e. making importation of old cars not worthy. Sometimes such new restrictions may become even more cumbersome and irremovable than the initial ones.

The area of product certification should be treated with caution. The European approach is that mandatory certification is demanded only for safety reasons, while the rest of goods and services are certified on the voluntary basis or not certified at all. On the contrary, the Soviet approach (often still inherited by the CIS countries) required all of the goods to be certified – merely because there was no other way to control their quality, since the market competition was absent. While it is necessary to get rid of the remnants of mandatory certification of quality, this could aggravate the problem of information asymmetry. For this reason, mandatory certification should be necessarily replaced with mandatory requirements on the information disclosure. Besides, it would be recommended that the governments in some way facilitate both the producers' access to voluntary certification, and the consumers associations' work on independent evaluation of goods and services. For instance, assistance may need to be provided to the respective civil organizations in order to help them in building a capacity for independent quality control.

Regulatory policy

In order to improve the transparency of regulation, the Law on State regulatory system of Ukraine was adopted in 2003. Yet, the "soft" enforcement of law makes it irrelevant. The law is, in fact, ignored, as the most of by-law drafts are still not getting published in advance before their adoption, as required by this Law. The modern Law of Ukraine on the licensing system of 2005 that abolished all kinds of additional licensing requirements set up by the local authorities is also mostly ignored. In a way, both cases can be treated as a sort of selective enforcement in respect to the lower level officials responsible for their implementation. Both cases have contributed to preservation of an important although informal way of discrimination of foreign investors. Domestic firms are used to overcoming the problems like opaqueness, ambiguity and unpredictability of legislation, as well as its excessive complication, red tape, and so forth, by the means of petty corruption. Respectively, the barriers of this kind are known to be in effect discriminating against foreign investors, which are less prone to corruption and less involved into the informal networks that facilitate corrupted transactions and thereby reduce the bribe tax for their members.

Company law and establishment

In the realm of company law and establishment the harmonization with the EU norms envisages convergence and effective implementation of key principles on company law, accounting and auditing with international and EU rules and standards. In the meantime, the acting Ukrainien company law already requires mandatory disclosure of the company's information. But many firms currently refuse to submit their annual reports for disclosure, as stipulated by the acting law. For

instance¹⁵, only 22% of all joint stock companies (and 64% of the open joint stock ones)¹⁶ have submitted their statements to the respective supervisory government body in 2004 (the later data not available). This may be attributed to their desire to cover the true indicators that are manipulated or concealed from confiscatory taxation. On the other hand, international accounting standards are neither fully implemented, nor enforced, and significantly differ from the ones of tax accounting. According to some claims, state officials are interested in maintaining the opaqueness of accounting, because it allows for manipulations with statistical data, including even the pressure on firms in order to force them to submit manipulated reports.

2.5 Recommendations

Based on the theoretical provisions and the overview of the experiences of the CIS countries from varios harmonization initiatives, we can suggest the following recommendations for harmonization of institutions of CIS countries with those of the EU:

- 1. Encouraging economic and political competition is the key to stimulating the transition to an open access order. On the political side, this may involve facilitation of development of the civil society and encouragement of free and fair elections (something the EU is already doing). On the economic side, the measures may involve exposure to international competition and encouragement of internal competition. In this context, EU's encouraging WTO accession (for example, in relation to Russia and Ukraine) as a precondition for further development of economic relations is a good policy, as it stimulates opening of the economy and, thus, promotes competition.
- 2. Abrupt changes in institutions should be avoided, as this will most likely lead to an emergence of a gap between formal and informal institutions, which may exacerbate many existing problems, including corruption and soft rule of law. Rather, harmonization needs to be gradual, starting with things that are acceptable by the existing order. If harmonization is not sufficiently supported by respective political players, it can be offset with some countermeasures or become implemented discretionarily. Thus, if introduction of a particular institution is likely to create too many victims, then it is sometimes better to refuse from its implementation or postpone it for a while. However, in order to avoid the partial reform trap (Hellman, 1998) while adopting the gradual approach, one needs to make sure that state institutions are able to credibly commit to obeying a schedule of gradual liberalization despite possible political pressure.
- 3. Start with harmonization of organizations, and proceed to laws and regulations later. The way in which a bureaucracy and law enforcement operates should be given a priority against the particular regulations that they are supposed to implement and enforce. In particular, the government bodies in charge of business regulation should adapt to the implementation of rules concerning the disclosure of information; those managing the agricultural sector to the European sanitary and phyto-sanitary measures; the same goes for regulators on the capital markets, certification agencies, and so forth.

¹⁵ According to the data of the State Commission on Securities and Stock Market, http://www.ssmsc.gov.ua/8/9/

¹⁶ These numbers may be overestimated. They are calculated on the basis of total number of reports received by the State Commission on Securities and Stock Market, which also includes issuers of securities other than shares. Not all of them are joint stock companies.

- 4. To the extent possible eliminate all kinds of opaqueness, discretion opportunities, complications, and other potential corruption vulnerabilities from the proposed legislation even at the expense of its flexibility and other theoretically desirable features.
- 5. Make sure that remaining discretion opportunities are well checked with transparency and responsibility. Be aware that the latter would be subject to strong pressure, and often will not be obeyed at all. So, the respective counter-pressure and civil society control should be developed simultaneously.
- 6. Make a realistic assessment (through a field investigation, for instance) whether a regulation can be effectively and evenly enforced, in order to make sure that it will not become subject to discretionary enforcement. It seems a priori likely that some restrictions, like the information disclosure requirements for the firms, veterinary, phyto-sanitary and many other kinds of norms in agriculture, environmental regulations, protection of the personal data and intellectual property rights, and some other kinds of norms imposed in the process of institutional harmonization may become subject to selective implementation.

Conclusion

Importation of European formal institutions into EU CIS neighbors can face a range of challenges due to peculiarities of the existing institutional setup in these countries. This set up can be characterized as a "limited access order", in which economic and political competition is limited, giving room for rent-seeking and corruption. Examples of previous attempts to introduce modern western institutions show limitations that harmonization attempts may have. The key recommendations for increasing chances of success of harmonization with the EU include: facilitating enhanced competition, both economic and political, enhancing capacity of civil society institutions; gradualism; reforming institutes first; reduction in possibilities for discretion; ensuring transparency of the rules; making sure the new regulations can be implemented evenly. More generally, the focus should be not on the transfer of formal institutions, but on the transfer of basic principles (competition and rule of law) adapted to local conditions; the transfer of the formal norms should be subdued to this task, or at least should not contradict to it.

Chapter 3. Measuring non-tariff barriers and their impact on the economy

3.1 Introduction

As was discussed in Chapter 1, better market access is going to be one of the major benefits of institutional harmonization between the EU and its neighbors and is likely to bring welfare gains. Removal of non-tariff barriers¹⁷ (NTBs) to trade is the key to getting better market access.

This Chapter is devoted to discussion of methodologies to measure NTBs and their results. It contains a review of the studies on NTBs measurement and their economic impact for the ENP countries, including the sources of data they use. Also, as a benchmark of possible effects of better market access between the EU and its neighbors we use the experience of integration of Central and Eastern European Countries (CEECs) into the EU internal market in the process of enlargement. ENP countries start from a similar position that CEE countries had when they started integration with the EU. Also, ENP countries will have to follow the route similar to that CEECs went on their way to EU market, although on a lesser scale due to the limited nature of their integration with the EU.

Analysis in this Chapter will serve as a basis for elaboration of a CGE model for measurement benefits from institutional harmonization between the EU and CIS, in particular, for incorporation of effects from removal of NTBs into the model.

3.2 NTBs in intra- and extra-EU trade: magnitudes and methods of measurement

Further integration of the ENP countries with the EU can affect the economies of both the ENP countries and EU in several ways: via trade, FDI, domestic investment, etc. These effects work through at least three major channels: first is elimination (or at least reduction) of administrative barriers, such as reduced costs of passing customs at the frontier; second is mitigation of risks and uncertainties, which form substantial impediments to trade, for example, instability of business environment; third is the reduction in technical barriers to trade (TBTs). The single market reduces TBTs by means of mutual recognition of different technical regulations, minimum safety requirements and harmonization of rules and regulations.

3.2.1 Methods for quantifying NTBs

Earlier studies (e.g. Baldwin et al. (1997), Keuschnigg and Kohler (2002)) admit that quantifying the accession to the internal market is not an easy task. The complexity of single market access makes it impossible to model it explicitly in a general equilibrium model. The standard solution used by these authors is to model single market access crudely as a reduction in the real cost of trade. So, the authors did not attempt to actually measure NTBs and thus quantify their impact, but simply made assumptions on trade cost reductions. Thus, Baldwin et al. (1997) assume this to be equivalent to a 10% reduction in real cost of all CEEC-EU trade, whereas Keuschnigg and Kohler (2002) argue that a trade cost reduction of 5% is appropriate. As Nahuis (2004) notices, these approaches have some obvious limitations. First, the number is arbitrary. Second, the number is identical for all countries. Third, the number is identical for all industries. Again, Nahuis (2004) in his work shows that the impact of the internal market accession is markedly different

¹⁷ Non-tariff barriers to trade are restrictions to imports but are not in the usual form of a tariff.

across industries and countries. Taking into account the above mentioned limitations, alternative methods of measuring NTBs have been recently developed.

This recent, yet small but growing literature, is estimating NTB equivalents based on either of the following three methods of measurement. First, frequency-type measures can be constructed using databases on trade control measures such as UNCTAD database (it is commodity/sector and country specific) or using special surveys on how trading firms perceive or experience NTBs. Based on such data, frequency or import coverage ratios are developed.¹⁸ These ratios are subsequently used to calculate tariff equivalents. Second, price-comparison measures, where estimates of NTBs are derived based on differences between domestic and foreign prices. 19 Since the price impact is a general property of NTBs, such a price comparison can pick up the net effects of all NTBs that are present in a market. Percentage differences between the prices are calculated, comparable to tariffs, which are commonly referred to as tariff equivalents. However, the drawbacks of such method are the impossibility to identify what those NTBs are since it is not clear due to what NTBs price differences occur. Quantity measure would be preferable to price measure. Thus, we move to the third method - quantity-impact measures. The objective here is to estimate what trade would have been in the absence of NTBs and to compare it to the actual trade. This method involves estimation of econometric models of trade determination based on : theoretical models of Heckscher-Ohlin (trade based on comparative advantage), Helpman-Krugman (trade based on product differentiation) or estimation of gravity models of international trade. All of these approaches measure NTBs either using residuals from the estimated regressions as representing NTBs or using various dummy variables. Besides, the three general methods of measurement mentioned above there are also special purpose methods²⁰, extensively described in the study of Deardorff and Stern (1998).

Deardorff and Stern (1998), provide a thorough survey of currently available methods for quantifying NTBs. Another, more recent paper, by Anderson and Wincoop (2004) surveys the measurements of trade costs, including non-tariff barriers. They provide information, inter alia, on public sources of barriers to trade. Namely, the authors build on UNCTAD's Trade Analysis and Information System (TRAINS), which contains information on trade control measures (including non-tariff measures) for a maximum of 137 countries beginning in the late 1980s. The TRAINS database records the presence or absence of a non-tariff barrier on each 6 digit line. Many differing types of NTBs are recorded in TRAINS (a total of 18 types).

3.2.2 Studies on CEECs using frequency-type method

-

¹⁸ The frequencies are calculated for commodity categories that were subject to some identifiable NTB in a specific year. The number of product categories subject to NTBs is then expressed as a percentage of the total number of product categories in each commodity group. This is referred to as the frequency ratio. The import coverage ratios are calculated by determining the value of imports of each product subject to NTBs, aggregating by applicable commodity group, and expressing the value of imports covered as a percentage of total imports in the corresponding commodity group.

¹⁹ Provided the data on prices is available.

²⁰ Special purpose methods include: (1) elasticity estimation; (2) determinants of variations in elasticity estimates; (3) variations in effects of NTBs over time; (4) binding of NTBs; (5) risk characteristics of NTBs.

More studies look at the issue of border effects²¹ in the enlarged EU economic space in the context of technical barriers to trade (e.g. Brenton and Vancauteren (2001), Chen (2004)). However, evidence on CEECs countries is still guite scarce. Thus, Manchin and Pinna (2003) try to see whether some differences could be observed in the importance of border effects in trade in products with different magnitude of technical barriers. They examine bilateral trade flows in the CEECs using data for the period 1992-1998 between a sample of accession countries (Cyrpus, Bulgaria, Hungary, Latvia and Poland) and the EU. Manchin and Pinna (2003) use the same Commission's review of the impact of the Single Market in the EU as Vancauteren and Weiserbs (2003). They group products by the approach adopted by the EU to remove technical barriers: old approach, other approach (including mutual recognition, new approach), and mixed approach (includes products where old approach and other approach are applicable). They find that the border effects are the largest for old approach products, where they expect to have the most important technical barrier to trade due to complicated harmonization procedures. Their countries of interest would trade with themselves 114 times more in old approach products, while only 25 times more in other approach products. However, the authors notice that the estimated border effects seem to be too large to be consistent only with the presence of trade barriers. Another recent study, Chevassus-Lozza et al. (2005) aims to assess the role of NTBs for new member states exports but only in agri-food sector. The authors divide NTBs into three categories (sanitary and phytosanitary measures, quality measures, and import certificates) and include them into their gravity model. They analyze eight new member states: Poland, Estonia, Latvia, Lithuania, Czech republic, Slovakia, Hungary, and Slovenia in a cross-section design (1999 and 2003) to compare the dynamics of the role of various trade barriers and thus answer the question about the changing role of NTBs over time. The data on NTBs is taken from the French Customs source²² that hosts the electronic version of EU border regulations. This website contains notes on the official sources where the regulations are available in detail. The authors include three dummy variables representing NTBs: sanitary and phytosanitary measures (SPS), quality and import certificates. They find that in 1999 their three NTBs indeed represented serious obstacles to trade. In 2003 their role has diminished, most notably for SPS and quality. The change of size of their coefficients between 1999 and 2003 (the coefficient for SPS has changed from -0.63 to -0.25; quality: from -0.31 to -0.07) can be interpreted as an indication of the progress made by these countries in implementing the acquis communautaire in the pre-accession period.

3.2.3 Studies on CIS using frequency-type data

In case of CIS countries, the availability of NTBs datasets and empirical evidence on their impact on trade flows between CIS countries and the EU is very limited. In most cases the existing international datasets contain rather outdated, or incomplete (in terms of country coverage) or highly aggregated data on NTBs for CIS countries. For example, CIS countries are in the list of country coverage of the mentioned earlier UNCTAD's Trade Analysis and Information System (TRAINS) but the NTB data are dated 1997 (latest year for which NTB data is available) for most of these counties. Such a situation with NTB data availability and quality has a negative impact on the precision of the research results.

²¹ Exchanges between economic actors are normally found to cost more it they cross any kind of administrative borders. The difference in the costs involved in moving products within a country or between countries is underlying the nature of border effect.

²² www.douane.gouv.fr

Notwithstanding the above, the data from UNCTAD's TRAINS have been frequently used by researchers and policy makers in their studies on NTBs' role in world trade, including CIS countries. The most recent among them is the study by the World Bank Development Economics Research Group (Kee, Nicita and Olerreaga, 2006) that provides estimates for three measures of trade protection in the form of tariff equivalents – trade restrictiveness indices. These measures include i) trade restrictiveness index (TRI) is an indicator of country's trade protection that measures trade distortions (or domestic inefficiencies) of country's trade policies imposed on itself ii) overall trade restrictiveness index (OTRI) reflects trade restrictiveness of country's trade policy imposed on its importers (import losses), and iii) market access overall trade restrictiveness index (MA-OTRI) captures trade barriers of other countries imposed on exports of each separate country. Ad-valorem equivalents were estimated for certain NTBs²³ and agricultural domestic support for each 6-digit HS category and for 104 countries. Data on core NTBs was obtained from UNCTAD's TRAINS database, whereas on agricultural support – from WTO members' notifications (previously constructed by Hoekman, Ng and Olearreaga, 2004). Final estimates of this several-stage study, in particular a) import demand elasticities; b) ad-valorem equivalents of core NTBs and agricultural domestic support (in percentage form), and c) trade restrictiveness indices²⁴ (computed for broad aggregates: overall trade, agriculture and manufacturing) can be freely accessed through the World Bank trade website. Obtained results allowed authors to make the following conclusions on trade barriers across countries: i) NTBs have a significant contribution to world protection - on average additional 70% to the level of trade restrictiveness imposed by tariffs (the importance of NTBs is observed stronger in developed countries) ii) poor countries tend to have more restrictive trade regimes and, at the same time, higher trade barriers on their exports, iii) trade restrictiveness is generally higher in agriculture (in import markets), and agricultural exporters usually face higher trade barriers on export markets. These general findings fulfill for the CIS countries covered by the study (Belarus, Kazakhstan, Moldova, Russian Federation, Ukraine) as well. For instance, market access overall trade restrictiveness index (MA-OTRI) for Ukrainian exporters in the world markets equals on average 15.2%, while this index goes up to 49.2% for Ukrainian agricultural producers and goes down to 11.4% for its manufacturing producers. For the aim of comparison, the respective estimates for Russian exporters are as follows: 12.2%, 46.7% and 9.7%, while exporters from the EU encounter on average trade restrictiveness measures of the similar magnitude 15.1%, 34.3% and 12.2% (see Table 3.1). In regard to trade barriers imposed by CIS countries on their imports, the authors estimated that Moldova maintains one of the most liberal trade regime, other countries reveal almost the same level of tariff restrictiveness. Still, Ukraine's protection of its agricultural markets is the highest among the considered countries.

Table 3.1. Trade Restrictiveness Indices of CIS countries (Kee, Nicita and Olerreaga, 2006)

	Ukraine	Russian	Moldova	Belarus	Kazakhstan
		Federation			
	Market Access Overall Trade Restrictiveness Index (MA-OTRI), %				
Overall	15.2	12.2	25.9	15.4	15.3
Agriculture	49.2	46.7	43.3	33.8	62.4
Manufacturing	11.4	9.7	18	14.7	11.2
	Overall Trade Restrictiveness Index (OTRI), %				

²³ The following NTB measures were included: price and quantity control measures, technical regulations, and monopolistic measures.

²⁴ As well as additional indicators: dead weight losses due to the existing trade restrictiveness (TRI), import losses due to overall trade restrictiveness (OTRI).

Overall	21.6	22.6	7.4	15.9	14.0
Agriculture	46.4	33.4	16.8	31.2	32.9
Manufacturing	18.4	20.4	5.7	13.7	11.7

Notes: MA-OTRI is estimated using tariff data of 2005-2006 (taking into account tariff preferences) and ad-valorem equivalents of NTBs (1997- for CIS countries). It measures the restrictiveness of other countries' trade policies on the export bundle of each country.

OTRI is estimated using tariff data (2005-2006) and ad-valorem equivalents of NTBs (1997- for CIS countries). It measures the restrictiveness of a country's own trade policies.

To the best of our knowledge, the most complete NTB database in terms of different types of NTBs and time coverage, developed for Ukraine, is the one constructed by Veronika Movchan, following the UNCTAD's TRAINS methodology. In particular, this dataset reports the presence or absence of a non-tariff barrier on each HS 6-digit tariff line over the period starting from 1993 up to now. A broad pool of NTBs applied to imports in Ukraine has been taken into account for construction of this database, including core NTBs but not only them (see the full list of NTBs in Appendix B). Such a complete NTBs database makes it possible to compute various types of intensity indices of NTBs - in the form of simple frequency or import-weighted (import coverage) ratios. Besides, an augmented weighted index of NTBs has been computed (Movchan, 2003). As the author states, this index allows differentiating intensity of various types of the NTBs and including several NTBs in one measure (see Appendix B)²⁵. Having considered NTBs applied in Ukraine between 1994 and 2001 the author concluded: i) in the studied period aggregate intensity of non-tariff protection increased by almost 97% with a peak in 1999-2000 and gradual reduction afterwards, ii) evolution of different types of non-tariff protection revealed that core NTBs, with most harmful influence on trade, had been gradually reducing starting 1998 for most commodities in Ukraine, on the contrary the role of technical barriers²⁶ had been steadily increasing; iii) food products were the leader with regard to severity of applied NTBs (Movchan, 2003). Later, these findings were further developed. For example, the augmented weighted index of core NTBs (quotas, licenses, excise charges, antidumping measures, and minimum custom value) applied to imports in Ukraine during the 1999-2004, was computed and used in Pindyuk, 2006. NTB index calculations used in this study suggest that agriculture, food and agricultural processing, fishing, extraction of coal have been the most protected sectors in Ukraine in terms of considered NTBs over the reported period. The NTB indices for these sectors even increased by the end of the respective period while protection of most of the other sectors has been gradually declining.

In World Bank Ukraine Trade Policy Study (2004) frequency indices were calculated for wider 1993-2004 period better revealing dynamics of development of a system of non-tariff barriers in Ukraine. According to it, during the considered period the simple frequency index calculated for 17 non-tariff measures including core and technical regulations measures²⁷ increased by more than twice from 7.2 to 17.5 percent whereas import coverage index rose ten times from 1993 to 2004. There was a considerable escalation of the number of applied safety control measures and compulsory standards certification during this period, which have become the major component of

²⁵ According to Movchan (2003), augmented weighted index of NTBs is a "compound additive index that incorporates a spectrum of non-tariff barriers applied in the country weighted on the value of imports. It applies the changeable indicator of the non-tariff protection for each type of the NTB what allows preserving positive characteristics of frequency measures like transparency and universality, at the same time adding flexibility and better representation of reality".

²⁶ They include safety standards and ecological control, compulsory standards certification, permits for medicine imports.

²⁷ See Appendix for their list.

the NTB index of Ukraine. In 2001-2002 the NTB frequency index reduced a little due to elimination of minimum custom value regulations and easing state procurement regulations, but in 2002-2004 it grew up again stipulated by extension of the list of compulsory certification and introduction of new risk-control measures by the Custom Service of Ukraine²⁸. The author concludes that Ukraine seems to be rather liberal in terms of applied official core NTBs frequencies, if compare with OECD countries, and then mentions that informal NTBs can also play a substantial role in such transit countries as Ukraine. Therefore, business surveys investigating effective trade barriers and business climate in the country are of great importance for getting full picture of reality in regard to NTBs economic impact.

3.2.4 Special surveys

Another kind of frequency-type measures is based on special surveys.

One of the recent surveys was conducted for five Western Balkan countries (Frohlich, 2005), for which the prospect of the EU membership was confirmed during the Thessaloniki summit in June 2003 (Albania; Bosnia and Herzegovina; Croatia; the Former Yugoslav Republic of Macedonia; Serbia and Macedonia). Overall, 2,166 companies from all the five countries took part in the survey. As to the NTBs, companies were asked to rank various barriers in accordance with their importance. The highest score received technical standards and certification, followed by quality control and consumer protection. Customs procedures are on the third place, followed by access to final end users. Bureaucratic company registration seems to be relatively less important, taking the last – fifth place. However, it should be noted that the difference in average grades given to various NTBs is not very high: on the four-point scale the highest rank (technical standards, certification) on average stands at 3.8, while the lowest (bureaucratic company registration) – at 2.9.

Another survey, which served as a basis for the mentioned above Western Balkan survey, was conducted for 10 Candidate Countries of Central Europe (Bulgaria, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia) plus Croatia (Frohlich, 2003). The sample for 11 countries was set at 4400 enterprises. The final result achieved 2,725 companies (62% of the target). In this survey, the questions that might be of potential interest to us are formulated as Assessment of company compliance with the acquis – in general and by areas; Problem areas in acquis implementation; and Cost of compliance with acquis for the Single Market. Four-point scale is used, with 4 corresponding to full compliance, and 1 – very low compliance. According to the survey results, companies assess their general level of compliance corresponding to 2.2 on average. Compliance with the following areas: consumer protection and producer liability; product certification, technical regulations, standards; and work safety are ranked the highest (2.7). Food quality and safety on average is rated at the level 2.6. The lowest are ranked environmental protection; labels, trademarks, patents; and rules of competition (2.5). The same questions of compliance are addressed from a different angle: assessing the expected difficulties accompanying implementation of acquis. Here the area of product certification, technical regulations, standards is ranked the highest – 2.8; food quality and safety – the lowest (1.9).

_

 $^{^{\}rm 28}$ World Bank Ukraine Trade Policy Study (2004), pp. 48-49.

3.2.5 Special surveys for CIS

Business surveys investigating significance of trade barriers for export activities of domestic enterprises in the CIS countries are rather rare to observe. One of those was conducted for Ukraine by the BIZPRO in 2005 (BIZPRO 2005a) and was intended to study the status of Ukrainian enterprises' export activities as well as various administrative barriers and business environment problems in Ukraine. BIZPRO interview-based study was conducted in May 2005 surveying 610 private and collective (with a state property of less than 50 percent share) Ukrainian enterprises that undertook export activities during the 2003-2005 period. According to the results of this survey, the most important problems of domestic business environment impeding export activities of Ukrainian companies were: irregular and partial VAT refund and taxes (29.9% of companies consider this to be a problem), customs procedures (21.9%), inefficient and changing legislation (16.6%), and a big number of procedures and permits, red type, burdensome and time-consuming export procedures (12.6%), etc. The results of BIZPRO study reveal as well that it took on average 4.7 days to complete all the required domestic procedures for a shipment of exported products in 2004 (according to sector breakdown, this number is the highest for exports of services (7.0 days) and the lowest for agriculture and food industry (3.1 days)). Ukrainian companies officially spent on average about 5% of the total costs of each shipment to complete all of the required export procedures in 2004. Moreover, trading companies incurred the highest expenditures for passing all export procedures (8.2% of the value of a shipment), followed by agricultural and food industry producers (4.5%), services (3.6%), and industry and construction (3.2%) (see Appendix A). Besides, surveyed enterprises were asked to estimate the share of operating costs related to passing export procedures²⁹ in company's final selling price. Services exporters reported on average the highest operating costs related to completion of export procedures (9.5%), while the respective costs for other aggregated sectors (industry and construction, agriculture and food industry, trade) ranged from 5.9% for trade companies and 5.5% for agricultural and food producers (see Appendix A for more details).

Another BIZPRO survey (BIZPRO, 2005b) on small and medium-sized enterprises (SMEs) reported that as of June 2005 SMEs owners ranked export-related procedures as the forth among seven largest regulatory barriers to SME development (that included as well import procedures, receiving of permits, licensing, etc.).

In light of current intensification of economic relations between the EU and Ukraine and perspective for even closer economic cooperation (via establishment of FTA) in the future there is a need to identify and study existing trade tariff and non-tariff trade barriers that distort Ukrainian exports to the EU from reaching its potential. Recent study 'Non-tariff barriers in Ukrainian export to the EU' conducted by CASE Ukraine in cooperation with CASE aimed to explore whether the NTBs impede Ukrainian export to the EU and to what extent. To implement this, the survey on non-tariff barriers that are faced by Ukrainian exporters to the EU was conducted in November and December 2006. The surveyed sample was composed of 510 exporters to the EU, most of which were rather small companies (less than 50 workers) owned by Ukrainian private capital. Most of the surveyed companies are well involved in trade relations, exporting about half of their production, mostly to the EU. The survey focused on questions relevant mostly to manufacturing producers and covered such areas as certification of origin, customs procedures and technical standards. The survey results reveal that getting the certificates of origin was not considered by

_

²⁹ They include costs of obtaining licenses and permits, completing customs procedures, etc.

surveyed firms neither very important nor costly handicap to trade with the EU (about 67% did not report any problems), still this could be a barrier to trade for smaller firms. EU custom procedures were assessed as relatively easy and not so costly by Ukrainian exporters (over 72% of firms did not see any problems with them). According to the survey, respondents on average spend 6% of export value on custom clearance and wait about one day on the border with EU. Most of the large analyzed companies claim that costs of compliance with the EU's technical regulations is about identical with domestic technical regulations, still small private firms, especially those exporting agricultural products, consider that the cost of meeting EU technical standards are higher if compared with domestic ones. However, there is no big difference in perception by large and small companies of product quality requirements as the most restrictive technical standard.

When asked about the cost incurred to meet EU's technical requirements to total production cost, respondents provided rough estimates rather than calculated numbers. According to them, average level of costs across the sample equaled 13.9%, while this number for large foreign-owned forms was greater than the average and constituted 16.1%. Breakdown by the sectors shows that companies selling products of metallurgy and chemistry industries spent the least on upgrading the commodities up to the EU requirement, while companies of textile and apparel industry spend the most (see Appendix A for more detailed information). As to the cost of passing the testing and certification procedures as a share of total production costs, on average it was estimated as 4.2% representing greater burden for small firms than for large.³⁰ Most companies report that there is high degree of duplication of their efforts due to necessity to test production for both Ukrainian and the EU requirements. The study concludes with recommendations on policies aiming at legal system harmonization in trade related areas with the EU laws.

Trade barriers (tariff and non-tariff) encountered by Moldovan exporters to the EU market were studied in Diomin et al. (2005). The study presents results of the survey conducted among 95 Moldovan commodity exporters. They were asked to prioritize main obstacles to trade with the EU. Most Moldovan exporters perceived high tariffs the main obstacle while exporting to the EU (about 20% of surveyed exporters indicated it as strongest obstacle). Competitive pressure from the EU producers (about 15%) and limited possibilities of getting visas (14%) were thought the next most important impediments to trade with the EU. On the contrary, Moldovan businesses in general considered conformity with the EU standards and obtaining rule of origin certificate not very important problem to their trade with the EU (5% and 6% respectively).

Rutherford et al. (2005) in their assessment of the impact of Russia's WTO accession on poverty estimate the ad valorem equivalence of barriers to foreign direct investment in service sectors. These sectors include: telecommunications; science and science servicing; financial services; railway transportation; truck transportation; pipelines transportation; maritime transportation; air transportation; and other transportation. The authors first commission surveys in telecommunications; banking and securities; and maritime and air transportation services by Russian research institutes; and then using these surveys and supplementary data together with the papers by Kimura, Ando and Fujii³¹ came up with the estimates of a reduction in barriers to FDI based on assessing the regulatory environment³². The estimated ad valorem tariff equivalents to FDI range from 33% (in telecommunications, science, railway, truck and pipelines transportation) to

³⁰ Information on sectoral distribution of costs incurred by surveyed companies associated with passing the testing and certification procedures as a share of total production costs is also available on request.

³¹ These papers by Kimura, Ando, and Fujii are available at www.worldbank.org/trade/russia-wto.

³² Estimated ad valorem equivalence of barriers are provided in the Appendix A.

90-95% (air transportation and maritime transportation). In their general WTO scenario, the authors assume that barriers against FDI are reduced to 0 for all sectors studied except for air transportation and maritime transportation, where the barriers are reduced to 75% and 80% correspondingly.

The same methodology of measuring barriers to trade/foreign direct investments in services, as in Rutherford et al. (2005), was employed in Pavel et al. (2004/revised 2006) for Ukraine. This work modeled different scenarios of Ukraine's WTO accession and estimated respective economic impact of their implementation. Reform of FDI barriers to service sector was considered one of the scenarios (along with reform of import tariffs and improved access to foreign markets) of Ukraine's accession to the WTO. To apply this scenario the authors estimated ad valorem tariff equivalents of barriers to trade/FDI in three Ukrainian services sectors: telecommunications (fixed, Internet, mobile), railway transport (freight and passenger) and finance (banking, insurance, securities) (see Appendix A). Their estimates revealed that financial services were the most protected among service sectors in terms of the existing barriers to foreign direct investments and trade (about 30% ad valorem tariff equivalent), followed by railways (16.7%) and telecommunications (4.9%). The study assumes that after Ukraine's WTO accession barriers to FDI in financial services would be reduced to about 8%, in telecommunications – to 2.1% (in railway transport – no changes). The simulations results led the authors to the conclusion that reform of service sectors and reduction of barriers to FDI is expected to bring major welfare and GDP gains in the framework of Ukraine's accession to the WTO.

3.2.6 Gravity model approach

Among recent studies the literature quantifying NTB effects in the context of EU enlargement with the help of gravity models is guite scarce. To the best of our knowledge, there are two published works examining regional trade and welfare implications of NTBs in the context of EU enlargement. These are Lejour et al (2001) and Nahuis (2004). Lejour et al. (2001) use WorldScan model, which is a CGE model for the world economy. The accession countries are divided into three regions: Poland, Hungary, and CEEC5 (Czech Republic, Slovakia, Slovenia, Bulgaria, Romania); Baltic countries are not included. In the analysis the authors distinguish sixteen sectors: agriculture, raw materials, ten manufacturing sectors and four service sectors. They derive NTB equivalents based on gravity model approach.³³ Namely, they use EU-membership dummy variable in their gravity equation to estimate the potential trade increase. The main finding of these study were as follows: i) bilateral trade is systematically higher if two countries are both members of the EU ii) internal market access and removal of NTBs may lead to considerable potential trade increases for most sectors (especially in regard to agriculture (by 249%), food processing (by 94%), textiles (by 134%); iii) estimated ad-valorem NTB equivalents range from 0% to 17.7% among sectors, in particular for agriculture – 17.7%, trade services – 17.2%, textile and leather – 14.5%, non-metallic minerals – 13.1%, food processing – 11.7%. Noteworthy, according to the study's estimations trade in services (financial services, transport and communication) was well liberalized (with 0% tariff equivalents); iv) aggregate trade increase for EU countries (2%) is much smaller than for CEECs countries (Hungary – 44%, Poland – 30%, CEEC5 – 32%).

The same approach is used by Nahuis (2004) – incorporating EU-membership dummy into his gravity equation. In particular, the author assumes that dummy indicating whether both countries

-

³³ Estimated NTBs for all three works (Lejour et al., Nahuis, Carrington and Philippidis) are provided in the Appendix A.

are EU members provides insight on the impact of the internal market access. The estimations exploit the fact that the current EU members operate in a single market since 1992. Therefore, the observed trade levels between two EU members relative to trade between two comparable non-EU members contain information on the NTBs the single market has succeeded in removing. As well as Lejour et al. (2001) Nahuis (2004) does estimations for sixteen industries; the CEECs are divided into three regions: Poland, Hungary, and Rest CEEC. Main findings of Nahuis (2004) lay in line with the previous study; still after transforming coefficients of EU membership dummies into tariff equivalents the NTBs estimates appeared to be higher (up to 30% in some industries: agriculture – 30%, textiles and leather – 19%, trade services – 17%, etc.).

However, the gravity specification employed in Lejour et al. (2001) was recently critiqued and revisited by Philippidis and Carrington (2005). The authors claim that the impact of single market access is misrepresented due to the absence of spatial effects in their gravity specification. Philippidis and Carrington (2005) employ spatial econometrics procedures in gravity modeling and apply the same CGE dataset and aggregation as Lejour et al. (2001) to ascertain the degree of bias on gravity estimates of predicted trade. As the authors explain, in the presence of spatial effects (namely spatial dependence, caused by various degrees of spatial aggregation, spatial externalities and spillover effects, and spatial structure of heteroskedasticity) traditional econometric techniques produce inefficient and, given the implicit misspecification, biased estimates. Their results suggest that spatial effects in gravity estimations have a dampening impact on NTBs for eleven out of sixteen sectors. In other words, spatial effects estimation suggests that there was a systematic overestimation of NTBs for eleven sectors when traditional econometric techniques are used. However, the magnitude of this overestimation is not substantial, in particular NTB tariff equivalents for agriculture – 7.5%, food processing – 9.4%, textiles and leather - 11%, non-metallic minerals – 11%, etc. The authors conclude that the inclusion of spatial effects reveals real growth reductions of around 0.25 per cent for the CEECs, while economic growth for the EU remains largely unchanged.

As to Ukraine, the gravity approach for obtaining NTB estimates was applied in the recent study on feasibility of free trade between the EU and Ukraine undertaken by CEPS 'The Prospects of Deep Free Trade between the European Union and Ukraine' during September 2004 - January 2005 (CEPS, 2006). By using standard CGE modeling the authors considered two main scenarios of possible free trade agreement involving progressive degrees of trade liberalization and institutional approximation. Removing non-tariff barriers was included as an important characteristic of deep institutional and regulatory convergence in the framework of Deep FTA+ scenario. The authors use the gravity model technique to estimate the implicit NTBs at the sectoral level among the regions of their CGE model. In particular, they introduce dummy variables for different country groupings (EU members, accession countries (CEEC and SEEC) or other countries) expecting that trade usually is greater if the two countries belong to the same trade block. The estimated coefficients of these dummies (see Appendix A for more details) were later transferred into ad-valorem tariff equivalents of trade barriers between countries³⁴. The resulting estimates of NTBs for non-EU countries including Ukraine appeared to be rather large, ranging from 20% for textiles to 40% for food products³⁵.

_

³⁴ There is neither description of the methodology for doing this transformation nor the resulting estimates of advalorem tariff equivalents of trade barriers presented in this study.

³⁵ The main conclusion of this study confirms the earlier conclusions of other studies that simple free trade agreement implying only customs tariffs removal for trade in goods would have a minor impact on economic performance of both FTA participants – of Ukraine and even less of the EU. At the same time, deeper forms of market integration between

Conclusions

The overview of various studies on identification and estimation of NTBs and their economic impact allows drawing the following general conclusions:

- i) With a reduction in tariffs in the framework of the WTO liberalization, non-tariff barriers have become leading component of trade protection measures applied by countries throughout the world. Therefore closer market integration that envisages reduction of non-tariff barriers to trade in goods, as well as lessening barriers to FDI, usually brings more economic gains for trading partners than the mere tariff reduction.
- ii) Indirect estimates of NTBs obtained through a gravity model approach are usually higher than estimates of other approaches (e.g. frequency indices), which use direct evidence on the prevalence of NTBs. The former usually take into account the broader range of non-tariffs barriers since they capture all existing non-tariff barriers to trade (including informal measures) thus providing the upper bound of estimated NTBs. Gravity estimations can be used to measure how NTBs prevent trade between countries from its potential, whereas frequency indices per se do not measure the influence of NTBs on trade. Business surveys reflecting entrepreneurs' perceptions are good as well at complementing the picture on NTBs significance to economic agents involved in foreign trade, but their quantitative estimations are susceptible to respondent bias.
- Different approaches for estimating NTBs (frequency indices, gravity modeling or enterprises' perception surveys, etc.) usually provide higher NTBs estimates for agricultural products compared to industrial products. NTBs estimates of non-tariff barriers to FDI and trade in services in general appear to be also high, especially in developing and transition countries.
- iv) In the structure of NTBs the role of core non-tariff barriers diminishes while the importance of regulatory differences and technical barriers to trade and market access gradually increases thus stipulating the need of taking the latter into account while investigating the impact of NTBs on trade and economic performance.

Country specific conclusions:

i) Studies estimating the impact of Eastern EU enlargement and accession of the CEES countries to the Single market report that internal market access and lessening of NTBs may lead to considerable aggregate trade increase for CEES countries quite exceeding trade increase for the old EU countries. The same refers to welfare gains due to EU enlargement³⁶. The estimated non-tariff barriers to trade differ substantially between sectors: the most protected by NTBs measures were agricultural and food products, as well as trade services, textiles and leather, non-metallic minerals and electronic equipment. As a result, these particular sectors may benefit the most from getting access to the internal market and lessening non-tariff protection. The reviewed

countries brining about domestic institutions reforms, legislation harmonization and non-tariff barriers reduction can have a substantial impact on Ukraine's economy in terms of its trade increase and welfare gains.

³⁶ The magnitude of derived estimates depends on the divergence in trade protection data used by the researchers (e.g., in Maliszewska M. (2004) expected gains of GDP for Hungary equals 7%, Poland – 3.4%, while in Lejour et al. (2001), 9% and 5.8% respectively).

studies revealed rather low barriers to FDI and trade in services between CEES countries and the old EU countries signifying about high level of liberalization in this important area of international economic relations. Still, institutional harmonization and alignment of domestic standards with the EU ones will not lead to full elimination of NTBs, in particular technical standards, in EU-CEES trade: in Cecchini (1998) the cost of existence of TBTs for the EU members was estimated 2-2.4% of the EU GDP.

ii) CIS and Ukraine: NTBs magnitude and role in trade between EU and CIS countries as well as between CIS countries themselves proved to be a very important trade matter for intensification of their economic integration with the EU, as well as for WTO accession process. Business surveys conducted for Ukraine show that the costs of meeting EU technical standards are considered rather high and burdensome by Ukrainian producers (CASE, 2006) (see Table below). These costs are perceived the highest (reaching more than 30% of yearly production costs) by Ukrainian commodity enterprises producing wearing apparel and dressing, agricultural and food processed products, wood products, non-metallic mineral products. Ukrainian exporters officially spent on average about 5% of the total costs of each shipment to complete all of the required export procedures and it took them about 4.7 days to complete all the required domestic export procedures (BIZPRO 2005a). Estimates of barriers to FDI in services sectors derived for Ukraine and Russia prove existence of significant restrictions for trade and foreign investment in these sectors of both countries; their abolishing or reduction may bring about significant welfare gains for countries (Pavel, 2004; Rutherford et al. (2005)). Upper bounds of existing NTBs to EU-Ukraine trade estimated through gravity model approach are even greater ranging from 20 to 40% among industries (CEPS, 2006). The NBT system developed by Ukraine followed the general trends in international trade: agriculture, food and agricultural processing, fishing, etc. have been the most NTB protected sectors in Ukraine; the significance of technical barriers have been increasing in the structure of applied NTBs (World Bank Ukraine Trade Policy Study, 2004).

Table 3.2 Estimated non-tariff barriers for Ukraine and Russia

Sectors	Bizpro 2005 survey*	CASE 2006 survey**	Movchan 2004***	Pavel et al. 2004****	Rutherf ord et al. 2005***
	Applied to all Ukrainian exporters	Applied to Ukrainian exporters to the EU	Applied to all importers to Ukraine	Applied to all importers to Ukraine	Applied to all importer s to Russia
Agriculture	4.5	11	27.8		
Forestry			22.4		
Food processing	4.5	11	31.9		

Fishing			33.5		
Industry (excluding food industry)	3.2				
Extraction of energy materials			17.1		
Extraction of coal			19.1		
Extraction of non-energy materials			14.3		
Textile and apparel			13.9		
Textiles and leather		19			
Leather and footwear			17.2		
Wood			14.2		
Paper			9.7		
Coke and oil refining			18.9		
Rubber and plastic goods			12.5		
Other non-metal mineral products			10		
Metals		5			
Iron and steel			8.1		
Chemistry and petrochemical		5	16.7		
Machinery and equipment		12	11.2		
Electrical and electronic equipment			14.2		
Transport equipment			11.4		
Other production			12.4		
Electricity, gas and water supply			5.9		
Construction	3.2				
Trade	8.2				
Services	3.6				
Telecommunications				4,9	33
Financial services:				28,87	36
banking				21,9	

insurance		36	
securities		28,7	
Railway transportation		16,7	33
Science & science servicing			33
Truck transportation			33
Pipelines transportation			33
Maritime transportation			95
Air transportation			90
Other transportation			33

Notes:

^{*} Official expenditures in percent of the value of one batch of goods for passing all export procedures for companies in 2004, Ukraine (see Appendix A for more disaggregated numbers).

^{**} Percentage of total year production costs spent in order to ensure products compliance with the EU norms, Ukraine, 2006, (see Appendix A for more disaggregated numbers).

^{***} Augmented weighted ratio for NTBs (quotas, licenses, excise charges, anti-dumping measures, and minimum custom value), Ukraine, 2004.

^{****} Ad valorem tariff equivalents, Ukraine, 2004 (2006 revised). **** Ad valorem tariff equivalents, Russia, 2005.

Chapter 4. Measuring costs of institutional harmonization

Institutional harmonization with the EU is not going to be without cost for EN countries. Both public and private sector will have to make certain expenses and adjustments. In this chapter we review these costs and discuss the ways to measure them. On the basis of this analysis, we develop an outline of a methodology to measure costs of institutional harmonization of EN countries with the EU in the context of implementation of enhanced FTAs.

As was suggested in Chapter 1 of the paper, the subject of our study is defined as follows: costs of institutional harmonisation of EU Eastern neighbors in the context of implementing enhanced free trade agreements. In this context, institutional harmonization is going to be directed at getting better market access and integration in energy and infrastructure. More specifically, this will include changes in state aid, public procurement, property rights, quotas, custom procedures, import bans, seasonal import regimes, SPS and other related regulations.

We need to note from the very beginning, that estimation of costs of institutional harmonization in the context of trade facilitation is methodologically challenging. Countries generally do not undertake trade facilitation and institutional harmonization as an end in itself. Rather, they have been mostly a part of a wider reform effort driven by either a transition to market economy, or accession to a regional or sub-regional grouping or a trade agreement. As a result, there is often no specific allocation of funding for pursuing institutional harmonization per se, making it somewhat very difficult to assess those specific costs. Therefore, estimation of the costs resulting from an establishment of enhanced FTAs, which are to institutionalize the mutual market access, may not fully capture all of the negative effects due to institutional alterations but will certainly deliver a notion of their scale.

4.1. Major Cost Categories

For the purposes of this study we group the cost of institutional harmonization into two major categories: primary and secondary. Furthermore, costs are divided between direct budgetary, indirect budgetary and direct private corporate costs (Table 4.1.1).

Primary costs are public and private compliance costs in narrower sense - regulatory, administrative, and technical. These are expenses on upgrading existing infrastructure, equipment and technology, training and capacity building, costs related to amending or creating legislation, company compliance with various technical standards and regulations like labeling and packaging, testing, inspections and quarantine requirements, etc.

Secondary costs represent negative economic impact as a result of implemented alterations. It could emerge in some sectors, areas or for certain companies in terms of foregone customs receipts, bankruptcies or increasing unemployment in short-term.

Table 4.1.1 Classification of harmonization-related costs

Primary costs

• <u>Direct budgetary costs</u> – directly payable off the state budget in order to fulfill certain requirements on governmental level (administrative, regulatory, technical)

Secondary costs

- <u>Indirect budgetary costs</u> costs not directly payable by the state budget that emerge due to changes in the institutional environment
- <u>Direct private corporate costs</u> directly payable by companies in order to achieve a minimum required level of compliance with a variety of standards and norms

Source: Own summary; for more detailed information about types of costs in the practice, see The Balkan Network (2001)

4.1.1 Primary costs (direct budgetary costs)

Regulatory costs

Trade facilitation measures may sometimes require new legislation or the amendment of existing laws in accordance with the national legislative and regulatory process of each country. This will in turn involve time and staff specialized in regulatory work both in the line ministries and the center of government and parliament. Resources required for such legislative and regulatory work may differ significantly depending on the country's legislative structures, procedures and frequency of changes in legislation³⁷.

Upgrade of customs infrastructure, equipment and technology

Equipment and infrastructure are not a prerequisite for trade facilitation measures, although some of these measures, such as risk assessment, or special procedures, are greatly assisted by the availability of appropriate equipment and infrastructure. Border agencies call for information and communication technology (ICT) products and infrastructure and scanners primarily because of their potential to enhance the effectiveness and efficiency of Customs operations and controls and only incidentally to sustain trade facilitation measures. None of these items' costs can be counted as costs of trade facilitation. Nevertheless, the studies show that insufficient equipment and infrastructure will make some facilitation measures more difficult to implement³⁸.

Training and capacity building

Training, even if often perceived as less significant item of harmonization agenda, may eat up disproportionately great amount of money (not the least, due to highly inefficient budgetary spending). Countries may generally choose between³⁹:

- a) Recruiting new expert staff (if available);
- b) Training existing staff in a training center;
- c) On-the-job training;
- d) Importing trained staff through personal exchange with other government bodies (in our case, where new rules and practices would have to be applicable, this is not an option).

Among the reviewed countries, the most commonly observed practice was a combination between b) and c). Regular training is a common practice in many customs administrations, in fact varying in frequency and duration. It can be used for delivering up-to-date information, incl. about present or

³⁷ Evdokia Moïsé, "The Cost of Introducing and Implementing Trade Facilitation Measures"

³⁸ Idem

³⁹ Idem

future major institutional alterations. On-the-job training results basically in no additional direct budgetary costs ⁴⁰, however it may give rise to temporary costs for traders in the form of underperformance and incompetence.

The measures reviewed above are to be undertaken (and paid off) completely within the government and, therefore, depend upon government's will and readiness to implement them. The estimation of the costs of these measures is in principle hardly attainable: first because they depend greatly on how efficiently reforms are carried out, their horizon and the responsible public administration organization. Second, they cannot be clearly separated from ongoing and future reforms that would take place anyway and thus increment budgetary costs. For these reasons, in this study we will not try to measure them and will focus on the other group of costs - those connected to secondary institutional changes.

4.1.2 Secondary institutional harmonization costs - Indirect budgetary costs

The major secondary cost on the part of the state is loss of budget revenue from tariffs. Harmonization of customs regulations through establishing FTAs inevitably requires an adjustment of current customs tariffs towards the partner side (EU). As stated in the ENP strategic papers, deep and comprehensive free trade agreements will involve reduction of tariff rates for a range of products. We assume that tariffs will be harmonized in all non-agricultural and non-fuel products, namely:

- Ores and metals (SITC Rev. 2: 27+28+68);
- Chemicals (SITC Rev. 2: 5);
- Machinery and transport equipment (SITC Rev. 2: 7);
- Other manufactured goods (SITC Rev. 2: 6+8 less 68).

Table 4.2.2. – Average applied import tariff rates* on non-agriculture and non-fuel products imported from developed economies, %

Product groups/ Countries	Ores and Metal	Chemicals	Machinery and Transport Equipment	Other Manufactured Goods
Armenia	0.15	0.04	1.58	4.14
Azerbaijan	5.56	8.53	7.26	11.46
Belarus	10.88	7.57	10.67	13.3
Georgia	6.1	5.89	3.38	7.61
Moldova, Republic of	0.96	3.34	2.08	5.25
Russian Federation	10.03	7.42	8.91	12.19
Uzbekistan	13.38	9.0	5.09	14.41
CIS simple average	6.68	4.89	4.70	8.97

⁴⁰ Excluding those related to incumbent inefficiency and corruption due to their different nature

-

European Union	0.76	1.49	0.72	1.46

Source: UNCTAD, own calculations

The estimation of the forgone budget revenues could be done either based on the datasets for the import structure of the CIS countries and for the average applied import tariff rates using basic non-econometric calculations (this method is not able to capture any trade creation unless additional calculations are made) or simply taking in advantage the results retrieved in Work Package 4 (Analysis of the economic and institutional consequences of WTO accession and of future EU-CIS free trade agreements) of the ENEPO project that is constructing a CGE model (this approach may capture the additional trade).

4.1.3 Secondary institutional costs - direct private corporate costs

For private entities, costs of institutional harmonization are costs of compliance with qualitative standards and regulations.

The use of standards and technical regulations as instruments of commercial policy in unilateral, regional and global trade context has increased as tariff and quota barriers continue to decline⁴¹. Standards and technical regulations are principally used to mitigate food, animal and plant safety risks, to provide common norms of for product characteristics and/or simultaneously to internalize ex-ante potential negative market externalities. However, these technical requirements also constitute barriers to trade by imposing unnecessary costly and time-consuming tests or by laying out various requirements in different markets⁴².

In order to have an access to the European Internal Market, all neighboring country's companies would have to fulfill certain criteria like qualitative standards and norms. Although the rules to be implemented would be of a uniform character, we expect that concrete efforts and accruing costs would vary from country to country dependent on its current legislation, practice and businesses' preparedness. What makes the task to estimate those costs even more difficult is the fact that the technical regulations and standards will be mandatory only for export-oriented companies whose number and capacity could not be undoubtedly estimated.

Therefore, the exact estimation of compliance costs is not possible. Below we discuss two qualitatively different approaches and assess their strengths and weaknesses.

4.2. Review of some methodologies to measure compliance costs on the firm level

4.2.1. Estimating compliance cost with product standards for companies using econometric modeling

The study by Maskus, Otsuki and Wilson (2005) represents one of the very few attempts made so far to assess the cost of compliance with standards and technical regulations by companies in

_

^{*} Data for the latest available year

⁴¹ Wilson (2007, draft)

⁴² Chen, Otsuki and Wilson (2004)

different countries. The authors have developed an econometric model that estimates the incremental production costs of enterprises in relation to compliance with standards imposed by the major importing countries or regional groupings.

Data used

The data used for cost estimation is taken from a survey undertaken by the World Bank explicitly for the purpose of assessing compliance costs of firms in developing countries facing technical standards in their potential export markets. The World Bank has completed a database - Technical Barriers to Trade (TBT) database⁴³ - based on a survey of 689 firms in 17 developing countries. The database includes information on both mandatory technical regulations, as well as the use of voluntary standards. The data also include firms' experiences with product testing and their responses to questions regarding mutual recognition agreements. The survey covers countries from all regions - Eastern Europe, Latin America and Caribbean, Middle East, South Asia and Sub-Saharan Africa. For Eastern Europe, Bulgaria, The Czech Republic and Poland were surveyed. The survey was designed to include a sufficient number of firms and technical regulations mainly (but not exclusively) imposed by the EU, the United States, Canada, Japan and Australia. For the tree European countries, the survey demonstrated that among all factors, product quality appears to be the most important factor in firms' ability to expand its exports: 77% respondents in Bulgaria, 98% in Czech Republic and 88% in Poland found product quality requirements an important factor in their ability to expand exports.

Approach and assumptions used

Initial investments for achieving compliance with standards and regulations are modeled as a quasi- fixed factor and estimated using a short-run variable cost function. Generally, the firm-function is specified as: C = C (w, y, s, z). Where, w refers to a vector of factor prices, y is output, s indicates the stringency of the foreign standard, and z is a vector of other variables affecting firm-level costs. The cost function is assumed to have standard properties: non-decreasing in w and y, concave in w, and homogeneous of degree one with respect to w.

The relative increase in setup cost incurred for complying with these standards is used as a proxy for stringency of standards, e.g. reported investment represents stringency variable. It is constructed from respondents' answers to the question "What are the approximate costs of the items below as a percentage of your total investment costs over the last year?"

This approach requires three central assumptions:

- 1) All firms, across industries and countries, share the same technology. However, observations as well as economic theory suggest that this assumption is rather unrealistic. Therefore, in vector z are included industry and country fixed effects in every specification to control for differences in technology relative to the benchmark function. Nonetheless, this approach requires making the residual assumptions that firms within an industry within each country share the same cost functions and that efficiency differences by industry and country are Hicks- neutral;
- 2) It is assumed that the value added cost function is weakly separable from the aggregator for raw materials and intermediate inputs. The weak separability of the cost function

http://econga.worldbank.org/WBSITE/EXTERNAL/EXTDEC/EXTRESEARCH/0,,contentMDK:21087081~menuPK:64214916~pagePK:64214825~piPK:64214943~theSitePK:469382,00.html

⁴³ Accessible at the address:

- implies that the choice of relative labour and capital inputs will be independent of material and intermediate input prices;
- 3) Factor prices are exogenous to firms, permitting their input choices to be made endogenously. However, data shows that this assumption does not hold, and firms report different average wage rates (or annual salaries) and returns to capital. Therefore, direct construction of labour and capital prices from the survey data makes use of variables that are endogenous, both in principle and in fact.

Model specification

The model is comprised of several equations that use the input data compiled in the World Bank TBT survey. The factor prices (prices of labor and capital) needed to identify the cost function are estimated through the following equations:

$$w_L^{ijk} = a_0 + a_1 w_L^k + a_2 w_K^k + S a_{3j} D^j + S a_{4k} D^k + a_5 A G E^{ijk} + S a_{6m} D^m$$

$$w_K^{ijk} = b_0 + b_1 w_L^k + b_2 w_K^k + S b_{3j} D^j + S b_{4k} D^k + b_5 A G E^{ijk} + S b_{6m} D^m$$

Where, superscripts i, j, and k refer, respectively, to firm, industry, and country, while superscript m refers to type of ownership. In the data there are four types of ownership: privately held domestic firms, publicly traded domestic firms (including domestic subsidiaries and joint ventures with domestic firms), subsidiaries of multinational firms (including joint ventures with multinational firms), and state-owned or collective enterprises.

The foreign standard could affect both the firm's fixed costs (e.g., by requiring product redesign) and its variable costs (e.g., by devoting more labor to product certification). To capture this possibility, the initial investment in compliance with the standards is modeled as a quasi-fixed factor and the estimation provided is a short-run variable cost function:

$$\ln \widetilde{C}_{i} = \beta_{0} + \beta_{y} \ln y_{i} + \beta_{L} \ln w_{Li} + \beta_{K} \ln w_{Ki} + \frac{1}{2} \beta_{LL} (\ln w_{Li})^{2} + \frac{1}{2} \beta_{KK} (\ln w_{Ki})^{2} + \frac{1}{2} \beta_{yy} (\ln y_{i})^{2} + \beta_{LK} \ln w_{Li} \ln w_{Ki} + \beta_{Ly} \ln w_{Li} \ln y_{i} + \beta_{Ky} \ln w_{Ki} \ln y_{i} + \beta_{z} \ln s_{i} + \beta_{Lz} \ln w_{Li} \ln s_{i} + \beta_{Kz} \ln w_{Ki} \ln s_{i} + \beta_{yz} \ln y_{i} \ln s_{i} + \frac{1}{2} \beta_{zz} (\ln s_{i})^{2} + \sum_{n=1}^{N} \beta_{zn} Z_{n} + \sum_{n=1}^{C} \beta_{zc} Z_{c} + \beta_{D} D_{dom} + \varepsilon_{i}$$

Where C denotes value-added (cost of labour and capital, referred to as production cost hereafter), wL denotes the instrumented wage rate, wK denotes the instrumented unit price of capital, y denotes sales as a measure of output, and s denotes the firm-specific measure of standards.

The total elasticity of cost with respect to a change in the stringency of standards, accounting for impacts on factor use, is calculated by the following equation:

$$\sigma_{S} \equiv \partial \ln \widetilde{C} / \partial \ln s = \beta_{s} + \beta_{ss} \ln s_{i} + \beta_{Ls} \ln w_{Li} + \beta_{Ks} \ln w_{Ki} + \beta_{ys} \ln y_{i}.$$

Findings

The results show that a 1 percent increase in investment to meet compliance costs in importing countries raises variable production costs by between 0.06 and 0.13 percent, which is a statistically significant increase. Also, fixed costs are estimated to be \$425,000 per firm, or about 4.7 percent of value added on average. However, the total standard cost varies from a minimum of \$357 to a maximum of \$12.3 million.

Conclusions in the light of the present study

- The assumptions made in the model are quite unrealistic and the model as a whole is rather static;
- The model is very sensitive to input data, which is a unique on its own (The World Bank survey);
- It is not possible to assess or verify the actual reliability of the input data;
- The results from this econometric study show that costs vary substantially among small and big enterprises, however it does not make it clear whether the average firm exhibits economies or diseconomies of scale;
- There is generally no data on previous year's reported compliance costs, which makes a direct comparison or extrapolation of results impossible;
- The companies from the countries we will study will conform to standards and technical regulations on a voluntary basis, which makes the use of this model, unattainable.
- The data collection in the field has been contracted to local consulting companies; such a task is far beyond the financial resources of the consortium.

4.2.2. The Standard Cost Model (SCM)44

The SCM is a method for determining administrative costs for businesses imposed by regulations, i.e. by legislative changes. It is a quantitative methodology that can be applied in all countries at different levels. The method can be also used to measure a single law, selected areas of legislation or to perform a baseline measurement of all legislation in a country. Furthermore, the SCM is also suitable for measuring simplification efforts as well as administrative consequences of new legislative proposals as well as compliance costs on firm level.

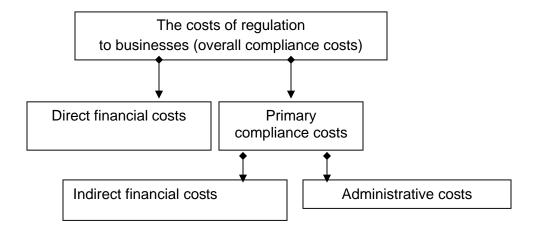
The methodology is an activity-based measurement of administrative burdens making it possible to follow development of administrative burdens itself. At the same time, achieved results are directly applicable to governments' simplification or harmonization work.

Costs in the range of the SCM measurement

⁴⁴ Used in various countries for assessing national and EU-legislation effects, incl. Austria, Belgium, Czech Republic, Denmark, Estonia, France, Germany, Italy, The Netherlands, Norway, Poland, Sweden and UK. The Website of the International Standard Cost Model Network can be accessed at the address: http://www.administrative-burdens.com/

SCM methodology divides costs of regulation into direct financial costs and primary compliance costs, and then the latter into indirect financial costs and administrative costs (Figure 4.1).

Figure 4.2.2. Different costs of regulation to business



<u>Direct financial costs (DFC)</u> – result of a concrete and direct obligation to transfer a sum of money to the government or a competent authority. Such costs include administrative charges, taxes, etc. For example into the category would fall all the fees directly payable for obtaining a permit. These costs are by no means related to the need of information or anything else on the side of the government. Basic SCM formula for estimation of direct financial costs would be as follows:

DFC = charges X yearly frequency X number of entities

• <u>Primary compliance costs (PCC)</u> – they represent all the costs related to complying with regulations in narrower sense. As depicted above, they could be subdivided further into substantive compliance or indirect financial costs (filters in accordance with environmental requirements) and administrative costs (documentation for the installation of a filter).

Basic SCM formula for estimation of primary compliance costs would be as follows:

PCC = number of entities X objects to be implemented per entity X average price of the object + number of entities X objects to be implemented per entity X average time to deal with paperwork

Model application

When carrying out the actual measurement in the SCM framework it is important to get as detailed data as possible. Not only will this increase the level of accuracy, but it will also ensure that data can be compared at the disaggregated level. Hence, comparing aggregated data at the societal level may reveal cross-country differences, but will often not be enough to explain why there is a difference. In order to explain differences, it is most often necessary to be able to exclude differences in wages and overhead costs, and mainly focus on the differences in time spend performing a certain administrative activity.

There are several applications of the SCM publicly available, yet none of them is closely related to the present study (accessible at: http://www.administrative-burdens.com/default.asp?page=140).

Conclusions on SCM model

- The model allows going down to separate activities and therefore the estimations could be highly realistic;
- The SCM is more suitable for the measurement of the impact of regulations but not process-related costs; at the same time, the detailed approach speaks in favor of not attempting to apply it in large-scale studies;
- After reviewing all possibly applicable information, we draw the conclusion that what is needed is not available (could not be even retrieved out of the existing datasets without hugely compromising quality of output). Given that, the application of the model in this study is not possible.

4.3 Methodology proposal

Based on the review of the existing studies on estimation of costs of compliance and evaluation of the available data, we suggest the following methodology for estimation of costs of compliance of CIS countries with EU norms and regulations.

Step 1. Determination of the significance of exports to the EU (as percentage to GDP)

Table 4.3.1. – Significance of CIS exports to the EU (2004), percent of GDP

Indicators	GDP in	Exports to EU25 as	Exports to EU25 in
Countries	millions of US	percentage of GDP	millions of US dollars
	dollars		
Armenia	3 615	6,4%	231,3
Azerbaijan	8 281	16,6%	1 376,1
Belarus	22 909	14,1%	3 224,4
Georgia	5 113	6,3%	322,2
Kazakhstan	40 743	16,5%	6 707,2
Kyrgyzstan	2 163	1,8%	38,3
Moldova, Republic of	2 595	18,2	473,5
Russian Federation	582 319	14,8%	85 979,1
Tajikistan	1 911	12,9%	246,1
Turkmenistan	12 374	3,0%	370,4
Ukraine	65 037	13,7%	8 882,4
Uzbekistan	11 788	3,99%	470,2

Source: UNCTAD, Handbook of Statistics, own calculations

Step 2. Break down of the export sector into several sub-sectors

Due to the fact that the compliance costs differ significantly from one sector to another, we suggest to distinguish he following sub-sectors:

- Agriculture;
- Manufacturing;
- Services;
- Energy

The only publicly available and suitable statistical data on trade by sectors is to be found at the European Commission website (http://ec.europa.eu/trade/issues/bilateral/data.htm), which we are going to use (exports to EU25 by sub-sectors). There might be a slight difference with the original data because at source it represents volumes at CIF prices (import prices), which are cost & insurance & freight. Since we intend to measure the exports of the respective country to the EU (exports are generally valued at FOB prices – no insurance and no freight) and there is no such break down for the exports of the CIS countries to the EU by sub-sectors (as well as for all the other countries), the final results might be slightly overestimated.

Step 3. Use survey data for compliance costs in other countries (CEE)

World Bank Technical Barriers to Trade Survey is the best source of information on NTBs for developing and transition countries we have found. We are going to use the estimates on total investments costs and costs by sectors obtained in the survey for three Eastern European countries – Bulgaria, Czech Republic and Poland. We will use these estimates to make extrapolations for the neighboring countries.

Table 4.3.2. – Total investment costs to comply with technical requirements as a share in sales in three of the CEE countries (percentage)

region	country	Mean	StdDev	Min	Max
East Europe	Bulgaria	2.15	2.52	0.13	9.68
	Czech Republic	5.71	9.12	0.05	31.88
	Poland	3.48	10.99	0.03	55.65
East Europe Total		3.74	8.26	0.03	55.65

Source: Wilson and Otsuki (2004)

Table 4.3.3 Total investments costs to comply with technical requirements as a share in sales by industry in all countries⁴⁵ (percentage)

-

⁴⁵ Bulgaria, Czech Republic, Poland, Argentina, Chile, Honduras, Panama, Iran, Jordan, India, Pakistan, Kenya, Mozambique, Nigeria, Senegal, South Africa, Uganda

Industry	Mean	StdDev	Min	Max
01 Raw Agricultural Products	6.18	22.28	0.00	122.14
02 Meat Products	3.43	4.82	0.06	13.36
03 Electrical and electrical equipment	2.40	4.28	0.03	19.32
04 Fabricated metal	11.21	25.66	0.15	87.25
05 Industrial machinery and equipment	1.81	2.14	0.24	4.81
06 Industrial or agricultural chemical	3.17	4.01	0.12	14.36
07 Instruments, photographic, optical, watches	0.26		0.26	0.26
08 Leather and leather products	1.98	2.49	0.09	5.50
09 Paper and allied products	1.28	1.60	0.15	2.42
10 Printing and publishing products	0.29		0.29	0.29
11 Processed food and tobacco	4.61	10.61	0.01	55.65
12 Rubber and plastic products	5.20	6.18	0.52	17.72
13 Telecommunications and terminal equipment	1.57	1.96	0.07	4.73
14 Textiles and apparel	2.73	6.80	0.01	44.10
15 Transportation equipment, auto parts, dealers	4.18	8.27	0.25	31.88
16 Lumber, w ood and furniture	0.45	0.27	0.14	0.73
17 Construction and construction related services	1.43	1.09	0.66	2.20
18 Primary metal and metallic ores	11.27	20.48	0.17	41.96
19 Petroleum and other nonmetallic minerals	9.83	11.50	0.17	23.73
20 Miscellaneous manufactured commodities	20.89	50.51	0.02	124.00
21 Drug and liquor	3.67	3.82	0.38	9.50
22 Material	1.99	1.12	0.70	2.66
23 Transportation and mailing service				
24 Other services	0.26	0.33	0.04	0.63
25 Other	4.60		4.60	4.60
Grand Total	4.44	13.25	0	124

Source: Wilson and Otsuki (2004)

Step 4. Regrouping the existing export categories of the available datasets

Table 4.3.4 Correspondence table

Product groups	Corresponding World Bank grouping	Mean of investment costs for compliance as
	Darik grouping	a share in sales
Agricultural products		
	Raw agricultural	6.18%
	products	
	Primary metals and	
	metallic ores	11.27%
Agricultural products – average		8.725%
Manufactured products		
	Meat products	3.43%
	Electrical equipment	2.40%
	Fabricated metal	11.21%
	Industrial machinery	
	and equipment	1.81%

	Industrial or agricultural	
	chemicals	3.17%
	Instruments,	3.1770
	photographic, optical,	0.26%
	watches	0.2070
	Leather and leather	
	products	1.98%
	Paper and allied	1.28%
	products	1.2070
	Printing and publishing	
	products	0.29%
	Processed food and	0.2770
	tobacco	4.61%
		4.0170
	Rubber and plastic products	5.20%
	Telecommunications	J.ZU /0
		1 570/
	and terminal equipment	1.57% 2.73%
	Textiles and apparel	2.13%
	Transportation	A 100/
	equipment and auto	4.18%
	parts	
	Lumber, wood and furniture	0.450/
	Miscellaneous	0.45%
	manufactured	20.89%
	commodities	20.0970
		2 / 70/
	Drug and liquor Material	3.67%
Manufactured products average	Material	1.99%
Manufactured products – average		3.95%
Services		
	Construction and	
	construction related	1.43%
	services	
	Other services	0.26%
Services – average		0.845%
Energy		
<u> </u>	Petroleum and other	
	non-metallic minerals	9.83%
Energy – average	non metallic minerals	9.83%
Course Wilson and Otauki (2004) au		7.0370

Source: Wilson and Otsuki (2004), own calculations

Step 5. Adjustment of the survey-based compliance costs (available for Bulgaria, Czech Republic and Poland in Europe) for the CIS countries

We suggest to use the GDP per capita as a benchmark (the most integral indicator, reflecting a wide range of economic phenomena indirectly including the price levels of the factors of production) or a combination with other major macro indicators.

Table 4.3.5 Calculation of GDP equivalent of compliance costs in CEE, 2004

	Mean of compliance	GDP per	1% compliance costs
Indicators	costs	capita	corresponds to
Countries			·
Bulgaria	2.15	3 137	1 459
Czech Republic	5.71	10 462	1 832
Poland	3.48	6 265	1 800
Average	3.74	6 621	1 697

Source: UNCTAD, Handbook of Statistics, own calculations

The above table shows that the higher the GDP per capita, the higher the share of the compliance costs. This is, however, somewhat controversial because some of the related costs are bound to international prices (like equipment, production lines, etc.), which are not likely to be influenced by the national conditions. Much more the opposite – the lower the standard of living, the higher the compliance costs percentage (driven by the import of special equipment) would probably be. On the other hand, costs like product redesign, additional labor for production, testing and certification are to be expected to be lower in lower-income countries. Logically, what matters here is the ratio between labor and capital costs, which is however at this stage not possible to estimate.

Then there are two ways to make extrapolation to CIS countries.

Scenario 1

Following this scenario, the overall compliance costs percentages would be as follows:

Table 4.3.6 Compliance costs as share in the companies sales

	GDP per	Suggested overall
Indicators	capita	mean of compliance
Countries		costs
Armenia	1 195	0.7%
Azerbaijan	991	0.58%
Belarus	2 335	1.38%
Georgia	1 132	0.67%
Kazakhstan	2 746	1.62%
Kyrgyzstan	416	0.25%
Moldova, Republic		0.36%
of	615	
Russian Federation	4 047	2.38%
Tajikistan	297	0.18%

Turkmenistan	2 596	1.53%
Ukraine	1 384	0.82%
Uzbekistan	450	0.27%
<u>Average</u>	1 517	0.89%

Source: UNCTAD, Handbook of Statistics, own calculations

Due to the controversial result in Table 4.4.5.1. as well as considering the great importance of to what extent the companies actually comply and how do they do that (choosing the highest possible standard, which is naturally the most expensive one, or on the contrary – the lowest possible one, thus less costly, or somewhere in the middle) we will instead apply a simpler scenario – Scenario 2.

Scenario 2: Estimating the share of the compliance costs for the neighboring countries as the average for the CEE countries covered by the World Bank study

The only adjustments that we suggest would be appropriate to be made represent some corrections of the final results as follows (not loosing the accuracy and the essence of the study):

- Lowering the final score for the agricultural sector by 70% due to the envisaged limited harmonization (assuming Bulgaria, Czech Republic and Poland had to harmonize, thus acquire costs, up to 100%);
- Reducing the final scores for the service sector by 50% again due to partial harmonization

Both percentage correctives may also differ from country to country (following the provisions of the ENP Action Plans) or even be not applied at all, since there is no clear evidence or undoubtedly suggestible by economic reasoning that limited harmonization for example in the agriculture sector would inevitably lead to less compliance costs (a country produces less of a product than its quota allows it to).

On the other hand, the actual compliance costs could be of a larger scale as well because if we assume that the costs we intend to estimate are connected to the current exporters who simply need to maintain the achieved level of harmonization, there might be also newcomers who will need to make the initial investments (building or modifying a whole production line, not simply maintaining it functioning).

Conclusions for Chapter 4

Institutional harmonization entails diverse costs both for the state and private sector, which can be divided into two major categories: primary (direct budgetary) and secondary, and the latter into indirect budgetary and direct private corporate costs.

Direct budgetary costs are difficult to estimate, as they are inseparable from the general costs on conduct of reforms. In this study we will not estimate them.

The major indirect budgetary cost is forgone customs revenues. Its estimation is rather straightforward based on the tariffs and trade flows data.

Direct private corporate costs are compliance cost with product standards. Their econometric estimates are quite rare. The example we reviewed – the study by Maskus, Otsuki and Wilson (2005) – estimates the elasticity of cost with respect to a change in the stringency of standards. The results show that a 1 percent increase in investment to meet compliance costs in importing countries raises variable production costs by between 0.06 and 0.13 percent; while fixed costs are estimated to be \$425,000 per firm, or about 4.7 percent of value added on average. It is unlikely that we will be able to use such a methodology for ENP countries, primarily because of unavailability of data.

Another methodology - the Standard Cost Model - is used for determining administrative costs for businesses imposed by regulations. This methodology does not apply any econometric modelling, but calculates different costs directly based on the cost of changes to be implemented and their frequency. The methodology is also demanding in terms of data, so it could be difficult to apply given the limitations with data availability for CIS countries. Its application will require making assumptions where the data is missing.

The methodology we suggest using is based on extrapolation of the existing survey data and findings for CEE countries. We are going to use the findings on costs of compliance for Bulgaria, Czech Republic and Poland from the World Bank Technical Barriers to Trade Survey and extrapolate them with some adjustments for degree of harmonization.

Conclusions

To assess the costs and benefits of the institutional harmonization between the EU and its eastern neighbors, one needs to first define what the institutional harmonization is. In our analysis we instrumentalize this concept by looking at the context in which the harmonization goes. This context is deep trade liberalization that involves not only elimination of tariffs, but also regulatory approximation in many areas and close integration is some sectors.

Based on the analysis of the experiences of the existing arrangements (EU membership, EEA, EU-Switzerland cooperation, EU-Turkey Customs Union and Euro-Mediterranean FTA) and also policy provisions of the ENP, we think the most realistic and suitable institutional harmonization package for EU Eastern neighbors in the medium term should include: FTA in industrial products, involving full harmonization of product standards and regulation in EU harmonized areas and adoption of Mutual Recognition agreement in non-harmonized areas; Partial liberalization of trade in agricultural products (in sectors that are able to comply with EU SPS requirements); Partial liberalization of trade in services; Integration in EU energy and transport networks.

Institutional harmonization with the EU is likely to bring a range of benefit to its neighbors. Among them: better market access, increased investment, increased competition and reduced corruption, all of which is likely to translate into welfare growth. These, however, can come at a cost. The direct costs involve budgetary expenses and enterprises expenses on compliance with new rules. There also possible negative indirect effects that can lead to loss of competitiveness.

Moreover, the extent to which harmonization is going to benefit neighbors' economies also depends on how effectively it is carried out. Previous experiences of imposition of new institutions CIS countries show that that harmonization can face a range of challenges due to peculiarities of the existing institutional setup in these countries.

As a first stage of analyzing benefits of institutional harmonization, we review the studies on non-tariff barriers. Estimations of NTBs give an idea of how much benefit can be obtained if they are eliminated. The estimations of the impact of Eastern EU enlargement and accession of the CEES countries to the Single market report that internal market access and lessening of NTBs may have led to considerable aggregate trade increase for CEES countries. Estimates for CIS countries are scarce, with exception of Ukraine. The survey data for Ukraine suggests that NTBs constitute a significant barrier to trade, and their abolishing or reduction may bring about significant welfare gains for countries.

Finally, based on our discussion of the costs of harmonization, we think that it is feasible (although still methodologically difficult) to estimate secondary costs stemming from institutional harmonization, namely loss of tariff revenue by the state budget and compliance costs borne by the private sector. Primary costs that emerge at the state institutions due to the needs to upgrade their capacity and the like are very difficult to separate from general reform effort and, thus, will not be estimated in this project. Based on the analysis of the exiting methodologies for estimation of costs of harmonization, we tend to conclude that the Standard Cost Model is the best available option, although quite demanding in terms of data.

References

Anderson, J. and Wincoop, E. 2004. Trade Costs. NBER Working paper 10480

Aghion, Philippe and Rachel Griffith (2005). Competition and Growth: Reconciling Theory and Evidence. MIT Press.

Baldwin, R., Francois, J. and Portes, R. 1997. Costs and Benefits of Eastern Enlargement: the Impact of the EU and Central Europe. Economic Policy 24

(The) Balkan Network (2001) "Obstacles to trade, growth, investment and competitiveness: Ten case studies on Balkan Business", Sofia, Bulgaria, September

BIZPRO (2005a), Export Activities of Ukrainian Companies, at www.bizpro.com.ua

BIZPRO (2005b), Small and Medium-Sized Enterprises in Ukraine: Performance Indicators and Strategies for Development, at www.bizpro.com.ua

Brenton, P. and Vancauteren, M. 2001. The Extent of Economic Integration in Europe: Border Effects, Technical Barriers to Trade and Home Bias in Consumption. CEPS Working Document, No. 171

CEN (2003). Costs and Benefits of Poland's membership in the European Union. Centrum Europejskie Natolin, Warsaw.

CEPS (2006). The Prospect of Deep Free Trade between the European Union and Ukraine, Michael Emerson (Ed.), Centre for European Policy Studies (CEPS), Brussels.

Chen., N. 2004. Intra-National versus International Trade in the EU: Why Do National Borders Matter. Journal of International Economics, no. 63, pp.

Chen, Otsuki and Wilson (2004) "Do Standards Matter for Export Success?", World Bank http://www-wds.worldbank.org/servlet/WDSContentServer/WDSP/IB/2006/_01/18/00001640620060118152026/Rendered/PDF/wps3809.pdf

Chevassus-Lozza, E., Majkovic, D., Persillet, V., and M. Unguru. 2005. TBT in the EU: Importance for the New EU Members. An Assessment for Agricultural and Food Products.

Deardorff, A. and Stern, R. 1998. Measurement of Non-tariff Barriers. Ann Arbor: University of Michigan Press.

Diomin S., Jakubiak M., Kostrzewa K., and M. Puntea. 2005. EU-Moldova Trade: Existing Barriers and Prospects for Future Integration. Report from the project: Implementation of trade barriers faced by Moldovan exporters and support in trade expansion, CASE, Chisinau.

Dubrovskiy, Vladimir (2006). Towards Effective Anti-Corruption Strategies in Ukraine: Removing the Cornerstone without Toppling the Building. CASE Studies and Analysis Working Series # 322. http://www.case.com.pl/upload/publikacja_plik/10233280_sa322.pdf

Dubrovskiy, Vladimir, William Graves III, Janusz Szyrmer, Evgeny Golovakha, Olexiy Haran', and Rostislav Pavlenko (Work in progress). The Reform Driving Forces in a Rent-Seeking Society: Lessons from the Ukrainian Transition (third draft). Country study within the Global Research Project of Understanding Reforms, The Global Development Network (GDN), www.gdnet.org

EC, 1995. DECISION No 1/95 OF THE EC-TURKEY ASSOCIATION COUNCIL of 22 December 1995on implementing the final phase of the Customs Union (96/142/EC)

Emerson, Michael and Gergana Noutcheva (2004). Europeanisation as a Gravity Model of Democratisation, CEPS Working Document No. 214/November 2004.

Euromed (2005) Five Year Work Programme, Euromed Barcelona Summit, 27-28 November 2005 http://ec.europa.eu/comm/external_relations/euromed/summit1105/

Eucken, Walter (1938). "Nationaloekonomie Wozu?"

European Commission (2006). Communication from the Commission to the Council and the European Parliament on Strenghthening the European Neighbourhood Policy, Brussels, COM(2006)726, 4 December. http://ec.europa.eu/world/enp/pdf/com06_726_en.pdf

European Commission, European Neighbourhood Policy Website - http://ec.europa.eu/world/enp/welcome_en.htm

Francois, J. F., M. McQueen and G. Wignaraja (2005), 'European Union–developing country FTAs: overview and analysis', World Development, Vol. 33, Issue 10, pp. 1545-1565.

Frohlich, Z., 2003. Corporate Readiness for Enlargement in Central Europe. 43rd European Congress of the Regional Science Association, Jyvaskyla, Finland.

Frohlich, Z., 2005. Road to EU: Enlargement and Competitiveness of Western Balkan Companies. 45th Congress of the European Regional Science Association, Vrije Universiteit Amsterdam.

Hoekman, B., Ng, F. and Olearreaga, M., 2004. Agricultural Tariffs Versus Subsidies: What's More Important for Developing Countries. World Bank Economic Review, 18 (2).

IARC (2006), Sustainability Impacts of the Euro-Mediterranean Free Trade Area. Final Report on Phase 2 of the SIAEMFTA Project, Impact Assessment Research Centre. Available at www.sia-trade.org/emfta

IME (2000), "Administrativni pretchki pred biznesa", (Administrative obstacles for business), Institute for Market Economics, Sofia, Bulgaria

(The) International Standard Cost Model Network - http://www.administrative-burdens.com/;

Interstate Statistical Committee of the Commonwealth of Independent States - www.cisstat.com/eng/

Jakubiak, M., Maliszewska, M., Orlova, I., Rokicka M., and Vavryschuk V., 2006. Non-Tariff Barriers in Ukrainian Exports to the EU, CASE Reports No. 68/2006

Karklins, Rasma, 2002. Typology of Post-Communist Corruption. Problems of Post-Communism July/August 2002

Kee, H. L., Nicita, A., and Olarreaga, M., 2006. Estimating Trade Restrictiveness Indices. Policy Research Working Paper Series 3860, The World Bank.

Keuschnigg, C and Kohler, W. 2002. Eastern Enlargement of the EU. How much is it worth for Austria? Review of International Economics.

Ledeneva, Alena. Continuity and Change of Blat Practices in Contemporary Russia. In: Stephen Lovell, Alena V. Ledeneva, and Andrei Rogachevskii (ed.). Bribery and Blat in Russia: Negotiating Reciprocity from the Middle Ages to the 1990th. School of Slavonic and Eastern European Studies, University of London. McMillan, 2000.

Ledeneva, A.V. (1998). "Russia's Economy of Favours". Cambridge University Press.

Lejour A., de Mooij R.A. and Nahuis R. 2001. EU Enlargement: Economic Implications for Countries and Industries. CPB Netherlands Bureau for Economic Policy Analysis, Document, no.11

Linotte, D. (2004). "Trade Facilitation and Security", Short note for the "Workshop on Corridor Development for Caucasus Countries", Tbilisi, Georgia, 18-19 May, 2004 - <a href="http://wbln0018.worldbank.org/ECA/Transport.nsf/a70a16e73cef882c85256a1000594113/6d10cf14086496e585256eae0061503d/\$FILE/OSCE%20Trade%20facilitation%20Tbilisi%202004.doc

Litwack John M.. Legality and Market Reform in Soviet-Type Economies – The Journal of Economic Perspectives, Vol.5, Issue 4, 1991

Maliszewska M. 2004. EU Enlargement: Benefits of the Single Market Expansion for Current and New Member States, CASE, January 2004.

Manchin, M., Pinna A. 2003. Border Effects in the Enlarged EU Area. Evidence from Imports to Applicant Countries. Centre for European Policy Studies.

Maskus, Keith E., Otsuki, Tsunehiro and Wilson, John S. S.(2005). "The Cost of Compliance with Product Standards for Firms in Developing Countries: An Econometric Study", May 2005. World Bank Policy Research Working Paper No. 3590. Available at SSRN: http://ssrn.com/abstract=744664

Milcher, Susanne and Ben Slay (2005). "The Economics of the "European Neighborhood Policy: An initial assessment", CASE, Studies & Analyses, 291, Warsaw, March.

Moïsé, Evdokia (2004). "The Cost of Introducing and Implementing Trade Facilitation Measures", OECD Trade Policy Working Paper No. 8

http://titania.sourceoecd.org/vl=6831560/cl=24/nw=1/rpsv/cgibin/wppdf?file=5lgmtm7sbx9x.pdf

Movchan, V. and Eremenko, I., 2003. Measurement of Non-Tariff Barriers: The Case of Ukraine. Prepared for the Fifth Annual Conference of the European Trade Study Group (ETSG) September 11-13, 2003, Madrid, Spain.

Nahuis, R.. 2004. One size fits all? Accession to the Internal Market; an Industry Level Assessment of EU Enlargement. Journal of Policy Modelling 26: 571-586

North, Douglass C. (1990) "Institutions, Institutional Change, and Economic Performance", New York: Cambridge University Press

North, Douglass C., John Joseph Wallis, and Barry R. Weingast (March 2005). The Natural State: The Political-Economy Of Non-Development -

http://www.international.ucla.edu/cms/files/PERG.North.pdf

North, Douglass C., John Joseph Wallis, and Barry R. Weingast (2006). A Conceptual Framework For Interpreting Recorded Human History - NBER Working Paper #12795 http://www.nber.org/papers/w12795

Noutcheva, Gergana and Michael Emerson (2005), Economic Regimes for Export: Extending the EU's Norms of Economic Governance into the Neighbourhood, CEPS Working Document No. 233/December 2005.

OECD (2005). "The Costs and Benefits of Trade Facilitation", Policy Brief, October

Pavel F, Burakovsky I., Selitska N. and N. Movchan. 2004. Economic Impact of Ukraine's WTO Accession: First results from a Computable General Equilibrium Model. IER Working Paper, No. 30.

Philippidis, G., Carrington A. 2005. European Enlargement and Single Market: A Mistreated Issue. Journal of Economic Integration 20 (3); 543-566.

Piazolo, Daniel (1999), "The Credibility and Growth Effects of EU Institutions on Eastern Europe", European Investment Bank Economic and Financial Report No. 99/P2

Pindyuk, O., 2006. Adjustment Costs of Trade Liberalization for Ukraine's Labor Market. INDEUNIS Papers, September 2006

Polterovich, Victor (2001): Institutional Traps. – in: The New Russia: Transition Gone Away, eds. L.R.Klein and M.Pomer. Stanford, CA; Stanford University Press

Putnam, Robert, R. Leonardi, and R. Nanetti, 1993, Making Democracy Work: Civic Traditions in Modern Italy. Princeton: Princeton University Press

Rodrik, Dani (1989). Credibility of Trade Reform – A Policy Maker's Guide. The World Economy, No. 12, pp. 1-16.

Rutherford, T., Tarr, D., and Shepotylo, O. 2005. Poverty Effects of Russia's WTO Accession: modeling "real" households and endogeneous productivity effects. World Bank Policy Research Working Paper 3473

Smith, Adrian and Adam Swain, "Regulating and Institutionalising Capitalisms: The Micro-Foundations of Transformation in Eastern and Central Europe" pp. 25-53 in J.Pickles and Adrian Smith (eds), Theorising Transition: The Political Economy of Post-Communist Transformations. London: Routledge, 1999

Swiss Integration Office (2006), Information file on the Europe 2006 Report, http://www.europa.admin.ch/index.html?lang=en

Ukraine Trade Policy Study (In Two Volumes), 2004. World Bank Report No. 29684-UA

Ulgen S. and Y. Zahariadis (2004) The Future of Turkish-EU Trade Relations, CEPS EU-Turkey Working Document No. 5, CEPS, Brussels, August

Vankauteren, M., Weiserbs, D. 2003. The Impact of the Removal of TBT on Border Effects and Intra-trade in the EU, Université Catholique de Louvain.

Volkov, Vadim. Patrimonialism versus Rational Bureaucracy: on the Historical Relativity of Corruption. In: Stephen Lovell, Alena V. Ledeneva, and Andrei Rogachevskii (ed.). Bribery and Blat in Russia: Negotiating Reciprocity from the Middle Ages to the 1990th. School of Slavonic and Eastern European Studies, University of London. McMillan, 2000

UNCTAD, Handbook of Statistics - http://www.unctad.org/Templates/Page.asp?intItemID=1888&lang=1

Whalley, John (1996). Why do Countries Seek Regional Trade Agreements? NBER Working Papers, No. 5552.

Wilson John S. and Tsunehiro Otsuki (2004). Standards and Technical Regulations and Firms in Developing Countries: New Evidence from A World Bank Technical Barriers to Trade Survey. June 2004.

http://siteresources.worldbank.org/INTRANETTRADE/Resources/Topics/Services/TBT_Data_Description.pdf

Wilson, John (2007, draft), "A Quick Look at Regulation and Information Technology" http://research.yale.edu/isp/osis/papers/Wilson%20Position%20Paper.pdf

The World Bank Group, World Development Indicators 06http://devdata.worldbank.org/wdi2006/contents/TOC.htm; WDI 05 http://devdata.worldbank.org/wdi2005/cover.htm;

The World Bank Technical Barriers to Trade (TBT) database

Appendix A

Estimated Non-Tariff Barrier
Kee, Nicita and CASE NTB Survey* Carrington Pindyuk, 2006 Sectors CEPS, 2006 Olerreaga, 2006 MA-OTRI (advalorem tariff effects) Gravity estimates of dummy variables for country groupings Ad-valorem Percentage of total ye requency augmented rati roduction costs sp for core NTBs, 2004, in order to ensure quivalents impose riff equiva n exporters) 30 17.7 7.5 11 ACCACC EUACC EUEU EUOTH ACCOTH Agriculture 0 Raw materials 0 0 Food processing 15 11.7 9.4 11 Textiles and leather 19 14.5 11 19 Non-metallic minerals 16 13.1 11 Energy-intensive products 0 0 10.1 Other manufacturing 0 0 3.1 5 Metals 10 9.4 Fabricated metal products 8 5.6 8.6 12 Machinery and equipment Electronic equipment 13 10 10.7 Fransport equipment Trade services 17.2 0 Transport&communication 5.8 0 0 4.9 Financial services Other services 8.9 6 6.5 Chemistry 5 Machinery 12 27.8 Agriculture 22.4 Forestry Fishing 33.5 Extraction of Energy Materials 17.1 extraction of coal 19.1 Extraction of Non-Energy Materials 14.3 31.9 Food and Agricultural Processing Textile and apparel 13.9 Leather and footwear 17.2 Wood 14.2 9.7 Coke and Oil Refining 18.9 12.5 Rubber and plastic goods Other Non-Metal Mineral Products 10 16.7 Chemical and petrochemical Iron and Steel 8.1 Machinery and Equipment 11.2 Electrical and Electronic Equipment 14.2 Transport Equipment 11.4 12.4 Other production Electricity, Gas and Water Supply 5.9 Overall 11 Agricultural 34 Manufacturing Food crops -1.40039 -1.02726 -0.0849 -1.24074 -1.70107 -0.22928 -0.08863 0.798732 -0.5277 -0.88329 Meat/dairy -1.64254 -1.14785 -0.611 -1.36912 -1.92505 Minerals -0.4556 -0.45472 0.600022 -1.10089 Processing -0.20087 Light manufacturing 0.581296 0.504223 0.460205 0.254973 -0.42647 Heavy manufacturing 0.339263 0.393738 0.645917 0.586825 -0.07326 0.237486 0.805418 1.034391 0.084205 -0.72162 0.010159 -0.96722 Metals -0.29987 -0.23926 -0.10795 0.22903 0.309239 0.598301 -0.393391 0.20874 Services

63

^{*} Can be calculated for 12 economic sectors

Appendix B

Non-Tariff Measures Applied in Ukraine (used by Veronika Movchan, Institute of Economic research and Policy Consulting, Kyiv, to form the NTBs database)

- Compulsory certification of conformity to standards
- Licensing of selected export and import activities
- Minimum value requirement (in effect from 1996-2000)
- Preliminary customs declaration
- Ecological control
- Sanitary control
- Phytosanitary control
- Veterinary control
- Permits for medicine imports
- State procurement regulations with regard to imports
- Customs value calculation inquiry (checking declared value for the purpose of tax and tariff calculations, in
- effect from 1996-2000)
- Customs controls
- Verification of contract price and origin for selected commodities
- Control over selected types of technology and equipment, such as energy-saving equipment, meteorological
- equipment, nuclear materials, weapons materials, materials that could be used to produce chemical and
- bacteriological weapons, and equipment for clandestine information gathering.

The augmented weighted index of NTBs (INB) is constructed as follows (see Movchan 2003):

$$INB_{j} = \frac{\sum_{i=1}^{I} NB_{ij} \times IM_{j}}{\sum_{j=1}^{J} IM_{j}}$$

where INBj is an index of non-tariff barriers for commodity group j, NBij is an indicator of application of non-tariff barrier i to commodity group j, IMj is the value of commodity group j; i=1,...,I, j=1,...,J, where I is a number of non-tariff barriers incorporated in the study, and J is the total number of groups of commodities.

The *NBjj* is calculated as follows:

$$NB_{ij} = \begin{cases} 0\\ 25\\ 50\\ 75\\ 100 \end{cases}$$

where zero means absence of the non-tariff barrier i for commodity j, and 100 is a maximum value of severity of non-tariff barrier i for commodity j.