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How to Stabilise the Economy of Ukraine

Amat Adarov, Vasily Astrov, Peter Havlik, Gábor Hunya,
Michael Landesmann and Leon Podkaminer

The Vienna Institute for International Economic Studies
Wiener Institut für Internationale Wirtschaftsvergleiche

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FINAL REPORT, APRIL 2015

With contributions by

AMAT ADAROV
VASILY ASTROV
PETER HAVLIK
GÁBOR HUNYA
MICHAEL LANDESMANN
LEON PODKAMINER

and statistical support of

Alexandra Bykova, Roman Römisch and Galina Vasaros

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Executive summary

In 2015, the military conflict in the Donbas region, the erosion of incomes on account of galloping inflation and the unrelenting collapse of trade and investment will plunge Ukraine's economy into deep recession for the second year running. Even under the assumption that the current ceasefire holds, an economic recovery can hardly be expected before 2017. Dismal recovery prospects, an ever-weakening currency and massive fiscal deficits have translated into insolvency of the government. Negotiations over restructuring of privately held sovereign external debt have been launched and are to be seen as part of the new IMF 'rescue' package approved in March 2015.

Economic stabilisation and return to sustainable and inclusive economic growth will be impossible without a resolution of the military conflict, which should be the first priority for the policy-makers. Restoration of normal economic activities in the affected territories will also require massive public investment, and the EU could potentially play a crucial role here – ideally by designing a sort of 'Marshall Plan' for Ukraine. Under the crucial assumption that peace is restored, wiiw has elaborated a number of policy recommendations which would be important to follow to reach the above goals.

- › *The current flexible exchange rate is clearly inappropriate to achieve macroeconomic stabilisation and should be replaced with a more stable exchange rate regime, which could serve as a 'nominal anchor' of inflationary expectations. However, to ensure its credibility, the National Bank would need a fairly high level of foreign exchange reserves, possibly requiring an extra USD 15-20 billion to this end.*
- › *The currently implemented front-loaded energy tariff hikes are welcome per se, but will do little to advance the badly needed improvements in energy efficiency, unless they are accompanied by parallel subsidisation of energy-saving investments, such as the installation of heating metres and the insulation of residential buildings. Such subsidisation should enjoy priority over fiscal consolidation targets.*
- › *A more balanced structure of government expenditures would require both more socially-oriented spending and higher public investments which are crucial for long-term growth prospects. In addition, preserving a welfare state could help preserve the badly needed public support for reforms. A shift in the spending priorities would imply among other things less spending on the military and also a substantially smaller burden of public debt service, possibly requiring larger debt 'haircuts' than those on the negotiating table at the moment.*

Despite some similarities, Poland's past experience can be currently used by Ukraine only to a limited degree: It is incorrect to assume that Poland's successful transition has been due to some simple trick (e.g. 'shock therapy') which could be easily replicated in Ukraine. The major Polish lesson is that economic prosperity came as a result of deep reforms of the legal and constitutional system which enjoyed broad support in society. In Poland, these reforms grew out of social and political conditions that are yet to emerge and consolidate in Ukraine.

It is widely acknowledged that the Ukrainian state has been captured by oligarchic interests which engendered widespread corruption. Successive oligarchy-controlled governments have failed to institute economic and institutional reforms (and of the state at large) in such a way as to create conditions conducive to the emergence of a more or less viable competitive and dynamic market economy. Arguably, as long as Ukraine is ruled by oligarchic interests, the chances of a successful major institutional and legal overhaul seem low.

Nevertheless, the inescapable institutional transformation of Ukraine could greatly benefit from a well-designed Western involvement, which could have several dimensions:

- › *Concerted efforts are necessary to strengthen non-violent civil society, independent media and non-government organisations.*
- › *The West should spare no effort in making transparent its disapproval of Ukraine's ruling elites' ways of doing politics (and business), thus contributing towards a change of their behaviour. Financial and material assistance should be rigidly tied to the progress on e.g. the legal system reforms (including monitoring their implementation), the severance of relationships between business and politics, proper taxation of oligarchic assets, and confiscation of illegally amassed wealth, including assets parked abroad.*
- › *In advocating specific economic policies, the West should be sensitive towards the social impact of austerity or 'shock' therapies that could make life of ordinary Ukrainians even more miserable and erode the necessary reform support.*

The integration process of Ukraine has been obstructed by a lack of clear domestic strategy as well as outside intervention. On the one hand, the implementation of the newly signed Association Agreement (including a Deep and Comprehensive Free Trade Area – AA/DCFTA) with the EU, related trade reorientation and competitiveness issues are among the most urgent challenges facing the Ukrainian economy. On the other hand, existing trade and specialisation patterns are hampered by disrupted relations with Russia: Despite the recent downturn, Russia is still Ukraine's single most important export partner, and its role as a source of imports is even more prominent (largely owing to energy). A number of important export positions of Ukraine depend predominantly on the Russian market, and their reorientation away from Russia will be difficult and costly. Trade disruptions with Russia affect above all Ukraine's machine-building sector located mostly in the eastern part of the country. Annual losses for Ukraine from the break-up of economic relations with Russia are estimated at USD 33 billion; the cumulated overall losses at USD 100 billion. Therefore, an – at least partial – restoration of trade linkages with Russia and the Russia-led Eurasian Economic Union (EEU) should continue to be one of Ukraine's trade policy goals.

Ukraine's position between the EU and the EEU and its nearly equal (yet asymmetric) dependence on both markets puts forward a challenge to look beyond the current conflict situation and explore how to maintain, expand and deepen its trade relations in both directions simultaneously. It is important for all parties to recognise that the two integration directions are not in principle mutually exclusive. A balanced trade policy could play an important role towards attracting investments and advancing modernisation. Regarding trade policy we therefore suggest the following:

- › *Macroeconomic stabilisation and the implementation of major institutional changes should be the immediate primary concern. Given limited financial resources and administrative capabilities, it is reasonable to consider a delay of the full implementation of the DCFTA and hence temporarily shield the fragile domestic market from the EU import competition, while still maintaining free-market access to the EU and the CISFTA, as currently arranged.*
- › *A long-run restructuring strategy concerning future areas of trade specialisation and competitiveness in the global and regional contexts should be elaborated, taking into account the EU integration challenges and opportunities. An industrial policy for the restructuring/conversion of sectors that are not likely to withstand competitive pressures and/or the potential loss of traditional markets also needs to be devised as an inherent part of the long-run economic development strategy.*
- › *For industries that are sensitive to EU technical requirements and market liberalisation (machinery, railway, chemicals, nuclear, and others) longer transition periods as regards approximation to the EU regulations should be negotiated in order to ensure orderly adjustment to a more competitive market environment.*
- › *A more constructive stance should be taken by Ukraine and the EU with regard to Russia's strategic position and concerns expressed in relation to the AA/DCFTA effects. Trilateral negotiations focusing on trade-related matters should be facilitated and decoupled to the extent possible from non-trade issues to ensure practical dialogue.*
- › *The objective of the trilateral negotiations should focus on the possibility of maintaining a preferential trade regime for Ukraine under the CISFTA framework. While membership in the EEU, which involves a customs union arrangement, is not compatible with the DCFTA, the CISFTA still remains a feasible option allowing for an optimal consensus for the three parties concerned.*
- › *Discussions concerning the feasibility, strategy and technical aspects of the hypothesised pan-European-Eurasian free trade area 'from Lisbon to Vladivostok' should be launched and transformed into a more consistent format, involving, besides the EU and Russia, other member states of the EEU and the CISFTA, as well as the Eurasian Economic Commission.*

FDI inflows – indispensable for economic restructuring and growth – have so far been meagre in Ukraine, when controlling for round-tripping Ukrainian capital. This puts forward the challenge of designing a business environment as well as specific FDI policies which are conducive towards reaching these goals. Such policies can be based on revamping previous initiatives and regulations as well as on existing recommendations by OECD and other international institutions.

Beyond improving the framework conditions which would make the country a less risky place for genuine investors, four main lines of actions need to be implemented as a coherent package to attract more and better FDI:

- › *Industrial/business parks can act as an incentive for attracting (foreign) investors, as they enable to start operations in a rather short period of time and under good infrastructure and operational conditions. Parks must provide clear ownership rights, good transport connections, abundant and reliable energy and water supply, and need the support of the local/regional administration. Especially*

the unutilised industrial land of state-owned enterprises could be used in this way. Oblasts and municipalities must have the legal authority and financial means to foster the establishment of such parks. Special economic zones are specific forms of business parks to attract investments, at least in a limited territory of the country. The government should initiate establishing special zones in border regions with the aim to attract export-processing investments.

- › *Granting a transparent contractual regime by the government to the investors in large projects can provide individually tailored packages of incentives. Contracts should guarantee investors' access to fair or even priority treatment by authorities in a transparent way.*
- › *Promotion of FDI spillovers is necessary to upgrade the absorption capacity of the local economy. Foreign-owned companies need support to create linkages with local companies, and local companies need support to meet the standards to become suppliers to foreign multinationals. Support may not necessarily mean a lot of money but care and communication on the part of authorities in fostering cluster development.*
- › *It is also necessary to revitalise the FDI agency InvestUkraine, preferably as an independent agency reporting to the prime minister. There are several successful investment promotion agencies in the new EU Member States, especially PALiZ in Poland and Czech Invest in the Czech Republic, which may serve as examples and provide support to the Ukrainian agency. Regional investment agencies in territorial-administrative units are necessary to help investors find the proper locations. This is another reason why the competences and autonomy of oblasts and municipalities need to be increased.*

Industrial policy has to recognise the new situation emerging from the current conflict: The 'industrial heartland' of Ukraine's economy is mostly in the east, its trade and production links were traditionally heavily dependent on Russia. This region has de facto been split into one part controlled by the separatists, with the other part also strongly affected by disruptions of linkages and the impact of the conflict on production and export activity.

The following would be the priorities for a successful industrial adjustment programme to the new situation:

- › *In the eastern regions there was a long-term neglect of investment and of modernisation of product programmes. Ownership is highly concentrated. This region will need the biggest support to facilitate a change in production and trade links which the current situation requires. Private investment will not easily be forthcoming unless major public support is given to invest into modernised transport infrastructure to encourage new production and trade linkages, and open up market structures with a properly functioning and decisive competition authority. It is unlikely that the challenge of new products and changed market orientation could be met without a strong attempt to make the region – over the medium run – attractive to FDI (see above).*
- › *The western regions are less affected by the conflict but have traditionally been much less industrialised and poorer. However, there is scope to encourage the development of a more diversified economic structure on the basis of existing agricultural activity, food-processing, wood-based and other light industries. In urban centres there is scope for a wider range of industrial and service*

activities. Cross-border production linkages with Central European economies should be encouraged; these were drivers for the setting-up of successful export platforms in Central European transition economies over the past 20 years. Black Sea regions have scope for tourism development as well as for other forms of agrarian exports.

- › *Technical assistance and transitory periods under the DCFTA as well as other supports (EIB, EBRD, etc.) should be used effectively to upgrade technical standards, improve energy efficiency, encourage cooperation with foreign partners to obtain better market access and improve product programmes and product quality to enhance export capacity.*
- › *Investment into new and improved transport routes are essential to support market reorientation, the necessary rebalancing of economic activity across Ukrainian regions and encourage new inter-regional and cross-border production and trade linkages.*
- › *Regional rebalancing, industrial modernisation and the problematic labour market situation require the support and setting-up of new training and retraining institutions as well as introducing incentive schemes to reduce out-migration and encourage return-migration of skilled young personnel.*

Introduction

The key reforms advancing Ukraine's economic transition from a planned to a market economy – macroeconomic stabilisation, price liberalisation and privatisation – were initiated already more than twenty years ago after the Soviet Union collapsed and the country gained independence. For all purposes, Ukraine can be now viewed as a market economy, albeit with distorted structure, vast inefficiencies and dysfunctional institutions. The reforms have so far failed to lay the foundations for sustainable economic growth, efficiency improvements and a marked improvement of living standards. Currently, Ukraine's GDP per capita is still only 65% of what it was on the eve of the break-up of the Soviet Union. With EUR 6,500 at PPP, it corresponds to a mere 23% of the EU average, making Ukraine the second poorest country in Europe (after Moldova and followed by Kosovo). On top of that, during the past twenty years, Ukraine's population has dropped by more than 5 million people, or about 10%. Thus, it would be not an exaggeration to say that Ukraine's development trajectory since its independence has been a big disappointment.

Clearly, Ukraine is in need of new reforms which would be consistently implemented and conducive towards reaching the goal of sustainable and inclusive long-term economic growth. Those will have to take place in circumstances of possibly prolonged internal conflict or instability combined with a rather strained macroeconomic situation, demanding institution-building and challenging conditions for trade and investment. Crucially, reforms cannot be imposed from outside, but need a broad domestic 'ownership' – not only at the central government but also at the local levels and in the society as a whole.

Recently there have been a number of economic reports on Ukraine, including by the IMF, the German Advisory Group and the Atlantic Council, to name just a few.¹ Nevertheless, a number of issues have received relatively little attention so far, e.g. the role of the Russian market for Ukraine's foreign trade or the potentially negative repercussions of the IMF package on the economy. Also, the issue to what extent Ukraine can draw on the earlier – both positive and negative – reform experiences of other Central, East and Southeast European (CESEE) countries, including the Balkans and the former Soviet republics, has remained largely unexplored so far.²

The present report is aimed at contributing to filling these gaps and is structured as follows. After providing an overview of Ukraine's current political and economic situation, it focuses on the analysis of four important aspects of the economy/economic policy, with the aim to elaborate policy recommendations based on the research findings. After presenting the political background in Chapter 1, Chapter 2 gives an overview of Ukraine's current macroeconomic developments and policy recommendations for stabilisation. Chapter 3 analyses what – and whether at all – Ukraine could learn from the experience of Poland, which is often seen as a clear 'success story' in its transition to the market economy. Chapter 4 deals with foreign trade relations of Ukraine, which is 'sandwiched' between

¹ wiiw published a study dealing with similar issues in 2010 – see Astrov et al. (2010).

² Earlier experience of the Central and East European countries could be particularly useful – see Havlik, Landesmann and Stehrer (2001), and Grinberg, Havlik and Havrylyshyn (2008).

the EU and Russia and exhibits highly asymmetric patterns of trade in both directions. Based on the analysis of trade specialisation patterns, it elaborates policy recommendations with respect to the directions of integration which would be optimal for the country. Chapter 5 analyses the recent trends in foreign direct investments (FDI) flows as well as applied FDI policy tools, and draws comparisons between Ukraine and Poland in this respect. Finally, Chapter 6 deals in depth with the structural and regional dimensions of the country's industrial sector and outlines potential industrial policy tools which could be applied to advance economic restructuring and modernisation.

1. Political background: conflict unfolding

In the West, the blame for the intra-Ukrainian conflict is usually attributed to Russia, particularly after the Russian annexation of Crimea in March 2014 and its subsequent interventions in eastern Ukraine. However, the responsibility for the dangerous escalation cannot be assigned solely to Russia: the conflict's history is much longer. The EU's misguided handling of the Ukrainian crisis – preceded by the ill-conceived Eastern Partnership (EaP) initiative which deliberately left out Russia – has also contributed to the conflict.³

The tug of war between Russia and the EU over Ukraine escalated in the second half of 2013, prior to the envisaged signature of the Association Agreement between Ukraine and the EU which included a Deep and Comprehensive Free Trade Area (AA/DCFTA). During the summer of 2013, both Russia and Ukraine were suddenly alerted by the potentially adverse economic consequences of AA/DCFTA signature after details of the planned agreement became public. Russia responded with a set of counter-measures, which included both 'sticks', such as imposing restrictions on imports from Ukraine and threatening with more, and 'carrots', such as granting Ukraine an extensive financial package on highly preferential terms and a gas price discount. The Russian moves proved partly effective: Ukraine's President Viktor Yanukovych announced the postponement of the AA/DCFTA signature just a few days before the Vilnius EaP Summit in November 2013 – a decision that sparked the first wave of protests in Ukraine. The rapid sequence of events that followed is well known: mass protests in Kyiv turning violent in February 2014, the failed mediation attempts between the protestors and the Yanukovych government (involving the foreign affairs ministers of France, Germany and Poland), the ousting of President Yanukovych and his flight to Russia on the very next day, and the controversial establishment of the new transitory government in Kyiv which was supported by the West but whose legitimacy was disputed in the eastern parts of Ukraine and Crimea, let alone Russia.

One of the first steps of the post-Maidan parliament was the attempt to deprive the Russian language of its official status in a number of Russian-speaking regions of eastern Ukraine and Crimea. Though the respective bill was never signed by the then acting President Oleksandr Turchynov, it sufficed to trigger mass protests in some of these regions, sparking the subsequent annexation of Crimea by Russia and the internal conflict in mainland Ukraine. In contrast to Crimea, where the 're-unification' with Russia proceeded without major confrontation, the anti-Maidan protests in Donbas as well as in Odesa (in southern Ukraine) turned violent, as the new government in Kyiv attempted to restore control over the rebellious regions by force, involving both regular military troops and freelance fighters, mostly from western Ukraine.

On 26 May 2014, Petro Poroshenko, an oligarch with business interests in food and media industries who had already served as economics minister under President Yanukovych, was elected Ukraine's president with a convincing majority vote. The vote was 'respected' by Russia but not recognised by separatists in Donbas; the latter had initiated referenda in which the majority voted in favour of secession from Ukraine (although the legitimacy of those referenda is at least questionable).

³ See Havlik (2013). The failure of EaP policies has recently been admitted even by the EU itself – see European Commission (2015).

Subsequently, the fighting escalated dramatically during the summer months before the separatist rebels found themselves on the losing side by the end of July 2014.⁴ However, they managed to initiate an impressive counter-offensive, almost certainly not without extensive help from Russia, and the Ukrainian army was overwhelmingly defeated in a crucial battle near Ilovaysk.

The military defeat near Ilovaysk paved the way for negotiations (with the intermediation of the OSCE and the EU) over a ceasefire and an overhaul of Ukraine's constitutional set-up, culminating in the signing of an agreement in Minsk in September 2014, meanwhile referred to as the 'Minsk-I' agreement. A law adopted subsequently by the Ukrainian parliament granted the insurgent Donbas extensive autonomy in a number of areas. However, the status of autonomy hardly represented a real 'carrot' for the separatist rebels who saw Donbas as fully independent from Ukraine or ideally as part of Russia. Neither was the support for the new law particularly strong among the Ukrainian nationalists who viewed the autonomy granted to Donbas as a defeat. Given the high degree of polarisation in the Ukrainian society, which the attempted compromise helped little to resolve, a resumption of fighting appeared to be only a question of time.

The re-escalation of the conflict was also helped by the snap parliamentary elections in October 2014 initiated by President Poroshenko. The elections brought a surprise success for the rival party of Prime Minister Arseniy Yatsenyuk, known as relatively 'hawkish' in its position in the Donbas conflict, and allowed him to retain his post.⁵ On the opposite side, an important destabilising factor has been the arbitrariness of borders controlled by the pro-Russian separatists (one-third of the Donbas territory and half of its population) by the time of the signing of the Minsk-I ceasefire agreement, coupled with strong pro-Russian sentiments in other Donbas territories which have been re-gained by government troops but were part of the self-proclaimed 'peoples' republics' back in summer 2014. The so-called 'Minsk-II' ceasefire agreement signed on 12 February 2015 hardly differed from the first agreement and did not put an end to the war, at least not immediately. On the contrary, fighting reportedly escalated and resulted in another major loss for the Ukrainian army near Debaltsevo. Whether the Minsk-II agreement will ultimately deliver the badly needed peace in Donbas remains to be seen.

All in all, it is clear that the Ukrainian government has overestimated its ability to resolve the conflict by force, to a large extent because Russia has apparently been providing crucial support to the separatists. Besides, poor financing and low fighting morale of the Ukrainian army, as well as the outright incompetence of its commandment have clearly played a role as well. Other military and paramilitary groupings such as the newly formed National Guard and the voluntary regiments, which are often sponsored from sources other than the government budget (above all by Ihor Kolomoyskyi, an oligarch and until March 2015 governor of the important Dnipropetrovsk region), have been generally much more efficient and at least prevented the spread of the separatist movement to other Russian-speaking provinces. However, in the medium term the existence of alternative troops potentially bears the risk of further loss of government control over the security situation in the country, which may easily slide into chaos.

⁴ Almost simultaneously, a tragic accident occurred on 17 July 2014 when the Malaysian Flight MH17 was shot down over the separatist-controlled territory, killing nearly 300 people.

⁵ With the 2004 constitution, enhancing the powers of the parliament and the prime minister, and re-installed in February 2014, the current power structure somewhat resembles the earlier fragile (and partly dysfunctional) Yushchenko-Tymoshenko 'ruling tandem'.

2. Macroeconomic situation and stabilisation challenges

REAL ECONOMY: DEEPENING RECESSION

In 2014, Ukraine's GDP contracted by 6.8% (Table 1), with economic dynamics progressively worsening from quarter to quarter. In the first quarter of 2014, the GDP decline was at 1.2% (year-on-year) still rather modest; however, it accelerated to 4.5% in the second quarter, 5.4% in the third quarter and a dramatic 14.8% in the fourth quarter. Starting from the second quarter, these figures do not cover Crimea and Sevastopol, and the figure for the fourth quarter also does not cover the eastern areas of Donbas which are controlled by the separatist rebels. Including the latter would certainly show an even deeper recession, since the war has destroyed a large part of the local production and transport capacities (more on that see below). Coal mining and the metals industry – both heavily concentrated in war-torn areas – were hit particularly hard: by 31% and 15%, respectively (in Ukraine as a whole), while machine-building, whose main export market is Russia, also reported a strong 21% decline. Apart from the weakening growth dynamics in Russia and the falling rouble, machine-building also suffered from the disruption of existing links in military-related production cooperation because of the export bans imposed by both countries, as well as Russia's import-substitution efforts. All in all, merchandise exports to Russia, which used to account for a quarter of Ukraine's exports in previous years, plummeted by a dramatic 35% last year (in US dollar terms).

Exports to the European Union increased by 12% in 2014, but could not offset the decline of exports to Russia and the rest of the world; all in all, Ukrainian merchandise exports as a whole dropped by 14%, according to balance-of-payments statistics. The increase in exports to the EU was largely thanks to the unilateral abolition by the EU of most trade barriers for imports from Ukraine in spring 2014, which benefited particularly agricultural products. This measure represented a first step towards the implementation of the Deep and Comprehensive Free Trade Area (DCFTA) with the EU – part of the broader Association Agreement. However, the implementation of other parts of the DCFTA agreement – such as the gradual abolition of tariffs on imports from the EU – has been put on hold at least until the end of 2015, partly at the insistence of Russia.⁶ This currently asymmetric arrangement is advantageous for Ukraine: it puts a brake on the influx of European goods into Ukraine, while Ukrainian exporters are able to benefit from zero import duties in the EU markets. On a negative note, the suspension of DCFTA implementation – which could potentially represent an important reform 'anchor' for Ukraine – means also a delay in the badly needed economic reforms and restructuring. However, the latter would only have a positive impact on economic performance if accompanied by inflows of FDI, and the latter is highly unlikely to come anyway as long as the conflict in Donbas and its future status remain unresolved, and the perceived risks of investing into Ukraine remain high.

⁶ It also meant that Russia did not formally revoke its free trade regime with Ukraine, although a number of trade barriers for Ukrainian goods were erected on an *ad hoc* basis (see more details in Chapter 4).

Table 1 / Ukraine: Selected Economic Indicators

	2010	2011	2012	2013	2014 ¹⁾	2015 Forecast	2016 Forecast	2017
Population, th pers., average	45,871	45,706	45,593	45,490	43,001	42,950	42,920	42,900
Gross domestic product, UAH bn, nom. ²⁾	1,121	1,349	1,459	1,505	1,567	2,100	2,400	2,590
annual change in % (real) ²⁾	4.1	5.4	0.2	0.0	-6.8	-5.0	0.0	1.8
GDP/capita (EUR at exchange rate)	2,300	2,700	3,100	3,100	2,300	.	.	.
GDP/capita (EUR at PPP)	5,600	6,500	6,700	6,700	6,500	.	.	.
Consumption of households, UAH bn, nom. ²⁾	718	906	1,002	1,100	1,108	.	.	.
annual change in % (real) ²⁾	7.0	15.7	8.4	7.7	-9.6	-4.5	-0.5	2.0
Gross fixed capital form., UAH bn, nom. ²⁾	202	248	283	273	219	.	.	.
annual change in % (real) ²⁾	3.4	6.5	3.3	-6.5	-23.0	-10.0	-5.0	5.0
Gross industrial production ³⁾								
annual change in % (real)	11.2	8.0	-0.5	-4.3	-10.1	-6.0	0.0	3.0
Gross agricultural production								
annual change in % (real)	-1.5	19.9	-4.5	13.7	2.8	.	.	.
Construction output ⁴⁾								
annual change in % (real)	-5.4	18.6	-8.3	-14.5	-20.4	.	.	.
Employed persons, LFS, th, average	20,266	20,324	20,354	20,404	18,073	17,800	17,600	17,600
annual change in %	0.4	0.3	0.1	0.2	-6.4	-1.5	-1.1	0.0
Unemployed persons, LFS, th, average	1,786	1,733	1,657	1,577	1,848	2,200	2,400	2,400
Unemployment rate, LFS, in %, average	8.1	7.9	7.5	7.2	9.3	11.0	12.0	12.0
Reg. unemployment rate, in %, end of period ⁵⁾	2.0	1.8	1.8	1.8	1.7	.	.	.
Average monthly gross wages, UAH ⁶⁾	2,239	2,633	3,026	3,265	3,480	.	.	.
annual change in % (real, gross)	9.7	8.9	14.3	8.2	-5.4	.	.	.
annual change in % (real, net)	10.2	8.7	14.4	8.2	-6.5	.	.	.
Consumer prices, % p.a.	9.4	8.0	0.6	-0.3	12.1	41.0	14.5	6.0
Producer prices in industry, % p.a. ⁷⁾	20.9	19.0	3.7	-0.1	17.1	35.0	10.0	5.0
General government budget, nat. def., % of GDP								
Revenues	28.1	29.5	30.5	29.4	29.1	.	.	.
Expenditures	33.8	31.2	34.0	33.6	33.7	.	.	.
Deficit (-) / surplus (+) ⁸⁾	-5.8	-1.7	-3.5	-4.2	-4.6	-5.5	-5.0	-5.0
Public debt, nat. def., % of GDP	38.6	35.1	35.3	38.8	70.2	115.0	125.0	121.0
Central bank policy rate, % p.a., end of period ⁹⁾	7.75	7.75	7.50	6.50	14.00	.	.	.
Current account, EUR mn ¹⁰⁾	-2,272	-7,351	-11,153	-12,441	-4,033	-1,500	-1,000	-1,000
Current account, % of GDP	-2.1	-6.0	-7.9	-8.8	-4.0	-2.4	-1.4	-1.4
Exports of goods, BOP, EUR mn ¹⁰⁾	35,636	44,812	50,127	44,518	38,235	36,300	37,000	37,700
annual change in %	33.9	25.7	11.9	-11.2	-14.1	-5.0	2.0	2.0
Imports of goods, BOP, EUR mn ¹⁰⁾	42,866	57,764	67,124	61,185	44,017	39,600	39,600	40,400
annual change in %	0.8	34.8	16.2	-8.8	-28.1	-10.0	0.0	2.0
Exports of services, BOP, EUR mn ¹⁰⁾	13,808	15,278	17,186	17,032	11,179	10,100	10,100	10,600
annual change in %	28.9	10.6	12.5	-0.9	-34.4	-10.0	0.0	5.0
Imports of services, BOP, EUR mn ¹⁰⁾	9,577	9,613	11,351	12,141	9,437	8,500	8,500	8,900
annual change in %	15.6	0.4	18.1	7.0	-22.3	-10.0	0.0	5.0
FDI inflow (liabilities), EUR mn ¹⁰⁾	4,860	5,177	6,360	3,396	641	300	1,000	1,500
FDI outflow (assets), EUR mn ¹⁰⁾	521	138	762	324	414	300	300	500
Gross reserves of NB excl. gold, EUR mn	25,096	23,593	17,186	13,592	5,429	.	.	.
Gross external debt, EUR mn ¹⁰⁾	88,363	97,940	102,120	102,852	103,556	.	.	.
Gross external debt, % of GDP	83.1	80.5	71.9	72.5	103.9	.	.	.
Average exchange rate UAH/EUR	10.533	11.092	10.271	10.612	15.716	33.0	34.0	35.0
Purchasing power parity UAH/EUR ¹¹⁾	4.328	4.561	4.751	4.922	5.617	.	.	.

Note: From 2014 data and forecasts excluding Crimea and Sevastopol and, for GDP and its components, parts of Donbas.

1) Preliminary and wiiw estimates. - 2) According to SNA'08. - 3) From 2011 according to NACE Rev. 2 including E (water supply, sewerage, waste management, remediation). - 4) From 2011 according to NACE Rev. 2. - 5) In % of working-age population. - 6) Enterprises with 10 and more employees. - 7) Domestic output prices. From 2013 according to NACE Rev. 2. - 8) Without transfers to Naftohaz and costs of bank recapitalisation. - 9) Discount rate of NB. - 10) Converted from USD and based on BOP 6th edition. - 11) wiiw estimates based on the 2011 International Comparison Project benchmark.

Source: wiiw Databases incorporating national statistics. Forecasts by wiiw.

<http://data.wiiw.ac.at/annual-database.html>

Indeed, the military conflict in Donbas has obviously had a detrimental effect on the already poor investment climate: fixed investments plunged by 23% and FDI inflows were negligibly low last year. Strong capital flight has also been a main reason behind the free fall of the hryvnia. Currency depreciation and energy tariff hikes fuelled consumer price inflation, which by February 2015 soared to 34.5% on an annual basis and eroded the purchasing power of households: on average, net wages dropped by 6.5% in real terms last year. At the same time, credits to households fell by 16% (after adjusting for the valuation effect of forex-denominated loans) amidst strong deposit outflows and the overall gloomy economic prospects. All this weighed heavily on private consumption, which fell by nearly 10% last year. On a positive note, the combined effect of currency depreciation and falling domestic demand contributed to a sharp drop in imports of goods and services by 27% in US dollar terms – much more than that of exports (-20%), resulting in vastly improved trade and current accounts and a strongly positive contribution of real net exports to GDP growth.

Economic prospects remain crucially dependent on a lasting peace settlement of the Donbas conflict. For 2015, another recession – in the tune of at least 5% – will not be avoided, with substantial risks on the downside, and recovery can hardly be expected before 2017. Among other things, the ongoing war deters the inflow of foreign investments, which are badly needed to modernise the economy and finance the costly implementation of EU technical standards and numerous other regulations ('acquis') within the framework of the newly signed – but temporarily suspended until January 2016 – DCFTA agreement with the EU. It is also unlikely that Ukraine's export sector will be able to take advantage of the highly competitive exchange rate, given that part of the production and transportation capacities are physically destroyed and trade with Russia remains severely curtailed, while an increase in manufacturing exports to the EU is conditional on improved competitiveness, including the costly implementation of EU standards as envisaged in the DCFTA agreement – both possible only in the medium and longer run. Important exceptions to this may be agriculture and parts of the food processing industry, which are largely located outside the conflict zone and have been able to benefit to some extent from the newly granted market access for their products by the EU.

ECONOMIC LOSSES DUE TO WAR IN DONBAS AND SECESSION OF CRIMEA

The Donetsk and Luhansk eastern provinces – commonly referred to as Donbas – are located in the easternmost part of Ukraine and have a combined territory of 53 thousand square kilometres and a pre-conflict population of 6.5 million people. Home to coal mining and metallurgy, Donbas has traditionally been Ukraine's industrial heartland, accounting for 16% of GDP and a quarter of exports (Figure 1).⁷ The Donetsk region was statistically the second richest in Ukraine in per capita GDP terms behind the capital city Kyiv (Figure 2). Despite its relatively high development level (by Ukrainian standards), Donbas was however a net recipient of fiscal transfers from Kyiv, largely thanks to coal mining subsidies.⁸

In the first months of the conflict, it was primarily local small and medium-sized businesses which suffered the most. However, as the civil war was gaining momentum, the big industrial enterprises which form the backbone of the Donbas economy, such as those in the metals and chemicals sectors, became increasingly affected as well. In July 2014, statistics reported for the first time huge drops in industrial production in both provinces, which only deepened during the subsequent months. According to official

⁷ See also Chapter 6 of the present report.

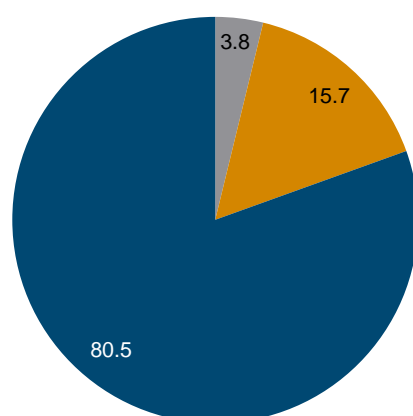
⁸ Anecdotal evidence suggests however that these subsidies were allocated not for the purpose of covering the losses of coal mines, many of which were in fact profitable, but rather represented hidden budget support to oligarchs who controlled a large part of mines and were close to former president Viktor Yanukovich.

(certainly incomplete) statistics, in 2014 industrial output plunged by over 30% in Donetsk and more than 40% in Luhansk, largely accounting for the 11% decline in Ukraine as a whole. Apart from fighting, the most important factor behind the halt in production has been damages to infrastructure, notably railway connections and electricity supply. For instance, 70% of coal mines have reportedly ceased operation because of electricity shortages and related flooding, although the lack of crucial inputs such as explosives played a role as well. The split of large parts of Donbas from the rest of Ukraine has also resulted in a disruption of production links, particularly in the important metals industry. Steel mills located in the rest of Ukraine have found themselves short of coal supplies, which used to come from mines in Donbas, and have been forced to switch to coal imported from elsewhere, notably South Africa. Conversely, steel mills in the rebel areas are reportedly lacking iron ore, which largely comes from the central regions of Ukraine.

Figure 1 / Weight of Crimea, Sevastopol and Donbas in Ukraine's GDP and exports

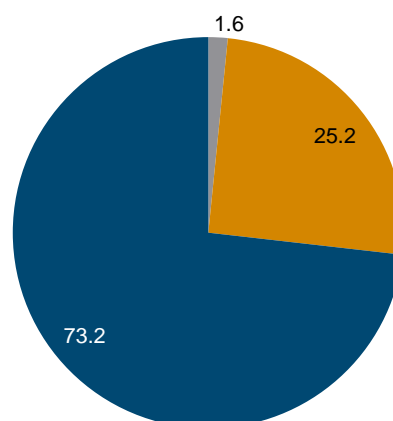
a. Weight in GDP, 2012

■ Crimea & Sevastopol ■ Donbas ■ Rest of Ukraine



b. Weight in goods exports, 2013

■ Crimea & Sevastopol ■ Donbas ■ Rest of Ukraine



Note: Donbas encompasses Donetsk and Luhansk regions.

Source: wiiw based on national statistics (see also section 6 for more detailed regional data).

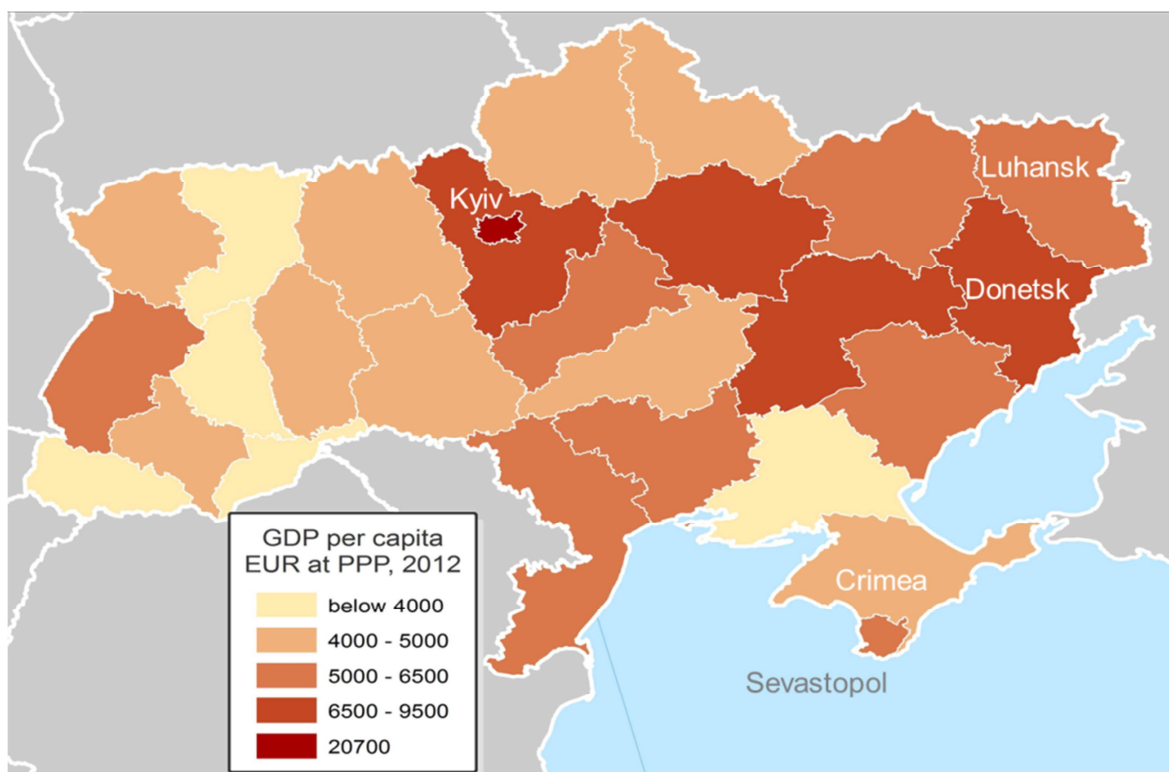
According to the most recent USAID estimate which was announced by Prime Minister Yatsenyuk on 27 February 2015, the war-related damages in Donbas amount to some USD 1.5 billion.⁹ However, this figure only covers territories which are now under Kyiv's control. Including areas controlled by the separatists would certainly yield a much higher estimate. A more realistic estimate was provided in autumn 2014 by the head of Ukraine's Union of Industrialists and Entrepreneurs Anatoliy Kinakh: USD 7-8 billion. However, even this figure underestimates the true extent of the damage incurred, because the resumption of fighting which took place in January 2015 entailed further losses. Taking into account the most recent intense fights (notably in Debaltsevo and the Donetsk airport), the cumulated war-related damage to infrastructure in Donbas has probably reached by now some USD 10 billion, corresponding to about 8% of Ukraine's GDP in 2014. Officially, reported damages include some 10 thousand apartment buildings, 1,080 objects of energy infrastructure, 1,514 railway infrastructure facilities, 1,561 km of public roads, 33 bridges, and 28 air traffic control facilities.¹⁰ All in all, according to

⁹ <http://forbes.ua/news/1389580-ubytki-ot-voiny-sostavlyayut-15-mlrd>.

¹⁰ Lubkivsky (2015). It is not clear however to what degree the Ukrainian authorities are able to assess the extent of the damage on the territories which are not under their control.

official estimates, the military conflict in Donbas reduced Ukraine's GDP by 2.5 pp last year, including 1.9 pp due to the decline in the Donetsk and Luhansk regions and another 0.6 pp due to contagion effects.¹¹

Figure 2 / Gross regional product per capita in 2012, in EUR at PPP



Note: Purchasing power parity (PPP) is wiiw estimate based on the 2011 International Comparison Project benchmark, and is assumed to be the same across regions.

Source: Own calculations based on data from the State Statistics Service of Ukraine.

The destruction of production and transportation capacities in the region means that in the short run, up to 1.8 million people in Donbas may stay unemployed, according to official estimates. In the longer run, however, the problem may well be the opposite: labour shortages due to the high number of refugees, many of whom may not come back. By the latest count, almost 2 million people, or nearly one-third of the Donbas population, have left the region since the outbreak of the conflict, including nearly one million registered as 'internally displaced' in other parts of Ukraine (according to Ukraine's Ministry of Social Policy) and up to 900 thousand who fled to other countries, mostly to Russia.¹²

By way of contrast, the annexation of Crimea and Sevastopol (a port city which constituted a separate administrative entity) by Russia entailed much smaller economic losses for Ukraine. The two provinces have a combined population of 2.4 million, or 5% of Ukraine's total, while their economic weight was even lower: 4% of GDP and only 2% of exports of goods and services. Thus, Crimea and Sevastopol were under-performing regions even by Ukrainian (rather low) standards: their GDP per capita was lower than the national average, and both provinces were chronically net recipients of fiscal transfers

¹¹ Rashkovan (2015).

¹² Estimates with respect to the number of Donbas refugees who fled to other countries differ by a wide margin.

from Kyiv.¹³ For both regions, the takeover by Russia, which is on average three times richer than Ukraine, had among other things a clear economic attraction, and made them eligible for transfers of much larger magnitude than those received from Kyiv – not to speak of the potential for increased investments into infrastructure, including the planned construction of a bridge from mainland Russia. In turn, for Ukraine the takeover of both regions by Russia meant that the government no longer needs to subsidise them, which has been a modest relief to the central government budget.

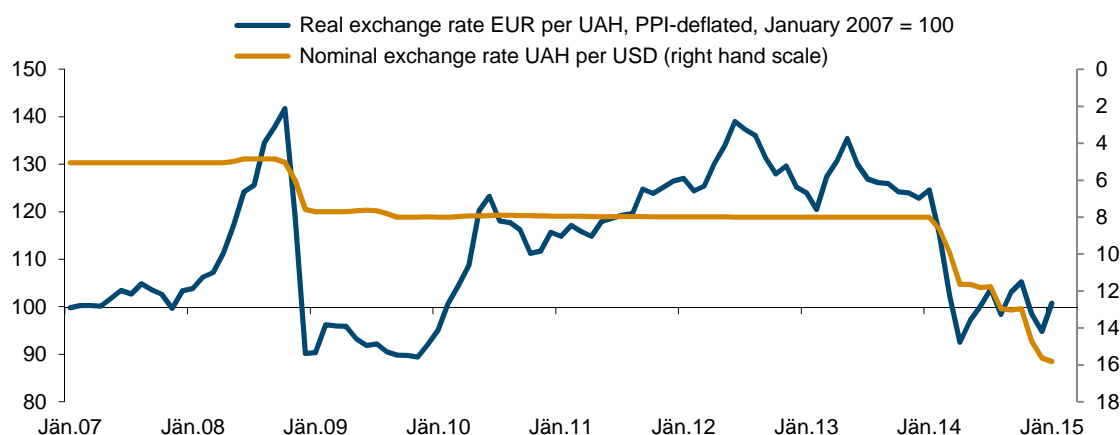
It is however clear that, irrespective of the above-mentioned minor positive effects for the budget, the departure of Crimea and Sevastopol has diminished Ukraine's economic potential, although the precise magnitude of related losses is difficult to quantify. Apart from the unique sub-tropical climate on the southern Black Sea Riviera and related tourist facilities, the region features some industrial assets (including a titanium plant owned by Dmytro Firtash) and port facilities, 40% of Ukraine's ships and boats exports, as well as 6% of gas and 16% of oil deposits (off-shore) – even if their recovery is rather expensive for geological reasons.

FLEXIBLE EXCHANGE RATE A BIG DISAPPOINTMENT

Under the leadership of former president Yanukovich, Ukraine used to have a fixed exchange rate regime, with the hryvnia pegged to the US dollar at a fixed rate of 8 UAH/USD. Because of the relatively higher domestic inflation, this arrangement led over time to increasing currency overvaluation (see Figure 3). In addition, the problem was magnified by the fact that Ukraine's terms of trade suffered on account of depressed world prices of steel (its main export item until recently), while the fixed exchange rate could not adjust accordingly and 'absorb' this negative terms-of-trade shock, i.e. render the economy to become more competitive. The result of this policy was mounting current account deficits, which increased from 2% of GDP in 2010 to nearly 9% in 2013 (Figure 4). Since those deficits were not fully offset by net capital inflows, the National Bank of Ukraine (NBU) was forced to sell its reserves in order to defend the exchange rate, so that their stock in relation to GDP more than halved between 2010 and 2013.

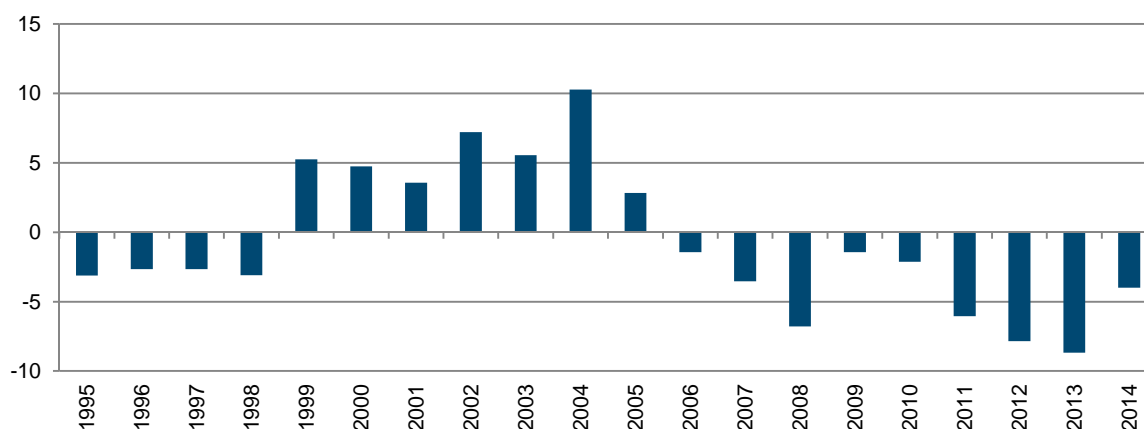
The sharp increase in political and economic uncertainty following the 'Maidan revolution' led to unprecedented capital outflows from Ukraine: in 2014, they totalled USD 8 billion, USD 2.6 billion of which represented purchases of foreign currency by b. In this new macroeconomic environment, the previous fixed peg could no longer be defended, and the NBU switched to a flexible exchange rate regime – partly also under pressure from the IMF, and resulting in a subsequent free fall of the hryvnia. During the year following the Maidan revolution, the hryvnia lost around three-quarters of its value, falling from 8 to 32 UAH/USD.

¹³ The low official GDP figures may however also reflect the extent of the 'shadow economy' which is likely to be pronounced given the region's reliance on tourism. The estimates of the extent of the shadow economy for Ukraine as a whole generally range between 40% and 50% of GDP.

Figure 3 / Nominal and real exchange rates, 2007-2015

Note: Values more than 100 indicate real appreciation against January 2007.

Source: wiiw Monthly database incorporating national statistics.

Figure 4 / Current account in % of GDP, 1995-2014

Source: wiiw Annual Database incorporating national statistics.

For various reasons, the NBU has been however trying to limit the scope of currency depreciation. First, depreciation is fuelling inflation via the increased price of imported goods. Second, it is jeopardising the stability of the banking system because of the latter's high dollarisation level. Despite the near-ban on lending in foreign currency imposed during the crisis of 2008-2009, by the end of 2013 foreign currency loans still accounted for 32% of total loans extended to households and 35% of those to businesses (loans denominated mostly in US dollars; other currencies play only a marginal role). The steep hryvnia depreciation has increased the debt burden on those borrowers and, because of the rising non-performing loans, has become a problem for banks as well.¹⁴ Finally, depreciation has also affected the dynamics of public debt, more than half of which is denominated in foreign currency. During 2014, public debt stock soared by over 30 percentage points (pp) of GDP (from 39% to 70%), of which more than 20 pp was solely on account of currency depreciation, according to wiiw calculations.

¹⁴ Because of the valuation effect of currency depreciation, which inflated the value of dollar credits in national currency terms, the share of foreign currency loans jumped dramatically in the course of 2014: to 43% for households and 48% for businesses.

In order to put a brake on currency depreciation, the NBU has resorted to a range of measures, including a further tightening of monetary policy¹⁵ and a number of administrative restrictions of the foreign exchange market, including a 100% surrender requirement for the incoming foreign exchange (later reduced to 75%) and several steps aimed at curbing the foreign exchange demand. However, in reality the choice of instruments at NBU's disposal has been very limited: official reserves are already at a critically low level of USD 5.6 billion (covering just one month of imports), interest rate hikes hardly provide an incentive to invest into a war-torn country, while the imposed administrative measures have only resulted in growing currency shortages and the emergence of a vast 'shadow' market for foreign exchange.¹⁶ In addition, the foreign exchange market continues to be rather 'thin', with only a few currency speculators able to generate substantial exchange rate fluctuations – a task made nowadays particularly easy because of the military conflict and the related 'bearish' market sentiments. The formally adopted 'inflation targeting' which in theory accompanies a flexible exchange rate regime remains an empty slogan, with inflation rates meanwhile exceeding 30% p.a. and the ineffectiveness of traditional monetary policy instruments such as interest rates.

All in all, Ukraine continues to be critically dependent on foreign emergency assistance, the bulk of it coming from the IMF. Last year, Ukraine received USD 4.6 billion as part of the USD 17 billion Stand-by Arrangement (SBA) agreed with the IMF in April 2014, as well as a total of another USD 4.5 billion in other multilateral and bilateral loans and credit guarantees, such as from the World Bank, the EBRD, the EU, the United States and Japan.¹⁷ Upon its inception, the IMF programme implicitly assumed that the country's balance-of-payments (and fiscal) problems were those of liquidity rather than solvency: economic recovery and currency stabilisation were expected to enable external debt repayment in the longer run.¹⁸ This assumption – arguably justified at that time – looks now increasingly unrealistic, as economic recovery is not in sight, and the hryvnia is likely to depreciate even more, while high defence spending continues to hamper budget consolidation. Rising concerns over public debt sustainability are also pushing upwards the yields on government Eurobonds; the latter stand on average at 7.1% p.a.¹⁹ – much higher than the GDP growth rate in US dollar terms (which is negative), thus contributing towards the debt to GDP ratio rising still further and sovereign default becoming a 'self-fulfilling prophecy'.

The new IMF lending arrangement to Ukraine approved on 11 March 2015 – a four-year Extended Fund Facility (EFF) worth USD 17.5 billion, which replaced the earlier SBA package – should be seen as recognition of the solvency problems the country is facing. It is only USD 5 billion larger in volume than the funds outstanding in the framework of the SBA (USD 12.5 billion); in addition, these funds are to be disbursed over a much longer period: four years instead of one. On the other hand, the IMF package is to be supplemented with some USD 8 billion worth of net disbursements from other multilateral and bilateral lenders (especially the United States and the EU, but also from the World Bank, EBRD, and EIB), which will bring the size of the total financial package to around USD 25 billion over the next four

¹⁵ The NBU key policy rate (discount rate) was hiked five times over the past year, bringing it to 30% p.a.

¹⁶ On 5 February 2015, the exchange rates were unified, resulting in another massive depreciation of the hryvnia. However, at the beginning of March, extensive administrative controls were re-imposed once again, bringing about a (likely temporary) recovery of the *official* exchange rate to levels around 23 UAH/USD by the time of finalising this report (end-March 2015).

¹⁷ The net inflows of IMF funds during this period amounted however to less than USD 1 billion, since the bulk of the newly arrived funds were used to repay old IMF credits.

¹⁸ Several authors, such as Schadler (2014) and Lachman (2015), argue that the IMF projections underlying its decision to extend an SBA to Ukraine were heavily skewed towards optimism from the very beginning.

¹⁹ <http://forbes.ua/news/1391410-mvf-poka-ne-reshil-yavlyatsya-li-dolg-ukrainy-pered-rf-oficialnym>

years. Still, these funds will be almost certainly not enough to meet Ukraine's external financing requirement, which in 2015 alone is projected by wiiw at approximately USD 15 billion – see Box 1.

BOX 1 / ESTIMATING UKRAINE'S EXTERNAL FINANCING REQUIREMENT FOR 2015

Projected current account deficit: USD 1.7 billion

Projected FDI inflow: 0

External debt service of government: USD 7.7 billion

External debt service of private sector²⁰: USD 8.1 billion

Projected purchases of foreign currency by households: USD 1 billion

Required replenishment of NBU's foreign reserves²¹: USD 10.4 billion

Minus: Expected inflows from the IMF under the newly approved EFF²²: - USD 10 billion

Expected inflows from other multilateral and bilateral lenders under EFF: - USD 3.5 billion

Total: ~ USD 15 billion

Source: NBU, IMF (2015), SP Advisors (2015), wiiw estimates.

Therefore, the new IMF package explicitly assumes partial restructuring of *privately held* sovereign foreign debt (i.e. debt owed to the London Club of creditors), which represents around half of the total and stands at some USD 18 billion, including USD 3 billion owed to Russia.²³ Overall, such restructuring – diplomatically referred to by the IMF as 'debt operations' – should save Ukraine USD 15 billion in debt payments over the entire period 2015-2018; this year alone, USD 5.2 billion is to be saved this way (IMF, 2015). Negotiations over debt restructuring have already started, and will likely lead to a reduction in interest payments and principal, as well as maturity extension up to 10-15 years on the remaining debt (BNP Paribas, 2015). According to some estimates, about 40% of the debt may be written off as a result, with the US-based fund Franklin Templeton – the largest single private holder of Ukraine's sovereign debt worth some USD 7 billion – poised to lose the most.²⁴ However, given Ukraine's external financial requirements (see Box 1), even this impressive amount of debt restructuring which is envisaged by the IMF is probably an under-estimate.

FISCAL POLICY: DEFENCE SPENDING OFFSETS IMF-IMPOSED AUSTERITY

In 2014, both revenues and expenditures of the general government were nearly stagnant (+3% nominally, Table 2), which implied a 10% drop in real terms. This appears to be well in line with the

²⁰ Includes both the corporate and the banking sector, assuming an 85% rollover ratio of existing credit liabilities.

²¹ Amount required for replenishing NBU's foreign exchange reserves from the current level (USD 5.6 billion as of end-February 2015) to a level covering three months of imports (USD 16 billion).

²² Ukraine already received USD 5 billion under the EFF programme in March 2015.

²³ This debt owed to Russia's National Welfare Fund is held in the form of Eurobonds, giving rise to controversies whether it should be treated as official or rather as private debt.

²⁴ *Financial Times*, 'Contrarian US investor with \$7 bn of debt stands to lose most if Kiev imposes haircuts', 12 February 2015, p. 3. Other large holders of Ukrainian debt reportedly include i.a. BlackRock, Allianz, and Fidelity.

stated government strategy (partly inspired by the IMF) to reduce the role of the state in the economy. However, the almost identical dynamics of revenues and expenditures last year suggests that the declared target of budget consolidation has not been met. Although the conditionalities attached to the IMF loans officially require budget austerity, in practice the latter has been offset by the ballooning military spending which was (seemingly) tolerated by the IMF. As a result, the government deficit as a percentage of GDP even increased somewhat: from 4.2% of GDP in 2013 to 4.6% of GDP last year – see Table 1.²⁵

Table 2 / General government budget, 2013-2014

	UAH billion		2014, as % of 2013
	2013	2014	
Revenues	442.8	455.9	103.0
Income tax	72.2	75.2	104.2
Corporate profit tax	55.0	40.2	73.1
Value-added tax	181.7	189.2	104.1
Value-added tax refunded	-53.4	-50.2	94.0
Excise tax on domestically-produced goods	27.7	28.2	101.9
Excise tax on imported goods	8.9	16.9	188.4
Royalties on mineral resources	14.2	19.6	137.9
Royalties on land	12.8	12.1	94.4
Import customs duties	13.3	12.4	93.4
NBU profits	28.3	22.8	80.6
Own revenues of budgetary institutions	37.9	31.5	83.2
Expenditures	505.8	523.0	103.4
State administration (excl. debt service)	28.5	27.4	96.1
Debt service	33.2	49.4	149.0
Defence	14.8	27.4	184.4
Public order, security and judiciary	39.4	44.9	113.8
Economic activity	50.8	43.6	86.0
Environmental protection	5.6	3.5	62.1
Housing and communal services	7.7	17.8	231.1
Health care	61.6	57.0	92.7
Culture, arts and sports	13.7	13.9	101.4
Education	105.5	100.1	94.9
Social security and welfare	145.1	138.0	95.1
Credits	0.5	5.0	-
Credits taken	6.1	6.8	-
Credits repaid	-5.6	-1.9	-
Budget balance ('+' deficit, '-' surplus), incl.	63.6	72.0	-
Issued bonds to compensate local budgets for the difference in tariffs	-	11.1	-
Issued bonds for the purpose of VAT refunds requested prior to January 1, 2014	-	6.9	-
Budget balance ('+' deficit, '-' surplus) in comparable terms (w/o issued bonds)	63.6	54.1	-

Source: Ministry of Finance

On the revenue side, tax collection was crucially helped by a spike in inflation which offset the negative impact of the recession, as well as the hikes in regulated prices and excise taxes on alcohol and tobacco implemented as part of the austerity package. Also, property taxes and royalties on the extraction of natural resources were raised, and the (nearly) 'flat' tax regime for personal incomes made more

²⁵ These figures do not include the substantial quasi-fiscal deficits – more on that see below.

progressive, albeit with thresholds set at rather high levels. In addition, state revenues benefited from the 1.5% 'war' payroll tax introduced from August 2014 (and prolonged for 2015).

Table 2 also reveals a marked shift in the structure of government expenditures in 2014. The two biggest expenditure items – social payments and spending on education – were cut by 5% and spending on health by 7% in nominal terms, implying a reduction by up to 20% in real terms. Among the austerity measures implemented in this vein were a 'freeze' of the minimum wage, a 10% reduction in the number of civil servants, and cuts in some of civil servants' pensions and privileges. The secession of the net budget transfer recipients Crimea and Sevastopol, as well as the suspension of pensions and other transfers to the rebel areas in Donbas implemented in autumn 2014 have contributed towards a reduction of government expenditures as well.²⁶ Allocations to the 'national economy' were reduced by 14%, with a strong emphasis on cuts in capital spending. A large part of funds saved in this way were channelled to pay interest on the public debt (+49%) and for military purposes: defence spending increased by 84% (albeit starting from a rather low basis) and amounted to some UAH 28 billion (1.8% of GDP).²⁷

Following the latest IMF recommendations, the amended central government budget for 2015 targets a somewhat lower deficit of 4.1% of GDP. However, attaining even this (seemingly moderate) target under conditions of a severe economic recession would require a sizeable consolidation effort of 7.4% of GDP, of which 3.3 pp is to be achieved thanks to higher budget revenues, and 4.1 pp due to expenditure cuts (in real terms). Thus, the extent of fiscal consolidation required from Ukraine by the IMF (not taking into account the reduction in energy subsidies – see below) exceeds that in Portugal, Italy and Spain in 2011-2013 (5-7% of GDP), although it is somewhat lower than the one implemented in Greece (8-9%). Judging from these countries' experience, the IMF assumption with respect to the size of the fiscal multiplier in Ukraine is probably over-optimistic,²⁸ and the recessionary impact of government austerity on the real economy may turn out to be much higher than anticipated, potentially resulting in GDP falling by up to 10% this year.²⁹

The growth of government revenues is projected at 32% in nominal terms – roughly in line with inflation, and notwithstanding the severe economic downturn. The government reckons that tax collection should benefit from the newly enacted comprehensive tax reform: as of January 2015, the tax system has been streamlined and the number of taxes reduced from 22 to 9, while a drastic lowering of social security contributions and a generous tax amnesty are hoped to encourage the 'de-shadowing' of the economy. In addition, government revenues should be boosted by the newly imposed temporary (until the end of 2015) 5-10% surcharge on all imports, excluding energy and pharmaceuticals, although this might be in violation of WTO rules.³⁰

²⁶ According to IMF (2015), the Ukrainian government saved 0.4% of GDP in this way.

²⁷ Here and thereafter, budgetary allocations to defence do not include private financing of volunteer regiments fighting on the government side.

²⁸ In a recently published working paper (Mitra and Poghosyan, 2015), the IMF has found that fiscal multipliers in Ukraine are relatively low and below one.

²⁹ This estimate has been provided by Gorodnichenko (2015) who applied to the case of Ukraine the findings of Blanchard and Leigh (2013) that the IMF has systematically under-estimated the contractionary impact of fiscal consolidation by 0.7 pp for every 1 pp of forecasted drop on GDP.

³⁰ The WTO will consider the case in April 2015. The official justification for the import surcharge is 'to contain balance-of-payments pressures' in line with Article XII of GATT agreement (IMF, 2015).

On the expenditure side, the 2015 budget envisages further austerity measures, such as additional cuts in the number of public employees (especially in law enforcement agencies, but also in other ministries and at the NBU) and a 'freeze' of the minimum wage until December 2015, implying a further erosion of real incomes by high inflation. Also, pensions for *working* pensioners which exceed UAH 1,423 (some USD 50) per month will be cut by 15% as of April 2015 and until the end of this year. However, as last year, the austerity impact of these measures will be offset by a near-doubling (in nominal terms) of military spending: budget allocations for security and defence amount to UAH 90 billion, or 5% of GDP. According to the government, the 'anti-terrorist operation' in Donbas costs USD 5-10 million per day. Extrapolated for the whole year, this would sum up to some USD 2-4 billion, or 2-4% of GDP (obviously, the costs can be easily higher if the fighting escalates further). While the effectiveness of the Ukrainian army on the battlefield is far from being impressive, high military spending – mirrored in the statistics by the growth of public consumption – provides at least some growth stimulus in an otherwise strongly recessionary environment.

Finally, and probably most importantly, the officially reported budget figures and targets discussed above do not include important quasi-fiscal expenditure items, such as subsidies to the state-owned energy company Naftohaz (resulting from low domestic gas tariffs), transfers to the Pension Fund, and costs of bank recapitalisation. According to IMF (2015), the Naftohaz deficit alone accounted for 5.7% of GDP last year, as strong currency depreciation inflated the gas import bill in hryvnia terms, which was only partially offset by the enacted domestic tariff hikes.³¹ This year, the import gas price for Ukraine should decline (at least in US dollar terms) thanks to the recent drop in the oil price, to which it is contractually linked. Nevertheless, in line with the latest budget amendments and under pressure from the IMF, retail gas tariffs were hiked on average by 284% and those for heating by 66% as of 1 April 2015. These moves should reduce the deficit of Naftohaz to 3.1% of GDP and bring down the consolidated (i.e. including all quasi-fiscal entities) government deficit to 8.8% this year (from 13.5% in 2014).³² However, they will also contribute an estimated 9 pp to consumer price inflation this year³³ and thus further erode the purchasing power of the majority of the country's households. In the longer run (until April 2017), the IMF requires that gas tariffs be hiked to 'cost-recovery levels', i.e. raised approximately five times from their present level.

POLICY RECOMMENDATIONS

- › As indicated above, the **war-related damages in Donbas** already amount to at least USD 10 billion (8% of GDP), and may end up being much higher. It goes without saying that, given the extent of the damage, restoration of normal economic activities in the affected territories **will require massive public investment**. Since the cash-stripped Ukrainian government will hardly be able to come up with adequate funds on its own, the EU could potentially play a crucial role here – ideally by designing a sort of '**Marshall Plan** for Ukraine'; similar plans have been advocated recently e.g. by George Soros³⁴ and Dmytro Firtash.³⁵ At the same time, it is important to bear in mind that, given

³¹ Gas tariffs for households were hiked by 60% and those for district heating companies by 40% as of 1 May and 1 July 2014, respectively.

³² <http://forbes.ua/nation/1389731-ne-hotelos-no-kushat-nado>

³³ Rashkovan (2015).

³⁴ Reuters, 'Soros urges giving Ukraine \$50 billion of aid to foil Russia', 8 January 2015, <http://www.reuters.com/article/2015/01/08/ukraine-crisis-soros-idUSL6N0UN13720150108>

pervasive corruption in Ukraine, a substantial share of EU funds is likely to be embezzled or stolen.³⁶ Even large-scale financial assistance from abroad will not bring the expected benefits to Ukraine's economy unless it is accompanied by a wide range of – above all institutional – reforms (for more on that see next Chapter).

- › **The current flexible exchange rate regime** – which is a key IMF conditionality, coupled with inflation targeting – **is clearly inappropriate** for Ukraine under the conditions of *de facto* war, elevated political and economic uncertainties, and the high degree of dollarisation of the economy. Therefore, **macroeconomic stabilisation will require a more stable exchange rate regime** which could serve as a 'nominal anchor' of inflationary expectations and put an end to the current depreciation-inflation spiral. At the same time, the adoption of a fixed peg regime similar to the one which was in place under former president Yanukovych is unrealistic and bears the dangers of overvaluation which may materialise rather soon with the levels of inflation currently observed. An optimal compromise could be a fixed but adjustable exchange rate regime, or alternatively a 'crawling peg'; these types of exchange rate arrangements were widely used to achieve macroeconomic stabilisation in a number of CESEE countries during the 1990s and generally proved their effectiveness. However, **in order to make a new exchange rate regime credible, the National Bank of Ukraine would need a substantially higher volume of foreign exchange reserves**: the current level of USD 5.6 billion covering a mere one month of imports is clearly insufficient. Even the customarily used benchmark of three months of imports as the absolutely crucial minimum of the reserves level (which would correspond to some USD 15-16 billion) may not be enough to ensure credibility under the current circumstances. Realistically, the NBU would probably require additional funds to the tune of USD 15-20 billion to this end. This is far above the new IMF package which is supposed to cover a wide range of Ukraine's needs apart from forex reserve replenishment, including foreign debt repayment and budgetary support. Increased availability of forex reserves could also allow the NBU to lower interest rates and thus mitigate somewhat the economic recession.
- › With gas and heating tariffs for households being artificially low and the energy intensity of the economy among the world's highest, the necessity of tariff hikes which would encourage energy-saving behaviour of consumers is fairly obvious. Therefore, in principle the government deserves praise for implementing this highly unpopular step.³⁷ However, **the wisdom of front-loaded tariff hikes is questionable unless they are accompanied by parallel efforts aimed at promoting energy-saving investments**. Such efforts could complement, for instance, the recent EBRD programmes in Ukraine which have gained major traction in energy efficiency results, and draw on the past successful experience in other East European countries such as Romania.³⁸ One possible area of government involvement could be, for instance, the installation of heating metres which may

³⁵ Telepolis, 'Deutsche Politiker im Verbund mit ukrainischen Oligarchen', 4 March 2015, <http://www.heise.de/tp/artikel/44/44303/1.html>

³⁶ The same caveat applies also to other types of potential EU financial assistance outlined below.

³⁷ Another challenge is low energy efficiency in the industrial sector – despite the already high (cost-covering) level of energy tariffs for industry. Ukraine's industry, especially its energy-intensive branches such as metals and chemicals, still rely to a large extent on obsolete technologies which often date back to the 1950s and are extremely energy-wasteful.

³⁸ See, for instance, EBRD (2009).

be unaffordable for the vast majority of poorer households without targeted subsidies from the government: As long as households continue using old Soviet-style heating infrastructure which does not allow to regulate the temperature, any hopes for a reduction in energy consumption in response to tariff hikes may be elusive. Another possible area of government support could be the thermal insulation of residential buildings.³⁹ Government subsidies along these lines would be crucial in solving the long-term structural problem of excessive energy consumption, and should enjoy priority over the short-term task of fiscal consolidation (which is probably the real motivation for the implemented tariff hikes). In fact, they could be financed from the tariff hikes, leaving the overall fiscal deficit unchanged.⁴⁰

- › More generally, the current composition of government expenditures is sub-optimal. High military spending and high costs of public debt service are ‘crowding out’ other essential budget payments while broad-based reductions in expenditures on health and education, and a freeze of the minimum wages and pensions under conditions of high inflation contribute to a progressive degradation of the welfare state and impoverishment of vast segments of the population. This means not only less investment into human capital, with the potential negative repercussions for long-term growth prospects, but also less public support for reforms. Therefore, **an optimal structure of government expenditures would require more social and less defence spending, and also a smaller public debt burden.** The efficiency of military expenditures is highly questionable anyway, if only because Ukraine realistically cannot win its *de facto* ‘hybrid war’ against Russia, no matter how high its military expenditures are. As for the burden of public debt, the current negotiations over debt restructuring are a welcome step in the right direction, but may potentially require debt ‘haircuts’ larger than those on the negotiating table.

³⁹ According to some estimates, thermal insulation of a typical five-storey residential building would require some USD 100,000 in investments, which would reduce its heating consumption by half. For Ukraine as a whole, this would translate into some 40% of GDP or e.g. 2.5% of GDP per year if the programme is extended over 15 years – an amount which is to be saved thanks to tariff hikes.

⁴⁰ Although the government is planning to allocate UAH 12.5 billion (0.7% of GDP) in direct heating subsidies to the poor to offset the impact of tariff hikes, this will hardly contribute towards improving energy efficiency.

3. Poland's past does not provide easy prescriptions applicable to Ukraine

Poland is generally considered to be the 'success story' among the Central and East European transition countries, while Ukraine had been – even before the outbreak of the civil war in 2014 – viewed as a bad (if not the worst) performer. At the same time, the two countries seem to have initially shared many similarities. Therefore, the idea is floating around that Ukraine's lot could be improved upon the emulation of Poland's past economic reforms and policies. This chapter argues that Poland's past transition experience does not provide simple lessons which could be of *direct* relevance to Ukraine. In particular, the notorious Polish-style 'shock therapy' (pursued in 1990-1991) does not seem to be worth trying on Ukraine. In contrast, Ukraine's economic performance could perhaps gain solid foundations should the country's institutional and legal systems emulate some 'Polish' features. But it must be admitted that the desirable changes will not be easy to implement given the entrenched political and economic interests.

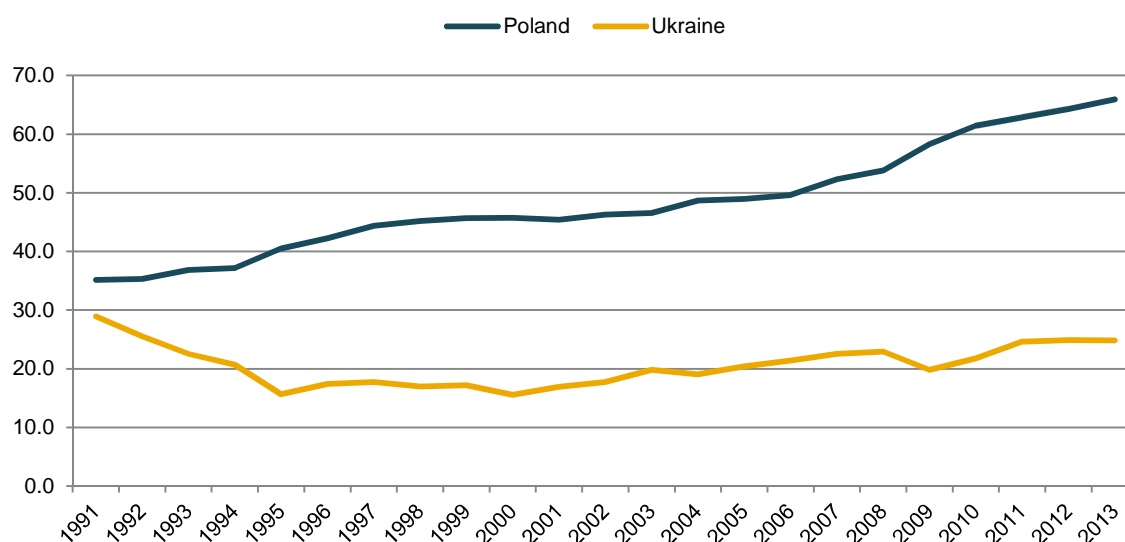
INITIAL CONDITIONS SEEMED TO FAVOR UKRAINE *MATERIALLY*

According to wiiw estimates (wiiw, 2015), Poland and Ukraine started their transformations from roughly similar development levels: In 1991 Poland's per capita (p.c.) GDP stood at EUR 4,500 (at purchasing power parities) – not much more than the respective level of Ukraine (EUR 3,700) – see Figure 5. Poland's p.c. GDP represented 32% of the average EU-28 level and Ukraine's 26%. In 2013, Poland's p.c. GDP reached an estimated EUR 17,500 (i.e. 68% of the EU-28 level) while Ukraine's stood at EUR 6,700 (or 26% of the EU-28 level). In 2014, the income gap between the two countries was further increasing (EUR 18,500 vs. 6,500). Moreover, it is now forecast that by 2016 Poland's p.c. GDP will have reached about EUR 21,000 (70% of the EU average) while Ukraine's will have fallen to EUR 6,200 (less than 23% of the EU average).

What factors account for the striking difference between the long-term performances of the two countries? Arguably, in terms of *material* initial conditions, Ukraine's starting position was more favourable than Poland's. While both are reasonably similar as far as area and population numbers are concerned, Ukraine was (and still is) much more generously endowed in terms of mineral deposits, climate and soil. Ukraine disposes of huge areas covered with 'black earth', or *chernozem*, highly prized for its natural fertility, while Poland's agricultural land is of poor quality in comparison. In economic terms, the initial conditions of the two countries were certainly different – though not necessarily entirely disadvantageous to Ukraine: the latter inherited a quite advanced industrial base (albeit unduly specialised in the production of weapons) which was generally less developed in Poland. Poland's small-scale and vastly inefficient and overmanned private farming also seemed a hindrance compared to the large-scale cooperative and state-owned farming in Ukraine. Moreover, Poland's 'centrally planned' economy had stagnated throughout the 1980s and towards its end it had gone through triple-digit inflation. In addition, Poland was essentially bankrupt, initially. Already in 1982 the country defaulted on

its huge foreign debt denominated in 'convertible currencies'. In 1990 Poland's foreign debt stood at USD 48.5 billion – while Ukraine's at USD 3.5 billion (in 1992).

Figure 5 / Per capita GDP (at current purchasing power parity) as percentage of EU-28 average, 1991-2013, Poland and Ukraine



Source: wiiw Annual Database, Eurostat, wiiw calculations.

ANOTHER “SHOCK THERAPY” FOR UKRAINE?

Because the initial *material* conditions did not seem to favour Poland, the eventual difference in performance tends to be ascribed to other factors – primarily to the differences in economic policies pursued in either country, with the economic policy conducted in Poland being definitely superior to that in Ukraine. That is a rather obvious conclusion which, however, can lead to erroneous overstatements. Some of the policies conducted in Poland at some points in time were as bad as those in Ukraine. This applies especially to the initial ‘shock therapies’ (in Poland in 1990, in Ukraine in 1992). Ironically, it is commonly believed (at least among the mainstream Western observers) that Poland’s later prosperity has followed from its initial ‘shock therapy’. The suggestion implicit in this is that Ukraine may need another Polish-style ‘shock therapy’ if the country is to succeed eventually. It is probably in this context that Ukraine’s President Poroshenko has recently (January 2015) invited Leszek Balcerowicz – the person who administered the ‘shock therapy’ to Poland – to design the economic reform policy for his country. Mr. Balcerowicz seems to have accepted the invitation.

As will be argued below, Ukraine does not really need any new ‘shock therapy’. But first it may be expedient to consider briefly whether that ‘therapy’ did really any good to Poland.

POLAND: FROM “SHOCK WITHOUT THERAPY”

Poland’s ‘shock therapy’, initiated on 1st January 1990, immediately set in motion a number of processes, among them a near-hyperinflation, a steep rise in previously absent unemployment, and a

precipitous decline in production, wages and living standards. Macro policies behind the 'shock therapy' were consistent with the macro clauses of the then fashionable 'Washington Consensus'. The emissaries of international financial organisations – especially the International Monetary Fund – were very active in the design of the policy. Simultaneously, from the very beginning the government tried hard to implement – at the maximum speed possible – the 'systemic clauses' of the Washington Consensus which stipulated, inter alia, wholesale deregulation of the economy, its external opening, and radical de-nationalisation, including privatisation.

Against the initial expectations (or promises), the hardship imposed on the economy and the population at large failed to produce any quick improvements. The deepening economic contraction, paired with very high inflation, continued for about thirty consecutive months. But the first two governments (the first responsible for the formulation of the economic policy, the second for its rigid continuation) fell – due to growing popular dissatisfaction – after the first twenty months in office. Importantly, both those governments were dominated by the same person: Deputy Prime Minister Leszek Balcerowicz, who also held the portfolio of the Finance Ministry.

... TO "THERAPY WITHOUT SHOCK"

Only after Mr. Balcerowicz's final ousting from the commanding position did this policy change. It became much more opportunistic on macro matters (including fiscal ones), social (including support to the losers of reform) and much less doctrinaire (or more gradualist) in matters of privatisation, external openness and governmental regulation. The slow recovery finally initiated (at mid-1992) was gradually gaining momentum. Recovery – and then growth – became swift and improvements fairly comprehensive from 1993 through 1998 under the government led by the Social-Democrats, which tried to secure an acceptable balance between the interests of the nascent business class and the rest of the society (the employed as well as the unemployed).

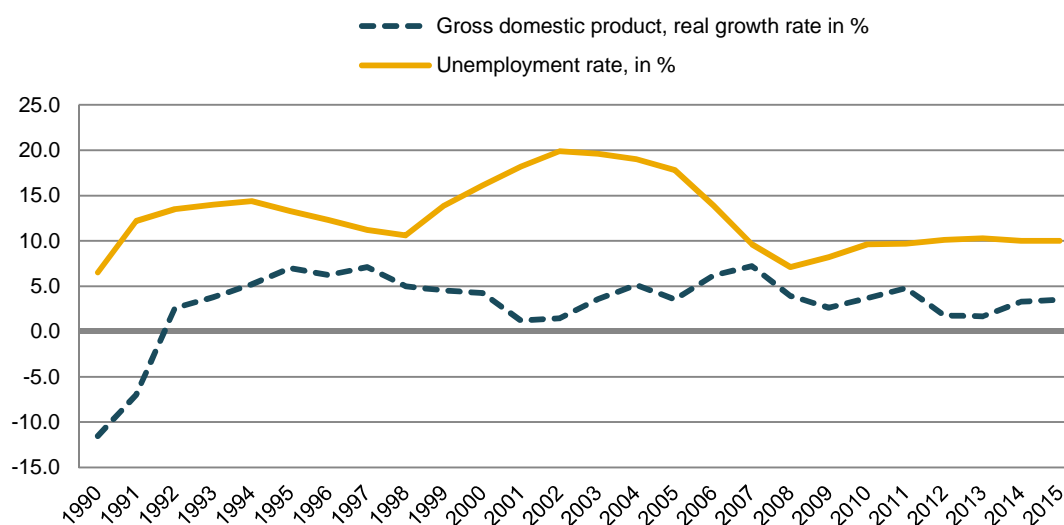
It is essential to stress the difference between the two periods: 1990-1992 and 1993-1998. In the popular Western opinion the success of the 'Polish way' tends to be ascribed to the rapidity of the radical change imposed (and to the policy being unscrupulous in scrapping the 'Socialist Welfare State') as well as to the society's resigned acceptance of the hardships implied. This is inaccurate. The first period is better described as 'shock without therapy'. It is the second period (1993-1998) – which in the Western opinion is often seen as the years of 'muddling through', or falling behind in terms of privatisation and foreign investment – that should be properly described as the one of 'therapy without shock'.

Specifically, the negative experience with the initial 'shock therapy' led to the formulation and implementation of a consistent – gradualist – reform alternative. This alternative, formalised in the official document called the 'Strategy for Poland', guided Poland's economic policies from 1993 through 1998, and then from 2002 through 2006. The policy corrected many excesses imposed during the 'shock therapy' years, paid more attention to the needs of the losers of reforms, without yet compromising on the principles of a competitive market economy. Fiscal and monetary policies stopped being restrictive irrespective of the state of the economy and became much more flexible. A modern taxation system was introduced. Simultaneously there was a fairly consistent evolution of the state's constitutional and legal framework, with a reasonably clear delineation of the powers of various state institutions.

International organisations (OECD, IMF and WTO) did not play any identifiable roles in the conception and implementation of the 'Strategy for Poland'. Also, it is hard to detect any concrete and constructive involvement in it of the EU. Many – though not all – regulations then introduced were broadly consistent with the standards approved of by the EU or international organisations. However, it must be stressed that the ongoing institutional and legal reforms were not motivated by the desire to please the EU and thus become eligible for EU accession. In 1993, or even by 1998, the prospect of Poland becoming an EU member was too hypothetical (and too remote) to have guided the domestic policy.

It may be important to add that upon a narrow electoral success of the conservative nationalists in 1998, Mr. Balcerowicz (then heading a small neoliberal-oriented party) became Poland's economic overlord again. Under his guidance Poland experienced the second 'shock therapy' – intensification of privatisation, a wave of de-nationalisation of financial institutions, pension and health service systems – all combined with the reintroduction of fiscal and monetary austerity. The policies enacted during his relatively short second term in office at first stopped the strong growth experienced prior to 1998 and then provoked a fiscal crisis combined with growth stagnation (amid the unemployment rate doubling to over 20%). It has taken many years to repair *some* of the damage caused by this second 'shock therapy'. Only in 2014 did the (otherwise neoliberal-conservative) government finally reverse Mr. Balcerowicz's favourite reform which stipulated a partial privatisation of the public pension system.

Figure 6 / Poland's GDP growth rate and unemployment rate, 1990-2014



Source: wiiw Annual Database and wiiw forecasts for 2014 and 2015.

UKRAINE: NO SHORTAGE OF “SHOCK THERAPIES” TO DATE...

The 'shock therapies' of the type applied on Poland have already been tried, several times, in Ukraine. At the very beginning of Ukraine's independence (January 1992) prices were liberalised (as in Poland in January 1990). The effects were not much different too. As in Poland, the initial wholesale price liberalisation triggered hyperinflation that was subsequently combated with over-restrictive fiscal and monetary policies, resulting in deep and protracted (seemingly endless) contraction of production, falling living standards, etc.

Some of the leading Polish reformers (e.g. Marek Dabrowski, in 1990 the deputy to Mr. Balcerowicz) have been actively involved in the Ukrainian affairs all along. So has been CASE – the Warsaw-based research-cum-advisory organisation set up by Mr. Balcerowicz which started its advisory activity in Ukraine in March 1993. Funded by George Soros, a CASE expert team including both Mr. Balcerowicz and Mr. Dabrowski worked with the then Ukrainian Prime Minister Leonid Kuchma. The first (to be followed by many such) ‘comprehensive diagnosis’ of the Ukrainian economy and an ‘economic reform project’ were prepared in July 1993. Polish (and many professional Western) ‘shock therapists’ were offering precisely the same medicines they had tried on Poland in 1990-1991. However, in contrast to Poland, under constantly worsening conditions there was a high political turnover in Ukraine: governments were sworn in and deposed at much higher frequency than in Poland. Persons in charge of economic affairs enjoyed their offices rather briefly in comparison to Poland, albeit much more ‘gainfully’.

...BUT NO “THERAPY WITHOUT SHOCK” YET...

No economic alternative akin to the ‘Strategy for Poland’ has been ever worked out in Ukraine. The realisation that ‘things do not develop as they perhaps should’ produced, periodically, attempts at easing the hardship by either some ad hoc fiscal relaxation or some ad hoc bureaucratic interventions. The impression one gains from studying Ukraine’s track record of the past 25 years is that the responses to crises typically involved the change of persons in charge of policy – and not the change in policy itself. The widely celebrated (in the West) ‘Orange Revolution’ of 2005 brought about even less: a radical change in public rhetoric while retaining the key figures of the incumbent political elite, including Victor Yushchenko, former Prime Minister and head of the National Bank, and the ‘gas princess’ Yulia Tymoshenko, former Deputy Prime Minister for fuel and energy. (The former became the new President, the latter the new Prime Minister.)

Table 3 / History of IMF lending arrangements to Ukraine

as of 28 February 2015, in million SDR (Special Drawing Rights, 1 SDR ~ 1.5 USD)

Facility	Date of Arrangement	Date of Expiration or Cancellation	Amount Agreed	Amount Drawn	Amount Outstanding
Standby Arrangement	April 2014	April 2016	10,976	2,973	2,973
Standby Arrangement	July 2010	December 2012	10,000	2,250	813
Standby Arrangement	November 2008	July 2010	11,000	4,000	0
Standby Arrangement	March 2004	March 2005	412	0	0
Extended Fund Facility	September 1998	September 2002	1,920	1,193	0
Standby Arrangement	August 1997	August 1998	399	181	0
Standby Arrangement	May 1996	February 1997	598	598	0
Standby Arrangement	April 1995	April 1996	997	539	0
Total			36,302	11,734	3,785

Note: The current Extended Fund Facility (EFF) worth SDR 12,348 million approved by the IMF on 11 March 2015 is not included.

Source: IMF

Changes in the commanding positions alone could not bring about any real change. Also, as the ad hoc interventions could not, as a rule, produce any immediate improvements they were usually scrapped (or simply ignored) not long after having been initiated. Worse still, the ad hoc interventions were often considered to be the cause rather than the effect of continuing misfortune. Renewed austerity, renewed

'shock therapies' were then repeatedly enforced – not without active involvement, since 1994, of the International Monetary Fund. Before the current Standby Arrangement, agreed in April 2014, Ukraine has had seven IMF programmes over the past twenty years (Table 3). Six of them were however terminated because of Ukraine's failure to comply with the requirements that would have drastically reduced the otherwise miserable living standards of the population.

BOTH COUNTRIES ARE MARKET ECONOMIES BY NOW, BUT...

While both Ukraine and Poland quickly transformed into market economies with high and rising shares of assets effectively owned by private individuals (and not by the state), the ways the private sectors came into existence differed widely. The origins of capitalism did differ radically – and so do their modes of operation – including the relationships of the 'business community' with the state. It is fair to say that in Poland the representatives of the business community (and of big business in particular) tend to be kept at bay by the politicians. Attempts at forging ties between the two classes are considered unacceptable. The media are after such attempts – and so are the offices in charge of corruption persecution.

It is equally fair to say that, in Ukraine, the state has been captured by oligarchic interests. The conduct of the state's economic policy has been *directly* controlled by the business 'moguls' whose fortunes derive, primarily, from shameless – and unpunished – looting of public assets, extortion of huge undeserved subsidies, etc. The Ukrainian ruling (political) class is actually indistinguishable from its quite narrow economic oligarchy. Not only do the oligarchs control the media and the political parties (and thus the legislature) but they also maintain their own paramilitary forces (e.g. the 'voluntary battalions' involved in the battles over the control of Donbas). The very same persons also tend to be in charge of 'economic reforms'.

The representatives of the oligarchic 'clans' are often provincial governors (such as until recently Ihor Kolomoyskyi, the owner of the country's biggest bank PrivatBank, and Serhiy Taruta, the owner of the steel-making Industrial Union of Donbas). Effectively, the provinces governed by the oligarchs are becoming semi-feudal principalities.

That the oligarchs are divided into clans competing (with means fair and foul) for power and wealth is often misinterpreted as the manifestation of pluralism and democracy. At best, this is an 'oligarchic democracy', not to be confused with 'normal democracy', as prevailing e.g. in Poland. Under the Ukrainian 'democracy', the 'more equal' are exempt from law. Not surprisingly, the government is unwilling to control private monopolies or capital flight whereas corruption is rampant on all levels of public administration. The 'masses' – i.e. the underprivileged majority (including small business) – are at the mercy of a wilful and corrupt bureaucracy.

Corruption, lawlessness, bureaucratic excesses are often correctly considered to be the obstacles to 'running normal business' in Ukraine. However, these phenomena carry the day precisely because they are compatible with the way the ruling oligarchs run *their* businesses there.

THE DEEP *NON-ECONOMIC* ROOTS OF DIFFERENTIAL PERFORMANCE

There are several *non-economic* reasons why an oligarchic capitalism did not strike comparably deep roots in Poland. First, Poland entered the transition while disposing of political, legal and intellectual elites representing a very long tradition of national statehood, public service, active opposition to the authoritarian rule and also some moral standards derived primarily (but not exclusively) from close links to the Catholic Church, at that time led by the 'Polish Pope'. In Poland a non-violent civil society had formed and matured over decades prior to the collapse of the authoritarian rule. Secondly, Poland's transition (the first among many to follow in Central and Eastern Europe) was assisted by an organised non-violent mass movement: the 'Solidarity'. The moment the old regime collapsed most of its influential representatives were summarily purged from the position of power, including in most state-owned firms and organisations. Many of those who were not purged pledged allegiance (to be closely monitored by the public) to the emerging democratic and legal order. All these factors prevented the rise of an omnipotent oligarchic class – and helped keep members of the emerging business class generally at a distance from the government.

Nothing like that existed in Ukraine. The elites inherited from the Soviet era at best represented second-rate provincial communist apparatchiks (as the more outstanding and ambitious personalities had made careers in Moscow rather than in Kyiv). The traditions of national statehood did not exist as far as ethnic Ukrainians were concerned (while the citizens of Russian origin may have identified with the Russian state traditions). A non-violent civil society capable of exerting a positive role in public affairs did not seem to exist either. Although there have been rudiments of a civil society of some sort in Western Ukraine, unfortunately, that civil society seems to have been a continuation of the inglorious WWII terrorist organisations allied with the Nazis.

The inception of the first-ever Ukrainian national state in 1991 was not assisted by any non-violent mass movement that could support or monitor the change. Independence was not the result of own efforts and aspirations of the peoples inhabiting the Ukrainian Socialist Soviet Republic – it was just decreed by a *ukas* following a secret meeting of a very narrow group of top Soviet apparatchiks who decided to carve 'own republics' out of the decaying Soviet Union. In consequence, the representatives of the *nomenklatura* (top bureaucrats and managers in charge of public institutions and state-owned firms) retained, by and large, their commanding positions. Being good *homines sovietici*, they could not be expected to take seriously the norms of some exotic (to them) moral doctrines. Nor could they appreciate the rules of democracy or the importance of the rule of law. But what they immediately grasped was that the new circumstances offered – to the unscrupulous – immense possibilities of personal enrichment. The pursuit of profit, which in a civilised market economy is the engine of progress, in the Ukrainian market economy only too often degenerates into bloody wars between rivaling oligarchic clans or into simply looting the state assets. The evidence of both inter-oligarchic terrorist attacks and of rampant corruption at the highest governmental offices abounds. Perhaps one could mention the case of Pavlo Lazarenko, an erstwhile Prime Minister of Ukraine (1996-1997) sentenced (in the United States though) to nine years in prison for money laundering.⁴¹

All in all, the 'impoverished Ukraine' used to be the proud home to numerous new super-rich. According to Forbes, in 2013 there were eight US dollar billionaires in Ukraine, with a combined wealth of

⁴¹ Mr. Lazarenko is still accused of stealing some USD 200 million (!) of the Ukrainian government money.

USD 26.2 billion.⁴² By contrast, the same source lists only four Polish dollar billionaires, with the total wealth standing at USD 9.8 billion 'only' – despite the fact that the Polish economy is three times bigger than Ukraine's. The fortunes of three out of these four persons have nothing to do with their participation in any privatisation of public assets (nor with any other dealings with the state).

LESSONS FOR UKRAINE IN 2015?

It is incorrect to assume that Poland's success has been due to some simple trick (e.g. 'shock therapy') which could be easily replicated in Ukraine. The major Polish lesson is that *economic prosperity* was associated with deep reforms on *legal* and *constitutional* matters. In Poland, these reforms grew out of social conditions that were actually non-existent and are yet to consolidate in Ukraine.

It is widely acknowledged that the Ukrainian state has been captured by oligarchic interests. Successive oligarchy-controlled governments have failed to institute a reform of the economy (and of the state at large) in such a way as to create conditions conducive to the emergence of a more or less viable competitive and dynamic market economy of the Polish type. Arguably, as long as Ukraine is ruled by oligarchic interests, the chances of a successful major institutional and legal overhaul seem low.

Of course, sooner or later authentic democracy and the rule of law may eventually prevail in Ukraine – just as they have done in Poland and most other former transition countries in Central and Eastern Europe. Currently the results of the elections conducted in Ukraine so far (including the most recent ones) suggest that a comprehensive political change is yet to come.

The inescapable institutional transformation of Ukraine could greatly benefit from a well-designed Western involvement. That involvement could have several dimensions. First, there should be concerted efforts to strengthen the Ukrainian non-violent civil society, independent media and non-government organisations, and provide opportunities for young people from Ukraine to study abroad. Secondly, friends of Ukraine should spare no effort in showing their disapproval of Ukraine's ruling elites' ways of doing politics (and business). Financial and material assistance to Ukraine should be rigidly tied to the progress on e.g. the legal system, the severance of relationships between business and politics, proper taxation of oligarchic fortunes, confiscation of wealth (including parked abroad) illegally amassed, etc. Finally, in advocating specific economic policies, the friends of Ukraine should refrain from lobbying for the application of austerity, or 'shock' therapies that could make the lives of ordinary Ukrainians even more miserable.

⁴² Forbes' list does not mention Ms. Tymoshenko and other public personalities suspected of having amassed huge fortunes as well.

4. Ukraine's foreign trade and related integration challenges

The integration process of Ukraine has been obstructed by the lack of a clear domestic strategy as well as the outside intervention. The issue of Ukraine's economic and political 'orientation' – either towards the EU or to Eurasian integration – received a lot of attention already in the context of the failed Eastern Partnership November 2013 Summit in Vilnius.⁴³ This 'either/or' approach pursued by both Russia and the EU was misguided and instigated the subsequent conflict in and over Ukraine.⁴⁴ Currently (April 2015) – apart from overcoming the effects of the conflict – an urgent challenge facing Ukraine is the implementation of the AA/DCFTA (Association Agreement/Deep and Comprehensive Free Trade Area) with the EU, related trade reorientation, commodity restructuring and competitiveness issues. Trade integration and the establishment of new specialisation patterns will be additionally hampered by disrupted economic and trade relations with Russia with grave economic repercussions, not only in the short run, but probably also in the medium and long run. Disruptions in economic relations with Russia include mutual trade, investment and travel embargoes, energy price disputes and other frictions which altogether result in sizeable economic costs for all parties concerned. Official Western (IMF, EU, World Bank, EBRD and bilateral) reform assistance notwithstanding, new Ukrainian specialisation and competitive trade patterns can be established only after a comprehensive restructuring triggered and facilitated especially by inflows of new investments (both domestic and foreign). This will require some degree of macroeconomic stability, improvements in the investment climate and, above all, the termination of the military conflict. The latter is a fundamental precondition for economic stabilisation and subsequent investment-led growth, thus representing an urgent task for all parties involved. This chapter aims to review the Ukraine's present regional and commodity specialisation patterns in foreign trade as a starting point, and to explore the challenges and potential for trade restructuring and the related costs, taking into account the experiences of other transition countries in Central and Eastern Europe (CEE).

We start by taking stock of Ukraine's foreign trade regional and commodity composition as an important starting point in evaluating the consequences (economic and otherwise) of alternate integration strategies and development prospects. We explore existing export specialisation patterns and evaluate the country's current and potential competitive advantages that have important implications for its economic stabilisation and development prospects. Next, we assess the costs associated with conflict-related trade disruptions and identify the most vulnerable sectors and regions of Ukraine's economy. Last but not least, we discuss trade-related challenges associated with the AA/DCFTA, review Ukraine's possible trade integration scenarios and provide policy recommendations.

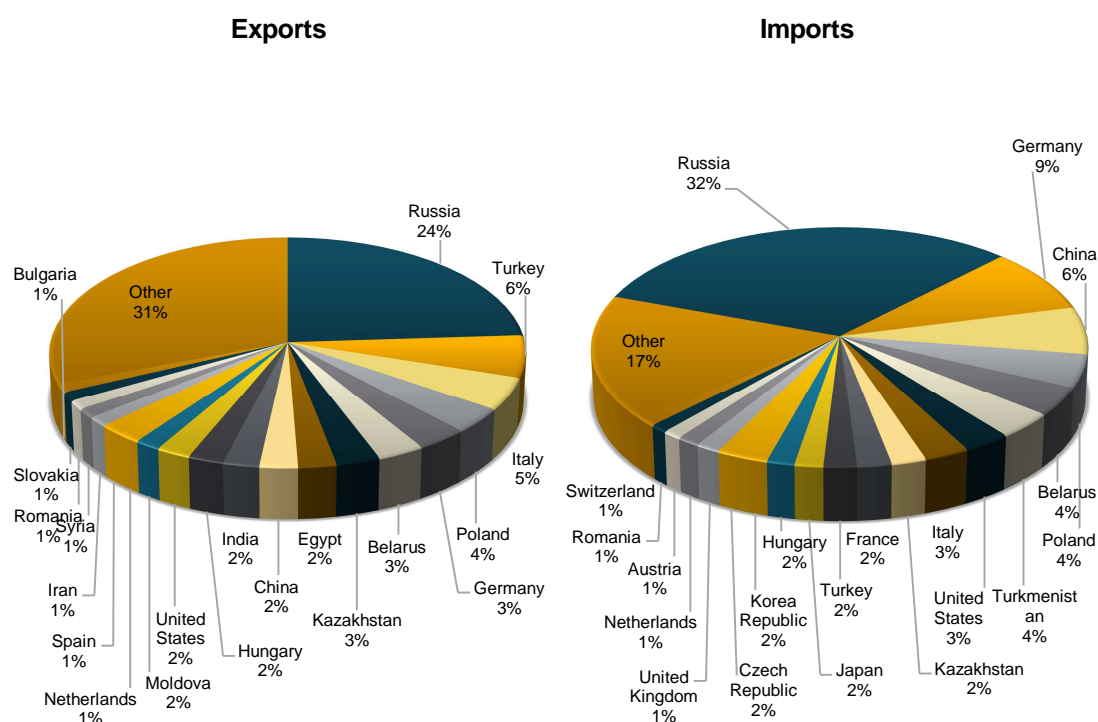
⁴³ Havlik (2013) discussed some additional aspects of the Vilnius Eastern Partnership summit.

⁴⁴ Havlik (2014) dealt with economic consequences of the conflict.

FOREIGN TRADE SPECIALISATION: DICHOTOMIES BETWEEN EAST AND WEST

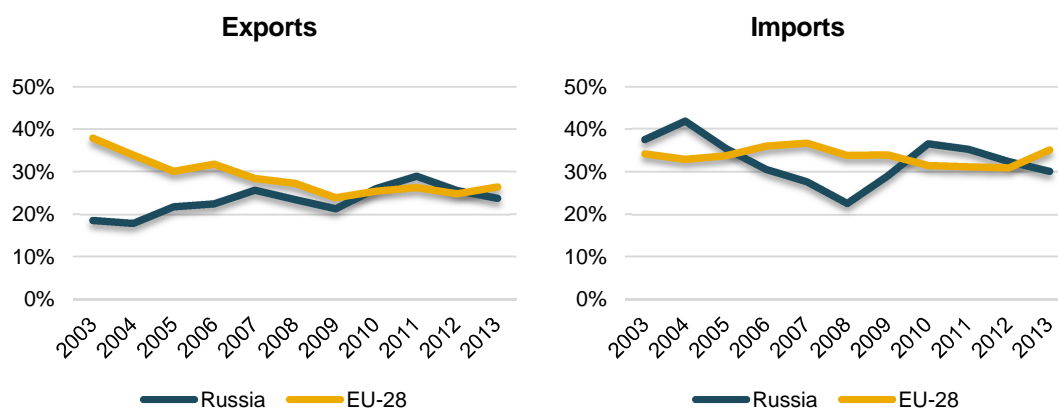
Economic growth of Ukraine has been highly dependent on external demand and fluctuating commodity prices. Exports and imports accounted each for some 45-50% of Ukraine's GDP in 2013. Both European Union (EU) and Russian/Eurasian Economic Union (EEU) markets have been historically very important for Ukraine.⁴⁵ Imports from the EU constituted 34% and those from Russia 32% of total imports on average over the period 2003-2013 (Figures 7 and 8). Similarly, exports to the EU have amounted to 28% and those to Russia to 24% of total exports of Ukraine on average over the past decade. In 2013, 26% of Ukraine's exports and 35% of imports were traded with the EU. The latter shares are – understandably – much lower than in the CEE NMS, which have been fully integrated in the EU market and had been, for many years already, much less dependent on Russia. However, Ukraine's EU trade shares are also lower than those of Russia (53% of Russian exports and 42% of imports were traded with the EU in 2013, before the sanctions crisis). For Ukraine, Russia has been the single most important export partner (with 23.6% of exports in 2013 and 17.6% in 2014; Belarus and Kazakhstan accounted for an additional 6.5% of Ukraine's exports), followed by Turkey, China and Egypt. Poland and Italy were the key export markets within the EU, each accounting for some 4% of Ukraine's exports (Figure 7). This geographic pattern of exports – a dichotomy between the EU and the EEU – will represent the major challenge for the post-conflict trade reorientation (compounded by commodity-specific regional specialisation patterns – see below).

Figure 7 / Top 20 trading partners of Ukraine, average 2003-2013



Source: calculations based on wiiw database.

⁴⁵ Eurasian Economic Union (EEU) was established in 1 January 2015 on the basis of Customs Union of Belarus, Kazakhstan and Russia. Armenia joined EEU on 1 January 2015. Kyrgyzstan is expected to join in mid-2015 (<http://www.eurasiancommission.org/en/Pages/default.aspx>)

Figure 8 / Share of the EU and Russia in total trade of Ukraine, 2003-2013

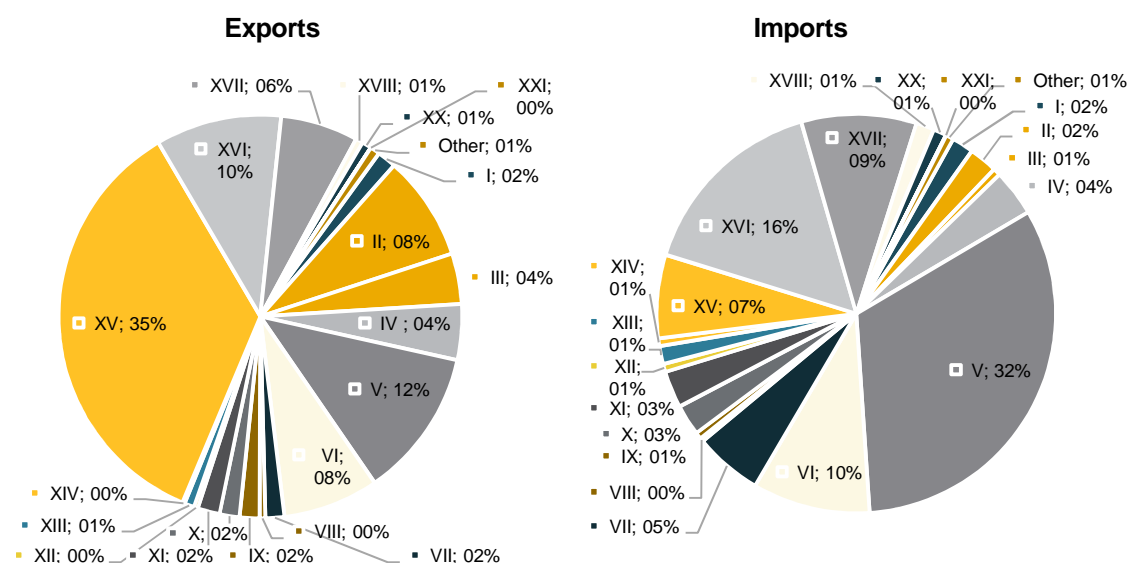
Source: calculations based on wiiw database.

Russia has been even more prominent in Ukraine's imports (in 2013, more than 30% of total imports still came from Russia and two thirds of these imports represented energy), followed by imports from China, Germany, Poland and Belarus. These trade shares may explain some of Ukraine's erratic behaviour during the last couple of years, at least partly. Barring a full-scale trade embargo and the likely subsequent economic collapse, it would be very difficult for Ukraine in the short and medium term, and irrational from the economic point of view even in the longer run, to fully disconnect itself from the Eurasian markets.⁴⁶ Therefore, apart from implementing an AA/DCFTA with the EU, a restoration of the disrupted trade linkages with Russia/EEU should be one of Ukraine's trade policy priorities.

Figure 8 provides detailed information about the broader commodity composition of Ukraine's foreign trade. In exports, the share of agriculture has been rapidly increasing whereas that of manufactured goods (mainly steel) declined (preliminary evidence suggests that agricultural exports to the EU increased markedly after the asymmetric abolishment of tariffs on Ukraine's exports to the EU in April 2014).⁴⁷ As far as Ukraine's imports are concerned, mineral products remain the single most important commodity, although its share is bound to decline further, not least owing to the recent drop in energy prices.

⁴⁶ Inevitably, trade with Russia is poised to decline further even after the end of open confrontation. Russia seeks to construct an alternative pipeline to Turkey after the South Stream project was stopped in December 2014, avoiding transit via Ukrainian territory (<http://www.euractiv.com/sections/energy/juncker-says-south-stream-pipeline-can-still-be-built-310614>).

⁴⁷ Quotas for some agricultural products are still in place (as are EU SPS standards) which impede a full access for Ukraine's agricultural products to EU markets.

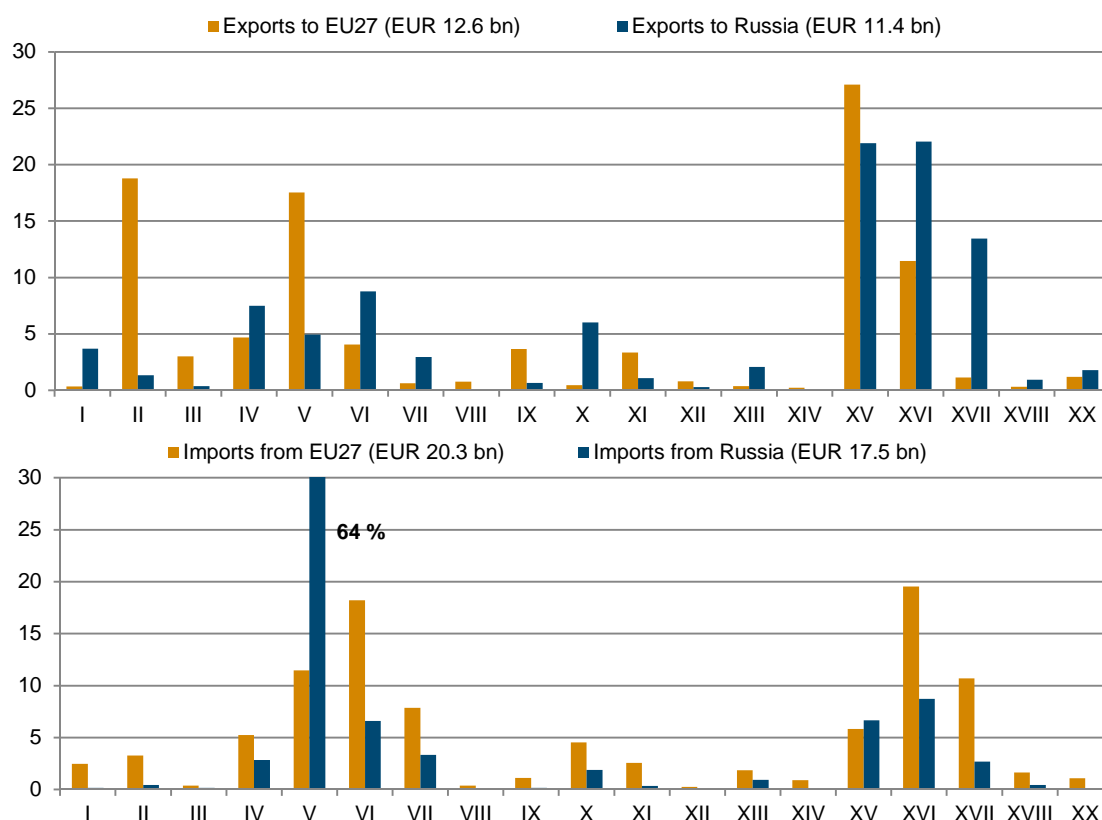
Figure 9 / Industrial composition of exports and imports of Ukraine, 2003-2013 average

- I Live animals, animal products
- II Vegetable products
- III Animal or vegetable fats, oils, waxes, prepared edible fats
- IV Prepared foodstuffs, beverages, tobacco and substitutes
- V Mineral products
- VI Products of the chemical or allied industries
- VII Plastics and articles thereof, rubber and articles thereof
- VIII Raw hides and skins, leather, fur skins and articles, etc.
- IX Wood and articles of wood, wood charcoal, cork, etc.
- X Pulp wood, paper or paperboard (incl. recovered) and articles
- XI Textiles and textile articles
- XII Footwear, headgear, umbrellas, walking sticks, etc.
- XIII Articles of stone, plaster, cement, ceramic products, glassware
- XIV Natural or cultured pearls, precious stones and metals, etc.
- XV Base metals and articles of base metal
- XVI Machinery, mechanical appliances, electrical equipment
- XVII Vehicles, aircraft, vessels and associated transport equipment
- XVIII Optical, measuring, medical instruments, clocks, musical instr., etc.
- XX Miscellaneous manufactured articles

Source: calculations based on wiiw database.

The distinct commodity specialisation of Ukrainian trade on its two key markets – the EU and Russia/EEU – represents another challenge facing post-conflict trade transformation. While both markets had been (at least until the outbreak of the conflict last year) nominally about equally large with respect to both exports and imports, the dichotomy in the commodity composition has been substantial and the respective patterns of revealed comparative advantages quite distinct with exports to Russia/EEU generally more sophisticated (see Figure 11 where the composition of exports from Ukraine to Russia and the EU is shown, and Figure 12 where the importance of Ukrainian exports to Russia and the EU is shown in terms of their respective shares in total Ukrainian exports). Figure 11 refers to Ukraine's most competitive industries measured by revealed comparative advantage and Figure 12 to Ukraine's most important export industries in value terms).⁴⁸

⁴⁸ There is an additional regional dichotomy: a significant part of Ukraine's exports (even more so of the 'sophisticated' ones) originated in eastern regions, not only of separatist Donetsk (19.5%) and Luhansk (5.6%), in 2013 – see further below and Chapter 6 of this report.

Figure 10 / Commodity structure of Ukrainian foreign trade, 2013, in %

Note: See description Figure 8.

Source: UKRSTAT, wiiw calculations.

Which sectors of Ukraine's economy are most vulnerable to conflict-related trade disruptions? Table 4.1 provides detailed data on the main export commodities (covering more than 90% of all Ukrainian exports in 2013), showing the relative importance of key export destinations (Russia, the EU and the rest of the world). A number of important export positions depend predominantly on the Russian market (nuclear reactors and boilers, railway/tramway rolling stocks, inorganic chemicals, paper, plastics, etc.) and a reorientation to other markets would be not only costly but also difficult without modernisation/restructuring investments and appropriate transitory arrangements.⁴⁹ Heyets et al. (2014) provide detailed sectoral data and list examples of cooperation linkages between Ukraine-Russian enterprises (Motor Sich in Zaporozhye producing helicopter motors, Sea Engineering Bureau in Odesa designing shipyards, Steel Plant Dnipropetsstal in Zaporozhye, etc.). Interrupted Russian-Ukrainian cooperation in space and defence sectors hurts not only the affected production facilities in Ukraine (e.g. Yushmash in Dnipropetrovsk, Khatron-Arkos in Kharkiv producing space launchers and electronics), but also Russia and other countries which used Ukraine-supplied rockets and electronic components in space launching programmes.⁵⁰

⁴⁹ In imports from Russia (totalling USD 23.2 billion in 2013), 64% of the total represented mineral fuels and products. At the same time, Ukraine exported mineral fuels and oils valued at nearly USD 3 billion.

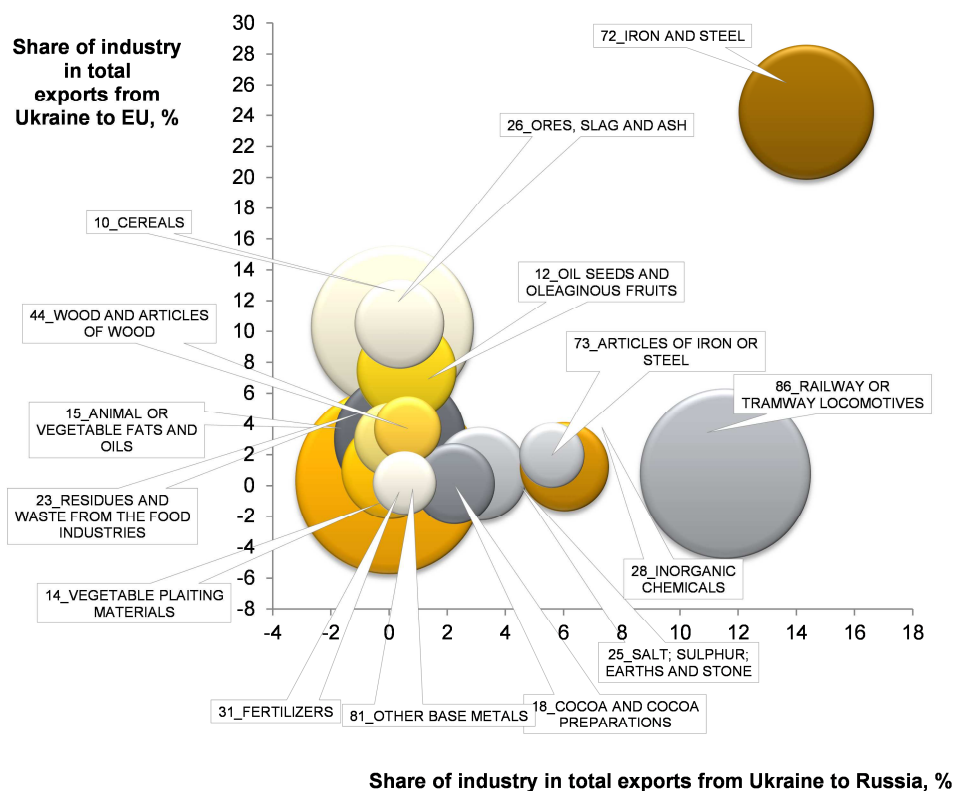
⁵⁰ Dvorkin (2015). The cancellation of the Russian order for 60 AN-70 military cargo planes produced at the Kyiv Region-based Antonov plant will result in a loss of more than USD 4 billion – see *Izvestia*, 3 March 2015. For more information on major Ukrainian enterprises, their sectoral specialisation, ownership and location see Uiboubin (2006).

Table 4 / Ukraine's main export commodities by regions, USD mn and % of total, 2013

		UKR- WLD	UKR- RoW	UKR- EU	UKR- RU	Share RU %	Share EU %	Share RoW
Total		63320	31482	16762	15077	23.81	26.47	49.72
72	IRON AND STEEL	14319	8096	4061	2162	15.10	28.36	56.54
10	CEREALS	6371	4631	1723	18	0.29	27.04	72.68
26	ORES, SLAG AND ASH	3918	2104	1759	54	1.38	44.90	53.72
84	NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF	3835	1197	419	2219	57.86	10.93	31.20
15	ANIMAL OR VEGETABLE FATS AND OILS AND THEIR CLEAVAGE PRODUCTS; PREPARED EDIBLE FATS; ANIMAL OR VEGETABLE WAXES	3507	2947	503	57	1.62	14.36	84.03
85	ELECTRICAL MACHINERY AND EQUIPMENT AND PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES	3139	534	1502	1104	35.16	47.84	17.00
27	MINERAL FUELS, MINERAL OILS AND PRODUCTS OF THEIR DISTILLATION; BITUMINOUS SUBSTANCES; MINERAL WAXES	2865	1600	1048	217	7.56	36.59	55.84
73	ARTICLES OF IRON OR STEEL	2590	1418	328	844	32.58	12.67	54.76
86	RAILWAY OR TRAMWAY LOCOMOTIVES, ROLLING-STOCK AND PARTS THEREOF; RAILWAY OR TRAMWAY TRACK FIXTURES AND FITTINGS AND PARTS THEREOF; MECHANICAL (INCLUDING ELECTRO-MECHANICAL) TRAFFIC SIGNALLING EQUIPMENT OF ALL KINDS	2463	589	131	1743	70.78	5.32	23.90
12	OIL SEEDS AND OLEAGINOUS FRUITS; MISCELLANEOUS GRAINS, SEEDS AND FRUIT; INDUSTRIAL OR MEDICINAL PLANTS; STRAW AND FODDER	2048	710	1248	89	4.36	60.96	34.68
28	INORGANIC CHEMICALS : ORGANIC OR INORGANIC COMPOUNDS OF PRECIOUS METALS, OF RARE-EARTH METALS, OF RADIOACTIVE ELEMENTS OR OF ISOTOPE	1744	632	203	909	52.11	11.64	36.26
31	FERTILIZERS	1171	1002	163	7	0.56	13.89	85.56
44	WOOD AND ARTICLES OF WOOD; WOOD CHARCOAL	1144	436	612	96	8.42	53.48	38.10
48	PAPER AND PAPERBOARD; ARTICLES OF PAPER PULP, OF PAPER OR OF PAPERBOARD	1080	241	69	770	71.29	6.38	22.33
23	RESIDUES AND WASTE FROM THE FOOD INDUSTRIES; PREPARED ANIMAL FODDER	923	414	497	12	1.30	53.82	44.87
25	SALT; SULPHUR; EARTHS AND STONE; PLASTERING MATERIALS, LIME AND CEMENT	712	110	128	474	66.52	18.00	15.48
4	DAIRY PRODUCE; BIRDS' EGGS; NATURAL HONEY; EDIBLE PRODUCTS OF ANIMAL ORIGIN, NOT ELSEWHERE SPECIFIED OR INCLUDED	692	268	42	382	55.20	6.06	38.74
39	PLASTICS AND ARTICLES THEREOF	600	142	67	391	65.18	11.09	23.73
99	Other	574	515	28	32	5.57	4.81	89.63
18	COCOA AND COCOA PREPARATIONS	557	201	19	337	60.45	3.49	36.06
94	FURNITURE; BEDDING, MATTRESSES, MATTRESS SUPPORTS, CUSHIONS AND SIMILAR STUFFED FURNISHINGS; LAMPS AND LIGHTING FITTINGS, NOT ELSEWHERE SPECIFIED OR INCLUDED; ILLUMINATED SIGNS, ILLUMINATED NAME-PLATES AND THE LIKE; PREFABRICATED BUILDINGS	556	178	145	233	41.89	26.06	32.05
19	PREPARATIONS OF CEREALS, FLOUR, STARCH OR MILK; PASTRYCOOKS' PRODUCTS	413	233	26	154	37.24	6.36	56.40
22	BEVERAGES, SPIRITS AND VINEGAR	411	155	25	231	56.10	6.17	37.72
20	PREPARATIONS OF VEGETABLES, FRUIT, NUTS OR OTHER PARTS OF PLANTS	404	68	161	176	43.46	39.82	16.72
62	ARTICLES OF APPAREL AND CLOTHING ACCESSORIES, NOT KNITTED OR CROCHETED	400	9	382	9	2.21	95.50	2.29
87	VEHICLES OTHER THAN RAILWAY OR TRAMWAY ROLLING-STOCK, AND PARTS AND ACCESSORIES THEREOF	375	157	26	192	51.09	7.04	41.87
2	MEAT AND EDIBLE MEAT OFFAL	349	187	1	160	45.88	0.33	53.79
32	TANNING OR DYEING EXTRACTS; TANNINS AND THEIR DERIVATIVES; DYES, PIGMENTS AND OTHER COLOURING MATTER; PAINTS AND VARNISHES; PUTTY AND OTHER MASTICS; INKS	335	141	116	78	23.19	34.65	42.16
88	AIRCRAFT, SPACECRAFT, AND PARTS THEREOF	314	255	13	46	14.55	4.08	81.38
69	CERAMIC PRODUCTS	293	89	9	196	66.73	2.90	30.37
90	OPTICAL, PHOTOGRAPHIC, CINEMATOGRAPHIC, MEASURING, CHECKING, PRECISION, MEDICAL OR SURGICAL INSTRUMENTS AND APPARATUS; PARTS AND ACCESSORIES THEREOF	293	104	50	139	47.38	17.19	35.43
24	TOBACCO AND MANUFACTURED TOBACCO SUBSTITUTES	292	289	0	3	1.17	0.09	98.75
17	SUGARS AND SUGAR CONFECTIONERY	259	162	29	68	26.35	11.25	62.40
21	MISCELLANEOUS EDIBLE PREPARATIONS	252	128	21	103	40.98	8.35	50.66
30	PHARMACEUTICAL PRODUCTS	252	187	13	51	20.43	5.06	74.51
29	ORGANIC CHEMICALS	233	59	88	86	36.82	38.01	25.17
33	ESSENTIAL OILS AND RESINOIDS; PERFUMERY, COSMETIC OR TOILET PREPARATIONS	205	123	26	56	27.22	12.54	60.24
64	FOOTWEAR, GAITERS AND THE LIKE; PARTS OF SUCH ARTICLES	192	23	128	40	21.04	67.03	11.94
89	SHIPS, BOATS AND FLOATING STRUCTURES	191	122	21	48	25.20	10.93	63.87

Source: UN COMTRADE, wiiw calculations.

Figure 11 / Top 15 most competitive industries of Ukraine, 2013



Note: Horizontal axis: share of an industry in total exports from Ukraine to Russia; vertical axis: share of an industry in total exports from Ukraine to EU; bubble size corresponds to the RCA index value of an industry.⁵¹
Source: Authors' calculations based on UN Comtrade data.

There is an additional important regional component in the destination of Ukraine's exports (which will be further discussed in Chapter 6): Kyiv Region, Ivano-Frankivsk, Khmel'nitsky, Kharkiv and Sumy are particularly dependent on Russian/EEU markets (more than half of regional exports). Moreover, several eastern regions (Luhansk, Donetsk and Dnipropetrovsk) represent, apart from the City of Kyiv, the biggest Ukrainian exporters and would suffer the most from trade disruptions with Russia/EEU.

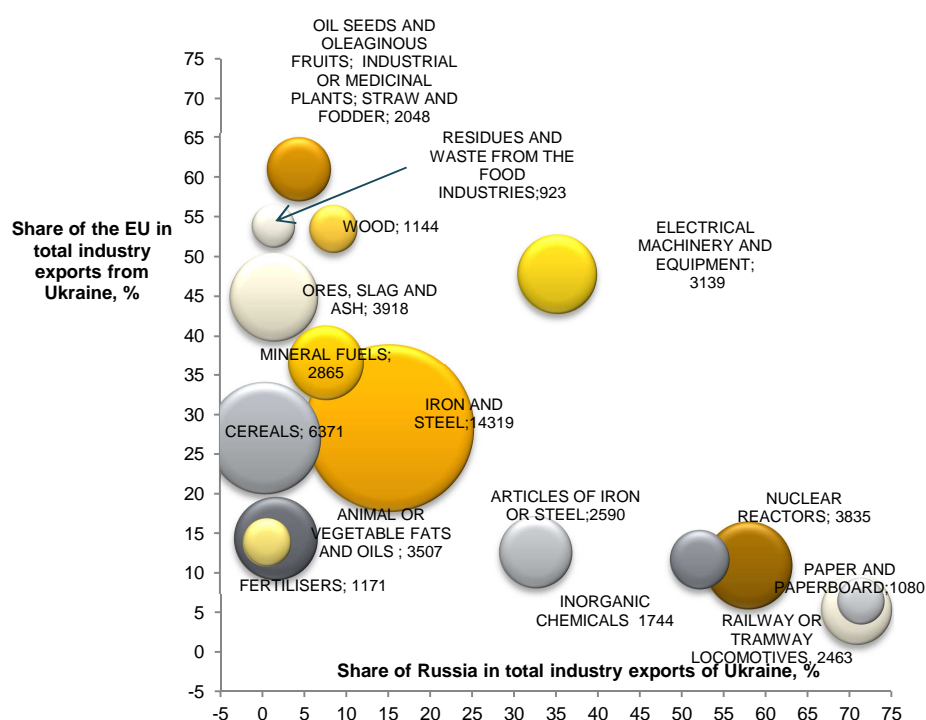
Obviously, the first policy implication of the diverse geographic and commodity trade patterns outlined above is that it would be rather costly for Ukraine to abandon a quarter of its export market in the east (part of it has already been lost). Moreover, the huge regional dichotomy in the commodity composition of Ukraine's trade (and its labour market, social, political and other implications) represent another challenge which is seldom taken into account in trade integration discussions.⁵² As shown above,

⁵¹ The RCA index, based on Balassa (1965, 1986), measures the relative advantage of country *c* in industry *i* in year *t*, and is constructed as follows: $RCA_i = \frac{x(i)_{UKR}/X_{UKR}}{x(i)_W/X_W}$, where *x(i)* is the value of exports of industry *i* (in our case, HS 2-digit level) and *X* is the total value of exports from Ukraine (UKR) or world (W). A country reveals a comparative advantage in a particular industry *i* if the RCA index for that industry is greater than unity, i.e. the export share of a country in that industry is higher than the world average export share for that industry.

⁵² The latest EU Joint Staff Working Document on the implementation of the Neighbourhood Policy from 25 March 2015 mentions briefly that 'the type of goods exported to the EU were different to those exported to Russia' without mentioning the trade policy implications – see http://eeas.europa.eu/enp/pdf/2015/ukraine-enp-report-2015_en.pdf.

Ukraine's exports to Russia – more often than not originating from the eastern part of Ukraine – display a more 'advanced' structure: machinery, equipment, aircraft, vessels and other transport equipment. Admittedly, these exports are frequently remnants of past cooperation linkages persisting from the Soviet period which are largely non-competitive on other markets. Even with adequate investments, a restructuring, conversion and reorientation of the respective export capacities would be extremely challenging.

Figure 12 / Destination of top 15 biggest export industries of Ukraine, 2013



Note: Horizontal axis: share of Russia in total industry exports from Ukraine; vertical axis: share of the EU in total industry exports from Ukraine; bubble size corresponds to the value of the industry exports in USD million.

Source: Authors' calculations based on UN Comtrade data.

CHALLENGES OF IMPLEMENTING THE DEEP AND COMPREHENSIVE FREE TRADE AREA (DCFTA) WITH THE EU

Regional and commodity trade asymmetries have also many additional implications for the evolution of a future association of Ukraine with the EU, the implementation of the AA/DCFTA (see Boxes 2 and 3 below) and for the design of trade policy in general. Ukraine's position between the EU and the Russia-led Eurasian Economic Union (EEU) and its nearly equal (yet asymmetric) dependence on both markets puts forward the challenge how to maintain, expand and deepen trade relations in both the EU and the 'eastern' EEA directions. A balanced trade policy could play an important role towards attracting investments and advancing modernisation, with Ukraine potentially developing trade relations with both the EU and the EEU, turning its geographic location from a curse to a competitive advantage and serving as a bridge between the two integration blocs. Ukraine still maintains a free trade agreement with the CIS countries and formally this includes free trade with Russia/EEU as well. The alleged

incompatibility of the DCFTA and the EEU – unless there is an FTA between the EEU (and the concomitant Customs Union) and the EU – has been one of the sore points which sparked the conflict after Ukraine decided to delay the signature of the AA/DCFTA at the Vilnius Eastern Partnership Summit in November 2013 (see Havlik, 2013 for more details).⁵³

Russia claims that its market would be flooded by EU products re-exported via Ukraine (as borders are porous and rules of origin are generally not observed) and its exports to Ukraine will be crowded out by more competitive EU products. Moreover, additional costs (to Russia) would allegedly arise from Ukraine's takeover of the EU acquis after the DCFTA obligatory implementation of EU technical standards and SPS norms. These (and other objections related to allegedly horrendous costs for Ukraine) were first raised by Putin's economic advisor S. Glazyev well before the failed Vilnius EaP Summit in November 2013 and eventually led President Yanukovich to delay the AA/DCFTA signature.⁵⁴ The EU strongly denied the validity of such objections and published a number of detailed counterarguments.⁵⁵ Nevertheless, Russia demands changes in the EU-Ukraine trade deal and threatens to revoke the Ukraine-CIS Free Trade agreement, imposing tariffs on its imports from Ukraine comparable to those existing in trade with the EU. In a series of exchanges between Russia and the EU Commission (including the correspondence between Putin and Barroso) in September 2014, Russia reiterated its concerns regarding adverse impacts of the DCFTA on its domestic economy. In September 2014, a trilateral meeting of the EU Commission, Ukraine and Russia agreed to postpone the implementation of the DCFTA by Ukraine until end-2015. In exchange, Russia agreed to maintain the CIS free trade agreement with Ukraine.⁵⁶

Russia insists on further negotiations, requiring an amendment of the DCFTA and being de facto a party in future EU negotiations with Ukraine. According to a document leaked to the Ukrainian press,⁵⁷ Russia allegedly demands to remove more than 2000 positions from the tariff-free access for EU exporters to the Ukrainian market and calls for guarantees of openness of the Ukrainian market for Russia (see Figure 13 for details). With respect to technical regulations and SPS norms, Russia requests an amendment of the DCFTA which would allow Ukraine to apply both the EU and existing CISFTA regulations simultaneously even after the DCFTA is fully implemented.

Apart from the loss of face for the EU, the delay in the implementation of the DCFTA also results in a delay of its expected benefits (see Box 3 and Speck, 2014; Emerson, 2014c). Would the newly signed AA/DCFTA with the EU – assuming it is actually implemented (which is far from certain, taking into account the poor track record of Ukraine's compliance with its contractual obligations so far and Russian pressures) – be conducive towards reaching the goal to restructure and modernise Ukraine's economy via FDI inflows, as well as to implement the required institutional reforms ('acquis') even without an explicit EU accession 'anchor'?⁵⁸

⁵³ Paradoxically, Ukraine, Russia and the EU agreed in September 2014 at the trilateral meeting in Brussels to delay the implementation of the trade-related part of the AA/DCFTA until end-2015 – see Havlik (2014) and *Financial Times*, 4 February 2015 for a detailed account of the controversial negotiations.

⁵⁴ At that time, the Ukrainian government estimated the costs of signing the AA/DCFTA at nearly USD 40 billion in 2014 (http://www.kmu.gov.ua/control/ru/publish/article?art_id=246935198&cat_id=246935198).

⁵⁵ See 'Myths about the EU-Ukraine Association Agreement: Setting the facts straight', European Commission, 22 January 2014.

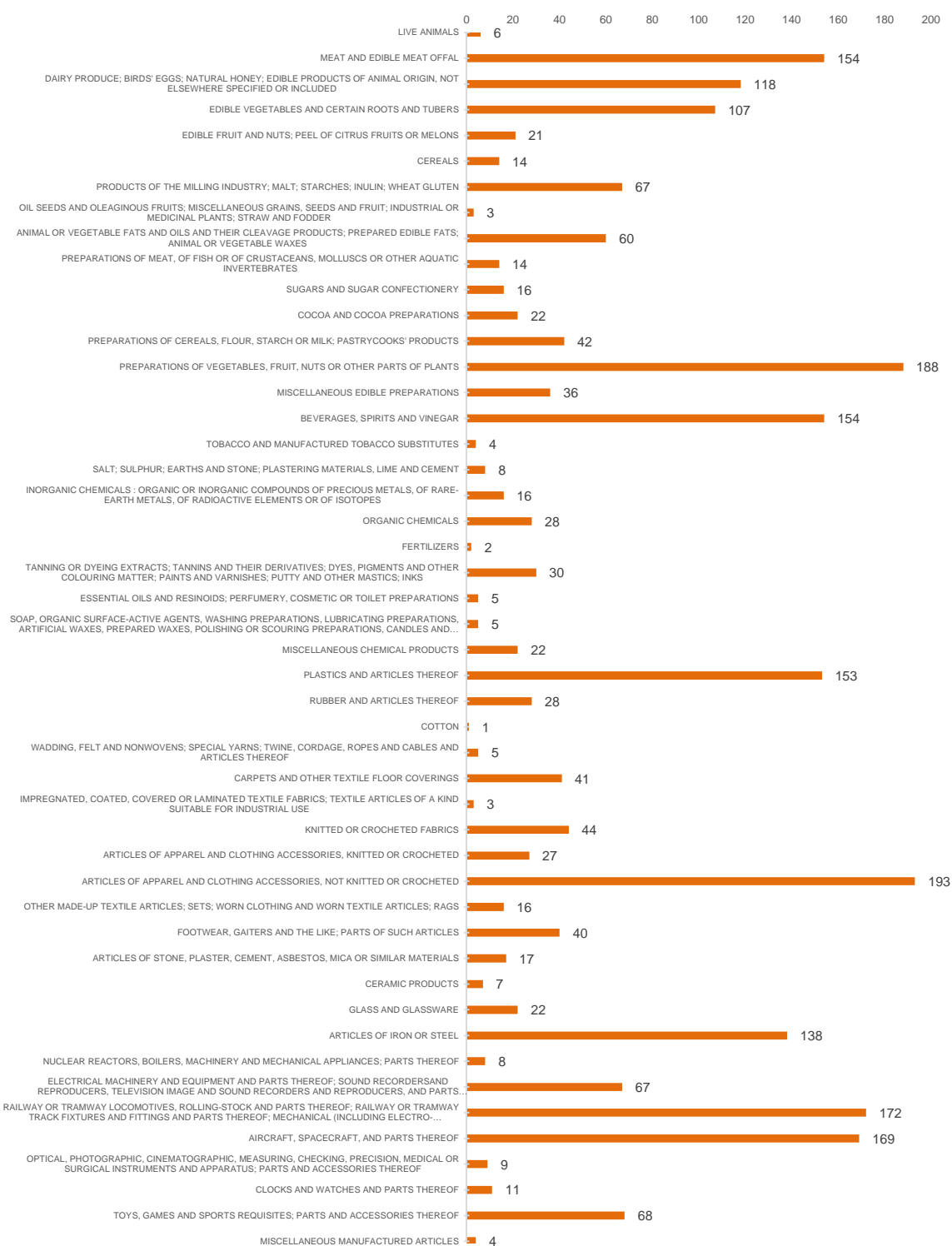
⁵⁶ See http://europa.eu/rapid/press-release_STATEMENT-14-276 of 12 September 2014. See also Emerson (2014b).

⁵⁷ See http://zn.ua/static/file/russian_proposal.pdf

⁵⁸ The AA/DCFTA was ratified by the European and Ukrainian parliaments on 16 September 2014. It entered provisionally into force in April 2014 and tariffs on Ukraine's exports to the EU were abolished, but the implementation on the Ukraine's side was delayed until end-2015 by the decision reached at the Joint Ministerial meeting in September 2014.

Figure 13 / Exemptions from the Ukraine-EU AA/DCFTA proposed by Russia

(by HS 2-digit industry group; total number of product titles listed is 2385)

Source: Own calculations based on: http://zn.ua/static/file/russian_proposal.pdf.

BOX 2 / WHAT IS THE CONTENT OF THE EU-UKRAINE DCFTA?

The EU-UA DCFTA represents a part of the Association Agreement and consists of 15 Chapters, 14 Annexes and 3 protocols – altogether more than 900 pages of text which was published in November 2012, and few experts have probably actually read it. According to Chapter 1 (Market Access for Goods) the vast majority of customs duties (99.1% by Ukraine and 98.1% by the EU) will be removed as soon as the Agreement enters into force after the ratification process is completed. Few sectors will obtain transition periods for removing customs duties (e.g. the automotive sector in Ukraine for 15 years and some agriculture products in the EU for up to 10 years); WTO rules will be generally applied to non-tariffs barriers. According to EC estimates, Ukrainian exporters will save EUR 487 million annually due to reduced EU import duties while Ukraine will remove around EUR 390 million in duties on imports from the EU. Ukraine will progressively adapt its technical regulations and standards to those of the EU.⁵⁹ Chapter 6 (which deals with services) aims at the expansion of the EU internal market 'once Ukraine effectively implements the EU-acquis'. Similar wording is used in relation to financial services, telecom, postal and maritime services. Chapter 8 (Public procurement) provides exceptions for the defence sectors in both Ukraine and the EU. For the first time, Ukraine's DCFTA includes specific provisions on trade-related energy issues (Chapter 11; Ukraine is already a member of the Energy Community Treaty which imposes an obligation to implement the EU energy acquis on electricity and gas). These include rules on pricing, prohibition of dual pricing and transport interruption to third countries as well as rules on non-discriminatory access to the exploration and production of hydrocarbons. Importantly, Protocol I of the DCFTA deals with rules of origin and defines the 'economic nationality' of products needed to determine the duties applicable to traded goods. Future EU-Ukraine relations will include EU-Ukraine summits and the Association Council with the power to take binding decisions. Last but not least, Article 39 of the agreement explicitly stipulates that the DCFTA 'shall not preclude the maintenance or establishment of customs unions, free trade areas or arrangements for frontier traffic except insofar as they conflict with trade arrangements provided for in this agreement' and consultations regarding these matters will take place within the Trade Committee.

Source: European Commission, DG Trade and Industry. For the English version of the whole text see [EU Ukraine Association Agreement English - 2012_11_19_EU_Ukraine_Association_Agreement_English.pdf](#) published on 19 November 2012 (a concise summary was published on the European Commission DG Trade website on 26 February 2013).

The EU has attempted to dismiss fears of Ukrainian (and Russian) opponents of the DCFTA (see Box 3 for some explanations provided by the EU). Admittedly, DCFTA implementation will be costly, especially in the short run, and the EU initially offered compensation and assistance (Havlik, 2013). Yet in the medium and long run considerable benefits are expected from increased trade, investments, competitiveness and improved welfare in general – as usually forecast in trade integration studies (see, for example, Pelipas et al., 2014 for an overview of integration effects studies). Before the 2013 Vilnius EaP Summit, European Commissioner for Enlargement and Neighbourhood Policy Štefan Füle attempted to de-escalate the situation, promised Ukraine a speedier AA/DCFTA implementation and

⁵⁹ See EU-Ukraine Association Agreement, Chapter 3, Technical barriers to trade. There is no available EC estimate for Ukraine's acquis takeover costs but, according to Ukrainian sources, these costs are doubtlessly considerable (see also Dreyer, 2012). Commissioner Füle, in his speech on 11 October 2013, mentioned the intention to help with an 'indicative amount of EUR 186 million'. For more details see Havlik (2013). For the experience of CEE NMS and the respective 'acquis takeover' costs estimates see Commission of the European Communities (2003).

also declared that the European Commission is 'working on overcoming the issues of legal compatibility between the AA and Customs Union' in order to 'prevent new walls in Europe'.⁶⁰ Mr. Füle also sharply rebuked claims regarding the adverse effects of an AA/DCFTA.⁶¹ In October 2013, he announced a 'post-Vilnius agenda' for Ukraine which would include financial assistance to support the implementation of the Association Agreement amounting to EUR 186 million and to move ahead with a macro-financial assistance of EUR 610 million, 'once the conditions are in place'.⁶² In the meantime, the EU assistance promised to Ukraine (not always related to AA/DCFTA implementation) has considerably increased: EUR 11 billion to support reforms, EUR 1.61 billion Macro Financial Assistance, etc.⁶³ In March 2015, a new IMF Extended Fund Facility (EFF) programme was adopted (see Chapter 2 above). The EFF comprises a USD 17.5 billion credit extended over a four-year period, and the overall western financial package (including the EU, the USA, IMF, EBRD, etc.) is set at USD 40 billion (including USD 15 billion to be saved via sovereign debt restructuring) – a considerably larger amount than offered initially, before the outbreak of the conflict.

BOX 3 / UKRAINE AND DCFTA IMPLEMENTATION – FACT SHEET FROM THE EU

'With the implementation of the Association Agreement, Ukraine will adopt EU standards for key industrial sectors, and firms will be required to undertake the necessary changes and investments that will result in the production of better and higher quality goods. The Agreement identifies several industrial sectors where the approximation to the EU regulations and standards is already foreseen, to be phased in over a number of years. For other sectors, including the agricultural sector, the Agreement foresees that the EU and Ukraine will agree a timetable for movement to EU standards. To make sure that the adoption of new standards results from a managed and controlled process, the Agreement gives Ukraine a certain amount of power to decide which sectors to prioritise, and the period of time required to make the changes.

This process will certainly not be achievable without cost. Modernisation of the Ukrainian industry cannot be done without investments that have unfortunately been lacking over the past 20 years. A considerable amount of investment will be needed by the companies themselves, by foreign investors and by assistance from government and the international financial institutions. But such investments will ultimately benefit the domestic and international competitiveness of Ukraine-based industries, and will benefit consumers by providing better quality goods. The EU is committed to provide its assistance, advice and experience in this important area.'

Source: Abbreviated from 'Fact sheet: Frequently asked questions about Ukraine, the EU's Eastern Partnership and the EU-Ukraine Association Agreement', Brussels, External Action, 12 June 2014.

⁶⁰ See Mr. Füle's speech at the conference in Yalta, Ukraine, on 20 September 2013.

⁶¹ See the above quoted speeches by Mr. Füle at the international conference in Kyiv and before the Ukrainian Parliament on 11 October 2013 at http://europa.eu/rapid/press-release_SPEECH-13-808_en.htm and [13-810_en.htm](http://europa.eu/rapid/press-release_SPEECH-13-810_en.htm).

⁶² Ibid.

⁶³ Fact Sheet EU-Ukraine relations, Brussels, 12 September 2014, 140912/01.

The implications of serious trade disruptions with Russia/EEU – apart from the direct consequences of the armed conflict in eastern Ukraine – have been analysed already before.⁶⁴ In particular, trade disruptions with Russia would affect Ukraine's machine-building sector, which accounted for 3.5% of Ukraine's GDP and 5.5% of employment in 2012 (gross output accounted for nearly USD 20 billion and 600 thousand employees). A complete loss of the Russian machine-building exports would directly reduce Ukrainian GDP by 1.1% according to these estimates.⁶⁵ However, the overall immediate losses resulting from trade disruptions with Russia and the EEU will most likely be higher, weighing heavily on Ukraine's economy and society for a longer time. Estimates show that just 15% of Ukraine's major export positions traded with the Russian-led EEU could be potentially relocated to other markets (in value terms, these are just USD 2.9 billion of exports out of more than USD 19 billion exported to the EEU in 2013; see Heyets and Shinkaruk, 2014), and the annual revenue loss may reach some USD 15 billion. In addition to reduced goods exports, Ukraine is likely to suffer also from reduced transit fees for gas exports as Russia will now surely accelerate its efforts to bypass Ukraine as a gas transit country.⁶⁶ Moreover, there will also be less FDI from Russia and a potential loss of money transfers from Russia at USD 7-8 billion (about 5% of Ukrainian GDP).⁶⁷ Net revenues from transport services amounted to more than EUR 3 billion in 2013. In the worst case of a 'shock scenario', Vinokurov et al. (2014) estimate the annual loss from the break-up of economic relations with Russia for Ukraine at USD 33 billion and the cumulated overall losses for the period 2015-2018 up to USD 100 billion.⁶⁸

SPECTRUM OF TRADE INTEGRATION OPTIONS FOR UKRAINE

While Ukraine has made progress in the direction of EU integration with the signature of the AA, the dilemma between European and Eurasian integration that was at the heart of the conflict in 2013/2014 still holds as the split between western and eastern parts of the country will last into the foreseeable future. In the long run, successful EU integration is expected to bring multiple benefits to Ukraine not only in the trade dimension, but also in reforming institutions and infrastructure building, altogether allowing for more investments and a more sustainable economic development. However, there is also a viable economic logic behind preserving existing linkages and promoting integration efforts also with respect to Eurasian integration, stemming from the strong economic linkages between Ukraine and Russia formed during the past. For Ukraine, the abrupt choice between European and Eurasian integration is even more difficult, as it is among the countries that still

⁶⁴ Apart from Glazyev's and Yanukovych's above-quoted government estimates, see, for instance, Saha et al. (2014) and Vinokurov et al. (2014). These authors estimate that one third of Ukraine's machine-building output was exported to Russia in 2012 and is potentially threatened.

⁶⁵ This is without military-related and dual-use trade which has been restricted by both Ukrainian (on 16 June 2014) and Russian authorities after the outbreak of the military conflict. Russia stopped also the cooperation in the space industry affecting 80% of the production of the Yuzhmash Plant in Dnepropetrovsk (Gazeta.ru, 2 February 2015).

⁶⁶ Instead of the abandoned South Stream pipeline, Russia plans to build an alternative 'Turkish Stream' pipeline which will also bypass Ukraine – see <http://www.euractiv.com/sections/energy/russia-says-it-will-shift-gas-transit-ukraine-turkey-311291>.

⁶⁷ Officially recorded remittances of Ukrainians working in Russia amounted to more than USD 3 billion in 2013 according to the Central Bank of Russia – see http://www.cbr.ru/statistics/print.aspx?file=CrossBorder/C-b_trans_countries_13.htm&pid=svs&sid=TGO_sp.

⁶⁸ English summary available at http://www.eabr.org/e/research/centreCIS/projectsandreportsCIS/index.php?id_4=41399. The Ukrainian Industrialist Union estimated in June 2014 that cumulated costs related to the implementation of the DCFTA would amount to EUR 170-180 billion over a ten-year period – see *Kommersant*, 22 September 2014. These estimates are presumably based on the extrapolation of the estimated acquis-related costs incurred earlier in Poland. Before the EU eastern enlargement in 2004, a study by the European Commission estimated the costs of the takeover of the environmental 'acquis' by the CEECs to range between EUR 80 and 100 billion – see Commission of the European Communities (2003).

maintain relatively technology-intensive production linkages and intra-industry trade (along with Belarus, Russia, and Uzbekistan) which is exposed to significant risks in the case of one-sided EU integration. Reverting back to the pre-conflict state with the Kyiv government regaining control over the entire Ukraine is highly unlikely and – in the best-case scenario – one can hope that after the military clash has ended Ukraine will attain a 'frozen conflict' state with a certain degree of decentralisation/autonomy granted to Ukraine's rebel-controlled East. Therefore, leaving aside extreme scenarios involving continuing military clashes or even outright war, the space for possible economic integration routes in Ukraine is rather narrow:

Scenario 1. European integration + standard MFN regime with Russia/the EEU. Ukraine focuses on EU integration and implements the AA/DCFTA while abandoning efforts to achieve any preferential trade options with Russia and the EEU. In turn, Russia along with its EEU partners suspends the (formally still existing) free trade agreement with Ukraine and replaces it with the 'most favoured nation' regime along WTO lines. Furthermore, the EEU or Russia may selectively apply non-tariff barriers to Ukrainian products deemed to be sensitive for the Russian/EEU market. However, in this case EU integration also risks to be hindered. Taking into account how the conflict has been evolving so far, after the military pressures abate, Ukraine is very likely to face the 'Transnistriasation'/'Bosniasation' issues: while the territorial integrity of Ukraine is formally preserved, rebel-controlled eastern Ukraine territories are de facto either granted extensive autonomy if Kyiv agrees to proceed with the federalisation of Ukraine, or, alternatively, they fail to recognise Kyiv's legal authority and remain in a unresolved 'special' status akin to Transnistria in Moldova, rejecting the idea of the EU integration.⁶⁹ In the case of federalisation, eastern Ukraine gains the ability to influence or veto important strategic decisions by the Kyiv government, which may result, given Russia's significant political and economic influence on the region, in a largely dysfunctional state, somewhat resembling the complex political structure of Bosnia and Herzegovina. This will preclude or severely undermine attempts by the Kyiv central government to implement the AA/DCFTA-related reforms on the whole Ukrainian territory. Therefore, under this scenario, strategic decisions concerning economic or political integration with the EU will be delayed (frozen) while the push for more EU integration attempted by the central government may reignite the frozen conflict and/or trigger the realisation of Scenario 4.

Scenario 2. European integration + preferential trade regime with the EEU/CISFTA for all or selected product categories with 'rules of origin'. Participation of a country in several free trade zones does create policy contradictions, but these can still be effectively addressed. The DCFTA precludes entry of Ukraine to the EEU as its member states share common external tariff, as well as coordinated economic policies. However, it is compatible with the preferential trade regime within the CIS Free Trade Agreement signed in 2011 between Armenia, Belarus, Moldova, Kazakhstan, Kyrgyzstan, Russia, Ukraine and Uzbekistan. It should be noted that neither the DCFTA nor the CISFTA block their members from participating in other trade agreements and, in fact, Belarus, Kazakhstan and Russia have been concurrently operating under the Eurasian Customs Union regime since 2010. Overall, there are multiple cases of countries participating in several preferential trade arrangements

⁶⁹ Moldova's breakaway region of Transnistria is heavily dependent on Russia, which has considerable military presence there and accounts for some 70-80% of the Transnistrian budget. While Moldova signed an AA with the EU in 2014, Transnistria has been refusing so far to join the DCFTA, despite the fact that about a third of its exports are directed to the EU due to the concurrent EU Autonomous Trade Preferences regulation (ATP). Moldova may now quickly become another arena of conflict driven by the EU-Russia tensions, given its intensifying political crisis and the expiry of the ATP by the end of 2015. In the recent local elections in March 2015, the Gagausian separatist region in Moldova voted for accession to the EEU. See also: <http://www.euractiv.com/europes-east/moldova-eu-commission-clarifies-news-532785>; <http://www.neweasterneurope.eu/articles-and-commentary/1462-transnistria-s-economy-going-from-bad-to-worse>

simultaneously; for instance, the United States, Canada and Mexico, while being part of NAFTA, individually negotiated free trade agreements with other countries. Achieving such an arrangement may certainly not be an easy task given Ukraine's commitments under the EU approximation requirements, and the terms should be negotiated individually. However, the legal framework of both blocs does leave enough room to address major concerns expressed by Russia regarding Ukraine-EU relations (discussed later in more detail). The fears that Ukraine may re-export to Russia goods brought in from the EU duty-free may be addressed by following 'rules of origin' – a commonly used approach to deal with the so-called problem of trade deflection arising as a result of differences in tariff levels between partners within the same trade bloc. In addition, exemption/temporary exclusion lists for product groups deemed to be sensitive for the EEU/CISFTA and Ukraine could be negotiated. In the worst case, if it is discovered that such a trade arrangement leads to imbalanced trade and is hurting certain industries of the bloc, the CISFTA Agreement (Article 18 and Annex 6 to the agreement) allows the Customs Union members to revert to MFN after negotiations with member states.

Scenario 3. Free trade area arrangement between the EU and the EEU or CISFTA. As already mentioned, it is often argued that the EU and the EEU are mutually exclusive blocs as one cannot satisfy the requirements of having higher tariffs against the EU while simultaneously abolishing them under the regulations of the AA/DCFTA, unless the two blocs establish a common free trade area. A general willingness to facilitate free trade 'from Lisbon to Vladivostok' was already indicated by the leaders of Russia and Germany. Spanning a huge territory, such an arrangement would bring not only significant economic benefits to the members, but would also help to trigger the necessary structural changes in the Eurasian economies and resolve Ukraine's geopolitical trade orientation dilemma. However, importantly, it is not merely the legal provisions that raise a sharp divide between the two trade blocs, but the differences in the shared values, and social and political institutions. The possibility of progress along a joint pan-European-Eurasian free trade area nowadays lies almost entirely in the political dimension, and unfortunately the situation in Russia is currently steering in the opposite direction, with long-run negative consequences for the entire region. Yet, for the Eurasian economies now could be the time for a turning point and an optimal choice as the prospects for the commodity-based EEU economies are bleak and alternative development strategies are being considered. Trilateral negotiations focusing on the implications of Ukraine's EU integration could trigger at least some progress in the direction of a free trade area 'from Lisbon to Vladivostok' which would relieve Ukraine from the unfortunate 'either/or' integration dilemma.

Scenario 4. Ukraine split: European integration of western Ukraine, Eurasian integration of eastern Ukraine. Assuming that the legal space of western Ukraine and eastern Ukraine controlled by the pro-Russian separatists is ultimately split, trade and non-trade flows between Russia and eastern Ukraine will be determined solely by the Russian side and local authorities of the rebel-controlled regions. In relation to this, it is not very clear what the pro-Russian factions in eastern Ukraine are trying to achieve in the longer run with regard to their foreign economic relations. Some signals via sporadic public announcements suggest that they might wish to have a special territory status which would allow to conduct independent external economic activities and to maintain close ties with Russia and the EEU. This may yield way to an 'exotic' scenario in which, with deep 'Transnistriasation' of Ukraine and heavy Russian influence across the pro-Russian territories, unlike in Scenario 1, Russia may choose to preserve preferential trade and possibly attempt a deeper integration with selected eastern territories of Ukraine, while the Kyiv central government may find it less costly to focus on the AA/DCFTA and route its resources to the territories under its direct control, allowing for some sort of special economic zone

arrangement for the eastern territories or maintaining a 'frozen conflict' state. However, the idea of such a special economic zone for a part of Ukraine itself looks awkward, implying that border controls between western and eastern Ukraine are established along with the 'rules of origin', which would ultimately undermine the notion of Ukraine as a single state and inhibit EU integration of Ukraine.

WHAT TO DO IN ORDER TO LIMIT THE POTENTIAL DAMAGE: POLICY IMPLICATIONS

Obviously, the first recommendation would be to stop the armed conflict, try to normalise the (economic) relations with Russia and maintain/develop trade linkages with both the EU and the Russian-led blocs of the EEU and/or the CISFTA.⁷⁰ However, at present this appears fairly unrealistic even in the medium term and alternative solutions need to be explored in order to curtail the potential damages. Ukraine's domestic market will not – even under 'normal' conditions and without the crisis-related effects of the conflict – be able to absorb the redundant machine-building output which used to be exported to the east. A redirection of exports to third markets and/or a conversion of military-related cooperation linkages will also be difficult – even in the medium and long run. Though politically difficult in the current circumstances, a negotiated EU-Russia (and EU-EEU) free trade agreement would be a meaningful way forward to overcome the current stalemate. In the meantime, transitory solutions could be implemented which should take into account the fact that neither Belarus nor Kazakhstan (other EEU members) are WTO members yet. A similar proposal has recently been put forward by Emerson (2015) and Yavlinsky (2015) as well.⁷¹

For Ukraine, Saha et al. (2014) propose a modernisation strategy directed at improving competitiveness as the only viable strategic option for a compensation of the expected market access losses in Russia. The success of the modernisation strategy requires – apart from the obvious necessity to stop the inner-Ukraine armed conflict – investments (in particular foreign direct investments), sustained government (industrial) policies and more consequent reforms. However, some of the necessary industrial policy measures (such as the protection of vulnerable sectors or direct support for restructuring) may be in conflict with the macroeconomic adjustment programme associated with the IMF EFF package, existing WTO obligations, implementation of the DCFTA with the EU, etc. An additional complication for the successful modernisation strategy may result from delayed implementation of the DCFTA, weakening the potential impact from one of the important expected medium- and longer-term DCFTA benefits – namely the pressure for modernisation and reforms (see also Speck, 2014b).⁷² The need to continue trilateral talks about the implementation of the DCFTA between Ukraine, Russia and the EU was reiterated once more at the Minsk-2 negotiations in February 2015. Looking forward – and moving from the current confrontation to a more cooperative strategy – trilateral negotiations between the EU, Ukraine and Russia/EEA about the prospective cooperation in the medium and long run should be launched as soon as possible. As rightly stated by Kotkin (2015), 'no external power or aid package can solve Ukraine's problems or compensate for its inherent vulnerabilities vis-à-vis Russia'. Realistically,

⁷⁰ This was suggested by numerous analysts already well before the ominous Vilnius EaP Summit in 2013 (see Hoekman et al., 2013; Havlik, 2013).

⁷¹ In fact, not long ago the expectation was to launch EU-Russia free trade negotiations after the latter joins the WTO (this happened, after protracted negotiations, already in 2012).

⁷² In view of the subsequent escalation of the conflict and mutual trade embargoes, the delayed DCFTA implementation has currently lost its impact while being overshadowed by other problems.

the way out of the conflict is a negotiated larger settlement which goes beyond Crimea and eastern Ukraine, ideally resolving also other 'frozen conflicts' on the post-Soviet space.⁷³

Specific policy recommendations may include the following areas:

Focus on macroeconomic stabilisation reforms, possible postponement or gradual phasing-in of the implementation of the DCFTA until sufficiently stable macroeconomic conditions are achieved. The current regime – under which the CISFTA preferential regime as well as free EU market access for most of Ukraine's products are granted, while liberalisation of Ukraine's market with respect to imports from the EU and the implementation of the *acquis* are delayed – alleviates the extremely stressful business environment. Ukrainian businesses currently face multiple shocks, including a rise in energy costs, and very tight monetary conditions, which further exacerbate their historically low competitiveness relative to their EU counterparts. Increasing the level of competitive pressures on the domestic market of Ukraine as a result of fast trade liberalisation may have devastating consequences for many Ukrainian industries. The unilateral liberalisation of trade by the EU with respect to Ukraine, while Ukraine keeps its current level of protection, will provide Ukrainian producers at least some more time to address the urgent issues. Therefore, it might be reasonable to consider postponing DCFTA implementation and its phasing-in conditional on achieving a sufficiently stable macroeconomic environment, although – as mentioned above – this may also delay potential medium- and long-run benefits of integration due to approximation to the EU standards.

Ukraine is facing a deep recession with a wide range of issues concerning its currency, fiscal situation, external debt, and weak financial sector, aggravated by the ongoing conflict in eastern Ukraine. The assistance package that has been provided to Ukraine is hardly sufficient for macroeconomic stabilisation (see Chapter 2 of this report) and is subject to significant risks. In such a highly fragile situation Ukraine cannot afford, due to lack of financial and administrative resources, to tackle multiple costly reform undertakings simultaneously. Macroeconomic stabilisation is the necessary precondition for successfully implement the AA/DCFTA-related reforms and should be addressed first. Granting another year of free market access to Ukraine will certainly not result in significant losses for the EU as Ukraine's share in the EU market is insignificant. In a situation when international donors are constrained in extending additional financial aid to Ukraine, this could be instrumental. This may also contribute to macroeconomic stabilisation by partially offsetting direct and indirect costs of the fiscal sector of Ukraine, and aiding its balance of payments issues by facilitating net exports. Trade liberalisation, by contrast, will put extra pressure on Ukraine's current account (e.g., the current account deteriorated after WTO accession in 2008). The objections against postponing the DCFTA focus predominantly on 'political importance' and 'loss to Russia' arguments. However, economic pragmatism is needed in this case for reforms in Ukraine to be successful. Abstracting from these ideas, the principal objection dwells on the notion that without the pressure of greater competitiveness the Ukrainian authorities will not have sufficient incentives to carry out reforms. While there is certainly a rationale behind this claim, the tremendous pressures that Ukraine's economy is currently facing along with the conditionality of the financial aid that is currently disbursed or considered by the global community linked to the IMF Extended Fund Facility package, provide sufficient incentives to reform. The macroeconomic adjustment reforms are aimed, *inter alia*, at facilitating accountability and transparency of the Ukrainian government, along with other structural reforms that are complementary to the AA/DCFTA

⁷³ Needless to say, there are other voices that call for more focus on assisting Ukraine and a more resilient containment policy with respect to Russia – see, for example, Niblett (2015).

approximation requirements. The delay will yield additional time to analyse immediate, medium- and long-run challenges associated with the AA/DCFTA that were not carefully scrutinised previously as a result of the political turmoil, and will also reveal issues within the existing mechanism of financial aid use and reform implementation in the context of the Extended Fund Facility, Macro Financial Assistance, and linked aid, likely to be significant in view of the persistent corruption and governance problems.

Trade and development strategy which includes longer protection periods for sensitive and strategically important sectors. A long-term economic strategy for Ukraine concerning future areas of trade specialisation and competitiveness in the global and regional contexts should be formulated in the light of the expected consequences of EU integration and taking into account the limited resources available to support restructuring and significant competitiveness issues stemming from poor infrastructure, institutions, capital constraints, and energy efficiency. The experience of NMS suggests that industrial restructuring and modernisation induced by the AA/DCFTA is inevitable and the adjustment process could be costly. Public and private institutional capacities may not be sufficient for Ukraine to carry the costs of all-embracing convergence and some sectors may be entirely lost to more efficient European producers even upon achieving conformity with the EU technical regulations and standards. Therefore, the alignment of SPS and technical standards with the EU standards should in general be gradual for the sensitive industries to ensure orderly transformation. Under the current AA/DCFTA arrangements, several sectors are identified where the approximation to the EU regulations and standards are phased in over several years, while special 'defence' measures are applied only to passenger cars and worn clothes. The sectors requiring 'special defence' should be more carefully analysed taking into account current conditions and strategic industrialisation priorities formulated by Ukraine and a longer transition period should be negotiated to ensure their survival and orderly adjustment to a more competitive environment and new markets. Sizeable sectors with relatively high technology intensity in the east and south of Ukraine that are historically oriented towards Russian markets, but are not likely to easily find a market niche elsewhere, are of particular concern, including machinery, railway, chemicals, nuclear, and others, as identified in this Chapter, as well as sectors that enjoyed significant tariff protection.

Facilitate a constructive dialogue with Russia via trilateral negotiations. In general, a more constructive approach in addressing concerns expressed by Russia should be attempted by the EU and Ukraine (with regard to trade-related matters). As pointed out above, Russia is a significant trading partner for Ukraine, has close social, economic and cultural ties with Ukraine, and will likely remain among the most influential countries in the region with an ability to exercise substantial influence on Ukraine regardless of the EU integration process.⁷⁴ Discussions between the EU and Russia had continued before the conflict escalated: as indicated by the European Commission, since November 2013 it has engaged in the consultation process on the EU-Ukraine DCFTA with 10 meetings held. However, currently, the EU exhibits a lack of flexibility in addressing the concerns expressed by Russia and has reiterated that it is only ready to proceed further with the bilateral partnership if the Ukrainian crisis is resolved and Russia complies with the WTO regulations,⁷⁵ which, along with the sanctions, only contributes to a further escalation and effectively cultivates the Russian notion of a 'besieged motherland' as socio-political processes are moving fast in the dangerous direction of isolationism, nationalism and xenophobia. Fuelling social unrest in Russia could have potentially devastating

⁷⁴ See also Delcour and Kostanyan (2014); Kotkin (2015).

⁷⁵ This position was also reiterated at the meeting between the EU Trade Commissioner Cecilia Malmström and Russian Minister for Economic Development Alexei Ulyukayev in Brussels on 3/3/2015, originally requested by the Russian side.

consequences for Russia, Ukraine and beyond. Therefore, trilateral negotiations should continue along multiple dimensions, including trade policy, and should proceed in a more systematic, formalised and transparent manner and be decoupled to the extent possible from non-trade issues to ensure an effective dialogue and pragmatic solutions.

Safeguard Ukraine's membership in the CISFTA. Given the significant importance of Russia as a trading partner and the losses for Ukrainian industries if the open market access to Russian/EEU market is abolished, the objective of the trilateral negotiations should focus on the possibility of maintaining the preferential trade regime for Ukraine under the CISFTA framework. While membership in the EEU, which involves a customs union arrangement, is not compatible with the DCFTA, the CISFTA remains a feasible option allowing for an optimal consensus for the three parties. Ukraine can either negotiate preferential trade arrangements with Russia/EEU that liberalise trade for mutually agreed lines of products, or, preferably, remain in the existing CISFTA. CISFTA-focused discussions should involve other members of the CISFTA, however, a trilateral format may be used initially as the concerns raised by the three parties constitute the major obstacle to headway. Nevertheless, Russia, along with other EEU members, has the right to apply a standard trade regime to Ukraine involving the Common External Tariff and other barriers to trade in line with the WTO and EEU regulations, just as it does in the case of most other non-EEU members. As Ukraine is a member of the WTO since May 2008, it should receive equal MFN treatment in this case. Therefore, while Ukraine should try to find a consensus to maintain preferential trade with Russia and the CIS, its authorities should consider a strategy that ensures orderly adjustment of Russia-oriented industries in case Ukraine does not remain in the CISFTA and estimate the costs of adjustment, while the international community should consider providing technical and financial assistance to offset these costs.

Adoption of EU technical standards and SPS regulations. Along the lines of enabling the possibility for Ukraine to enjoy liberalised trade with both the EU and the EEU/CIS economies, a range of concerns expressed by Russia needs to be addressed. Besides potential re-exports, discussed earlier, which can be addressed in a conventional manner via the 'rules of origin' in line with the WTO regulations, Russian concerns include potential barriers to trade that may emerge as a result of Ukraine adopting the EU technical and SPS standards. For instance, Article 56 of the AA states that 'Ukraine shall withdraw conflicting national standards, including its application of interstate standards (GOST/ГОСТ), developed before 1992'. Russia is concerned that Ukraine will have to exclusively apply the EU standards (EN) and abandon the existing GOST standards used in the CIS, which would constitute a barrier to Russian exporters as well as inhibit exports from Ukraine to Russia of products that are made according to the EU standards for which Russia applies different standards. The proposed changes to the related articles (Article 56, 59, 64, 67, 70 of the AA) aim at establishing some sort of equivalence mechanism and mutual recognition of standards and technical regulations to ensure that Russian GOST standards apply also on Ukrainian territory. It should be noted that the EU standards are voluntary and do not preclude using other standards, as long as they do not contradict the EU standards. Ukrainian producers may still produce for export to Russia according to Russian standards, if they choose to, whereas the DCFTA specifies only 17 product standards for adoption within fixed time schedules of up to four years. In any case, closer scrutiny should be given to the issue of EN versus GOST standards, as this may indeed constitute barriers to trade. Addressing this could be done along two timelines: (1) In the medium term, as Russia has been attempting to harmonise its GOST standards with those of the EU on a bilateral basis, gradual convergence to the EU standards by Ukraine may be at least partially aligned with convergence by Russia (possibly, EEU and CISFTA). Convergence of the EU and EEU technical

standards and SPS standards is in Russia's interests as well, and some progress has been made in this direction along the lines of the CEN, CENELEC and Rosstandart cooperation agreement signed in 2013. The process of harmonisation and convergence of GOST and EN standards should continue and be encouraged, and also involve other CIS countries via the Interstate Council for Standardisation, Metrology and Certification of the CIS. Similarly, as part of their WTO accession agreements, both Ukraine and Russia have agreed to move towards international SPS standards, and this process should be facilitated. (2) The mechanism that will allow mutual recognition of standards and technical regulations by Russia and Ukraine needs to be considered as a temporary solution to alleviate technical barriers to trade.⁷⁶

Yet another set of proposed amendments (e.g. to Articles 64, 67 of AA) aims at implementing a sort of 'grandfather clause' in the AA which implies, e.g., that Ukraine should avoid adopting legislative acts creating a less favourable trade regime between Ukraine and Customs Union member countries. The proposition by Russia that it is granted the right to observe and make amendments to drafts of policy proposals on trade-related matters of the Ukraine-EU future relationship is certainly excessive. However, fears that changes to legislation induced by the approximation to the *acquis* may have negative implications for trade under the CISFTA framework are valid, and a trilateral mechanism to ensure information exchange and discussions with the CISFTA members (certainly, only if Ukraine maintains its membership in the CISFTA) should be established, as well as a transparent dispute resolution mechanism to resolve trade-related conflict situations that may arise as Ukraine adjusts its legislation to the EU *acquis*.

The negotiations focusing on a pan-European-Eurasian free trade area, embracing the EU and the EEU/CISFTA, should be encouraged. The need to strengthen bilateral trade relations between the EU and Russia/EEU has been recognised before the Ukrainian crisis.⁷⁷ Yet, because of the geopolitical issues, problems related to compliance with the WTO commitments by Russia, and the deepening Eurasian Economic Union, the progress along the EU-Russia partnership agreement, especially its trade and investment part, have stalled since 2010. An even more ambitious idea of a pan-European-Eurasian free trade area that has also emerged has been drawing much attention as well and a general interest is periodically expressed by both Russian and European political leaders, and the potential benefits of such an arrangement for all parties involved have been investigated by experts. The discussions concerning the feasibility, strategy and technical aspects of the hypothesised pan-European-Eurasian free trade area 'from Lisbon to Vladivostok' should be encouraged and transformed into a more consistent format, involving, besides Russia, other member states of the EEU and the Eurasian Economic Commission, and members of the CISFTA. However, as ambitious as such a goal may seem now, the steps made in this direction may yet be another brick in constructing a mutually beneficial long-run partnership not only in the economic area.

⁷⁶ Cenusa et al. (2014) also favour 'constructive discussion if the overall political context becomes sufficiently conducive'.

⁷⁷ See IIASA project 'Challenges and Opportunities of Economic Integration within a wider European and Eurasian Space' launched in 2013. *IIASA Options*, Summer 2014 (www.iiasa.ac.at).

CONCLUSION

The integration process of Ukraine has been obstructed by a lack of clear strategy and external intervention. However, the notion that the two integration directions of Ukraine – European and Eurasian – are competing and mutually exclusive is false. The preferred way forward would be to assess the possible ways how to make them compatible. Given that Russia will remain one of the critical political and economic players in the region under any circumstances, and may potentially invalidate any progress towards EU integration by Ukraine directly or via eastern Ukraine authorities, the interests of Russia should be taken into account when designing a sustainable integration strategy and drafting the corresponding agreements. However difficult it may sound given the recent political developments, there should be a way to find a mutually acceptable consensus for Ukraine, the EU and Russia. With regard to the trade dimension, headway is possible along one of the mutually beneficial scenarios mentioned earlier – our preferable medium- and long-run option is Scenario 3 – and trilateral consultations should continue in order to eliminate Russian concerns (the valid ones), while still maintaining progress and commitments to the AA/DCFTA as the top priority; this seems to be a constructive way to deal with the issue. In the meantime, the situation is likely to evolve along the 'Transnistriasation' scenario of Ukraine in the best case.

Summarising, we propose the following practical steps in order to move forward:

- › **Resolution of the military conflict.** This is the first priority and the necessary precondition for the subsequent macroeconomic stabilisation, investments in restructuring and growth, as well as for the implementation of institutional reforms along the AA/DCFTA lines.
- › **Macroeconomic stabilisation and delayed DCFTA implementation or its gradual phasing-in, conditional on macroeconomic stabilisation.** Macroeconomic stabilisation should be the next primary concern. Given limited financial resources and administrative capabilities, and in order to prevent excessive competitive pressures, it is reasonable to delay a full implementation of the DCFTA and hence temporarily shield the fragile domestic market from the EU import competition, while still maintaining free market access to the EU and the CISFTA, as currently arranged.
- › **Trade and development strategy.** A long-run restructuring strategy concerning future areas of trade specialisation and competitiveness in the global and regional contexts should be elaborated, taking into account the EU integration challenges and opportunities. An industrial policy for the restructuring/conversion of sectors that are not likely to withstand competitive pressures and/or the potential loss of traditional markets also needs to be devised as an inherent part of the long-run economic development strategy.
- › **Transition periods for sensitive sectors.** For industries that are sensitive to EU technical requirements and market liberalisation (machinery, railway, chemicals, nuclear, and others, as identified above) longer transition periods as regards approximation to the EU regulations should be negotiated in order to ensure orderly adjustment to a more competitive market environment.
- › **Facilitate a constructive dialogue with Russia via trilateral negotiations.** A more constructive stance should be taken by Ukraine and the EU with regard to Russia's strategic position and concerns expressed in relation to the AA/DCFTA effects. Trilateral negotiations focusing on trade-related

matters should be facilitated and decoupled to the extent possible from non-trade issues to ensure practical dialogue.

- › **Safeguard Ukraine's membership in the existing CISFTA.** The objective of the trilateral negotiations should focus on the possibility of maintaining the preferential trade regime for Ukraine under the CISFTA framework. While membership in the EEU, which involves a customs union arrangement, is not compatible with the DCFTA, the CISFTA still remains a feasible option allowing for an optimal consensus for the three parties concerned. While the CISFTA-focused discussions should involve other members of the CISFTA, a trilateral format may be used initially as the concerns raised by the three parties constitute the major obstacle to headway.
- › **Negotiations focusing on a pan-European-Eurasian free trade area** should be encouraged. The discussions concerning the feasibility, strategy and technical aspects of the hypothesised pan-European-Eurasian free trade area 'from Lisbon to Vladivostok' should be launched and transformed into a more consistent format, involving, besides the EU and Russia, other member states of the EEU and the CISFTA, as well as the Eurasian Economic Commission.

5. An FDI policy for Ukraine

BACKGROUND CONDITIONS

Attracting foreign direct investment (FDI) has been among the primary goals of most Central, East and Southeast European governments. Many of them have achieved remarkable foreign investment inflows in efficiency-seeking, export-oriented projects underpinning economic growth, institutional transformation and technological upgrading. But high FDI could often not be attained due to instable institutions, uncoordinated policies and inadequate business conditions.

Recently it has become increasingly difficult for middle-income countries to foster economic growth and competitiveness by foreign investments. FDI has subsided globally, and in Europe in particular, since the outset of the financial crisis. Multinational enterprises have become much more careful about putting capital at risk and banks have turned quite reluctant to finance investments. Not only cross-border investments are scarce but also host-country governments find it difficult to provide investors with a stable and attractive environment. Fiscal policy goals, international agreements and investor needs collide and call for a systematic analysis of options and trade-offs.

Ukraine developed a comprehensive FDI policy framework from the mid-2000s onwards. It has received technical support from the OECD, IMF, the World Bank as well as the EU Commission related to competitiveness, institutional improvement in general and also specifically in the field of FDI. Capacity-building to local FDI specialists has also been provided by international institutions such as at the Joint Vienna Institute. Recommendations of donors were partly implemented and resulted in the setting-up of the FDI agency InvestUkraine to provide support for investors. Several regional and local governments in Ukraine have also become active in promoting FDI. The results have been far from satisfactory, however. Although inward FDI stock per GDP is on par with Poland and Romania, much of the investment registered as foreign is round-tripping domestic capital. There is very limited FDI in greenfield projects and in export-oriented activities.

IMF Country Report No. 14/145 of May 2014 identified some of the FDI-related problems in a general way. In its forecast table the IMF extrapolates rather meagre FDI inflows of 2.4% of GDP until 2018. We think that there is more in it: FDI can become a more important source of financial stability and support to competitiveness and structural change. In fact, much of the problems related to FDI attraction goes beyond FDI policy in the narrow sense. The country's unfavourable ranking by the World Bank Doing Business indicators⁷⁸ shows the impediments to investments in general. Progress along those indicators, including institutional efficiency and competition, are the foundations for a successful FDI policy.

The circumstances for FDI have worsened in Ukraine over the past year. First, the country is considered as being at war and close to financial default, which deters investments, both foreign and domestic. Second, there are signs of an institutional vacuum, and new structures are still to emerge. The

⁷⁸ www.doingbusiness.org

InvestUkraine website is not operational and the contacted regional investment agencies did not respond to inquiries in January 2015. More pressing issues seem to be in the focus of policy-makers than a revamp of FDI policy. But it is not the current desperate situation but one with resumed basic political and economic stability which would facilitate a re-start of FDI. We build recommendations based on past achievements which, combined with lessons of best practice of other countries, may foster higher direct capital inflows in the future.

FDI IN UKRAINE – FACTS AND TRENDS

We start with an overview of FDI statistics and benchmark Ukraine to peers such as Belarus, Poland and Romania. Balance of payments statistics reveal that FDI inflow in Ukraine has not been inferior to the peers up to recently (Table 5). Inflow as a percentage of GDP was higher than in the other three countries and the average of the CESEE countries in 2009-2012 (Figure 14). As a result, the share of Ukraine in the CESEE countries' FDI stock increased from 2.7% in 2007 to 4.5% in 2013 (Table 6).

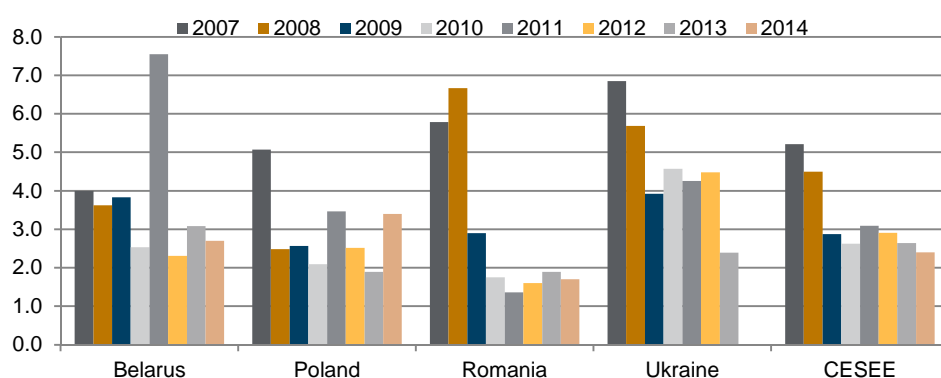
Table 5 / FDI inflow, EUR million

	2007	2008	2009	2010	2011	2012	2013	2014
Belarus	1313	1544	1321	1041	2787	1137	1693	1379
Poland	15896	9040	8064	7520	13068	9729	7510	13000
Romania	7250	9496	3489	2220	1814	2139	2725	2300
Ukraine	7441	7312	3419	4860	5177	6360	3396	309
CESEE	135283	134091	71561	78649	102176	105233	97332	70000

Remark: Based on Balance of Payments Manual, 5th edition.

Source: wiiw database; 2014 wiiw estimate

Figure 14 / FDI inflow in % of GDP



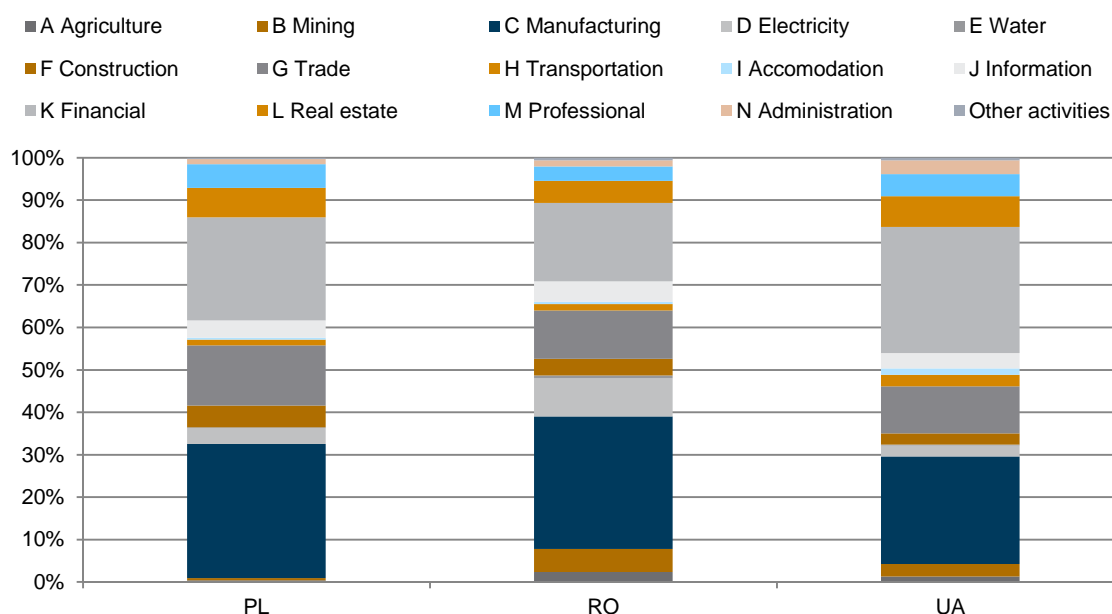
Source: wiiw database

Table 6 / Relative size of FDI

	Inflow in % of CESEE				Inward stock in % of CESEE			Inward stock in % of GDP		
	2007	2010	2013	2014	2007	2010	2013	2007	2010	2013
Belarus	1.0	1.3	1.7	2.0	0.3	0.6	0.9	9.3	18.2	22.2
Poland	11.8	9.6	7.7	18.6	12.3	13.1	12.3	37.0	42.5	39.9
Romania	5.4	2.8	2.8	3.3	4.5	4.5	4.8	34.1	41.5	42.5
Ukraine	5.5	6.2	3.5	-0.3	2.7	3.7	4.5	23.9	41.0	40.3

Source: wiiw database

The main target of FDI in Ukraine has been the financial sector; its share in total inward FDI stock is higher than in Poland or Romania (Figure 15). The share of manufacturing, on the other hand, is smaller in Ukraine. This means that even more than in other countries, foreign investors have targeted the domestic market and there is a lack of export-oriented, efficiency-seeking FDI.

Figure 15 / Inward FDI stock by economic activity, 2012

Source: wiiw database

Within manufacturing, FDI targeted first of all the two main sectors of the Ukrainian economy, namely the production of basic metals and of food (Table 7). The figures for these two industries seem to be overstated as some of the Ukrainian companies have established headquarters abroad. Most notably the largest industrial conglomerate Metinvest B.V. is registered in The Hague, Netherlands⁷⁹.

⁷⁹ Metinvest, largely owned by the Ukrainian oligarch Rinat Akhmetov, has eight industrial assets in the steel segment located in Ukraine and the EU, including the largest steel plants in Ukraine: Azovstal Iron and Steel Works, Ilyich Iron and Steel Works, Yenakiieve Steel, Khartsyzsk Pipe (the only producer of large diameter pipes in Ukraine) and, in the coke and chemicals sector, Avdiivka Coke and Inkor Chemicals (the largest producer of crude naphthalene in the EU).

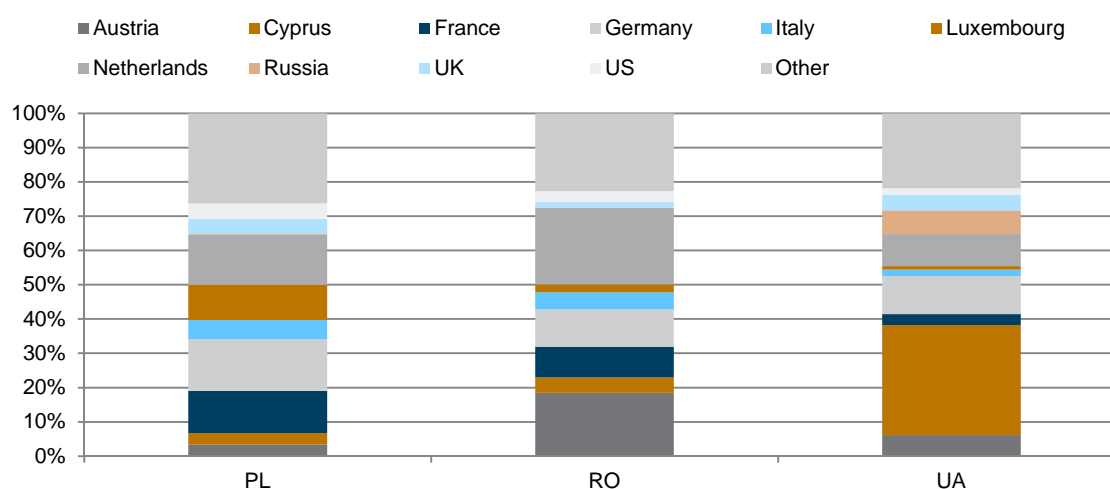
Table 7 / Ukraine: Inward FDI stock by economic activity, Total and Manufacturing, NACE Rev. 2, in %

	Stock, %			Manufacturing stock, %	
	2009	2013		2009	2013
A Agriculture	1.7	1.4	CA Food	16.3	22.4
B Mining	2.5	2.9	CB Textiles	1.4	1.0
C Manufacturing	29.5	25.3	CC Wood	3.7	3.4
D Electricity	0.7	2.6	CD Coke	3.8	2.7
E Water	0.2	0.2	CE Chemicals	6.7	7.2
F Construction	3.2	2.8	CF Pharmaceuticals	0.3	0.5
G Trade	10.9	13.0	CG Rubber	10.2	10.1
H Transportation	2.5	2.8	CH Basic metals	46.8	42.7
I Accommodation	1.2	1.5	CK Machinery n.e.c.	9.3	7.5
J Information	4.3	3.6	CM Other	1.4	2.6
K Financial	31.0	26.4	C Manufacturing	100.0	100.0
L Real estate	6.1	7.5			
M Professional	2.9	5.9			
N Administration	2.3	3.4			
Other activities	0.8	0.6			

Source: wiiw database

The main investing country in Ukraine is Cyprus (Figure 16). The role of Cyprus has increased in recent years. This country can be identified as a tax haven frequented by Russian and also Ukrainian investors to register companies operating in their home country (88% of Ukrainian outward FDI stock has gone to Cyprus). This indicates that most probably a large part of the FDI inflow in Ukraine is not genuine foreign capital but round-tripping domestic capital. Also Russian investors may be in the background of FDI originating from Cyprus; thus, the share of Russian ownership in Ukraine may be understated.

Figure 16 / Inward FDI stock by investing country, 2012



Source: wiiw database

Regarding the information gained from the above FDI inflow and stock data, one can conclude that they widely overstate the real importance of FDI in the Ukrainian economy. Round-tripping capital through holdings abroad does not bring new capital, technology and knowledge into the country. Such holdings are artificial constructions having often the aim of avoiding taxation. At the same time, insecure property rights and the fear of re-privatisation may have also prompted owners of Ukrainian companies to shift headquarters abroad.

Table 8 / Number and value of cross-border M&As, 2010-2013 cumulated

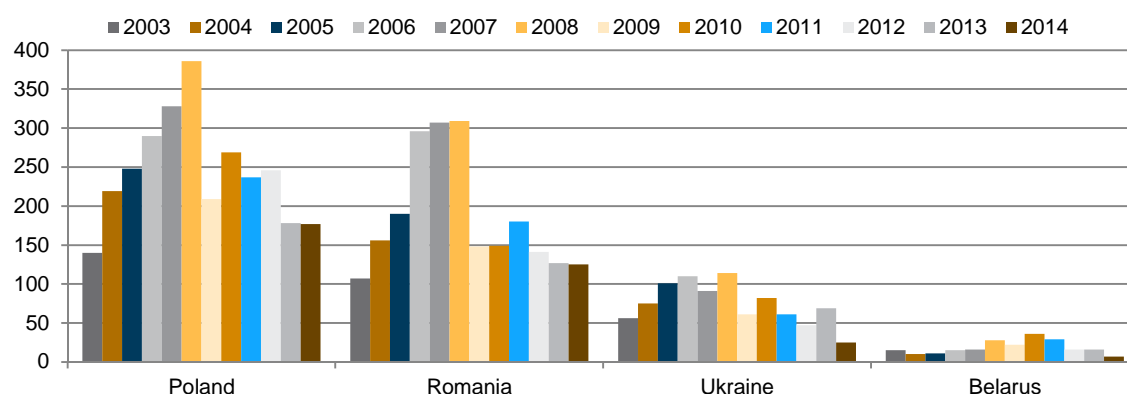
	Number sold	Value of sales, USD mn	Number purchased	Value of purchases, USD mn
Poland	12851	12416.3	136	4353.2
Romania	297	341.5	25	23.9
Belarus	685	672.0	9	214.9
Ukraine	1817	1986.3	110	1018.5

Source: UNCTAD database

FDI can have two entry modes: mergers and acquisitions (M&As) and greenfield investment including enlargement projects.⁸⁰ As to M&As, Ukraine has been a more important target than Romania or Belarus (Table 8). The number of Ukrainian companies sold to foreign investors was much higher than that of companies purchased by Ukrainian investors abroad in 2010-2013. The value of sales was USD 2 billion and that of purchases USD 1 billion, thus much closer to each other than the number of deals. Related to the size of the country, these figures are still low, especially in view of the size of state property that should be privatised.

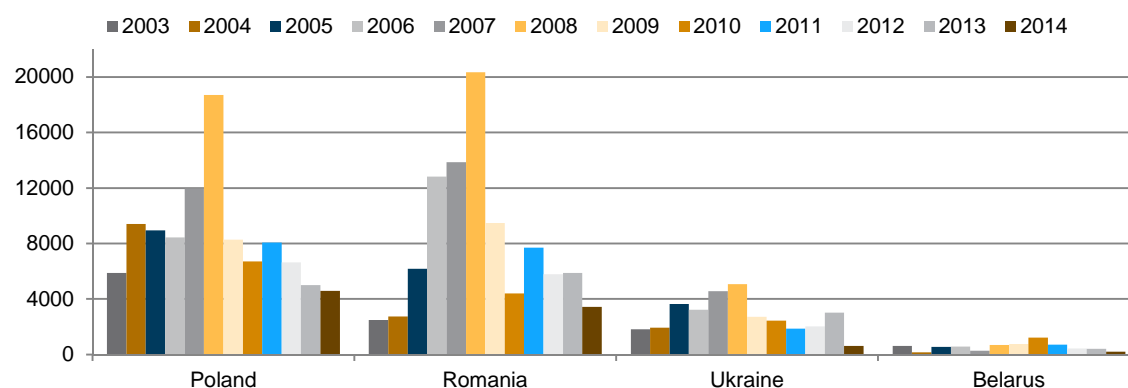
The number and value of greenfield projects in Ukraine has been much smaller than in Poland or Romania (Figure 17). The increase up to the financial crisis was more modest and the decline in later years much smaller than in the peers. In 2014 foreign investors avoided Ukraine: only 25 projects were announced as compared to 69 in the previous year while the capital investment pledged in the greenfield projects (Figure 18) declined from EUR 3 billion 2013 to EUR 600 million in 2014.

Figure 17 / Number of greenfield projects



Source: fdimarkets.com

⁸⁰ Information on M&As and greenfield FDI is compiled from press reports and company data which are not directly comparable either with each other or with balance of payments data. The sources used in this paper are the database of UNCTAD for M&As and fdimarket.com for greenfield investments.

Figure 18 / Value of greenfield projects, EUR million

Source: fdimarkets.com

The sectoral distribution of projects (see Annex Table 5) demonstrates that foreign investors have established a large number of rather small manufacturing production units and a number of even smaller ICT units in Ukraine. The automotive industry has not been a main target which is a big difference compared with Poland or Romania. Assembly lines operate only for the local market. But some automotive and ICT suppliers that are present also in other countries of the region produce for exports in Ukraine as well, including (source: fdimarkets.com):

- › *Flextronics* (Singapore) invested in the city of Mukachevo in an electronic components manufacturing project in 2007.
- › *Leopold Kostal*, the German manufacturer of advanced electronic and electromechanical (mechatronic) products, opened a subsidiary company in Pereiaslav-Khmelnytskyi located in the Kyiv Oblast in 2007.
- › Germany-based *Leoni*, a leading provider of cables and cable systems to the automotive sector and other industries, announced the setting-up of a manufacturing facility in Ukraine by its wiring systems division in 2011.

Among the projects established in 2014, there are several software and IT services projects:

- › *Gumi* (Japan) is investing in the city of Kyiv in the software & IT services sector in a design, development & testing project setting up a mobile games developer. It will open a new studio with a focus on developing English-language games for the North American market.
- › *DataArt* (United States) is investing in the city of Lviv in the software & IT services sector in a sales, marketing & support project. The company has employed 20 engineers and project managers, and expects to grow the office to 100 staff by the end of 2014.
- › *Team International* (United States) is investing in the city of Lviv in the software & IT services sector in a design, development & testing project. The new development centre aims to become a key outsourcing destination for businesses in Western Europe and North America.

- › *Miratech* (Sweden) is investing in the city of Vinnytsya in the software & IT services sector in a design, development & testing project, creating 15 jobs. A technical laboratory in collaboration with a local university may also be established by Miratech in the city.

These examples show that low wages do attract investments into Ukraine in labour-intensive activities, and the country has chances to become a component production and service provider platform. It may even attract relocating projects from new EU members such as Poland, based on significantly lower wages, provided political and economic consolidation is achieved. Conditions for investments which are better than those in Ukraine as a whole may be found in some western regions of the country. The recently established projects quoted above are all located in the capital city or in the western part of the country. These are rather small projects as of now, but may expand based on competitive wages if business conditions improve.

Future FDI policy may target both entry modes. Cross-border M&A is necessary to dismantle monopolies and to support progress in privatisation whereas greenfield projects are in demand to bring in technology and establish internationally competitive export-oriented production. Sweeping changes concerning the institutional environment are necessary to succeed in both.

FDI REGIME IN UKRAINE

Previous governments put in place institutions and frameworks to foster and promote FDI in Ukraine. With a view to improving the investment climate, Ukraine adopted an 'Investment reform' in 2011, targeting the preparation and promotion of strategic investment proposals. A 'one-stop-shop' investment promotion department called 'InvestUkraine' (launched in January 2012) was created in the State Agency for Investment and National Projects of Ukraine.⁸¹ The operation of InvestUkraine in principle corresponded to the international best practice according to the chart below:



The website 'Investukraine.com' was out of service in February 2015 – hopefully to be interpreted as a sign of renewal.

The investment incentive regime established in 2011 was on the whole attractive. It was most probably not because of the lack of incentives why greenfield investors avoided the country. As of 2012, corporate income tax and dividend tax were reduced to internationally competitive levels. In addition, the Ukrainian FDI law provided for special regimes⁸² similar to those in other countries:

- › sector-based incentives: total exemption from taxation until 1 January 2021 for aircraft manufacturers, shipbuilders, hotels, light industries and agricultural machinery producers;

⁸¹ <http://www.ukrproject.gov.ua/en/page/investukraine-one-stop-shop>

⁸² <http://www.east-invest.eu/en/investment-promotion/ukraine-2>

- › simplified tax regime for SMEs (annual turnover below UAH 1 million and less than 50 employees): 6% on the sales revenue plus 20% VAT, or 10% rate including VAT;
- › exemption from import duties for in-kind contributions to the enterprise capital with foreign investment; exemption from import duties and taxes for goods imported and stored at bonded warehouses, no tariff for goods imported to or exported from special economic zones, etc.;
- › industrial parks: co-financing of infrastructure development by the state.

The OECD Investment Policy Review for Ukraine gave recommendations for further improvements in the investment climate in 2011.⁸³ The Review stated that 'proposed investment policy recommendations have to be a part of broader reforms which target public and private investment, including foreign capital, and which remove entry and exit barriers for all categories of firms'. The specific recommendations included the protection of property rights, improved land ownership rights, reduced national security considerations and liberalised access to specific sectors as well as streamlined bureaucracy. We have no detailed information about the implementation of these recommendations. It can be assumed that most of these issues have remained open, and protracted time is necessary to solve them.

FDI POLICY RECOMMENDATIONS

An FDI policy revamp in Ukraine can be based on the previous initiatives and regulations outlined above and the recommendations made by OECD in 2011. The knowledge of what to do seems available in the country but it must be put into a comprehensive programme and implemented. While the OECD and most other donors rightly stress the importance of framework conditions to be improved in order to make the country a less risky place for investors, it must be possible to go beyond the general conditions of doing business in the country. One is inclined to assume that a comprehensive reform programme cannot be agreed upon and implemented within a short time. One may think of specific measures of investment facilitation that may provide improved business conditions limited in space and scope but relatively fast, even before an efficient general framework is put in place.

Based on theoretical considerations and practical experience of policy-makers, four FDI policy instruments are of specific relevance: (i) establishing industrial/business parks, (ii) setting up a contractual regime for large and technology-intensive projects, (iii) promote spillovers and clustering, and last but not least, (iv) operating an efficient investment promotion agency with regional networks. The four main lines of actions need to be implemented as a coherent package to become successful.

i) **Industrial/business parks** act as an incentive for (foreign) investors, because they enable to start operation within a rather short period of time and under good infrastructure and operational conditions. The Ukrainian approach to industrial park development had been highly centralised and bureaucratic.⁸⁴ A bottom-up approach coupled with a facilitation programme on the part of the central or regional government may bring more success. Existing investment sites, both greenfield and brownfield,

⁸³ OECD (2011), Investment Policy Reviews: Ukraine 2011, OECD Investment Policy Reviews, OECD Publishing; http://www.oecd-ilibrary.org/finance-and-investment/oecd-investment-policy-reviews-ukraine-2011_9789264113503-en

⁸⁴ <http://investukraine.com/10144-agency-will-present-documents-confirming-registration-of-the-first-five-industrial-parks-in-ukraine>, 14 April 2014 (inactive as of February 2015).

on the territory of existing but under-utilised industrial zones need to be developed with state-of-the-art infrastructure. Investing in business park infrastructure may at least partly be done on a commercial basis. Parks must provide clear ownership rights, good transport and telecom connection, as well as abundant energy and water supply, and need the support of the local/regional administration.

A specific form of such parks, *special economic zones* (SEZs), have proved useful in countries where the overall business environment is suboptimal. SEZs were the main targets of FDI in China in the 1990s, and in Turkey. They had also been established in Poland and survived after EU accession as industrial parks granting special investment incentives. As of 2011, the 14 SEZs operating in Poland were the main hubs of greenfield investments employing a quarter of a million people (total manufacturing employment is about 2 million) in 1400 companies (both with foreign and domestic capital).⁸⁵ In Ukraine, oblasts and municipalities must have the legal authority and financial means to foster the establishment of such parks.

Special economic zones can be appropriate vehicles to attract investments in countries where the regulatory system is on the whole not investor-friendly by providing attractive special arrangements in a limited territory. A special or export-processing zone is similar to the industrial/business park but fenced and having a customs office at the gate. This arrangement, not necessarily tied to a certain geographic area but to the physical plot chosen by the investor, operated in Hungary before EU accession. Companies established export-oriented production as free economic zones. Some of them expanded to become industrial parks attracting other export-oriented investors after EU accession when the duty-free status became irrelevant. The Ukrainian government should initiate to establish special zones in border regions, with the aim to attract export-processing investments. Parks and zones may benefit from special investment incentives such as free or cheap industrial land, but not necessarily. The major advantage of them are superior institutional conditions and infrastructure in comparison with the rest of the country.

ii) **Granting a contractual regime** by the government for large investment projects can attract the most desirable kind of FDI. Most NMS provide special incentives to large investors and those in specific sectors while obeying the aid ceilings established by the EU. The advantage of a contractual regime is that it enables the creation of individually tailored packages of incentives and stricter control of contract implementation. Contracts guarantee investors access to fair or even priority treatment by authorities in a transparent way. For example, in Poland government grants can be provided to large investments with important job creation and technological development effects.⁸⁶ Twenty-five grant programmes for 'investment of considerable importance for the national economy' were signed with foreign investors between 2007 and 2012. Subsidies were also paid out during these years in accordance with the progress of the investment project.⁸⁷

iii) **Promotion of FDI spillovers** is necessary to upgrade the absorption capacity of the local economy. Foreign-owned companies need support to create linkages with local companies. The aim is to avoid foreign enclaves in the economy which have little positive effect on their environment. Domestic

⁸⁵ KPMG (2011), *Special Economic Zones*, 2011 Edition.

⁸⁶ http://www.paiz.gov.pl/governmental_grants

⁸⁷ <http://www.mg.gov.pl/Wspieranie+przedsiębiorczosci/Wsparcie+finansowe+i+inwestycje/Pomoc+na+inwestycje+o+istotnym+znaczeniu+dla+gospodarki>

companies need incentives to network with foreign companies and also to establish local and regional clusters. Horizontal linkages are usually more important than vertical ones. Industrial parks or special zones may function as enclaves but at the same time provide platforms for business agglomeration. Local universities and research establishments should be stimulated to participate in regional clusters. Good practice can be accessed from the DG Enterprise and also obtained through the Danube Region Strategy (EUSDR), in which the south-west oblasts of Ukraine participate. Support may not necessarily mean a lot of money but rather care and communication on the part of authorities.

iv) It is also necessary to **revitalise the FDI agency InvestUkraine**, preferably as an independent agency reporting to the prime minister. The former institutional arrangement based on the State Agency for Investment and National Projects of Ukraine must have been complicated and bureaucratic. A strong agency with broad competencies such as PAIIZ (the Polish Information and Foreign Investment Agency) in Poland can be very helpful for foreign investors, especially in the initial stage of entry. It is also desirable to establish, or strengthen where they exist, regional investment agencies in oblasts and municipalities. The reason is that investors do not only decide on a country to invest in, but compare specific location targets. Regional and local investment agencies shall act as mediators between investors and local authorities and market their investment opportunities. They need to get coordinating functions between municipalities disposing over industrial land, companies providing local services including energy, as well as organisations training workforce.

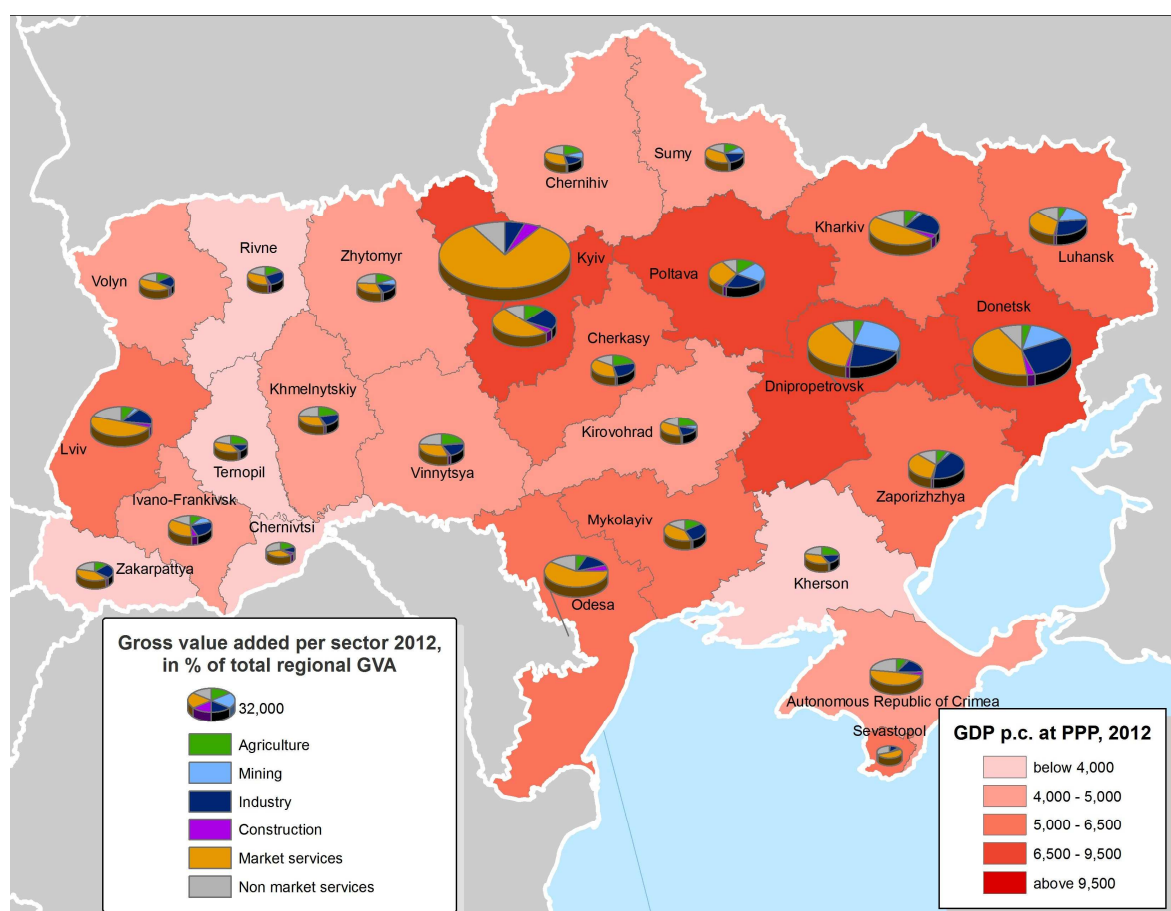
6. Industrial and regional developments

REGIONAL DIFFERENTIATION – PRODUCTION AND EXPORT SPECIALISATION

The scenario currently emerging is one in which there is a de facto split of the Ukrainian state with Crimea as well as greater parts of the regions of Donetsk and Luhansk no longer being under the control of the central government in Kyiv. There are important implications of this split for industrial and regional economic developments.

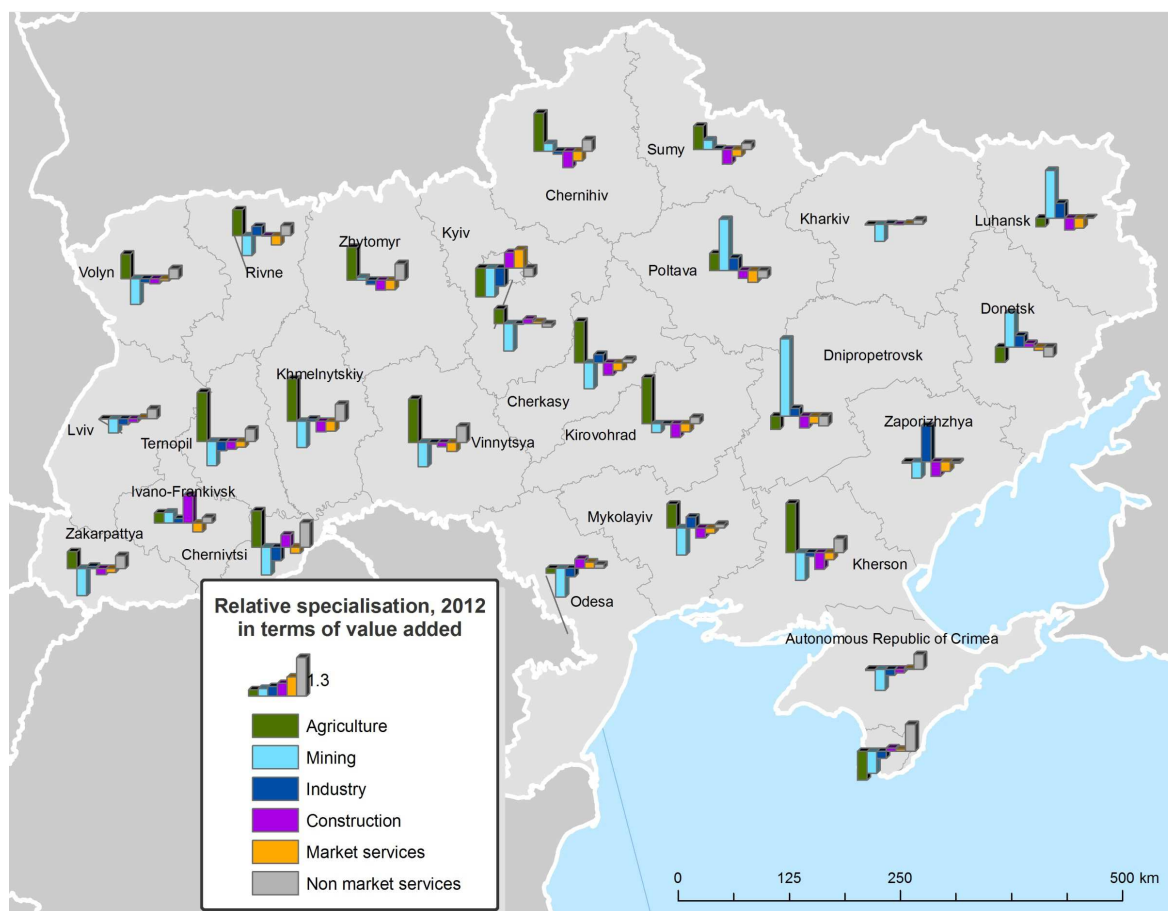
Let us first establish some facts with regard to the characteristics of regional development levels, the distribution of economic activity across the Ukrainian regions, the pattern of regional production specialisation and their contributions to exporting activity.

Figure 19 / Income per capita, regional GDP and sectoral value-added shares in 2012, in %



Note: The size of the pies shows the shares of regional value added in national GDP.

Source: State Statistics Service of Ukraine.

Figure 20 / Relative sectoral specialisation of regions of Ukraine

Note: The bars refer to the share of a particular economic activity in region's value added minus the share of that economic activity in the whole economy of Ukraine minus one.

Source: State Statistics Service of Ukraine.

Figure 19 shows (background colours) the income levels of the different regions as they were in 2012, as well as the contributions the different regions made to Ukraine's overall GDP (size of the pies) and the sectoral composition of the regions' GDP (slices of the pies). Differentiation in income levels is relatively pronounced across Ukrainian regions as higher income regions were associated with the industrialised regions in the east and the capital city Kyiv and surroundings, followed by some of the Black Sea regions and one of the regions in the west (Lviv). Other regions, especially the more agricultural regions in the west (plus those north of Kyiv) and some southeastern regions are characterised by particularly low average income levels. The contribution of the regions to national GDP follow pretty much this pattern as well. The conclusion we draw from this is that the disruption of production activity in the east due to the conflict situation, with its impact on long-term effects of reduced production linkages across the eastern regions and on trade linkages with Russia, will have long-term consequences for overall GDP developments and particularly the pattern of longer-term regional development.

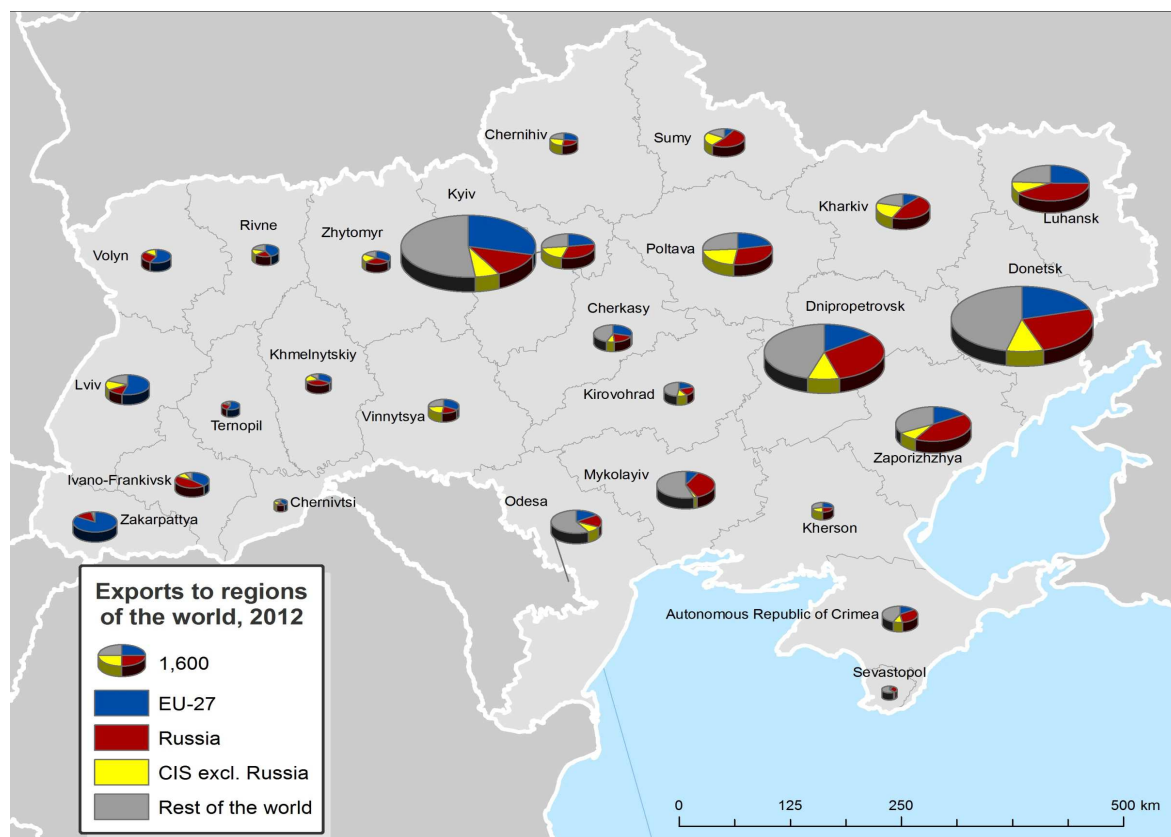
Following on from this, we examine the pattern of sectoral specialisation of the regions which has been shown in terms of sectoral shares in Figure 19 while Figure 20 gives the information regarding sectoral

specialisation of the individual regions in slightly different form: It shows the differences of the individual sectors' weights in regional GDPs as they differ from the shares of these sectors in national GDP (see also Annex Table 1a for the numerical figures related to this Figure and Annex Table 1b for a similar analysis in terms of sectoral employment shares). From both Figures 19 and 20 we see the rather marked regional differentiation of sectoral specialisation of the Ukrainian economy:

The basic pattern is one in which mining and industrial regions are concentrated in the east (Luhansk, Donetsk, Dnipropetrovsk, Zaporizhzhya, Kharkiv, Poltava), while agrarian regions are in the west and the south of Ukraine. Apart from this distinction, there are the urban centres (Kyiv, Lviv, Odessa) which are characterised by more market services and construction activity and there is also a stronger dependence of western regions (in output and employment) on non-market, i.e. public services (which is also true for Crimea).

Figure 21 shows the rather distinct historical difference in the orientation of trade – the export data are from 2012: western regions historically trade significantly more with the EU – which is particularly true for regions bordering directly EU member countries (Poland, Romania, Slovakia, Hungary) while eastern regions traditionally traded more with Russia (see also Annex Table 8 which gives the actual figures).

Figure 21 / Regional composition of exports by destination, 2012



Note: Size of the pie corresponds to the value of regions' exports in USD million.

Source: Authors' calculations based on data from Ukraine's Statistical Office.

More detailed information regarding export specialisation is provided in Annex Table 9. We show there the main export articles from each region: The first column of numerical values shows the share of the specific export article in total goods exports of that region, while the second column calculates the share of the region's exports in total Ukrainian exports of that export article.

The following regional industrial clusters can be distinguished from the information contained in Annex Table 9:

Regional cluster – Food and light industry (west): specialises on lighter industry (wood-based industries, food and food processing, electrical goods, clothing, furniture, toys, etc.). This cluster includes the regional entities Zakarpattia, Ivano-Frankivsk, Lviv, Volyn, Rivne: the advantage of this regional cluster is that it has not been affected by the military conflict raging in the east; it is close to the borders with current EU members which could lend itself to cross-border economic linkages and could generate an interest by foreign investors to exploit geographic proximity and labour cost advantages. Important requirements: institutional reliability; efficient local authorities, further investments on transport infrastructure and other location factors (training/educational centres, etc.) which would attract FDI and allow domestic firm growth.

Regional cluster – Agriculture, Food Processing, Wood-based industries (west): this cluster partly overlaps with the earlier one but includes a number of other regions which have economic development potential because of natural endowments conducive to agrarian production and wood-based industries. The additional regions which fall into this category include Ternopil, Chernivtsi, Rivne, Zhytomir, Vinnytsa, Chernihiv. This region would again require the development of infrastructure to attract FDI in order to upgrade towards higher value-added segments in the production in wood-based industries and food processing, logistics support for exporting and improvements in the business climate to allow new entrants of firms to develop product niches in these areas.

Regional cluster – Black Sea: Odesa, Mykolayiv, Kherson (i.e. excluding Crimea) are the regions which can benefit from tourism (cultural and otherwise). They also provide scope for different types of cultivation with regard to vegetables, fruits, nuts, etc. compared to other agricultural regions; in the short- to medium run, they could benefit from the diversion of domestic tourism from Crimea which has lost attractiveness as a result of the recent separation.

Regional cluster – Kyiv and surrounding: Following the pattern observed in all capital cities in Central and Eastern Europe, metropolitan regions benefited greatly from a catching-up process in market services in all transition economies, as the main seat of central public services and its main educational facilities. They all benefited from being especially attractive to FDI inflows and to the most educated part of the population, as locations of the central offices of the main domestic and foreign firms and the best transport connections domestically and via airport facilities to foreign destinations. Strong income differentiation between the capital cities and the rest of the country is a typical feature of all transition and emerging economies (exceeding the differentiation observed in most Western European economies) and we do expect the same to continue to be the case with Kyiv.

Regional cluster – east not controlled by separatists: This group of regions covers (together with the two regions controlled by the separatists) the historical heart of heavy industry of the Ukrainian economy. It comprises the regions of Dnipropetrovsk, Zaporizhzhya, Poltava, Sumy and Kharkiv as well

as parts of the Donetsk and Luhansk regions which are not controlled by separatists. While Kharkiv's economy supplies a wider spectrum of industrial and export products including instruments, other engineering products, electrical goods and vehicles, the other regions in this group are strongly specialised on heavy industry: iron and steel, metals, heavy machinery and transport equipment, railways (locomotives and railway rolling stock), aircraft, etc. We see this region as requiring the most intense effort for industrial policy in the wake of the military conflict and the de facto split of the country. Its traditional links to the regions controlled by the separatists have been severely broken and so have its historical strong links across the Russian border where strong industrial supplier relationships existed before the outbreak of the military conflict. As mentioned in other parts of this report (see Chapter 4), the production and export structure of this regional cluster has been strongly defined by supplying the Russian (and partly domestic) markets, investment into new production facilities has been neglected over the years and thus the region would – in its current state – be barely in a position to supply other export markets. On top of that the transport infrastructure is geared towards cross-border links to Russia and hence – if the region is to reorient its production and trade links – important investments would have to be undertaken to support other transport routes.

Regional cluster – east (Donetsk and Luhansk) controlled by separatists: This region comprises the larger parts of Donetsk and Luhansk and is heavily specialised in iron and steel, mining/minerals, machinery, railways but also chemicals and plastics. The military conflict has led to the destruction of parts of its industrial capacities and transport infrastructure, to a dramatic fall in production and a large movement of population out of the region. It also suffers from having been embedded traditionally in the overall Donbas region (e.g. important coal-steel linkages) and these have substantially been broken through the military conflict. Reconstruction of this region will – in the most likely scenario – be up to Russia; the region will further deepen its production and trade linkages with Russia and it is very unlikely that the traditional links with the rest of the eastern industrial regions will be recovered at least in the medium term. EU integration and implementation of the AA/DCFTA in this region will be off the cards; it will however be affected by any future EU-Russia-Eurasia trade policy arrangements (see the scenarios discussed in Chapter 4).

REGIONAL AND INDUSTRIAL DEVELOPMENTS – INDUSTRIAL POLICY IMPLICATIONS

There is no doubt that the current acute conflict regarding the destiny of Ukraine means a dramatic seizure in its economic and political development:

Realistically, Ukraine will remain a split country with two of its traditional industrial regions (parts of Donetsk and Luhansk) being heavily dependent on Russia, while the rest of Ukraine will be forming increasingly closer ties with the European Union. Where exactly the demarcation line will be and how long the current intense phase of the conflict will last is still unclear. However, that the outcome of the conflict will be that a sizeable region will de facto be separated from the rest is almost a certainty by now.

What are the implications of this scenario? Instead of the hybrid status of Ukraine being an 'in-between state' it is highly likely that Ukraine will have two parts: one part with a potential to become a region more

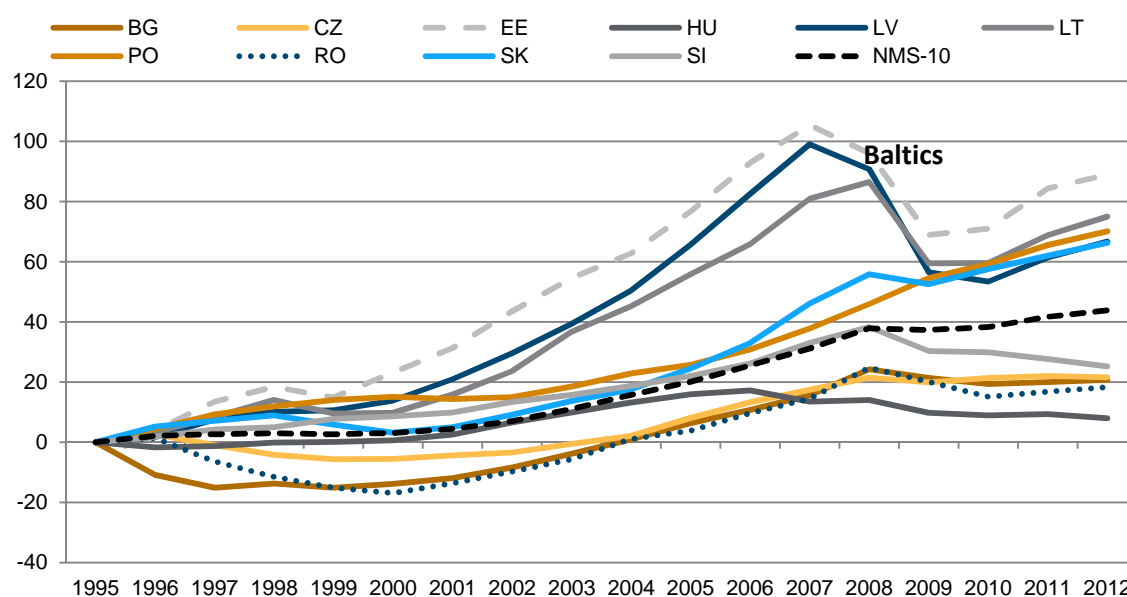
integrated with developments in Western and Central Eastern Europe and another (much smaller) part which will further deepen its historical industrial and economic links with Russia.

Analysts in the past have pointed to the importance of Ukraine maintaining economic ties with both the EU and Russia. This will be the case now, but mostly separately and in a relatively extreme manner, in terms of relatively separate trade and economic reorientation of the two parts in different directions.⁸⁸ This might not be the optimal outcome for Ukraine as a whole, but the most likely – almost certain – one, at least in the foreseeable future.

Will this lead to a successful economic development in the longer run?

The track record of CEECs which went on a path of integration with the EU is – on balance – positive. There is certainly differentiation amongst the CEECs and some back-sliding in political-economic terms in some of the economies especially after accession to the EU (e.g. Hungary, Romania), but on average, we have witnessed a relatively successful ‘convergence’ story in Central Eastern Europe over the past two decades (see Figure 22).

Figure 22 / GDP growth convergence, index 1995=100, differences to EU-27 average, in pp



Source: Dobrinsky and Havlik (2014).

As regards Ukraine, this report and other analysts (Havrylyshyn, 2014; OECD, 2014; World Bank, 2014; Aslund, 2014) have pointed out that Ukraine requires a major break in its institutional development and in relation to the stranglehold which oligarchic structures maintain over its economy (see Chapter 3 in this report), in order to follow the path pursued by the more successful Central European transition economies.

Over the longer run, there are reasons to believe that the EU-oriented part of Ukraine is reasonably well placed to follow a convergence path in the future. What are the factors which point in this direction?

⁸⁸ Of course, the dependency of ‘Western Ukraine’ on oil and gas supplies from Russia will remain.

- › The reaction by the 'West' – documented by the most recent engagement both of the IMF to prepare a further substantial financial assistance package (Extended Fund Facility) in the midst of military conflict as well as the intense efforts by Germany and France to mediate an armistice deal – is an expression of utmost commitment to push for its interest. This, of course, mirrors the commitment by Putin to entrench his engagement in the eastern – split-off – part of Ukraine. Both these engagements imply that considerable resources will be forthcoming from both sides to support their positions in the two different parts – although along quite different lines.
- › From the West's point of view 'success' will have to be defined as a pay-off in terms of stabilising the economic situation in the short run and supporting in a significant way institutional and political-economic change in Ukraine which would be instrumental in bringing the country on a sustainable growth path. The chances for this happening – I would judge – are not small as the partition of the country might lead to a realignment and reorientation of the longer-term interests of the elites (including oligarchs) as we have witnessed in quite a few of the transition countries in the course of their rapprochement towards the EU – ending with EU membership. It is not a foregone conclusion, as a concrete offer of full membership of the EU is not currently being made and this served as an important focusing device for society and elites in other transition economies.
- › The Deep and Comprehensive Free Trade Area (DCFTA) – together with the recent IMF Agreement – will play quite an important role as an instrument for reforms: from the Ukrainian side all state bodies will be heavily involved in its implementation and from the EU's side (and other Western international bodies) a massive mobilisation of technical assistance will be provided to assist in these reforms. By past experience this can make a substantial impact on changing state, legal and market structures.

As regards **regional and industrial developments** we conjecture the following:

- › Amongst the industrial regions, two will be part of 'East Ukraine' (i.e. large parts of Luhansk and Donetsk), but there are other eastern regions, such as Dnipropetrovsk, Zaporizhzhya, Poltava, Sumy and Kharkiv, which are likely to remain in the part of Ukraine under control of the Kyiv government. These are currently in a very difficult phase given the conflict situation and the interruption of historical production and trade links. The aim, however, has to be to preserve the potential for the development of a diversified industrial structure which could evolve in this part of Ukraine. Massive investments will be required to modernise capacities and reshape product programmes in line with changing market orientation. It will be difficult in the short run to attract private sector foreign investors to this region, partly because of the conflict situation and the massive nature of the task of restructuring, and partly because of the highly concentrated nature of control of markets by existing interests and institutional hindrances.
- › The opening-up of highly concentrated market structures will thus have to be given high priority and public supports by international donors together with the application of strict conditionality with regard to institutional improvements will have to prepare the ground for the massive task of restructuring and modernisation of industrial capacities in this region. The implementation of a programme to attract FDI (discussed in Chapter 5) will be important for the whole of Ukraine but is absolutely indispensable in this region as the task of reshaping product programmes and redirecting sales to new markets will be impossible without the support of foreign investors.

- › The question in the other (western) regions is how quickly the Ukraine can be made attractive to cross-border and cross-European production networks which played an important role in modernisation, the re-industrialisation and the development of an export base of the Central Eastern European economies. Experience tells us that the regions which are neighbouring more advanced economies (in this case particularly the regions bordering Poland) would have the potential to become part of cross-border production networks.⁸⁹ The development first of cross-border production linkages and then the gradual upgrading of Ukraine's position in value-added chains in agriculture, food processing, wood-based industries and other (inclusive supplier) industries in these regions would open up a scenario of regional rebalancing overcoming the pattern which characterised Ukraine's economy historically where industrial regions were concentrated in the east and agrarian regions in the west.
- › Linked to the encouragement of cross-border production networks but also the necessary changes in market orientation is the focus on redesigning and improving the transport infrastructure and – as mentioned earlier – the manifold improvements of institutional characteristics (legal, barriers to enterprise activity) which still make the Ukraine rather unattractive for foreign investors.
- › As outlined in Chapter 5, there were programmes already in place in Ukraine to streamline the efforts to attract foreign direct investment over the past years, but these were hampered by major weaknesses in institutions, legal and governance reliability and, more recently, by political instability. Realistically, only once the conflict gets truly 'frozen' and the very challenging short-term macroeconomic situation gets stabilised (the IMF programme will have to show some success with regard to achieving a sustainable fiscal situation as well as monetary stabilisation), can longer-run factors come into play to allow a catching-up process to truly take hold in the Ukraine.
- › Comparative advantage factors (a relatively skilled and cheap labour force; geographic proximity to EU markets; transport infrastructure inherited from the past but requiring capital investment) as well as the impact of the recent strong devaluation (leading to very low relative production costs) make Ukraine a potentially attractive location for international investments. The implementation of the DCFTA and accompanying improvements of institutional and legal conditions may furthermore play an important role. Evidence from the development processes in the CEE transition economies also points to an advantage of the relatively big economies (such as Poland and Romania) to be attractive for foreign investors both for the size of the domestic market as well as the production scale which can be achieved for exporting and drawing on a wider domestic supplier network.
- › The mobilisation of domestic public and international investment resources will have to play a major role to revamp the educational sector, invest into the transport network (road and rail), and support the process of regional redistribution of industrial activity and diversification in combination with policies targeted to make private productive investment attractive again.
- › Ukraine has suffered and will continue to suffer from a drain of skilled and professional workers through outward migration. The track record of other transition countries shows that this can be stopped or even partly reversed once an economy embarks on a successful catching-up process.

⁸⁹ It is an interesting feature of many transition countries that the most rapid development processes take place in the western regions even though these border in most cases on the less developed regions of the neighbouring countries. It is the ease with which the geographic location of such regions lends itself to easier logistics of cross-border linkages while still benefiting from country-wide comparative advantage factors which explains this regional development pattern.

However, it is important to develop incentive structures for the highly skilled and professionals to see a perspective in terms of career prospects (based on meritocratic criteria) and (at least expected future) rewards to keep them in the country and support the re-stabilisation and growth process of the country.

- › Entry and exit rates in the firm population are very low, reflecting a high degree of concentration in industrial activity (see World Bank, 2012). A powerful and well-monitored competition authority could play an important role in improving mobility patterns, easing the ability of new firm entry and making sure that public support is provided in a manner less skewed towards incumbents.
- › Reforms of tax structures and the revamping of tax administration could also reduce the size of the informal sector (estimated to be up to 40% of the economy) thus also broadening the base from which firm growth including in export activity could take place. A large informal sector biases economic structures in favour of the non-tradable sectors and inhibits human capital development.
- › Policy measures emphasising a higher degree of diversification of export structures is a must particularly in the case of Ukraine as the high reliance on exports of metals, petroleum products and chemicals led to very high instability of terms-of-trade and export earnings. FDI alone might not lead to diversification as the track record in many countries shows a strong interest by foreign investors in materials. Hence accompanying policies (education, infrastructure, institutional/legal) have to be implemented to avoid an undue continued specialisation of the Ukrainian economy on metals and low-processed commodity exports.

The policy proposals regarding support for industrial and regional development are the following:

- Maintain and re-build diversified industrial capacities in eastern Ukrainian regions: this requires massive new investments to assist the necessary adjustment process (market re-orientation, disruption of production links, modernisation of product programme; improvement in energy efficiency). Initially there will be a phase when private investors will be very hesitant to move into this region. Hence public (domestic and international) support is required.
- Support upgrading and diversification of western regions in agricultural production, food processing, wood-based industries, light industry. Use regional policy tools, improve local authority administration to attract FDI. Support regionally diversified development also in second-tier cities which can provide positive spillover effects in less developed regions.
- Use effectively technical assistance and transitory periods under the DCFTA as well as other supports (EIB, EBRD, etc.) to upgrade technical standards, improve energy efficiency, encourage cooperation with foreign partners to obtain better market access and improve product programmes and product quality to enhance export capacity.
- Invest into new and improved transport routes to support market reorientation, regional rebalancing of economic activity and new inter-regional and cross-border production and trade linkages.

- Improve market structures: set up an effective and transparent competition authority; support new entrants through a range of financial instruments and infrastructural supports and exert stronger control of oligopolistic interests.
- Support training and retraining institutions to cope with the difficult labour market situation resulting from the need of regional and industrial restructuring, introduce incentive schemes to reduce out-migration and encourage return-migration of skilled young personnel.

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Annex

Annex Table 1 / Foreign trade by top twenty partners

		2000	2005	2010	2011	2012	2013
Total exports, fob, EUR million ¹⁾		15,765	27,455	38,729	49,130	53,553	47,693
of which EU-28, fob, EUR million		5,215	8,257	9,859	12,945	13,323	12,622
Export shares in % (ranking in 2013)							
Russia	1	24.1	21.9	26.1	29.0	25.6	23.8
Turkey	2	6.0	5.9	5.9	5.5	5.4	6.0
China	3	4.3	2.1	0.9	3.2	2.6	4.3
Egypt	4	1.5	2.3	0.4	2.0	4.2	4.3
Poland	5	2.9	3.0	3.5	4.1	3.7	4.0
Italy	6	4.4	5.5	4.7	4.4	3.6	3.7
Kazakhstan	7	0.5	1.9	2.5	2.7	3.6	3.3
Belarus	8	1.9	2.6	3.7	2.8	3.3	3.1
India	9	1.2	2.2	1.0	3.3	3.3	3.1
Germany	10	5.1	3.8	2.9	2.6	2.4	2.5
Hungary	11	2.2	2.0	1.7	2.0	2.2	2.5
Netherlands	12	0.9	1.5	1.1	1.2	1.2	1.6
Spain	13	1.1	1.7	0.8	1.4	2.2	1.6
Moldova	14	1.2	2.0	1.4	1.3	1.2	1.4
United States	15	5.0	2.8	1.6	1.6	1.5	1.4
Azerbaijan	16	0.3	0.8	1.2	1.0	1.1	1.4
Czech Republic	17	1.3	1.1	1.2	1.2	1.0	1.3
Iran	18	0.6	1.7	0.6	1.6	1.7	1.3
Saudi Arabia	19	0.2	1.1	0.2	1.2	1.3	1.2
Iraq	20	.	.	0.3	0.9	1.3	1.2
Import shares in % (ranking in 2013)							
Total imports, cif, EUR million ¹⁾		15,098	28,985	45,764	59,340	65,914	57,986
of which EU-28, cif, EUR million		4,379	9,795	14,429	18,536	20,413	20,371
Russia	1	41.7	35.5	36.5	35.3	32.4	30.2
China	2	0.9	5.0	2.0	7.6	9.3	10.3
Germany	3	8.1	9.4	7.6	8.3	8.0	8.8
Poland	4	2.2	3.9	4.6	3.9	4.2	5.3
Belarus	5	4.3	2.6	4.2	5.1	6.0	4.7
United States	6	2.6	2.0	2.9	3.1	3.4	3.6
Italy	7	2.5	2.9	2.3	2.4	2.6	2.7
Turkey	8	1.1	1.7	2.1	1.8	2.3	2.4
France	9	1.7	2.2	1.8	1.8	2.0	2.2
Hungary	10	1.2	1.8	2.0	1.6	1.4	1.8
United Kingdom	11	1.5	1.4	1.4	1.4	1.4	1.5
Netherlands	12	1.1	1.3	1.4	1.4	1.3	1.4
Czech Republic	13	1.2	1.6	1.2	1.4	1.5	1.3
Japan	14	0.7	1.5	1.3	1.2	1.4	1.3
Austria	15	1.3	1.3	1.1	0.9	0.9	1.3
Lithuania	16	1.0	0.6	1.0	1.0	1.1	1.3
Switzerland	17	1.6	0.7	0.8	1.0	0.9	1.2
Romania	18	0.3	0.6	1.1	1.4	1.1	1.2
Spain	19	0.7	0.6	0.8	0.8	0.9	1.1
India	20	0.5	0.9	0.3	1.0	1.2	1.1

1) Values in EUR converted from USD to NCU to EUR at the average official exchange rate.

Source: wiiw database

Annex Table 2 / Trade by SITC commodity groups

	2000	2005	2010	2011	2012	2013
Total exports, fob, EUR million ¹⁾	15,765	27,455	38,729	49,130	53,553	47,693
Exports shares in %						
0 Food and live animals ²⁾	6.3	10.3	12.2	11.7	17.4	18.1
1 Beverages and tobacco	.	.	.	.	.	.
2 Crude materials, inedible, except fuels	12.7	7.2	10.4	11.0	10.3	12.8
3 Mineral fuels, lubricants and related materials	5.5	9.8	7.1	8.3	5.3	4.5
4 Animal and vegetable oils, fats and waxes	1.6	1.7	5.0	4.8	6.0	5.4
5 Chemicals and related products, n.e.s.	9.0	9.0	6.7	7.9	7.3	6.4
6 Manufactured goods classified chiefly by material	45.6	44.1	37.1	33.3	28.8	29.7
7 Machinery and transport equipment	12.3	12.6	17.3	12.9	14.4	11.6
8 Miscellaneous manufactured articles	4.5	3.8	3.5	3.0	2.8	3.3
9 Commodities not classified elsewhere in the SITC	2.4	1.6	0.7	7.1	7.6	8.1
<hr/>						
Total imports, cif, EUR million ¹⁾	15,098	28,985	45,764	59,340	65,914	57,986
Imports shares in %						
0 Food and live animals ²⁾	5.9	6.5	8.2	6.3	7.2	8.6
1 Beverages and tobacco	.	.	.	.	.	.
2 Crude materials, inedible, except fuels	5.6	3.9	3.7	2.8	2.6	2.7
3 Mineral fuels, lubricants and related materials	43.0	29.5	32.3	34.6	31.0	27.6
4 Animal and vegetable oils, fats and waxes	0.3	0.5	0.7	0.5	0.4	0.5
5 Chemicals and related products, n.e.s.	8.8	11.7	14.3	11.9	12.1	13.3
6 Manufactured goods classified chiefly by material	12.8	14.6	14.4	12.5	11.6	12.6
7 Machinery and transport equipment	17.5	25.0	19.6	16.6	19.5	17.8
8 Miscellaneous manufactured articles	3.6	5.4	6.0	3.9	5.1	5.3
9 Commodities not classified elsewhere in the SITC	2.6	2.9	1.0	11.0	10.4	11.6

1) Values in EUR converted from USD to NCU to EUR at the average official exchange rate.

2) Including beverages and tobacco.

Source: wiiw database

Annex Table 3 / Balance of payments

	2000	2005	2010	2011	2012	2013
EUR million, BOP 6th edition						
1. Current account balance ¹⁾	.	2,033	-2,272	-7,351	-11,153	-12,441
1.A Balance on goods and services	.	541	-3,000	-7,287	-11,162	-11,775
1.A.a Balance on trade in goods	.	-1,759	-7,230	-12,952	-16,997	-16,667
1.A.a Goods exports, fob, credit	.	25,815	35,636	44,812	50,127	44,518
1.A.a Goods imports, fob, debit	.	27,574	42,866	57,764	67,124	61,185
1.A.b Balance on trade in services	.	2,300	4,230	5,665	5,835	4,891
1.A.b.1 Manufacturing services, net ²⁾	.	775	995	1,291	1,608	1,461
1.A.b.2 Maintenance and repair services n.i.e., net	.	253	313	441	441	188
1.A.b.3 Transport, net	.	2,013	2,944	3,963	3,642	3,342
1.A.b.4 Travel, net	.	257	35	-120	-204	-512
1.A.b.19 Other services, net	.	-999	-57	90	348	413
1.A.b Services, credit	.	8,376	13,808	15,278	17,186	17,032
1.A.b.1 Manufacturing services, credit ²⁾	.	778	999	1,297	1,616	1,469
1.A.b.2 Maintenance and repair services n.i.e., credit	.	272	349	473	478	281
1.A.b.3 Transport, credit	.	3,661	6,021	6,637	6,782	6,386
1.A.b.4 Travel, credit	.	2,507	2,854	3,085	3,767	3,828
1.A.b.19 Other services, credit	.	1,158	3,585	3,788	4,542	5,067
1.A.b Services, debit	.	6,076	9,577	9,613	11,351	12,141
1.A.b.1 Manufacturing services, debit ²⁾	.	3	4	6	8	8
1.A.b.2 Maintenance and repair services n.i.e., debit	.	18	35	32	37	93
1.A.b.3 Transport, debit	.	1,648	3,076	2,674	3,140	3,044
1.A.b.4 Travel, debit	.	2,250	2,819	3,204	3,971	4,341
1.A.b.19 Other services, debit	.	2,157	3,643	3,698	4,194	4,655
1.B Balance on primary income	.	-790	-1,514	-2,727	-2,307	-2,284
1.B.1 Compensation of employees, net	.	280	3,039	3,454	4,295	5,089
1.B.2 Investment income, net	.	-1,070	-4,553	-6,181	-6,602	-7,374
1.B.2.1 Direct investment, net	.	-211	-1,656	-2,898	-2,904	-3,325
1.B.2.2 Portfolio investment, net	.	-436	-848	-1,068	-1,088	-1,518
1.B.2.3 Other investment, net	.	-423	-2,049	-2,214	-2,610	-2,530
1.B.2.4 Reserve assets, net
1.B.3 Other primary income, net
1.B Primary income, credit	.	608	3,552	3,940	5,510	5,850
1.B.1 Compensation of employees, credit	.	288	3,048	3,466	4,312	5,108
1.B.2 Investment income, credit	.	320	504	474	1,198	742
1.B.2.1 Direct investment, credit	.	4	15	35	811	444
1.B.2.2 Portfolio investment, credit	.	.	12	5	30	43
1.B.2.3 Other investment, credit	.	316	477	434	357	255
1.B.2.4 Reserve assets, credit
1.B.3 Other primary income, credit
1.B Primary income, debit	.	1,398	5,066	6,667	7,817	8,134
1.B.1 Compensation of employees, debit	.	8	9	12	17	19
1.B.2 Investment income, debit	.	1,390	5,057	6,655	7,800	8,116
1.B.2.1 Direct investment, debit	.	215	1,671	2,934	3,715	3,770
1.B.2.2 Portfolio investment, debit	.	436	860	1,073	1,117	1,561
1.B.2.3 Other investment, debit	.	739	2,526	2,648	2,967	2,785
1.B.2.4 Reserve assets, debit
1.B.3 Other primary income, debit

1) Converted from USD to UAH to EUR at the average official exchange rate.

2) Manufacturing services on physical inputs owned by others.

3) Gross acquisitions / disposals of nonproduced nonfinancial assets.

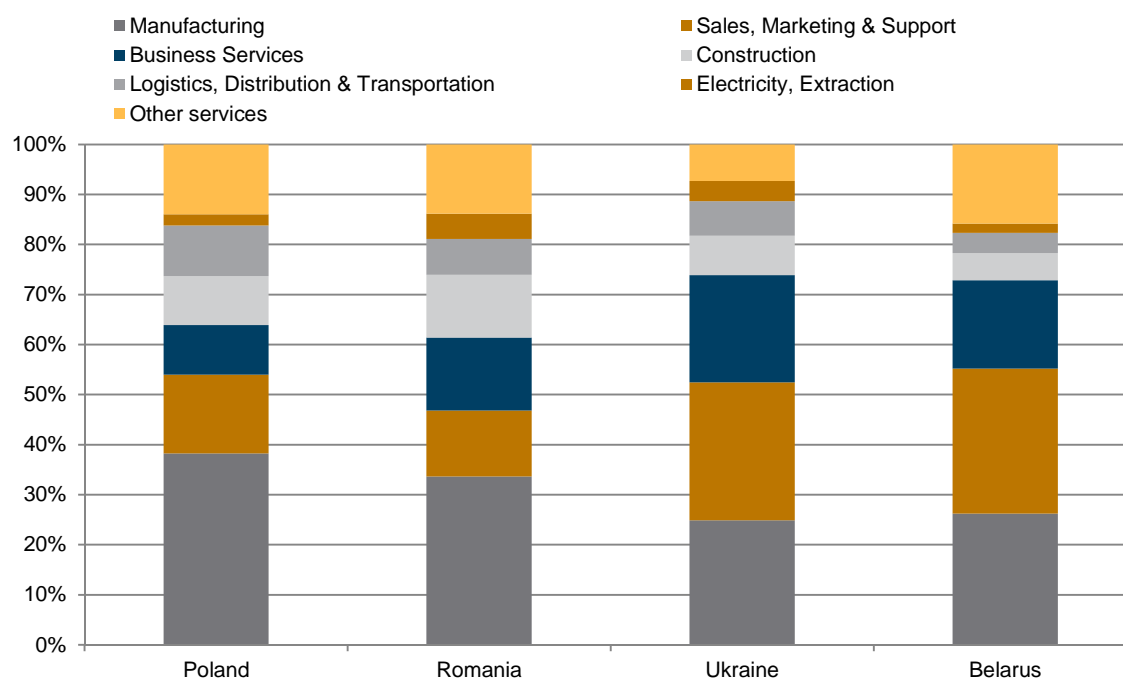
4) Financial derivatives (other than reserves) and employee stock options.

Source: wiiw database

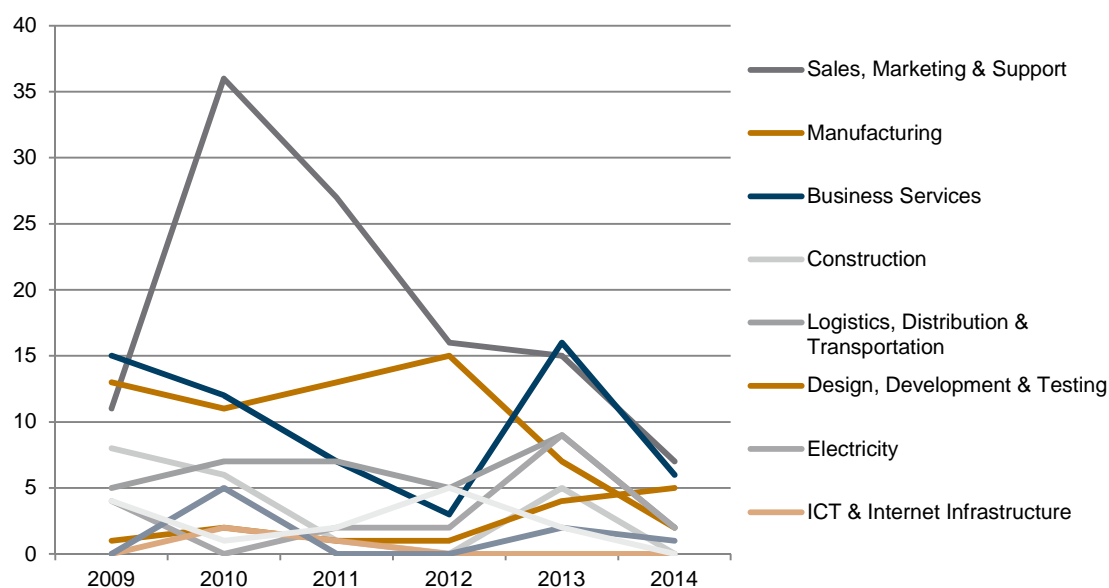
Annex Table 4 / Inward FDI stock by investing country, EUR million and % of total

	2007	2013	2007	2013
Cyprus	4047	13780	20.1	32.7
Germany	4028	4555	20.0	10.8
Netherlands	1708	4026	8.5	9.6
Russia	995	3104	5.0	7.4
Austria	1407	2358	7.0	5.6
United Kingdom	1345	1965	6.7	4.7
Virgin Islands, British	726	1805	3.6	4.3
France	711	1322	3.5	3.1
Switzerland	441	959	2.2	2.3
Italy	102	918	0.5	2.2
Belize	82	764	0.4	1.8
United States	973	717	4.8	1.7
Poland	457	612	2.3	1.5
Hungary	280	499	1.4	1.2
Luxembourg	143	493	0.7	1.2

Source: wiiw FDI database.

Annex Figure 1 / Business activity of greenfield projects, 2003-2014

Source: fdimarkets.com.

Annex Figure 2 / Number of greenfield projects by business activity

Source: fdimarkets.com

Annex Table 5 / Number and value of greenfield projects 2003-2014

Industry Sector			Industry Business activity		
	Number of projects	Value EUR million		Number of projects	Value EUR million
Financial Services	153	3763.2	Sales, Marketing & Support	246	2396.4
Food & Tobacco	73	1988.5	Manufacturing	222	10001.8
Software & IT services	69	775.5	Business Services	191	3914.5
Transportation	58	1258.4	Construction	70	8717.5
Real Estate	56	7511.5	Logistics, Distribution & Transportation	62	1759.1
Business Services	52	120.4	Design, Development & Testing	22	96.9
Coal, Oil and Natural Gas	40	2327.1	Electricity	21	3333.8
Communications	39	1373.1	ICT & Internet Infrastructure	21	1264.6
Metals	33	852.9	Extraction	15	832.8
Building & Construction Materials	32	1846.7	Research & Development	6	315.1
Hotels & Tourism	30	1398.2	Maintenance & Servicing	5	30.5
Industrial Machinery, Equipment & Tools	25	164.1	Recycling	3	183.5
Alternative/Renewable energy	23	2873.9	Headquarters	3	57.4
Beverages	21	460.6	Customer Contact Centre	3	4.0
Chemicals	20	491.5	Education & Training	1	5.0
Automotive OEM	19	1627.3	Shared Services Centre	1	17.3
Consumer Products	18	215.0	Total	892	32930.2
Consumer Electronics	14	718.9			
Other	117	3163.4			
Total	892	32930.2			

Source: fdimarkets.com.

Annex Table 6 / Specialisation of regions of Ukraine relative to country as a whole

	A	B	C-E	F	G-N, R-T	O-Q
	Agriculture, forestry and fishing	Mining and quarrying	Industry	Construction	Market services	Non-market services
City of Kyiv	-1.00	-1.00	-0.64	0.53	0.63	-0.30
Kyiv	0.51	-0.94	-0.03	0.16	0.07	-0.12
Chernivtsi	1.25	-0.96	-0.48	0.42	-0.22	0.84
Ivano-Frankivsk	0.36	0.37	0.16	0.96	-0.31	0.20
Khmelnyskiy	1.46	-0.90	0.08	-0.37	-0.34	0.59
Lviv	0.00	-0.49	-0.20	-0.12	0.05	0.34
Rivne	0.90	-0.68	0.32	-0.01	-0.31	0.35
Ternopil	1.70	-0.83	-0.32	-0.27	-0.20	0.43
Vinnysya	1.50	-0.84	-0.06	-0.15	-0.31	0.56
Volyn	0.84	-0.89	-0.14	-0.18	-0.08	0.34
Zakarpattia	0.59	-0.94	0.07	-0.21	-0.14	0.44
Zhytomyr	1.14	0.09	-0.15	-0.34	-0.33	0.57
Chernihiv	1.32	0.26	-0.09	-0.56	-0.34	0.39
Donetsk	-0.53	1.19	0.39	0.13	-0.12	-0.33
Kharkiv	-0.02	-0.59	0.02	-0.01	0.03	0.15
Luhansk	-0.30	1.65	0.52	-0.41	-0.34	0.01
Poltava	0.58	1.76	0.43	-0.28	-0.41	-0.26
Sumy	0.81	0.32	0.02	-0.50	-0.24	0.21
Cherkasy	1.43	-0.89	0.29	-0.43	-0.27	0.12
Dnipropetrovsk	-0.45	2.67	0.27	-0.40	-0.25	-0.33
Kherson	1.69	-0.97	-0.14	-0.58	-0.25	0.48
Kirovohrad	1.59	-0.30	-0.04	-0.48	-0.28	0.22
Mykolayiv	0.82	-0.94	0.38	-0.35	-0.18	0.12
Odesa	-0.17	-0.99	-0.29	0.33	0.21	0.14
Zaporizhzhya	-0.06	-0.57	1.24	-0.51	-0.34	-0.06
Autonomous Republic of Crimea	-0.04	-0.72	-0.21	-0.12	0.03	0.52
Sevastopol	-1.00	-0.76	-0.24	0.12	0.08	0.93

Note: The figures refer to the share of a particular economic activity in region's value added minus the share of that economic activity in the whole economy of Ukraine minus one

'Industry' includes 'C Manufacturing', 'D Electricity, gas, steam, air conditioning supply', 'E Water supply, sewerage, waste management, remediation' (NACE Rev. 2).

'Market services' includes 'G Wholesale, retail trade, repair of motor vehicles etc.', 'H Transportation and storage', 'I Accommodation and food service activities', 'J Information and communication', 'K Financial and insurance activities', 'L Real estate activities', 'M Professional, scientific and technical activities', 'R Arts, entertainment and recreation', 'S Other service activities', 'T Activities of households as employers and for own use' (NACE Rev. 2).

'Non-market services' includes 'O Public administration, defence, compulsory social security', 'P Education', 'Q Human health and social work activities' (NACE Rev. 2).

Source: State Statistics Service of Ukraine.

Annex Table 7 / Relative specialisation of regions of Ukraine – by employment

	A	B-E	F	G-N, R-T	O-Q
	Agriculture, forestry and fishing	Industry	Construction	Market services	Non-market services
City of Kyiv	-0.98	-0.43	0.03	0.54	0.06
Kyiv	-0.60	0.11	-0.03	0.14	0.16
Chernivtsi	0.56	-0.37	0.14	-0.11	0.02
Ivano-Frankivsk	0.60	-0.20	0.05	-0.20	0.06
Khmelnyskiy	0.62	-0.24	-0.32	-0.16	0.06
Lviv	0.13	-0.11	0.64	-0.13	0.11
Rivne	0.08	-0.18	0.12	-0.01	0.07
Ternopil	0.91	-0.42	-0.17	-0.26	0.13
Vinnitsya	0.88	-0.33	-0.39	-0.24	0.09
Volyn	0.52	-0.24	-0.29	-0.17	0.16
Zakarpattia	0.45	-0.31	0.30	-0.09	-0.02
Zhytomyr	-0.12	-0.12	0.14	0.02	0.15
Chernihiv	0.51	-0.22	-0.40	-0.15	0.14
Donetsk	-0.39	0.57	0.20	0.01	-0.19
Kharkiv	-0.23	0.21	-0.01	0.05	-0.06
Luhansk	-0.26	0.48	-0.07	0.00	-0.14
Poltava	0.13	0.18	-0.22	-0.10	0.01
Sumy	0.23	0.00	0.09	-0.13	0.04
Cherkasy	0.59	-0.10	0.14	-0.22	0.01
Dnipropetrovsk	-0.60	0.64	-0.13	0.07	-0.12
Kherson	0.76	-0.39	-0.34	-0.13	0.00
Kirovohrad	0.75	-0.22	-0.16	-0.22	0.03
Mykolayiv	0.47	-0.15	-0.15	-0.11	-0.02
Odesa	-0.08	-0.45	0.02	0.19	0.01
Zaporizhzhya	-0.06	0.43	-0.09	-0.07	-0.11
Autonomous Republic of Crimea	0.15	-0.44	-0.14	0.10	0.04
Sevastopol	-0.85	-0.20	0.76	0.24	0.23

Note: The figures refer to the share of a particular economic activity in the region's employment minus the share of that economic activity in the whole economy of Ukraine minus one.

'Industry' includes 'B Mining', 'C Manufacturing', 'D Electricity, gas, steam, air conditioning supply', 'E Water supply, sewerage, waste management, remediation' (NACE Rev. 2).

'Market services' includes 'G Wholesale, retail trade, repair of motor vehicles etc.', 'H Transportation and storage', 'I Accommodation and food service activities', 'J Information and communication', 'K Financial and insurance activities', 'L Real estate activities', 'M Professional, scientific and technical activities', 'R Arts, entertainment and recreation', 'S Other service activities', 'T Activities of households as employers and for own use' (NACE Rev. 2).

'Non-market services' includes 'O Public administration, defence, compulsory social security', 'P Education', 'Q Human health and social work activities' (NACE Rev. 2).

Source: State Statistics Service of Ukraine.

Annex Table 8 / Exports of the regions of Ukraine to the regions of the world in 2012, in %

Region	EU27	Russia	CIS excl. Russia	Rest of the World
City of Kyiv	3598	1508	972	6693
Kyiv	454	651	352	525
Chernivtsi	48	31	21	25
Ivano-Frankivsk	287	383	77	75
Khmelnyskiy	144.5	185	68	63
Lviv	748	176	147	273
Rivne	206	127	57	113
Ternopil	140	52	12	33
Vinnysya	202	142	140	169
Volyn	361	142	92	11
Zakarpattia	1127	197	7	54
Zhytomyr	173	194	83	100
Chernihiv	147	142	129	124
Donetsk	3025	3089	1648	6365
Kharkiv	265	925	395	437
Luhansk	1049	1804	330	1009
Poltava	760	1029	734	882
Sumy	118	591	213	201
Cherkasy	287	197	93	431
Dnipropetrovsk	1705	2791	1198	4436
Kherson	85	81	69	94
Kirovohrad	131	114	89	297
Mykolayiv	224	759	58	1329
Odesa	308	239	157	1081
Zaporizhzhya	715	1705	323	1261
Autonomous Republic of Crimea	155	262	100	371
Sevastopol	16	40	5	98

Source: State Statistics Service of Ukraine.

Annex Table 9 / Share of top 10 export products (at HS 2-digit level) by region in 2012, in %

Volyn				Lviv			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	27.4%	5.1%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	21.7%	6.9%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	15.8%	2.5%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	20.0%	8.3%
44	Wood And Articles Of Wood; Wood Charcoal	12.5%	7.2%	44	Wood And Articles Of Wood; Wood Charcoal	11.0%	14.0%
94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	10.0%	11.9%	94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	7.4%	19.6%
04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	7.6%	7.5%	62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	5.1%	17.1%
39	Plastics And Articles Thereof	2.9%	2.2%	48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	3.2%	4.3%
62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	2.8%	4.3%	61	Articles Of Apparel And Clothing Accessories, Knitted Or Crocheted	2.9%	24.8%
02	Meat And Edible Meat Offal	2.2%	4.1%	20	Preparations Of Vegetables, Fruit, Nuts Or Other Parts Of Plants	2.5%	10.4%
87	Vehicles Other Than Railway Or Tramway Rolling Stock, And Parts And Accessories Thereof	2.0%	2.1%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	2.1%	0.8%
86	Railway Or Tramway Locomotives, Rolling Stock And Parts Thereof; Railway Or Tramway Track Fixtures A	2.0%	0.3%	63	Other Made-Up Textile Articles; Sets; Worn Clothing And Worn Textile Articles; Rags	2.1%	26.5%
Zakarpattia				Ivano-Frankivsk			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	64.5%	27.7%	39	Plastics And Articles Thereof	27.7%	29.2%
44	Wood And Articles Of Wood; Wood Charcoal	5.1%	6.6%	29	Organic Chemicals	12.3%	25.3%
62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	4.8%	16.9%	27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	10.5%	2.4%
95	Toys, Games And Sports Requisites; Parts And Accessories Thereof	4.0%	58.1%	44	Wood And Articles Of Wood; Wood Charcoal	9.1%	7.0%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	3.0%	1.1%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	6.9%	1.7%
94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	2.6%	7.1%	48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	5.7%	4.7%
63	Other Made-Up Textile Articles; Sets; Worn Clothing And Worn Textile Articles; Rags	2.2%	29.5%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	5.7%	1.2%
64	Footwear, Gaiters And The Like; Parts Of Such Articles	2.2%	17.8%	04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	3.5%	4.7%
61	Articles Of Apparel And Clothing Accessories, Knitted Or Crocheted	1.6%	13.6%	41	Raw Hides And Skins (Other Than Furskins) And Leather	2.7%	25.0%
22	Beverages, Spirits And Vinegar	1.1%	4.1%	35	Albuminoid Substances; Modified Starches; Glues; Enzymes	1.9%	23.1%
Rivne				Ternopil			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
31	Fertilisers	22.1%	6.2%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	39.4%	2.9%
44	Wood And Articles Of Wood; Wood Charcoal	19.7%	9.4%	10	Cereals	14.5%	0.5%
25	Salt; Sulphur; Earths And Stone; Plastering Materials, Lime And Cement	13.4%	9.6%	20	Preparations Of Vegetables, Fruit, Nuts Or Other Parts Of Plants	11.2%	8.2%
70	Glass And Glassware	5.7%	20.2%	94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	8.9%	4.2%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	5.4%	0.7%	02	Meat And Edible Meat Offal	5.9%	4.4%
29	Organic Chemicals	5.0%	6.4%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plant	4.0%	0.5%
94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	3.3%	3.3%	44	Wood And Articles Of Wood; Wood Charcoal	4.0%	0.9%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	3.2%	0.5%	62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	1.6%	1.0%
38	Miscellaneous Chemical Products	2.6%	7.9%	35	Albuminoid Substances; Modified Starches; Glues; Enzymes	1.5%	5.1%
62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	2.4%	3.0%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	0.9%	0.1%

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(Annex Table 9 ctd.)

Chernivtsi				Zhytomyr			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
44	Wood And Articles Of Wood; Wood Charcoal	23.5%	2.8%	25	Salt; Sulphur; Earths And Stone; Plastering Materials, Lime And Cement	19.7%	15.4%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	19.8%	0.7%	44	Wood And Articles Of Wood; Wood Charcoal	17.7%	9.2%
62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	15.6%	4.9%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	11.3%	1.6%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	5.7%	0.2%	73	Articles Of Iron Or Steel	6.0%	1.2%
99	Other	5.0%	1.6%	62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	4.7%	6.6%
94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	4.8%	1.2%	18	Cocoa And Cocoa Preparations	3.9%	3.2%
73	Articles Of Iron Or Steel	4.1%	0.2%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	3.9%	0.7%
64	Footwear, Gaiters And The Like; Parts Of Such Articles	3.3%	2.4%	68	Articles Of Stone, Plaster, Cement, Asbestos, Mica Or Similar Materials	3.5%	14.2%
12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	2.9%	0.2%	48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	3.1%	1.7%
20	Preparations Of Vegetables, Fruit, Nuts Or Other Parts Of Plants	2.3%	0.9%	10	Cereals	2.6%	0.2%
Khmelnytskyi				Vinnitsya			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	16.8%	2.4%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	24.5%	3.8%
39	Plastics And Articles Thereof	11.9%	7.0%	44	Wood And Articles Of Wood; Wood Charcoal	9.9%	6.1%
10	Cereals	11.1%	0.7%	10	Cereals	9.0%	0.8%
04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	8.3%	6.2%	20	Preparations Of Vegetables, Fruit, Nuts Or Other Parts Of Plants	8.5%	17.2%
69	Ceramic Products	8.0%	12.1%	23	Residues And Waste From The Food Industries; Prepared Animal Fodder	5.9%	4.4%
12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	6.7%	1.8%	25	Salt; Sulphur; Earths And Stone; Plastering Materials, Lime And Cement	5.2%	4.8%
94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	6.7%	6.1%	62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	5.2%	8.5%
44	Wood And Articles Of Wood; Wood Charcoal	4.1%	1.8%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	4.2%	0.7%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	3.8%	0.5%	22	Beverages, Spirits And Vinegar	4.1%	6.9%
62	Articles Of Apparel And Clothing Accessories, Not Knitted Or Crocheted	2.6%	3.0%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	3.2%	1.2%
Kyiv				City of Kyiv			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
10	Cereals	12.2%	3.4%	10	Cereals	35.9%	65.4%
15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	11.5%	5.4%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	16.5%	50.0%
18	Cocoa And Cocoa Preparations	11.0%	32.8%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	7.5%	54.9%
48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	9.5%	18.7%	72	Iron And Steel	4.3%	3.6%
02	Meat And Edible Meat Offal	5.8%	36.6%	23	Residues And Waste From The Food Industries; Prepared Animal Fodder	3.0%	43.9%
17	Sugars And Sugar Confectionery	4.9%	28.6%	99	Other	2.9%	92.8%
19	Preparations Of Cereals, Flour, Starch Or Milk; Pastrycooks' Products	4.9%	25.7%	04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	2.5%	52.9%
40	Rubber And Articles Thereof	4.7%	42.8%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	2.3%	9.0%
12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	3.8%	4.3%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	2.2%	7.3%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	2.8%	1.7%	48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	2.0%	25.2%

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(Annex Table 9 ctd.)

Chernihiv				Cherkasy			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
10	Cereals	23.6%	1.8%	31	Fertilisers	28.2%	15.9%
48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	20.3%	10.9%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	11.1%	6.4%
99	Other	10.4%	14.4%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	8.2%	2.0%
44	Wood And Articles Of Wood; Wood Charcoal	7.7%	3.9%	29	Organic Chemicals	6.5%	16.4%
04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	4.7%	4.1%	10	Cereals	5.3%	0.8%
12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	4.6%	1.4%	23	Residues And Waste From The Food Industries; Prepared Animal Fodder	5.3%	6.0%
22	Beverages, Spirits And Vinegar	3.4%	4.7%	87	Vehicles Other Than Railway Or Tramway Rolling Stock, And Parts And Accessories Thereof	3.1%	5.3%
64	Footwear, Gaiters And The Like; Parts Of Such Articles	3.1%	9.9%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	3.1%	0.8%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	3.0%	0.5%	20	Preparations Of Vegetables, Fruit, Nuts Or Other Parts Of Plants	2.5%	7.7%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	2.7%	0.4%	44	Wood And Articles Of Wood; Wood Charcoal	2.4%	2.3%
Sumy				Poltava			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	49.6%	14.7%	86	Railway Or Tramway Locomotives, Rolling Stock And Parts Thereof; Railway Or Tramway Track Fixtures A	40.0%	33.2%
32	Tanning Or Dyeing Extracts; Tannins And Their Derivatives; Dyes, Pigments And Other Colouring Matter	8.0%	24.7%	99	Other	32.1%	277.4%
31	Fertilisers	7.3%	4.6%	27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	6.2%	5.8%
83	Miscellaneous Articles Of Base Metal	4.5%	37.6%	10	Cereals	5.3%	2.6%
18	Cocoa And Cocoa Preparations	4.2%	7.1%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	3.6%	3.2%
10	Cereals	3.3%	0.5%	87	Vehicles Other Than Railway Or Tramway Rolling Stock, And Parts And Accessories Thereof	3.1%	18.3%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	2.8%	1.0%	28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	1.9%	3.8%
44	Wood And Articles Of Wood; Wood Charcoal	2.7%	2.8%	04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	1.0%	5.5%
19	Preparations Of Cereals, Flour, Starch Or Milk; Pastrycooks' Products	2.4%	7.2%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	0.9%	0.8%
64	Footwear, Gaiters And The Like; Parts Of Such Articles	2.1%	14.1%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	0.7%	1.4%
Kirovohrad				Mykolayiv			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	34.7%	5.2%	10	Cereals	36.0%	12.2%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	16.0%	2.7%	28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	23.8%	33.3%
27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	13.5%	2.3%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	13.9%	8.7%
10	Cereals	9.7%	0.9%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	7.6%	4.3%
23	Residues And Waste From The Food Industries; Prepared Animal Fodder	8.7%	6.2%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	7.6%	10.2%
25	Salt; Sulphur; Earths And Stone; Plastering Materials, Lime And Cement	3.4%	3.1%	22	Beverages, Spirits And Vinegar	1.6%	9.6%
12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	2.5%	0.9%	20	Preparations Of Vegetables, Fruit, Nuts Or Other Parts Of Plants	1.4%	10.5%
17	Sugars And Sugar Confectionery	2.1%	3.9%	23	Residues And Waste From The Food Industries; Prepared Animal Fodder	1.3%	3.6%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	1.7%	0.3%	89	Ships, Boats And Floating Structures	1.2%	8.4%
44	Wood And Articles Of Wood; Wood Charcoal	1.2%	0.7%	17	Sugars And Sugar Confectionery	0.9%	6.2%

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(Annex Table 9 ctd.)

Dnipropetrovsk				Kharkiv			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
72	Iron And Steel	37.5%	24.8%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	18.3%	9.8%
26	Ores, Slag And Ash	20.2%	62.0%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	10.5%	6.6%
73	Articles Of Iron Or Steel	14.3%	51.1%	10	Cereals	10.0%	2.9%
86	Railway Or Tramway Locomotives, Rolling Stock And Parts Thereof; Railway Or Tramway Track Fixtures A	7.6%	18.7%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	7.8%	3.7%
88	Aircraft, Spacecraft, And Parts Thereof	2.3%	24.8%	27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	6.7%	3.7%
27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	2.1%	5.9%	90	Optical, Photographic, Cinematographic, Measuring, Checking, Precision, Medical Or Surgical Instrume	4.5%	31.1%
99	Other	2.0%	51.9%	87	Vehicles Other Than Railway Or Tramway Rolling Stock, And Parts And Accessories Thereof	4.1%	14.1%
15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	1.9%	4.7%	94	Furniture; Bedding, Mattresses, Mattress Supports, Cushions And Similar Stuffed Furnishings; Lamps A	4.0%	15.8%
28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	1.7%	10.1%	99	Other	3.4%	17.6%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	1.5%	3.9%	69	Ceramic Products	3.0%	19.6%
Odesa				Kherson			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
31	Fertilisers	18.6%	18.5%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	13.6%	1.4%
28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	15.4%	16.2%	10	Cereals	12.8%	0.6%
15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	10.8%	4.6%	12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	10.1%	1.9%
10	Cereals	9.0%	2.3%	44	Wood And Articles Of Wood; Wood Charcoal	8.5%	2.6%
27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	6.3%	3.1%	08	Edible Fruit And Nuts; Peel Of Citrus Fruit Or Melons	6.8%	11.2%
12	Oil Seeds And Oleaginous Fruits; Miscellaneous Grains, Seeds And Fruit; Industrial Or Medicinal Plan	5.5%	5.6%	23	Residues And Waste From The Food Industries; Prepared Animal Fodder	6.2%	2.3%
89	Ships, Boats And Floating Structures	5.4%	27.8%	89	Ships, Boats And Floating Structures	4.9%	4.6%
23	Residues And Waste From The Food Industries; Prepared Animal Fodder	4.6%	9.3%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	4.6%	0.4%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	3.2%	1.8%	21	Miscellaneous Edible Preparations	4.0%	6.7%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	2.5%	1.2%	04	Dairy Produce; Birds' Eggs; Natural Honey; Edible Products Of Animal Origin, Not Elsewhere Specified	3.6%	1.9%
Autonomous Republic of Crimea				Sevastopol			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
32	Tanning Or Dyeing Extracts; Tannins And Their Derivatives; Dyes, Pigments And Other Colouring Matter	25.9%	63.3%	85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	24.3%	1.2%
89	Ships, Boats And Floating Structures	15.7%	40.3%	89	Ships, Boats And Floating Structures	18.9%	8.7%
28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	12.4%	6.5%	15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	12.2%	0.5%
26	Ores, Slag And Ash	12.2%	3.3%	73	Articles Of Iron Or Steel	9.2%	0.5%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	9.9%	2.3%	16	Preparations Of Meat, Of Fish Or Of Crustaceans, Molluscs Or Other Aquatic Invertebrates	8.6%	21.1%
10	Cereals	4.2%	0.5%	72	Iron And Steel	8.4%	0.1%
27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	4.0%	1.0%	27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	6.0%	0.3%
73	Articles Of Iron Or Steel	2.3%	0.7%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	4.5%	0.2%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	2.0%	0.6%	22	Beverages, Spirits And Vinegar	1.4%	0.6%
22	Beverages, Spirits And Vinegar	1.7%	4.0%	90	Optical, Photographic, Cinematographic, Measuring, Checking, Precision, Medical Or Surgical Instrume	1.1%	0.6%

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(Annex Table 9 ctd.)

Zaporizhzhya				Donetsk			
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product	HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product
72	Iron And Steel	42.6%	11.1%	72	Iron And Steel	54.7%	50.3%
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	17.2%	18.1%	27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	10.3%	40.0%
85	Electrical Machinery And Equipment And Parts Thereof; Sound Recorders And Reproducers, Television Im	13.2%	16.4%	86	Railway Or Tramway Locomotives, Rolling Stock And Parts Thereof; Railway Or Tramway Track Fixtures A	8.1%	28.0%
26	Ores, Slag And Ash	4.3%	5.2%	73	Articles Of Iron Or Steel	6.5%	32.5%
87	Vehicles Other Than Railway Or Tramway Rolling Stock, And Parts And Accessories Thereof	4.3%	29.2%	84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	3.3%	12.4%
15	Animal Or Vegetable Fats And Oils And Their Cleavage Products; Prepared Edible Fats; Animal Or Veget	4.1%	3.9%	31	Fertilisers	3.0%	23.8%
81	Other Base Metals; Cermets; Articles Thereof	1.9%	48.1%	25	Salt; Sulphur; Earths And Stone; Plastering Materials, Lime And Cement	2.0%	39.7%
28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	1.6%	3.7%	28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	1.9%	15.5%
10	Cereals	1.4%	0.8%	18	Cocoa And Cocoa Preparations	1.8%	38.2%
22	Beverages, Spirits And Vinegar	1.4%	14.3%	74	Copper And Articles Thereof	1.1%	80.2%
Luhansk							
HS code	HS description	Share in total regional exports	Share in total Ukrainian exports of this product				
72	Iron And Steel	34.7%	9.5%				
27	Mineral Fuels, Mineral Oils And Products Of Their Distillation; Bituminous Substances; Mineral Waxes	21.6%	24.8%				
86	Railway Or Tramway Locomotives, Rolling Stock And Parts Thereof; Railway Or Tramway Track Fixtures A	16.4%	16.8%				
31	Fertilisers	6.8%	16.0%				
28	Inorganic Chemicals; Organic Or Inorganic Compounds Of Precious Metals, Of Rare-Earth Metals, Of Rad	3.0%	7.4%				
29	Organic Chemicals	2.8%	29.0%				
84	Nuclear Reactors, Boilers, Machinery And Mechanical Appliances; Parts Thereof	2.3%	2.6%				
39	Plastics And Articles Thereof	2.0%	11.0%				
48	Paper And Paperboard; Articles Of Paper Pulp, Of Paper Or Of Paperboard	2.0%	8.3%				
73	Articles Of Iron Or Steel	1.6%	2.4%				

Source: State Statistics Service of Ukraine.

