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Contents

Does FDI follow comparative advantage?	1
A note on Modigliani-Miller and the balance of payments	13
Do profit tax cuts stimulate private investment?	16
Monthly statistics	
Selected monthly data on the economic situation in ten transition countries, 2003-2004	21
Guide to wijw statistical services on Central and Fastern Europe, Russia and Ukraine	32

Does FDI follow comparative advantage?*

BY JULIA WÖRZ

Introduction

While the amount of research devoted to studying foreign direct investment (FDI) on a macro level is overwhelming, far less effort has been devoted to industrial studies of FDI. A closer inspection of industrial structures and competitiveness at a more disaggregated level may yield interesting new insights. One reason to study the relationship between FDI and competitiveness at the industry level is the following: empirical research that has looked at the impact of inward FDI on the host country's subsequent development mostly points towards a positive influence on growth and development and argues that knowledge and

In the following we analyse industrial specialization patterns of CEECs with respect to output, trade and FDI for 14 industries (based on NACE, Rev. 1, 2-digit code) over the past decade to give a first idea of the relationship between industry-level competitiveness and FDI. Then we compare the results with East Asian data. Finally, we draw some conclusions with respect to the growth prospects for Eastern Europe based on the evidence presented.

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technology spillovers as well as other positive externalities (such as efficiency gains management and production processes) are responsible for this outcome (see, for example, Borensztein et al., 1998). However, the positive impact of FDI is only found when the host country has a minimum threshold stock of human capital. Thus, it seems straightforward to assume that the positive impact of FDI on the host economy depends on which industries absorb the foreign capital (i.e. on the human capital intensity of the receiving industry).

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Comparative advantage and the eclectic theory of FDI

Two concepts from the theory on international trade and multinationals taken together will draw a picture of the relationship between competitiveness at the industry level and the industrial allocation of FDI. First of all, the principle of comparative advantage asserts that countries will specialize in producing and exporting those goods that are intensive in the use of the country's abundant resources, while goods that are produced using a country's scarce resources are imported. If this principle can be applied to direct investment flows, then we would expect a country to attract FDI in those activities that are intensive in the use of the country's abundant resources and factors, and to outsource to foreign locations those activities that require the country's scarce resources. Although classical trade theory has often been rejected for the fact that it is not able to explain intra-industry trade or trade between similarly endowed partners - which in today's world accounts for the lion's share of all trade¹ – there is ample evidence that the activities of multinational firms are related to the resource abundance in their home countries and thus that there are links between the comparative advantage of countries and the international activities of firms (Nachum et al., 2000).

The principle of comparative advantage in connection with the eclectic theory of FDI (Dunning, 1981)² predicts the following outcomes (following Nachum et al., 2000): If a firm chooses to invest in a foreign country out of resource- or export-seeking motives, investment will occur in those sectors where the host country has a comparative advantage. Likewise, efficiency-seeking investment is more likely to flow into countries with an appropriate comparative advantage for the firm's

We will measure comparative advantage by looking at a country's export performance in relation to the country group as a whole, thus using the concept of revealed comparative advantage developed by Balassa (1965). Before doing so, a rough description of the industrial structure in the countries of interest is in order here.

Industry structure in Central Eastern Europe

Figures 1-5 (see end of article) depict industrial structures for the Czech Republic, Hungary, Poland, Slovakia and Slovenia in three different years (1993, 1998, and 2002) and for four different indicators (production, exports, imports, and FDI).

Looking at the figures in a chronological way, starting with the year 1993, we first observe that output and export patterns are highly positively correlated, apart from a few obvious exceptions. The food industry, which often has to adapt to country-specific preferences and whose products

needs, even if other considerations (scale economies, internalization and integration advantages) play a role as well. If a firm invests out of market-seeking or strategic motives, investment is more strongly driven by other factors (such as demand conditions in the host country, strategic benefits for the overall competitive position in international markets, etc.), however inward FDI is still expected to be roughly in accordance with the host country's comparative advantages. Thus, a positive correlation between the industrial structure of inward FDI and the host country's comparative advantages indicates the importance of locationadvantages for FDI. Comparative bound advantages of the host country and inward FDI are expected to be unrelated or may show a negative correlation if ownership advantages of the multinational are sufficiently large compared to locational considerations and further in the presence of government interventions (both policies that attract FDI and policies that prevent FDI). Thus, the lack of a positive correlation between comparative advantage and the pattern of inward FDI suggests a dominant role for ownership and internalization advantages.

The same applies to direct investment flows: Since World War II, by far the largest fraction of global FDI occurs between highly developed industrial countries (see UNCTAD, 2003).

According to the eclectic theory of FDI a mix of three factors is at work that explains the presence of multinational firms: firm-specific ownership advantages, country-specific location-bound advantages, and internalization advantages.

are often characterized by a high risk of deterioration, and subject to trade barriers, usually receives a much greater share in terms of output as compared to its export share. Slovakia, Poland and Hungary also exhibit a high share of the coke industry in their output patterns that is not reflected in equally high export shares. As a second general observation, output as well as trade patterns are highly skewed for all countries with the exception of Slovenia. Thirdly, export and import patterns match closely, which indicates a relatively high degree of intra-industry trade (IIT) for these countries in general. There are a few exceptions, which shall be listed here. The machinery and electrical equipment industries received a high share of imports in all countries except in Slovenia, not matched by high export shares. In Poland, also the rubber industries had high import shares unmatched by exports.

1998 is the first year for which FDI inward stocks are available for these countries at the industrial level. The initial distribution of FDI is highly uneven and differs substantially among countries. Very often, FDI went into resource-based and labourintensive industries such as minerals (Czech Republic), metals (Slovak Republic), food and beverages (all but Slovenia), or paper (Slovenia). Hungary received a large share in the electrical equipment industry, following previously high import shares in this industry. A similar development took place in the Czech Republic. In Slovenia, high relative imports in the rubber industry were followed by a high FDI share. The manufacture of transport equipment featured prominently as a recipient of early FDI in all five countries alike. It is interesting to note that FDI did not flow into the main (export) industries as the concept of comparative advantage would suggest.3 Instead, FDI went into a few selected industries only, which differed substantially among the individual countries. Also, the structure of FDI did in general not correspond to the structure of exports.

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Hungary is an exception to this: in 1998, FDI, export, import and output patterns matched closely and showed a great dependence on just three industries: electronics, transport equipment and food and beverages. Slovenia also showed a relatively high correspondence between FDI, trade and output structures.

Moving on to 2002 - the last year for which we currently have data for all four variables - reveals that those industries that experienced relatively high FDI inflows usually gained export shares as compared to 1998. The structure of FDI has changed as well. In the Czech Republic it has become less resource-based and somewhat less concentrated. FDI is still primarily absorbed by the transport equipment industry (17%), electronics (14%), minerals (13%) and food (12%). Also Poland is characterized by a reduced concentration of FDI stocks, without a qualitative change in the distribution across industries. The food industry receives about 22% of total FDI (compared to 28% in 1998), transport equipment 14% (against 18%) and other manufactures 20% (rising from 18%). Hungary shows no change in concentration, however, with 24% (up from 14% in 1998), the transport equipment industry attracts the highest share of FDI in 2002 as compared to the electronics industry (20% down from previously 23%). Still, exports of electronics increased from 32% in 1998 to 38% of total manufacturing exports in 2002. Slovenia and Slovakia on the other hand show an increased concentration in FDI, while output and trade patterns remained extremely stable in both cases. Slovenia now has a very high share of FDI in the rubber industry (32% as against 15% in 1998), while Slovakia attracts the highest share of FDI in the metal industry (40% as compared to 23% before).

Thus, while not following export or output shares, FDI often resulted in high shares in both. In contrast, there were a few cases where FDI followed high import shares. In the Czech Republic and in Hungary, FDI concentrated in the electronics industry, which previously had received a pronouncedly high share of imports. Slovenia

It has to be mentioned here that output and export shares of a country as such do not reflect comparative advantage, as these shares have to be put in relation to those of a country's trading partner. This will be done later on.

received relatively much FDI in the rubber industry after previously high imports. This underlines a common function of FDI and imports: technology and knowledge can be embodied in traded goods or transferred more directly via FDI. The sequencing of arms-length trade first and FDI second seems to be natural, given higher fixed costs of direct investment as compared to trade and given the risk of investing in new markets. Imports may reduce this risk by building up some specific knowledge in the respective industry when they are used as inputs in indigenous production rather than consumer goods. As one can see from the figures, in all three cases, output shares in the respective industry were also quite high and increased between 1993 and 1998.

Summing up the evolution of FDI patterns over the observation period, some typical developments can be observed. In all five countries, FDI tended to move into resource-intensive industries first. In the Czech Republic, Hungary and Poland, it moved rapidly towards more human capital-intensive industries while also spreading more equally across industries. The industries emerging as the main recipients of FDI in 2002 were first of all the transport equipment industry but also the electrical equipment industry. The latter played a dominant role in Hungarian manufacturing in every respect. However, the Czech Republic has also increased its share of FDI in the electronics industry recently, resulting in an increased export share as well. Slovenia and Slovakia on the other hand showed a narrowing of their FDI pattern towards clearly resource-based industries.

Revealed comparative advantages and FDI

A country's comparative advantage is defined as its endowment pattern with respect to its trading partners. The notion of 'revealed comparative advantage' refers to export specialization patterns, which are believed to reveal the underlying comparative advantages of a country in terms of its endowments (Balassa, 1965). For the following analysis, a specialization index, weighted by the importance of the respective industry, is calculated

for each of the variables above: output, exports (= revealed comparative advantage) and FDI. The correlation of these specialization indices across industries for each country gives an indication of the main motives behind FDI. Table 1 presents the results for a sample of nine CEECs, while Table 2 shows the results for a sample of eight East Asian countries. In line with our earlier observations, a high correlation between output and export specialization is found in most cases.

For the sample of CEECs, export and output specialization is not significantly correlated in only four out of the 26 cases (Poland and Latvia in 1993, Slovakia and Croatia in 1998). By 2002, output and trade specialization patterns match for all countries to a great extent. This correlation is less strong in some East Asian countries. especially in the Philippines, Thailand, and in Taiwan. Here, export patterns differ more strongly from output patterns, indicating that the export sector is more detached from the rest of the economy than in Eastern Europe. These differences may also reflect differences in trade barriers within the two country groups, leading to different levels of distortion on the export side. The CEFTA agreement removed tariff barriers for 90% of all industrial goods between most CEECs already in 1997, while the earlier established ASEAN Free Trade Area (AFTA) from 1992 has foreseen a reduction of trade tariffs to a maximum of 5% for included products by 2008, with the option of removing them altogether. This tariff reduction is still underway in many ASEAN member states. Consequently there are still tariff barriers to trade inside East Asia in the industrial sector. The relatively higher correlation between output and trade patterns in Eastern Europe indicates not only a relatively homogenous market, it also suggest that internal trade barriers are indeed lower in Eastern Europe today than in East Asia.

Turning to the correlation between export and FDI specialization gives a similar impression. Again, these variables are more often correlated in the Eastern European sample as opposed to the group

Table 1

Correlation coefficients for CEECs

	Correlation between	export and out	put specialization	Correlation between export ar	nd FDI specialization
country	1993	1998	2002	1998	2002
Czech Republic	0.667 ***	0.865 ***	0.785 ***	0.140	0.527
Hungary	0.607 **	0.887 ***	0.763 ***	0.564 **	0.640 **
Poland	0.355	0.798 ***	0.537 **	0.660 **	0.736 ***
Slovakia	0.708 ***	0.335	0.883 ***	-0.002	0.720 ***
Slovenia	0.781 ***	0.897 ***	0.916 ***	0.613 **	0.500 *
Estonia	0.671 **	0.785 **	0.709 ***	0.321	0.564 **
Latvia	0.161	0.885 ***	0.827 ***	0.728 ***	0.807 ***
Lithuania	0.532 **	0.854 ***	0.724 *** 1)	0.749 ***	0.758 ***
Croatia	-	0.389	0.665 *** 2)	0.130	0.219

Notes: 1) 2001. - 2) 2000. - *, **, *** indicate significance at the 10%-, 5%-, and 1%-level respectively.

Source: wiiw, UN COMTRADE; own calculations.

Table 2

Correlation coefficients for Asian countries

	Correlation betwee	n export and ou	tput specialization	Correlation betwee	n export and FDI	specialization
country	1995	1998	2000	1995	1998	2001
Hong Kong	0.922 ***	0.826 ***	0.818 ***	0.676 **	0.603 **	-
Indonesia	0.723 ***	0.503 *	0.489 *	0.289	0.491 *	0.264
Korea	0.745 ***	0.706 ***	0.691 ***	0.097	-	-
Malaysia	0.936 ***	0.915 ***	-	0.281	0.512 *	0.509 *
Philippines	0.320 1)	0.375	-	0.011	0.170	0.278
Singapore	0.841 ***	0.728 ***	0.724 ***	0.665 ***	0.856 ***	0.547 **
Thailand	0.196	0.693 ***	0.096	0.161	-0.027	0.117
Taiwan	0.333	-	-	0.345	0.190	0.202

Notes: 1) 1996. - *, **, *** indicate significance at the 10%-, 5%-, and 1%-level respectively.

Source: UNIDO, UN COMTRADE, UNCTAD; own calculations.

of East Asian countries. In 1998, a significant correlation was found (in decreasing order) for Lithuania, Latvia, Poland, Slovenia and Hungary. In these countries, FDI followed comparative advantage. The correlation between FDI and export specialization has generally increased over time, most notably so in Slovakia where the coefficient rose from zero to 72%. In 2002, only Croatia and the Czech Republic did not show a significant correlation between the two variables.

In contrast to this, no such common trend was observed in Asia. Singapore and Hong Kong are the only two countries to show a great concordance

between export and FDI patterns. Malaysia exhibited a positive correlation from 1998 onwards. For the Philippines, Thailand, Korea and Taiwan such a positive correlation was never found. Indonesia exhibited a positive relationship in 1998, however the correlation coefficient again dropped to 26% in 2001.

It may be concluded that the motives for FDI differ greatly between theses two groups of countries. While CEECs attracted FDI mainly because they offered locational advantages (for instance, a well educated labour force, lower wages than in the major investing countries, growing domestic

markets, economic stability, good accessibility, etc.), FDI in East Asia was often driven primarily by strong ownership advantages of the investing firms or by government policies.4 The four Asian Tigers (Hong Kong, Singapore, Taiwan and Korea) show greatly opposing patterns: while a strong correlation between comparative advantage and FDI specialization was found in two of them (Hong Kong and Singapore), no significant correlation could be observed for the remaining two (Korea and Taiwan). Thus, whether or not FDI is attracted by location-bound advantages, does not seem to be related to the growth impact of FDI, since all four countries are famous for their outstanding growth performance. However, the laggards in the sample, the Philippines, Thailand and also Indonesia, do not show this positive correlation, thus implying that comparative advantages of a location may help in stimulating subsequent growth without being a necessary condition for it.

Conclusion

To sum up, FDI closely follows revealed comparative advantage in Central and Eastern Europe, while the picture is more diverse in East Asia. The positive relationship between FDI and export specialization in Eastern Europe is further accompanied by a homogenous industrial structure between the domestic and the export sector of the economy, resulting in a high correlation between output, export and FDI patterns. In contrast to this, the domestic and the export sectors seem to be more differentiated in East Asia, often leading to a 'dual-economy' structure with a more advanced export sector as opposed to a more backward domestic sector. These differences certainly reflect differences in the underlying motives for FDI. The question whether different investment motives carry over to differences in the growth impact of FDI is left open by the simple analysis carried out here. It is however an interesting question to pursue.

The high correlation between export specialization and FDI suggests that resource-, market- and efficiency-seeking FDI plays a big role in CEECs. In the case of resource-seeking FDI, the fear of entering a development trap is sometimes raised. If, for instance, FDI exploits primarily cheap labour or natural resources without generating a lot of spillovers, future development may be hampered by such a specialization pattern. This may partly be of concern for Slovenia and Slovakia, given the type of specialization pattern that we have seen earlier. It is certainly not the case for Hungary. Poland, despite its high FDI share in the food industry, also shows sufficient FDI in more human capital-intensive industries. The Czech Republic, with its high FDI share in the automobile industry, shows no such correlation, indicating the strong ownership advantage of the main investor (Volkswagen).

As becomes clear from the sample of East Asian countries, the motives for FDI (i.e. location-bound as opposed to firm-bound advantages) as such are not sufficient to predict the future growth impact of FDI. Two out of the four fast growing Asian Tigers show a strong role of location-bound comparative advantages for inward FDI, while the other two show no such relationship. The same distinction is found between the Czech Republic and Hungary. Given the channels through which FDI affects growth, namely by generating technology and knowledge spillovers as well as through learning externalities, the specific industrial pattern of FDI seems to be much more important than a high between concordance current comparative advantage and FDI. In this respect, both countries, the Czech Republic and Hungary, can be expected to do well in the future, while the specialization patterns in Slovakia and Slovenia may raise some concerns in the long run.

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It is not possible to distinguish between the two in our approach.

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NACE Rev. 1 industries quoted in Figures 1 to 5

- DA Food products; beverages and tobacco
- DB Textiles and textile products
- DC Leather and leather products
- DD Wood and wood products
- DF Coke, refined petroleum products & nuclear fuel
- DG Chemicals, chemical products and manmade fibres
- DH Rubber and plastic products
- DJ Basic metals and fabricated metal products
- DK Machinery and equipment n.e.c.
- DL Electrical and optical equipment
- DM Transport equipment
- DE Pulp, paper & paper products, publishing & printing
- DI Other non-metallic mineral products
- DN Manufacturing n.e.c.

Figure 1 Industrial structure of the Czech Republic, 1993-2002

1993 ■output ■exports □imports 0.25 0.2 0.15 0.1 0.05 0 М 吕 님 DG Η 2 쑴 N 2 Ы

1998 ■output ■exports □imports ■FDI 0.25 0.2 0.15 0.1 0.05 М DB 2 8 님 DG Η S 2 움 Ы

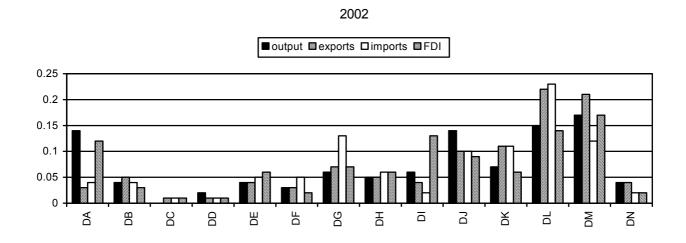
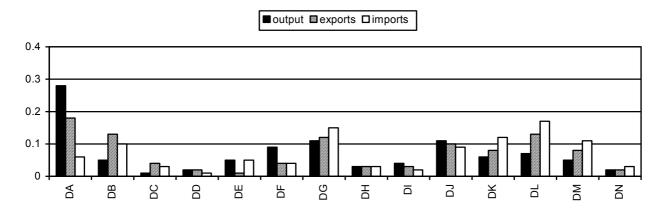
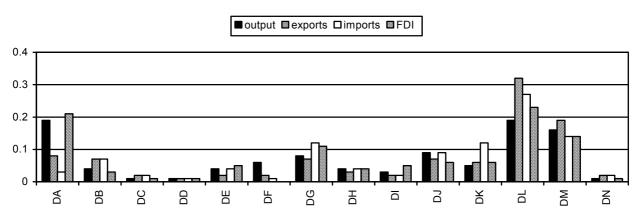


Figure 2 Industrial structure of Hungary, 1993-2002

1993



1998



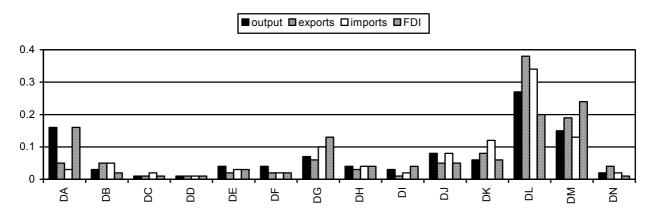
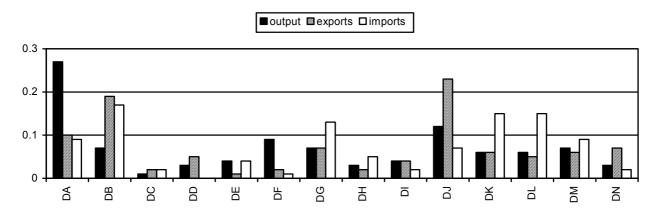


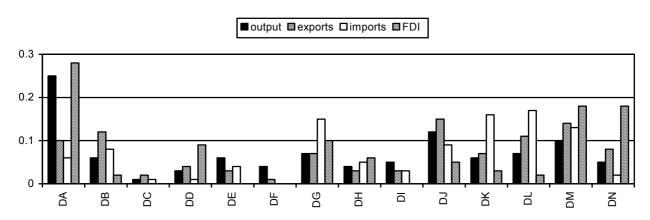
Figure 3

Industrial structure of Poland, 1993-2002

1993



1998



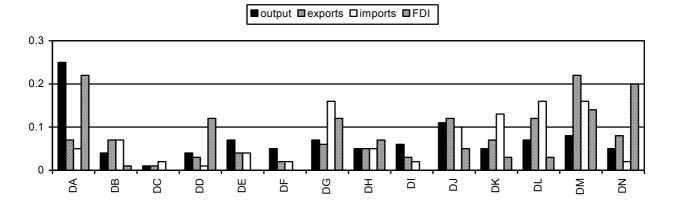
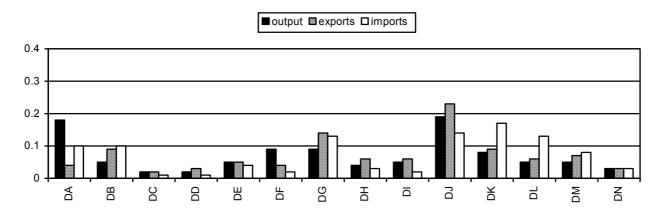


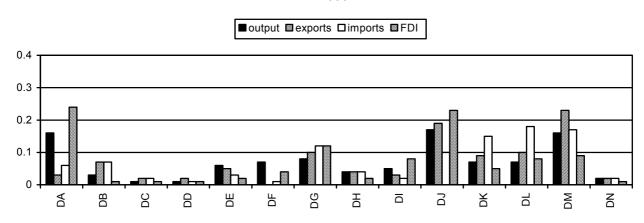
Figure 4

Industrial structure of Slovakia, 1993-2002

1993



1998



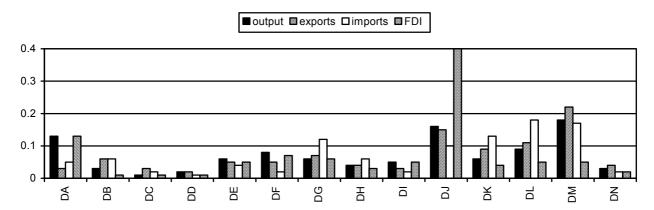
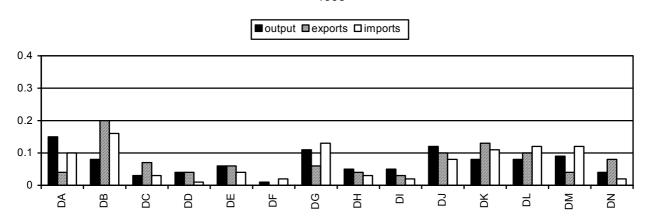


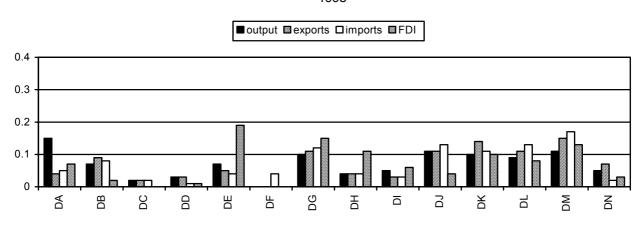
Figure 5

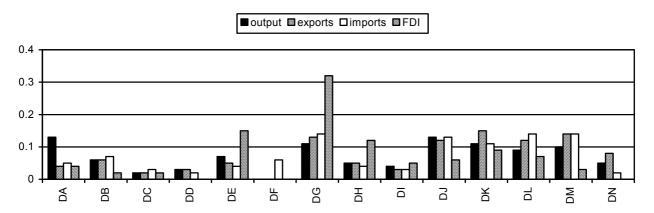
Industrial structure of Slovenia, 1993-2002

1993



1998





A note on Modigliani-Miller and the balance of payments

BY VLADIMIR GLIGOROV

Introduction

There is a presumption that foreign investments are better than foreign credits from the balance-of-payments point of view. Unlike in the case of firms, it is believed that it does matter in principle how leveraged states are. In other words, Modigliani-Miller (M-M) theorems cannot be applied to states. Is this view correct? It will be argued here that M-M theorems do apply to states as they apply to firms. The effects on the balance of payments will be examined and conditions under which the level of foreign debt becomes a binding constraint will be identified. Some comments on the significance of this analysis for emerging markets will conclude this note.

M-M theorems

The most important M-M theorem says that in general equilibrium it does not matter how leveraged a firm is. That implies that debt and equity are perfect substitutes. In a sense, that is obvious. These two types of securities differ in two respects: whether the value of the principal is fixed or not and whether it brings fixed income or not. However, there are securities with fixed value and variable return and those with variable value and fixed return. With these two characteristics in mind, the following classification can be introduced.

Table 1 Classification of securities

fixed variable

fixed all types of loans and bonds

principal

variable preferred shares common shares

A typical loan or bond will have a fixed nominal value, with fixed maturity, and a fixed interest rate.1 It will also have a market value at each moment before the time it matures. A debt-instrument, e.g., a bond, can also carry a variable interest rate and indeed the eventual difference in the value between the one and the other can be arbitraged away in the financial markets. Similarly, a preferred share will have a fixed return, but its value will be determined in the market. Again, the market will arbitrage away the difference that may emerge between the preferred and the common shares. Finally, shares can be leveraged in the sense that bonds can be issued to buy shares. The arbitraging between bonds and shares should keep the investors indifferent between the two in the equilibrium. Thus, the difference between the two will disappear as long as the two types of instruments are marketable. Indeed, all possible classes of securities can be generalized to one: an option to settle for one or the other depending on the state of affairs at a particular point in time.

If that is true, then the value of a firm or of any asset should be:

- (i) independent of how leveraged it is, i.e., it will be equal to the value of the underlying option, and
- (ii) independent of whether its return is paid out or reinvested, i.e., of what is in fact done with the return.

These are the two familiar M-M theorems. The second one may be useful in clarifying another point about the difference between various types of securities. Debt is different from equity because it has to be repaid in a specified period of time. Thus, debts have to be paid eventually. However, if the income of the debtor increases by more than the interest on the debt, the debt can always be refinanced with new debt. No repayment has ever to be made. The same is the case with equities. No

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Securities have a fixed principal or return or both because their maturity is restricted in time. This is in turn a reflection of the assessment of risk. The nominal value of a bond and a fixed interest rate are essentially a way to put a limit on the risk that a creditor is taking with the bond it is buying.

dividend needs to be paid if the income of the firm increases fast enough. The owners of the shares will be happy to reinvest their dividends in the profitable business. In both cases, owners of bonds or shares can always find somebody to sell their securities to or to borrow from if they need the money. It is clear from this example that the fact that a bond has to be repaid at a specified time does not really matter. Of course, if the flow of income dries out, assets have to be sold and the obligation towards the debtors comes before that of the equity owners. That risk, however, is included in the value of the share which can be as high as possible or equal to zero.

Macroeconomics of M-M

The initial motivation for the analysis of the financial structure of firms was macroeconomic.2 The question is, how could leverage matter when it is irrelevant to the economy as a whole? To see the latter, it is enough to observe that the balance sheet of an economy does not take account of its financial structure. In the national balance sheet. the assets are the productive capital and the liabilities are the household net worth. The form in which assets and liabilities are held does not matter. Does anything change if balance-ofpayments considerations are introduced? The answer is negative. The nature of the securities does not change and the logic on which the national balance sheet is constructed does not change either. The fact that some households and firms are on the other side of the border should not make any difference.

The implication of this consideration is that it does not matter whether a country finances its current account with debt or with non-debt creating investments. Indeed, if anything, the irrelevance is easier to see in the international context. This is because a country issues a security which is in a sense an option that generalizes over debts and equities – that is, its currency. Holding a currency is

like taking an option the value of which depends on the state of affairs at different points in time. Thus, in general, the value of a country does not depend on how leveraged it is.

A way to see this is to look at what happens to the current account depending on whether it is financed with debt or direct investments. In both cases, foreigners hold claims on the national economy. These claims will appear as items in the income balance of the current account. They will be mirrored in the country's capital account. Over time, a country will be more or less leveraged depending on whether it has financed its current account with loans or direct investments. But that will have no impact on the soundness of its foreign financial position. This is because the foreigners' decision to hold assets in that country will not depend on the type of asset but on its value. In other words, the circumstances conducive to investment will be conducive to lending too.

Also, the sustainability of the external position will not depend on whether investments are welcomed and credits are not. Assuming that a firm has an interest to reinvest its profits, it would have the same interest to refinance its debt. If not, it would repatriate the interest earned as soon as its dividends. That would impact the income balance of the current account in the same way.

Thus, the M-M theorem applies to national economies as it does to firms. Whether a country can finance and sustain its external position does not depend on how leveraged that position is.

Optimality and imperfections

One confirmation of this consideration is the fact that currency crises have occurred in countries that were highly leveraged and in those which were not. Sometimes it is argued that the so-called sudden stop of capital inflows and indeed reversals in the flow from inward to outward ones happen more often in indebted countries than in those that rely more on direct investments. This is not intuitive. On the one hand, investments can stop as suddenly as credits, indeed it could easily happen that the

See M. H. Miller (1988), 'The Modigliani-Miller Propositions After Thirty Years', *The Journal of Economic Perspectives*, Vol. 2, No. 4, pp. 99-120.

former will lead to the latter. On the other hand, loans may or may not be more liquid than shares depending on the way the banks and the stock exchanges are functioning. It is not intuitive to argue that it is difficult to get a loan while it is easy to directly invest and to also argue that the credit market is more liquid than the market for equities.

As argued above, bonds and equity should behave similarly. If it makes sense to invest it will make sense to buy a bond too. This statement depends on both being available. Thus, it makes sense to develop the market for direct investments as much as that for loans. In addition, it makes sense to develop long-term and short-term credits too. Usually, short-term debt is a problem when, as in some emerging markets, long-term bonds are initially non-existent. But optimality may require that most markets exist or at least that there are no obvious obstacles to them being developed as the demand for various financial instruments arises.

In the standard M-M framework, imperfections play a significant role. The way tax authorities treat various financial instruments may influence the way they affect the financial positions of firms and of the economy as a whole. If interest is not taxed while dividends are, that will differentiate the two of them and will segment the financial market. Other imperfections will work with the same effect. In some emerging markets, direct investments develop faster than banks, while in others banking is more developed than other financial institutions. The overall regulation of the financial markets plays a significant role too. Finally, the level of currency substitution is also quite important. If a country is suffering from the so-called original sin, some financial instruments will not be available and that will influence the optimality of the financial markets in a significant way.

External constraints

If it is true that it does not matter, under usual circumstances, how leveraged a country is, then the usual measures of financial vulnerability should not be seen as being important in the generally accepted way. Indeed, it could be argued that the following three criteria are the more important ones:

- (1) The sustainability of the external position. The key to a country's vulnerability is the development of its current account rather than the way the latter is financed. This is because the impact of debt and direct investments on the income balance of the current account is essentially the same. As long as the current account development is sustainable, the way it is financed does not mater.
- (2) The optimality of the financial markets. The relative development of the bond vs. equity markets is not important. The development of the market instruments does matter. This is the optimality condition.
- (3) Fiscal and regulatory rigidities matter. Fiscal or other preferences for one financial instrument over another may influence the debt vs. investment decision of firms and thus of countries too. If taking a loan is easier than buying an asset, or vice versa, the efficiency of the allocation of loans and assets may be negatively influenced and that may have an important influence on the choice of debt vs. direct investments in emerging markets.

Do profit tax cuts stimulate private investment?

BY KAZIMIERZ LASKI AND ROMAN RÖMISCH

Post-tax profits¹ per unit of output increase when at given profit/output rate the tax rate is reduced. With a higher post-tax profit per unit of output, profitability (measured that way) improves and this should be conducive to private (e.g. corporate) investment. Arguments like this, supported by common sense and the supply-oriented mainstream economics, motivate the tax policies in transition countries most of which have engaged in progressing reductions of corporate income tax rates. In this paper we shall try to check whether this argument is supported by data for the USA covering the period 1960 through 2003.

The profit tax rate used here is an effective corporate tax rate calculated as the ratio of the profit tax liability and profits.

Profits are defined as income from current production. With several differences, this income is measured as receipts less expenses as defined in Federal tax law. Among these differences are: Receipts exclude capital gains and dividends received; expenses exclude bad debt, depletion, and capital losses; inventory withdrawals are valued at current cost; and depreciation is on a consistent accounting basis and valued at current replacement cost. Because national income is defined as the income of US residents, its profits component includes income earned abroad by US corporations and excludes income earned in the United States by foreigners.

The profits tax liability is the sum of all Federal, State and local income taxes on corporate earnings. These earnings include capital gains and other income excluded from profit before taxes. The taxes are measured on an accrual basis, net of applicable tax credits (see Bureau of Economic Analysis (2002).

Thus our effective profit tax rate is similar to the effective corporate tax rate used by Nicodème (2001), who relates profit taxes to the gross operating profit of corporations.

The evolution of the US profit tax rate and private investment activities is illustrated by Figure 1.2

While the profit tax rate trend declined sharply (from about 40% to about 26% of profits), private investment as a percentage of GDP remained nearly constant. The average profit tax was 39.5% of profits in the pre-Reagan years 1961-1982 and 30.9% in the years 1982-2003. The average share of private investment in GDP in the same two periods was 16.5% and 16.2%, respectively. Thus, one can state that the reduction of the profit tax did not have an impact on the long-run share of private investment in GDP; both increased at roughly the same speed.

We can however ask a much more important question: Was the reduction of profit tax accompanied by an acceleration of growth of private investment (IP) and consequently of GDP? This question is investigated in Figure 2. Here too the answer is quite clear as the trend growth rate of IP was falling. Thus the declining profit tax rate trend was accompanied by a deceleration of IP growth. The average corporate profit tax rate amounted, as mentioned above, to 39.5% in 1960-1982 and to 30.9% in 1983-2003 while in the same periods the average growth rate of private investment decreased from 4.8% p.a. to 2.5% p.a. Hence the corporate profit tax cut by 8 percentage points was accompanied by a decline of the investment growth rate by 2.3 percentage points. If we take into consideration the last three years we find that the corporate profit tax declined from 32.4% in 2001 to 26.1% in 2002 and to 21.6% in 2003. In these three years private investment moved from 4.5% growth (2001) to a decline by 9.5% (2002) and 2.6% (2003). It will be quite interesting to find out how private investment will develop in the US in the years to come.

Above, the trends of the variables were considered. However, some interesting observations can be

Pre-tax profits considered in this paper include consumption of fixed capital (amortization); hence post-tax profits (pre-tax profits minus profit tax) include amortization.

All data in this text are taken from the AMECO Database und from the Economic Report of the President (2004).

Figure 1

Profit tax and private investment (IP)

(in per cent)



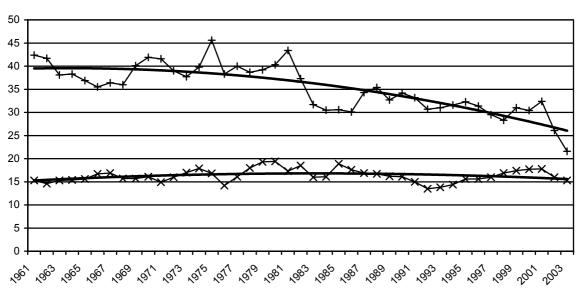
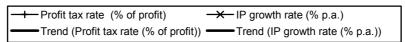


Figure 2

Profit tax and private investment (IP) growth

(in per cent)



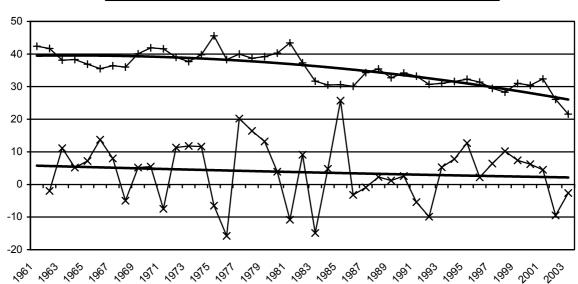


Figure 3

Average profit tax and average private investment (IP) over cycles

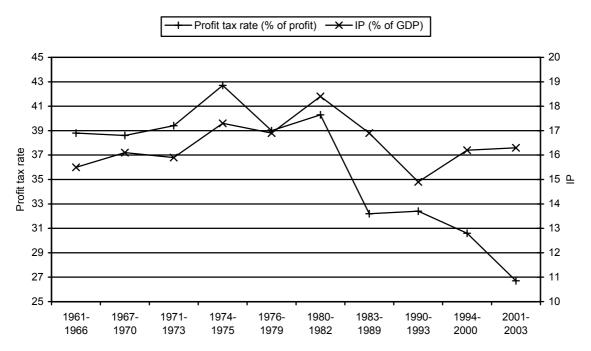
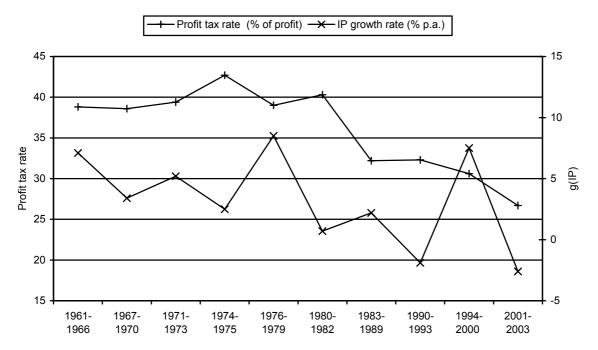


Figure 4

Average profit tax rate and average private investment (IP) growth over cycles



made concerning the behaviour over consecutive business cycles, each to be divided into an 'up' and a 'down' phase. As can be seen from Figure 3, the average profit tax rate, over the recent (post-1980) phases, has been definitely falling. It is likely to fall still further over the current, not yet closed 'down' phase.

An inspection of Figure 3 indicates that in four phases (out of nine closed ones) – namely, between 1974 and 1989 – the average profit tax rate and the average share of private investment moved in the same direction instead of an opposite one.

In Figure 4 the relation between average profit tax rate and average private investment growth over cycles is presented. As investment growth is the very engine of the business cycle, the 'up' and 'down' phases of every cycle are easily seen. But over these cyclical changes a clear pattern is evident. The average growth rate of investment in every 'down' phase is lower than in the previous one. This applies also to the 'up' phases (except for 1976-1979 and 1994-2000). Because of the rather strong relation between investment and GDP these conclusions are valid for GDP growth as well.

What kind of lessons can be drawn from this analysis? The advocates of profit tax reductions assume that profits are more or less given, hence that a tax reduction would increase post-tax profits and therefore also investment and overall growth. In reality however, profits are determined mostly by investment (and other net aggregate demand injections) not vice versa. The profit tax reduction, if accompanied - as is mostly the case - by a restrictive fiscal policy, necessitates either an increase in other taxes or a reduction in government expenditures. In both cases the reduction of profit tax would depress the level of economic activity because the increase of non-profit taxes would negatively influence private consumption and the decrease of government expenditures would negatively influence collective consumption and/or public investment. The lower level of economic activity thus provoked by profit

tax reduction, combined with a given budget deficit, would depress rather than stimulate private investment and in turn reduce rather than increase profits.

The idea that an increase in profit tax would stimulate rather than depress economic activity was first formulated by Kalecki.³ Steindl developed this idea: '... if the budget is balanced this does not necessarily mean it has no influence, either stimulating or restrictive, on effective demand: this depends on the relative saving propensities of the taxpayers on the one hand and on the recipients of the government spending on the other. If taxes are imposed on strong savers like corporations while the spending out of the budget goes to small savers, then the balanced budget is equivalent in its effects on demand to a dissaving of government. It therefore increases effective demand and utilization of capacity.⁴

The USA is, from this point of view, a quite atypical case because in that country the profit tax reductions were combined with large deficits over the 1980s and from the beginning of the 2000s. The negative consequences of the tax reductions (lower public spending) were therefore limited. Moreover, in the USA (unlike in Germany where profit taxation has also been falling) real wages have lagged much less behind labour productivity growth. This has helped to keep a relatively high level of capacity utilization (through strong consumption out of wages). Also, in contrast to the policy of the Bundesbank (and of the ECB), the US monetary policy has not been narrowly focused

See 'A theory of commodity, income and capital taxation' in Kalecki (1971), pp. 38-41.

⁴ Steindl (1990), pp. 113-114.

A good measure of wage restraint is the term called in German the 'real wage position'. We get this term as the rate of growth in real wages (defined as gross income from dependent employment per worker, adjusted to the GDP deflator) minus the growth rate of labour productivity (defined as GDP per worker) and reported at a cumulative rate of change. Flassbeck (2000, p. 11) has found that between 1980 and 2000 the 'real wage position' declined by about 3% in the USA while by about 16% in West Germany and the EMU.

on keeping inflation low. It allows for the state of the real economy – e.g. by providing cheap money whenever the real economy slows down.

The US-specific factors (tax cuts being associated with rising deficits rather than with cuts in spending; real wages trailing not far behind labour productivity; responsiveness of the monetary policy to the needs of the real economy) have all limited the negative impact of profit tax reductions on private investment – without offsetting it completely. The impacts of the tax reductions enacted elsewhere (e.g. in the transition countries) may not be similarly accommodated (if only because of the provisions of the Stability and Growth Pact). In effect the overall negative economic consequences of such tax cuts may turn out to be much more pronounced.

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CONVENTIONAL SIGNS AND ABBREVIATIONS

used in the following section on monthly statistical data

data not available

% per cent

CMPY change in % against corresponding month of previous year

CCPY change in % against cumulated corresponding period of previous year

(e.g., under the heading 'March': January-March of the current year against January-March

of the preceding year)

3MMA 3-month moving average, change in % against previous year.

CPI consumer price index

PM change in % against previous month

PPI producer price index

p.a. per annummn millionbn billion

BGN Bulgarian lev (1 BGN = 1000 BGL)

CZK Czech koruna

EUR Euro, from 1 January 1999

HRK Croatian kuna HUF Hungarian forint PLN Polish zloty ROL Romanian leu

RUB Russian rouble (1 RUB = 1000 RUR)

SIT Slovenian tolar SKK Slovak koruna UAH Ukrainian hryvnia

USD US dollar

M0 currency outside banks
M1 M0 + demand deposits
M2 M1 + quasi-money

Sources of statistical data:

National statistical offices and central banks; wiiw estimates.

Please note: wiiw Members have free online access to the wiiw Monthly Database Eastern Europe.

To receive your personal password, please go to http://mdb.wiiw.ac.at

B U L G A R I A: Selected monthly data on the economic situation 2003 to 2004

(updated end of August 2004) 2003 2004 Oct Apr Mav Jun Jul Aug Sep Nov Dec Jan Feb Mai ngA May Jun Jul PRODUCTION Industry, total13 real, CMPY 9.3 14.9 12.7 10.1 15.6 17.6 11.0 23.0 10.2 20.6 17.8 14.2 21.3 21.0 11.5 Industry, total1 real, CCPY 17.3 15.6 15.5 14.4 14.6 14.9 14.5 15.3 10.2 15.3 15.9 15.5 15.1 16.6 17.4 Industry, total real, 3MMA 14.7 12 0 12.3 12.6 128 14.5 14 6 17.2 14.8 18.0 15.9 172 17 4 18.9 I AROUR Employees total th. persons 2044 2055 2069 2076 2067 2063 2050 2034 2005 2078 2098 2118 2148 2165 2181 Employees in industry 676 673 676 675 671 669 664 661 652 672 675 675 682 681 680 th. persons Unemployment, end of period 446.8 552.0 528.7 506.4 489.3 480.9 472.6 476.3 489.6 500.7 537.1 527.3 507.5 487.8 466.7 452.4 th. persons Unemployment rate2 149 14.3 13 7 13 2 13.0 128 129 13 2 13.5 14.5 142 137 132 126 122 12 1 Labour productivity, industry1) CCPY 13.2 11.7 11.5 11.1 10.5 10.9 11.3 11.1 12.0 9.5 14.7 15.5 14.9 15.9 16.7 Unit labour costs, exch.r. adj.(EUR)13 CCPY -8.4 -7.2 -6.9 -6.6 -6.2 -6.3 -6.6 -6.1 -6.7 -4.3 -7.8 -8.3 -7.7 -8.3 -8.9 WAGES, SALARIES Total economy, gross BGN 273.0 272.0 280.0 274.0 276.0 286.0 276.0 286.0 302.0 279.0 278.0 292.0 289.0 296.0 290.0 Total economy, gross real, CMPY 3.5 2.3 2.1 1.3 -0.5 1.4 -1.5 0.1 1.4 -0.7 0.7 0.4 0.1 -1.0 -1.3 Total economy, gross USD 151 166 163 160 155 164 165 171 190 180 180 183 177 181 180 Total economy, gross 140 140 146 EUR 139 143 141 141 146 154 143 142 149 148 151 148 Industry, gross 142 149 154 144 EUR 140 147 143 142 149 144 144 155 149 152 156 **PRICES** PM Consumer 0.3 -0.6 -22 0.9 0.8 0.9 0.7 18 18 14 0.3 -0.1 0.3 0.0 -18 12 Consumer CMPY 0.2 1.7 1.2 2.0 3.5 3.6 33 5.1 5.6 6.4 66 6.2 6.1 6.8 7.3 76 CCPY 0.5 8.0 1.0 1.7 2.3 6.4 6.5 6.4 6.7 Consumer 0.8 1.3 1.6 2.0 6.3 6.4 6.6 Producer, in industry¹⁾ PM -3.6 -1.1 0.4 0.7 0.7 0.9 0.3 0.8 0.7 -0.8 1.4 0.9 -0.5 1.1 1.1 Producer, in industry CMPY 3.1 2.6 4.2 4.2 4.3 3.7 4.1 4.9 4.2 3.1 1.0 1.4 6.1 8.5 6.8 Producer, in industry CCPY 6.7 5.9 5.6 5.4 5.2 5.1 5.0 5.0 4.9 3.1 2.0 1.8 2.9 4.0 4.4 RETAIL TRADE Turnove real, CCPY 3.0 3.8 FOREIGN TRADE³⁾⁴⁾ Exports total (fob), cumulated 4417 500 EUR mn 2175 2688 3252 3874 5004 5607 6149 6668 1083 1718 2316 2917 2941 3780 4541 5412 6152 6933 7830 8716 709 1497 2412 3350 4337 5327 Imports total (cif), cumulated EUR mn 9611 Trade balance, cumulated FUR mn -766 -1092 -1289 -1538 -1735 -1929 -2223 -2567 -2942 -208 -414 -694 -1034 -1419 -1714 FOREIGN FINANCE Current account, cumulated5) EUR mn -741 -953 -922 -888 -752 -741 -949 -1220 -1505 -232 -359 -502 -718 -918 **EXCHANGE RATE** BGN/USD, monthly average nominal 1.804 1.684 1.677 1.720 1.756 1.745 1.673 1.672 1.593 1.550 1.547 1.594 1.634 1.632 1.611 1.595 1.956 1.956 BGN/EUR, monthly average 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 1.956 nominal BGN/USD, calculated with CPI⁶ real .lan00=100 85.0 79 7 81 2 82 7 84 1 83 1 79.0 77.3 72.3 697 698 724 74 2 74.5 75.2 73.5 BGN/USD calculated with PPI⁶ real. Jan00=100 86.0 81 1 80.7 82 2 83 6 82.8 79.1 78.6 74.6 73.1 739 75.5 77 6 77.8 77.5 BGN/EUR, calculated with CPI⁶⁾ real, Jan00=100 91.0 93.0 92.2 91.7 91.1 90.6 89.0 87.7 86.5 86.4 86.9 87.0 87.3 88.9 87.8 90.4 BGN/EUR, calculated with PPf real, Jan00=100 90.7 89.7 89.3 88.9 88.2 87.4 87.3 86.6 86.2 87.1 86.4 86.1 85.6 86.0 90.1 DOMESTIC FINANCE M0, end of period7 3483 3785 BGN mn 3200 3248 3356 3616 3624 3569 3559 3874 3718 3718 3723 3830 3961 4132 M1 end of period⁷ BGN mn 6435 6560 6834 7110 7314 7416 7422 7377 8030 7788 7853 7835 7987 8036 8422 8738 Broad money, end of period7) BGN mn 13901 13926 14328 14788 15246 15243 15878 15733 16566 16519 16739 16806 17190 17401 18161 18367 Broad money, end of period CMPY 12.1 14.6 18.4 18.8 19.7 18.9 22.6 19.7 19.6 21.4 21.4 23.0 23.7 25.0 26.8 24.2 BNB base rate (p.a.),end of period 3.0 2.5 2.5 2.6 2.6 2.6 2.5 2.6 2.5 2.5 3.0 2.6 2.9 2.4 2.6 3.9 BNB base rate (p.a.),end of period⁸ real % -0.1 0.4 -16 -16 -16 -11 -14 -2 1 -1.3 -0.6 1.5 12 -3.3 -4.3 -4.1 BUDGET

Central gov.budget balance,cum

BGN mn

284.0

609.7

577.7

612.4

656.7

758.5

851.1

732.2

-110.6

-65.1 -162.8

120.9

405.3

¹⁾ According to new calculation for industrial output and prices.

²⁾ Ratio of unemployed to the economically active.

³⁾ Based on cumulated national currency and converted with the average exchange rate

⁴⁾ Cumulation starting January and ending December each year.

⁵⁾ Based on national currency and converted with the exchange rate.

⁶⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

According to ECB methodology.

⁸⁾ Deflated with annual PPI.

CROATIA: Selected monthly data on the economic situation 2003 to 2004

		2003									2004			(up	dated en	d of Augus	st 2004)
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
PRODUCTION																	
Industry, total ¹⁾	real, CMPY	8.2	6.2	7.0	4.4	3.1	2.9	2.2	-0.4	2.2	-1.5	7.2	10.4	3.0	1.0	2.8	1.2
Industry, total ¹⁾	real, CCPY	5.5	5.7	5.9	5.7	5.3	5.0	4.7	4.2	4.0	-1.5	3.0	5.6	4.9	4.1	3.9	3.5
Industry, total ¹⁾	real, 3MMA	6.8	7.1	5.8	4.8	3.5	2.7	1.6	1.3	0.1	2.7	5.6	6.8	4.7	2.2	1.7	
Construction, total,effect.work.time ¹⁾	real, CMPY	26.9	30.9	29.3	24.3	17.6	26.9	20.3	17.5	23.9	16.0	12.5	7.6	6.6	4.8		
LABOUR																	
Employment total	th. persons	1383.7	1393.0	1405.7	1415.1	1415.5	1407.0	1399.3	1392.9	1382.0	1377.8	1374.5	1377.3	1384.1	1394.2	1404.1	
Employees in industry	th. persons	283.5	283.6	284.0	284.0	283.8	283.6	283.5	282.6	280.5	268.4	277.3	276.9	277.3	278.0	277.8	
Unemployment, end of period	th. persons	345.3	330.9	319.7	314.2	306.6	307.4	312.3	317.0	318.7	325.0	326.0	325.2	317.0	305.2	295.6	293.3
Unemployment rate ²⁾	%	20.4	19.6	18.9	18.5	18.2	18.3	18.6	18.9	19.1	19.1	19.2	19.1	18.6	18.0	17.4	17.2
Labour productivity, industry ¹⁾	CCPY	9.5	9.7	9.8	9.5	9.1	8.8	8.5	8.0	7.8	2.0	6.0	8.7	7.9	6.8	6.4	
Unit labour costs, exch.r. adj.(EUR)1)	CCPY	-4.0	-5.0	-5.2	-5.0	-4.9	-4.4	-4.2	-4.4	-4.3	-1.8	-3.8	-3.3	-2.2	-1.2		
WAGES, SALARIES																	
Total economy, gross	HRK	5541	5671	5705	5694	5587	5558	5711	5807	5793	5815	5714	5962	5927	5994		
Total economy, gross	real, CMPY	1.9	1.6	4.5	2.7	1.3	3.0	3.0	0.3	3.6	3.0	4.4	7.4	5.0	3.2		
Total economy, gross	USD	795	866	885	864	829	829	880	893	926	954	943	975	950	969		
Total economy, gross	EUR	734	752	757	759	743	741	752	763	755	756	747	795	790	807		
Industry, gross	EUR	674	698	702	712	677	691	695	687	701	681	670	730	719	738		
PRICES																	
Consumer	PM	-0.3	0.3	-0.4	0.1	0.1	0.2	0.0	0.2	0.3	1.0	-0.1	0.1	0.2	0.7	-0.3	-0.4
Consumer	CMPY	1.6	1.4	1.6	2.0	2.2	2.0	1.8	1.8	1.7	2.1	1.8	1.4	1.9	2.4	2.5	1.9
Consumer	CCPY	1.7	1.6	1.6	1.7	1.7	1.8	1.8	1.8	1.8	2.1	2.0	1.8	1.8	1.9	2.0	2.0
Producer, in industry	PM	-0.9	-0.8	0.2	0.2	0.5	-0.4	0.2	0.3	0.0	0.3	-0.3	0.2	0.9	2.3	-0.3	0.9
Producer, in industry	CMPY	2.8	1.8	1.7	1.4	2.0	1.2	0.0	0.9	1.0	0.8	0.1	-0.5	1.3	4.4	3.9	4.6
Producer, in industry	CCPY	3.3	3.0	2.8	2.5	2.5	2.4	2.1	2.0	1.9	0.8	0.5	0.2	0.4	1.2	1.7	2.1
RETAIL TRADE ³⁾																	
Turnover	real, CMPY	13.3	6.5	5.2	0.7	-1.7	1.1	0.2	-1.0	3.8	2.5	2.1	3.8	0.0	0.0	2.3	
Turnover	real, CCPY	7.6	7.3	7.0	6.1	5.2	4.7	4.2	3.8	3.7	2.5	2.4	2.8	2.0	1.6	1.7	
FOREIGN TRADE ⁴⁾⁵⁾																	
Exports total (fob), cumulated	EUR mn	1761	2215	2696	3183	3565	4002	4592	5032	5468	411	891	1452	2000	2538	3036	
Imports total (cif), cumulated	EUR mn	3858	4993	5982	7203	8076	9176	10316	11425	12546	798	1733	2919	4020	5223	6475	
Trade balance, cumulated	EUR mn	-2097	-2779	-3286	-4020	-4511	-5174	-5724	-6392	-7079	-387	-842	-1467	-2020	-2686	-3439	
Exports to EU-15 (fob) ⁶⁾ , cumulated	EUR mn	962	1237	1501	1789	2008	2251	2532	2781	2981	291	581	947	1321	1711	2003	
Imports from EU-15 (cif) ⁶⁾ , cumulated	EUR mn	2170	2847	3413	4149	4597	5197	5827	6399	7096	525	1188	2059	2867	3738	4624	
Trade balance with EU-15 ⁶ , cumulated	EUR mn	-1208	-1610	-1912	-2360	-2589	-2946	-3296	-3618	-4114	-234	-607	-1111	-1546	-2027	-2622	
FOREIGN FINANCE																	
Current account, cumulated ⁽⁾	EUR mn			-2314			-518			-1860			-1171				
EXCHANGE RATE																	
HRK/USD, monthly average	nominal	6.966	6.549	6.443	6.591	6.737	6.701	6.487	6.503	6.253	6.094	6.060	6.114	6.241	6.186	6.081	6.011
HRD/EUR, monthly average	nominal	7.554	7.542	7.536	7.498	7.515	7.498	7.592	7.610	7.670	7.690	7.650	7.501	7.506	7.427	7.378	7.374
HRK/USD, calculated with CPI ⁸⁾	real, Jan00=100	88.9	83.3	82.3	84.2	86.3	86.0	83.1	82.9	79.4	77.0	77.1	78.2	80.0	79.1	78.3	77.7
HRK/USD, calculated with PPI ⁸⁾	real, Jan00=100	89.7	85.0	84.3	85.8	87.5	87.7	85.2	84.9	82.0	80.7	81.0	81.9	83.9	82.5	81.6	80.0
HRD/EUR, calculated with CPI ⁸⁾	real, Jan00=100	94.5 93.8	94.1 94.1	94.4 93.7	93.8 93.1	94.1 93.0	94.0 93.2	95.3 94.1	95.4 94.2	96.2 94.9	95.4 95.2	95.3 95.1	93.8 93.7	94.0 93.4	92.8 90.7	92.4 90.4	92.7 89.6
HRD/EUR, calculated with PPI ⁸⁾	real, Jan00=100	93.8	94.1	93.7	93.1	93.0	93.2	94.1	94.2	94.9	95.2	95.1	93.7	93.4	90.7	90.4	89.6
DOMESTIC FINANCE	LIDIK	0040	40070	40007	44004	44204	10506	40000	40.400	40570	40040	40047	10040	40455	40544		
M0, end of period	HRK mn	9813 30294	10078	10637	11294	11321		10262	10400	10573	10219	10217		10455	10541		
M1, end of period Broad money, end of period	HRK mn HRK mn	30294 117854	32002 119105	32828 120022	34382 125023	34044 126980	32589 126911	32806 127072	33295 128718	33889 128893	32323 128918	31284 127877	31623 125767	32891 127868	33194 127461	34265 129560	
Broad money, end of period	CMPY	10.8	11.9	120022	125023	120980	120911	10.7	128718	128893	128918	9.1	5.9	8.5	7.0	7.9	
Discount rate (p.a.), end of period	CIVIPT %	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Discount rate (p.a.), end of period ⁹⁾	real, %	1.7	2.7	2.8	3.1	2.5	3.3	4.5	3.6	3.5	3.7	4.5	5.0	3.2	0.1	0.6	-0.1
BUDGET	1661, 70	1.7	2.1	2.0	J. I	2.0	0.0	7.5	0.0	5.5	0.1	7.7	5.0	0.2	0.1	0.0	J. I
Central gov. budget balance, cum. 10)	HRK mn	-2837 2	-4007 7	-4021 a	-4432 /	-40126	-411 <i>1</i> A	-4496 5	-2066 3	-2186.6	1.0	-1356.9	-2499.7	-3886.2			
Some a gon sauget buildines, will.	I II MX IIIII	2001.2	1001.1	1021.0	1104.4	1012.0	T 1 1 T.U	1-100.0	2000.0	2100.0	1.0	1000.0	2-100.1	0000.2			

¹⁾ In business entities with more than 20 persons employed.

²⁾ Ratio of unemployed to the economically active population.

³⁾ Since January 2004 new sample of reporting units.

Based on cumulated national currency and converted with the average exchange rate.

⁵⁾ Cumulation starting January and ending December each year.

⁶⁾ From January 2004 EU-25.

⁷⁾ Calculated from USD to NCU to EUR using the official average exchange rate.

⁸⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁹⁾ Deflated with annual PPI.

¹⁰⁾ Pension payments and social security funds are included.

CZECH REPUBLIC: Selected monthly data on the economic situation 2003 to 2004

(updated end of August 2004) 2003 2004 Apr May Jun Jul Aug Sep Oct Nov Jan Feb May Jun PRODUCTION Industry, total real, CMPY 5.6 3.2 62 48 8.0 52 52 4.8 8.9 3.8 7.1 15.3 10 1 127 15 1 Industry, total real, CCPY 6.1 5.5 5.6 5.5 5.8 5.7 5.7 5.6 5.8 3.8 5.5 9.0 9.3 10.0 10.8 Industry, total real, 3MMA 5.3 5.0 4.7 6.3 6.0 6.0 5.1 6.2 5.7 6.6 9.0 11.0 12.7 12.6 Construction, total real, CMPY 12.0 -2.9 3.3 -0.9 12.1 15.9 18.7 14.5 13.9 8.6 15.0 9.7 21.4 62.4 -2.9 LABOUR Employees in industry¹⁾ 1131 1123 1129 1133 1128 1125 1125 1119 1120 1143 1137 1124 1134 1134 1136 th, persons Unemployment, end of period th, persons 5094 496.8 5010 520.4 525 0 529 4 522 4 521 0 542 4 569 5 5708 5598 535 1 520 4 517.5 532 1 Unemployment rate² 0/ 9.6 94 95 99 10.0 10 1 99 99 10.3 10.8 10.9 10.6 10.2 99 99 9.2 Labour productivity, industry¹⁾³⁾ CCPY 9.3 9.6 8.6 8.7 8.4 9.0 9.3 8.6 9.0 4.2 7.1 10.3 10.4 11.8 12.4 Unit labour costs, exch.r. adj.(EUR) 1)3) CCPY -4.8 -4.2 -4.4 -4.8 -5.8 -6.3 -6.3 -5.7 -6.0 -2.0 -3.3 -5.2 -5.4 -6.8 -7.1 WAGES, SALARIES Industry, gross¹⁷ CZK 15856 16414 16580 15570 16010 16668 18803 18067 16443 15665 16890 16913 17595 17583 16755 Industry, gross real, CMPY 6.0 5.1 6.5 5.8 3.9 8.5 5.6 5.3 6.1 3.7 6.7 7.9 4.4 2.4 4.1 Industry, gross¹ USD 544 618 609 591 537 555 609 688 686 634 603 628 624 661 675 Industry, gross1) EUR 501 523 520 482 495 559 502 477 520 534 521 588 512 550 556 PRICES Consume РМ 0.2 0.0 0.0 0.1 -0.2 -0.5 0.1 0.5 0.2 0.2 0.1 0.0 0.4 0.2 0.4 Consumer CMPY -0.1 0.0 0.3 -0.1 -0.1 0.0 0.4 1.0 2.3 2.3 2.5 2.3 2.7 2.9 3.2 1.0 Consumer CCPY -0.2 2.3 2.3 2.3 2.5 -0.3 -0.2 -0.1 -0.1 -0.1 -0.1 0.0 0.1 2.3 2.4 2.6 Producer, in industry PM -0.8 -0.3-0.2 -0.2 0.1 0.4 0.6 0.4 02 0.8 0.3 0.8 0.8 0.8 11 0.8 Producer, in industry CMPY -0.7 -0.8 -0.9 -0.6 -0.5 0.0 -0.1 0.4 0.9 1.6 1.6 2 1 3.7 49 6.3 7.3 Producer, in industry CCPY -0.6 -0.7 -0.7 -0.7 -0.7 -0.6 -0.5 -0.5 -0.3 1.6 1.6 1.8 2.3 2.8 3.4 3.9 RETAIL TRADE Turnover real, CMPY 6.6 2.4 7.2 6.1 9.6 3.6 0.6 2.1 2.9 2.8 0.7 3.7 7.8 6.2 -1.5 real, CCPY 4.1 3.7 4.4 5.0 5.5 5.3 4.9 5.0 -1.5 0.4 1.3 1.7 1.5 FOREIGN TRADE⁴⁾⁵⁾ Exports total (fob),cumulated EUR mn 14223 17818 21353 24812 27850 31684 35843 39594 43066 3289 7098 11404 15862 20573 25250 EUR mn 14597 37135 16219 20960 25612 Imports total (fob).cumulated 18262 21905 25735 28991 32807 41151 45245 3299 6999 11432 Trade balance.cumulated FIIR mn -374 -445 -553 -924 -1141 -1123 -1292 -1557 -2179 -10 99 -28 -357 -388 -362 Exports to EU-15 (fob)⁶⁾, cumulated EUR mn 9785 12301 14753 17137 19199 21842 24763 27397 29762 2872 6186 9931 13749 17892 21905 Imports from EU-15 (fob)⁶⁾, cumulated EUR mn 8591 10814 13025 15401 17271 19548 22125 24454 26805 2233 4881 8055 11389 15461 18916 Trade balance with EU-15⁶⁾, cumulated 2943 EUR mn 1194 1487 1728 1736 1928 2294 2639 2957 639 1305 1875 2360 2431 2988 FOREIGN FINANCE Current account, cumulated 4) EUR mn -575 -1430 -2181 -2925 -3529 -4108 -4937 -174 -510 -1097 -1683 -1139 -2664 -250 -1359 **EXCHANGE RATE** CZK/USD, monthly average 29.2 27.3 27.1 26.9 28.0 29.0 28.8 27.4 26.3 25.9 26.0 26.9 27.1 26.6 26.0 25.7 nominal CZK/FUR monthly average nominal 316 314 314 319 32.3 32 4 32 0 32 0 32.3 32 7 329 33.0 32 5 32 0 316 31.5 CZK/USD, calculated with CPI7) real .lan00=100 829 77 0 76.6 79 7 83.0 83.2 78 7 78 1 74.9 729 73.3 76.3 77 2 75.9 744 73 1 CZK/USD, calculated with PPI real, Jan00=100 78.6 82.2 85.2 84.7 80.4 79.8 77.0 76.3 79.0 80.0 76.8 75.2 84.4 79.1 76.6 79.1 CZK/EUR, calculated with CPI⁷⁾ 88.1 87.4 87.5 88.7 90.2 91.1 90.1 89.7 90.7 90.2 90.6 91.3 90.4 88.9 87.7 87.1 CZK/EUR, calculated with PPI real. Jan00=100 84.1 88.2 87.5 87.6 89.0 90.3 90.1 88.5 88.2 89.8 90.0 90.2 88.7 86.9 85.0 89.0 DOMESTIC FINANCE CZK bn 208.5 211.4 215.2 216.2 218.2 219.4 221.3 224.7 221.4 222.0 223.8 224.1 227.4 M0, end of period 229.0 M1, end of period8 CZK bn 785.8 802.1 821.9 838.9 839.0 864.6 865.5 887.7 902.8 885.0 888.5 893.0 901.5 939.3 945.3 M2, end of period8 C7K hn 1659 0 1660.9 1648 6 1686 0 1707 7 1695.7 1707.3 1726 0 1766 1 1752 2 1758 9 1749 4 1796.5 1809 7 1817 7 M2, end of period83 CMPY 3.0 2.0 4.0 5.5 5.0 5.4 4.2 4.6 6.9 6.5 6.8 7.7 8.3 9.0 10.3 Discount rate (p.a.), end of period 1.50 1.50 1.25 1.25 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.25 1.25 Discount rate (p.a.), end of period9 22 0.1 -0.6 -0.6 real. % 2.3 2.1 1.9 1.5 1.0 1.1 0.6 -1.1 -2.6 -3.7-4.7-5.6 Central gov.budget balance.cum CZK mn -64422 -74586 -53399 -62113 -71886 -80268 -82942 -92209 -109053 7307 -2852 -7819 -38070 -45423 -49702 -48799

¹⁾ Enterprises employing 20 and more persons.

²⁾ Ratio of job applicants to the economically active (including women on maternity leave), from July 2004 calculated with disposable number of registered unemployment.

³⁾ Calculation based on industrial sales index (at constant prices).

⁴⁾ Based on cumulated national currency and converted with the average exchange rate.

⁵⁾ Cumulation starting January and ending December each year.

⁶⁾ From January 2004 EU-25.

⁷⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁸⁾ Recalculated from January 2002 according to ECB monetary standards.

⁹⁾ Deflated with annual PPI.

HUNGARY: Selected monthly data on the economic situation 2003 to 2004

														(up	dated en	d of Augus	st 2004)
		2003									2004					Ü	,
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
			,			·									,		
PRODUCTION																	
Industry, total	real, CMPY	2.9	4.6	5.2	4.9	6.1	9.2	10.9	7.1	12.0	7.3	11.8	12.8	9.4	7.1	14.4	
Industry, total	real, CCPY	3.8	4.0	4.2	4.3	4.5	5.1	5.7	5.9	6.4	7.3	9.6	10.7	10.4	9.7	10.5	
Industry, total	real, 3MMA	4.4	4.2	4.9	5.3	6.8	8.9	9.1	9.9	8.8	10.4	10.7	11.4	9.8	10.4		
Construction, total	real, CMPY	-9.4	6.5	17.1	0.1	3.6	0.1	9.0	4.5	6.0	23.1	20.7	16.1	10.3	-1.1	23.1	
LABOUR																	
Employees in industry ¹⁾	th. persons	803.8	802.0	801.2	802.6	798.6	799.7	799.6	797.9	794.0	789.2	787.4	791.0	788.1	784.7	789.9	
Unemployment ²⁾	th. persons	257.0	250.8	241.2	238.7	238.8	240.3	236.8	232.9	231.9	243.4	247.9	252.2	248.4	241.5	241.6	244.4
Unemployment rate ²⁾	. %	6.2	6.0	5.8	5.7	5.7	5.7	5.6	5.5	5.5	5.8	6.0	6.1	6.0	5.8	5.8	5.9
Labour productivity, industry ¹⁾	CCPY	6.7	6.6	6.8	6.9	7.1	7.5	8.1	8.2	8.8	10.8	13.2	14.1	13.3	13.0	13.2	
Unit labour costs, exch.r. adj.(EUR) ¹⁾	CCPY	2.2	2.1	0.7	-0.2	-1.0	-1.4	-2.1	-2.6	-3.8	-11.4	-10.8	-8.2	-6.5	-6.6	-5.3	
WAGES, SALARIES																	
Total economy, gross ¹⁾	HUF	130052	132798	134971	132829	129620	130968	136647	156077	175751	146088	134199	141897	140853	141793	146554	
Total economy, gross ¹⁾	real, CMPY	9.5	8.5	8.8	8.9	9.2	3.7	2.8	3.7	2.2	1.3	1.6	4.6	1.2	-0.8	0.9	
Total economy, gross ¹⁾	USD	575	626	603	572	557	575	626	704	814	696	645	687	675	673	705	
Total economy, gross ¹⁾	EUR	530	540	517	503	499	513	535	602	664	552	510	560	563	561	579	
Industry, gross ¹⁾	EUR	504	534	484	483	479	494	502	572	558	482	487	559	553	557	558	
* *	LOIN	304	334	404	400	413	434	302	312	550	402	407	555	333	331	330	
PRICES	D14	0.4	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.0	0.5	0.0	0.0	0.4	0.0
Consumer	PM	0.1	0.3	0.2	0.3	-0.3	0.6	0.8	0.6	0.2	2.1	1.2	0.5	0.3	0.9	0.1	0.0
Consumer	CMPY	3.9	3.6	4.3	4.7	4.7	4.7	4.9	5.6	5.7	6.6	7.1	6.7	6.9	7.6	7.5	7.2
Consumer	CCPY	4.4	4.3	4.3	4.4	4.4	4.4	4.5	4.6	4.7	6.6	6.9	6.8	6.8	7.0	7.1	7.1
Producer, in industry	PM	-0.7	-0.6	2.5	0.7	1.0	-0.5	0.2	1.1	-0.1	0.9	-0.2	-0.8	0.6	0.3	0.4	0.1
Producer, in industry	CMPY	0.1	-0.5	2.3	2.7	3.7	3.2	3.5	5.8	6.2	5.4	4.5	3.2	4.4	5.4	3.3	2.7
Producer, in industry	CCPY	0.5	0.3	0.6	0.9	1.3	1.5	1.7	2.1	2.4	5.4	4.9	4.3	4.4	4.6	4.4	4.1
RETAIL TRADE																	
Turnover ³⁾	real, CMPY	14.4	5.2	6.4	10.0	7.1	9.6	8.9	8.6	12.6	6.1	6.2	5.8	8.0	5.8	7.4	
Turnover ³⁾	real, CCPY	10.0	8.9	8.4	8.7	8.5	8.6	8.6	8.6	9.0	6.1	6.2	6.0	6.6	6.4	6.8	
FOREIGN TRADE ⁴⁾⁵⁾																	
Exports total (fob), cumulated	EUR mn	11985	15035	18061	21197	23924	27534	31173	34802	38037	3097	6387	10178	13602	16828	20419	
Imports total (cif), cumulated	EUR mn	13410	16891	20221	23822	26937	30740	34723	38577	42185	3179	6756	10900	15289	18958	22945	
Trade balance, cumulated	EUR mn	-1425	-1856	-2160	-2625	-3013	-3207	-3550	-3774	-4148	-82	-370	-722	-1687	-2131	-2526	
Exports to EU-15 (fob) ⁶⁾ , cumulated	EUR mn	9020	11236	13435	15715	17616	20255	22926	25550	27643	2188	4607	7445	10111	13896		
Imports from EU-15 (cif) ⁶⁾ , cumulated	EUR mn	7531	9557	11447	13515	15134	17168	19322	21360	23151	1599	3521	5709	7970	14453		
Trade balance with EU-15 ⁶⁾ , cumulated	EUR mn	1489	1679	1988	2200	2482	3087	3605	4190	4491	590	1086	1736	2141	-557		
FOREIGN FINANCE																	
Current account, cumulated 7)	EUR mn	-2264	-2707	-3285	-3808	-4350	-4703	-5300	-5704	-6488	-445	-1167	-1756	-2826			
EXCHANGE RATE																	
HUF/USD, monthly average	nominal	226.3	212.2	223.7	232.1	232.8	227.8	218.5	221.7	215.8	209.8	207.9	206.6	208.6	210.7	208.0	203.6
HUF/EUR, monthly average	nominal	245.6	245.9	261.1	264.0	259.6	255.5	255.5	259.4	264.8	264.6	263.0	253.4	250.3	252.9	253.2	249.9
HUF/USD, calculated with CP ^{β)}	real, Jan00=100	78.3	73.1	77.0	79.8	80.6	78.6	74.7	75.1	72.9	69.8	68.8	68.4	69.1	69.5	68.8	67.4
HUF/USD, calculated with PPI ⁶⁾	real, Jan00=100	86.6	81.6	84.8	87.1	86.8	85.6	82.5	82.5	80.7	78.8	78.7	79.2	80.5	82.3	81.1	79.3
HUF/EUR, calculated with CP ^{β)}	real, Jan00=100	83.3	83.2	88.2	88.9	87.8	86.2	85.6	86.5	88.4	86.4	85.1	82.0	81.1	81.5	81.5	80.4
HUF/EUR, calculated with PPf ⁸⁾	real, Jan00=100	90.6	90.9	94.1	94.5	92.2	91.2	91.0	91.5	93.5	92.8	92.6	90.5	89.3	90.4	90.2	88.9
DOMESTIC FINANCE	, , , , , , , , , , , , , , , , , , , ,																
M0, end of period ⁹⁾	HHF hn	1237.7	1249 2	1287 N	1296.6	1319.9	1305.9	1317.3	1399.7	1346.8	1307.1	1278.1	1255.8	1278.6	1329.1	1329.1	1322.6
M1, end of period ⁹⁾	HUF bn	3518.7	3594.4	3709.9		3718.9	3746.4	3775.6	3950.0	4027.7	3799.5	3688.6	3699.5		3805.8	3874.4	3876.0
Broad money, end of period 9)	HUF bn	7894.4	7975.0		8147.0	8176.0	8287.0	8441.7		8790.8	8798.5		8720.5		8870.4		9031.9
Broad money, end of period 9)	CMPY	13.8	14.6	16.8	16.3	13.5	16.0	15.1	14.2	11.9	13.0	11.9	12.0	11.8	11.2	10.5	10.9
NBH base rate (p.a.), end of period	%	6.5	6.5	9.5	9.5	9.5	9.5	9.5	12.5	12.5	12.5	12.5	12.3	12.0	11.5	11.5	11.5
NBH base rate (p.a.), end of period 10)	real, %	6.4	7.0	7.0	6.6	5.6	6.1	5.8	6.3	5.9	6.7	7.7	8.8	7.3	5.8	7.9	8.6
u /· ·	1001, 70	0.1	1.0	1.5	0.0	0.0	V.1	0.0	0.0	0.0	0.7		0.0	7.0	0.0	1.5	0.0
BUDGET Central gov.budget balance, cum.	1005 5-	77E C	252.0	AEO C	404.0	101 4	E00 7	600.2	704.0	722 0	172.0	246.7	265.0	100.0	E00 0	055.0	062 4
Gential gov.budget balance, cum.	nur bn	-275.6	-252.9	-458.6	-424.8	-401.4	-588.7	-009.3	-101.3	-133.0	-173.9	-240./	-365.0	-426.9	-508.8	-855.8	-863.1

¹⁾ Economic organizations employing more than 5 persons.

 $^{2) \} According \ to \ ILO \ methodology, from \ 2002 \ 3-month \ averages \ comprising \ also \ the \ two \ previous \ months.$

³⁾ Revised according to NACE 50+52, from January 2003 NACE 52.

⁴⁾ Based on cumulated national currency and converted with the average exchange rate.

⁵⁾ Cumulation starting January and ending December each year.

⁶⁾ From May 2004 EU-25. Due to methodological changes data from May 2004 on are not comparable with earlier monthly trade data.

⁷⁾ Based on national currency and converted with the exchange rate.

⁸⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

According to ECB monetary standards.

¹⁰⁾ Deflated with annual PPI.

POLAND: Selected monthly data on the economic situation 2003 to 2004

(updated end of August 2004) 2003 2004 Oct Feb Apr May Jun Jul Aug Sep Nov Dec Jan Mai Apr May Jun Jul PRODUCTION Industry¹ real, CMPY 8.6 11.7 7.8 10.3 10.9 12.1 9.2 14.0 14.4 18.2 23.6 21.8 12.2 15.8 6.0 5.8 Industry real, CCPY 5.5 6.7 6.9 7.4 7.7 8.2 8.3 8.8 14.4 16.3 18.9 19.7 18.1 17.7 7.2 15.9 Industrv1 real 3MMA 8.5 93 99 8.0 91 98 10.8 11.8 12.5 15.5 189 21.3 192 16.6 11.3 Construction¹ real, CMPY -14.2 -13.6 -6.9 -3.0 -3.8 -4.9 -5.0 -0.7 -16.7 -6.3 6.2 25.8 -13.4 -14.4 LABOUR Employees1) 4726 4723 4722 4722 4718 4711 4715 4701 4671 4669 4672 4667 4675 4681 4688 4688 th. persons Employees in industry¹ 2408 2405 2407 2406 2405 2415 2410 2396 2399 2398 2397 2396 2399 2405 2391 th. persons Unemployment, end of period th. persons 3246 1 31596 31346 3123 0 3099 1 3073.3 3058 2 3096.9 3175 7 3293 2 3294 5 3265.8 31738 30925 30712 30424 Unemployment rate2) 20.3 19.8 19.7 19.6 19.5 19.4 19.3 19.5 20.0 20.6 20.6 20.5 20.0 19.6 19.5 19.3 Labour productivity, industry1) CCPY 8.6 9.9 10.0 10.4 10.1 10.5 11.0 11.0 11.5 15.4 17.3 19.8 20.5 18.8 18.4 CCPY -22.4 -19.1 -20.1 -19.9 -19.4 -18.4 -18.3 -18.7 -19.0 -22.5 -22.1 -22.1 -20.9 -19.5 Unit labour costs, exch.r. adj.(EUR)1 -18.5 WAGES, SALARIES Total economy, gross¹⁾ PLN 2428 2321 2254 2301 2343 2295 2353 2331 2440 2662 2326 2377 2427 2427 2354 2405 Total economy, gross¹⁾ real, CMPY 3.6 -0.8 2.0 1.3 1.0 1.2 1.8 2.5 3.4 2.0 4.8 5.5 2.5 1.2 0.4 -0.8 Total economy, gross¹⁾ USD 586 601 606 600 586 591 594 618 703 623 618 624 613 598 635 667 Total economy, gross1) EUR 540 521 519 527 508 572 494 509 498 527 526 527 490 510 524 543 498 Industry, gross¹ FUR 542 520 523 531 528 520 511 537 595 499 514 517 493 531 PRICES Consumer PM 0.2 0.0 -0 1 -0 4 -04 0.5 0.6 0.3 0.2 0.4 0.1 0.3 0.8 1.0 0.9 -0.1 CMPY 0.9 2.2 4.6 Consumer 0.3 0.4 0.8 0.8 0.7 1.3 1.6 1.7 1.6 1.6 1.7 3.4 4.4 CCPY 0.3 0.3 0.3 0.4 0.4 0.5 0.5 0.6 0.7 1.7 1.7 1.7 1.9 2.2 2.5 2.8 Producer, in industry PM -0.6 -0.6 0.3 0.7 0.3 0.5 0.7 0.4 0.1 0.8 0.7 1.5 2.1 1.3 -0.2 0.2 Producer, in industry CMPY 2.7 2.0 2.0 1.9 1.8 2.1 2.7 3.7 3.7 4.1 4.2 4.9 7.6 9.6 9.1 8.6 Producer, in industry CCPY 3.0 2.8 2.7 2.6 2.5 2.4 2.5 2.6 2.7 4.2 4.2 44 5.3 6.2 6.7 7.0 RETAIL TRADE Turnover^{1]} real, CMPY 11.4 9.9 5.5 9.4 9.2 10.0 6.3 10.6 18.8 27.7 0.9 4.2 7.7 5.1 17.1 Turnover¹ real, CCPY 6.2 12.4 4.5 6.2 6.0 6.1 5.5 6.6 6.8 7.9 6.3 8.5 13.6 18.4 14.0 FOREIGN TRADE³⁾⁴ Exports total (fob), cumulated FUR mn 14808 18636 22392 26419 29998 34545 39271 43519 47525 3833 8011 13094 17893 22781 27944 Imports total (cif), cumulated EUR mn 18969 23864 28469 33855 38427 44018 49740 54979 60305 4680 9360 15697 22540 28381 33949 Trade balance, cumulated EUR mn -4160 -5228 -6077 -7436 -8430 -9473 -10469 -11461 -12780 -847 -1349 -2603 -4648 -5600 -6005 Exports to EU-15 (fob)⁵⁾, cumulated EUR mn 10443 18400 20745 23711 26990 29961 3183 6688 14822 18840 22938 13057 15644 32681 10928 Imports from EU-15 (fob)5), cumulated EUR mn 11556 14618 17493 20926 23644 26904 30433 33625 36873 3203 6424 10929 15652 19780 23762 Trade balance with EU-155, cumulated EUR mn -1113 -1561 -1849 -2525 -2899 -3194 -3442 -3664 -4192 -21 263 -830 -940 -825 -1 FOREIGN FINANCE EUR mn Current account, cumulated -2000 -2470 -2567 -2942 -2997 -3054 -2740 -3096 -3662 -167 -248 -692 -1440 -2008 -1925 **EXCHANGE RATE** PLN/USD, monthly average 3.961 3.748 3.797 3.906 3.918 3.981 3.922 3.949 3.788 3.735 3.846 3.890 3.959 3.936 3.787 3.643 nominal 4.299 4.326 4.443 4.467 4.589 4.625 4.655 4.712 4.854 4.768 4.758 4.593 4.469 PLN/EUR, monthly average nominal 4.436 4.367 4.729 PLN/USD, calculated with CPI⁶ real .lan00=100 93.6 88.5 89.8 929 93 9 95.2 93 1 93.2 89 2 88.0 911 924 93.6 926 88.7 85.4 PLN/USD, calculated with PPI⁶⁾ real, Jan00=100 90.1 93.7 93.9 95.4 93.8 93.8 90.3 89.4 92.1 93.0 92.6 89.5 86.0 94.8 91.9 92.0 real, Jan00=100 PLN/EUR, calculated with CPI⁶⁾ 100.3 103.6 102.4 104.5 106.9 107.5 109.1 112.6 110.8 110.1 108.8 104.7 102.0 99.7 103.0 108.3 PLN/EUR, calculated with PPI real, Jan00=100 100.1 105.5 99.3 102.3 101.7 99.9 101.6 103.7 104.2 104.8 108.2 105.3 103.4 102.0 99.3 96.4 DOMESTIC FINANCE M0 end of period PI N hn 45.9 46 1 47 4 47 6 48 7 48 6 49 2 498 49 4 48.5 496 499 51.5 50.2 50.5 51.0 M1, end of period⁷ PLN bn 130.7 138.0 146.4 146.9 148.4 151.3 156.2 158.1 152.5 156.1 161.2 160.2 164.9 168.8 163.5 151.8 M2, end of period7 PLN bn 317.2 320.2 322.9 323.0 324.8 326.9 332.4 334.3 337.8 331.7 335.0 336.9 345.6 341.5 345.1 344.1 CMPY M2, end of period -0.1 -0.6 0.3 -0.43.5 5.2 5.2 6.6 6.9 6.5 0.6 1.9 5.3 5.5 6.0 8.9 Discount rate (p.a.),end of period 6.3 6.0 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 6.5 Discount rate (p.a.),end of period⁸⁾ 3.5 3.7 3.9 3.6 3.0 2.0 2.0 1.6 -3.5 3.9 3.8 1.5 0.8 -1.7 -3.1 -1.9 BUDGET Central gov.budget balance, cum PLN mn -17954 -23218 -23818 -27637 -29562 -33086 -34828 -35482 -36989 -9346 -11804 -10781 -15186 -19730 -23216

¹⁾ Enterprises employing more than 9 persons.

²⁾ Ratio of unemployed to the economically active.

³⁾ Based on cumulated national currency and converted with the average exchange rate.

⁴⁾ Cumulation starting January and ending December each year.

⁵⁾ From January 2004 EU-25.

⁶⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁷⁾ Revised according to ECB monetary standards.

⁸⁾ Deflated with annual PPI.

ROMANIA: Selected monthly data on the economic situation 2003 to 2004

(updated end of August 2004) 2003 2004 Apr Mav Jun Jul Aug Sep Oct Nov Dec Jan Feb Mai ndA May Jun Jul PRODUCTION real, CMPY Industry, total13 2.1 7.1 7.7 6.4 -0.7 1.9 1.5 -1.4 2.6 0.8 6.9 9.5 5.2 2.2 0.5 Industry, total13 real, CCPY 3.1 4.0 4.6 4.9 4.2 3.9 3.6 3.1 0.8 5.9 4.5 4.6 3.1 3.9 4.2 Industry, total real 3MMA 43 56 7.0 45 26 0.9 0.7 0.8 0.5 34 59 56 5 1 26 I AROUR 4374.0 4333.8 Employees total th. persons 4393.6 4411.4 4420.5 4412.1 4416.8 4402.8 4390.0 4359.3 4375.8 4404.7 4405.8 4423.1 4453.6 Employees in industry 1790.7 1786.0 1784.6 1776.1 1775.6 1771.1 1765.9 1758.3 1738.3 1754.8 1752.6 1754.4 1738.5 1736.6 1755.6 th. persons Unemployment, end of period 693.4 702.4 693.1 663.6 650.4 619.2 608.8 634.7 655.4 658.9 697.4 661.9 617.8 590.3 th. persons 731.4 Unemployment rate2 8 1 76 7.3 72 68 6.7 7.0 72 7.2 76 77 7 7 7.3 6.8 6.5 Labour productivity, industry CCPY 10.4 11.3 12.1 12.5 11.9 11.8 11.6 11.2 11.2 8.7 11.6 13.3 11.7 11.9 11.3 Unit labour costs, exch.r. adj.(EUR) CCPY -12.8 -13.3 -13.7 -13.2 -12.3 -11.5 -11.1 -10.6 -10.6 -4.8 -5.1 -3.9 -2.6 -1.7 -0.2 WAGES, SALARIES th. ROL Total economy, gross 6885.5 6521.4 6476.2 6721.9 6647.9 6763.9 6873.7 7021.2 8068.9 8006.3 7484.0 8065.8 8292.8 8008.2 8035.9 real, CMPY Total economy, gross 6.3 7.0 6.6 6.5 6.5 8.0 6.6 7.5 8.4 7.8 8.7 12.5 7.0 9.3 10.8 Total economy, gross USD 204 201 199 206 199 200 207 206 244 246 233 247 244 237 239 Total economy, gross EUR 188 173 170 181 179 178 177 176 199 195 184 201 204 197 197 Industry, gross EUR 192 182 168 165 180 177 178 172 167 184 171 177 195 199 193 **PRICES** Consumer PM 11 0.5 0.9 12 0.3 21 15 14 12 11 0.6 0.5 0.6 0.3 0.6 13 Consumer CMPY 16.0 144 14 0 14.8 14 2 15.9 15.8 14.5 14.1 13.9 13.7 13.1 12.5 12.3 12 0 12 1 CCPY 16.1 15.4 15.5 15.3 13.9 Consumer 16.5 15.7 15.6 15.4 15.4 13.8 13.6 13.3 13.1 12.9 12.8 Producer, in industry PM 0.6 0.1 1.0 1.0 3.1 1.6 1.7 2.4 0.9 0.9 2.8 1.5 1.1 1.3 1.1 CMPY Producer, in industry 21.4 19.8 18.4 16.9 16.6 18.5 18.7 19.6 19.4 19.3 17.6 17.0 18.5 19.3 20.4 Producer, in industry CCPY 21.8 21.4 20.9 20.3 19.8 19.6 19.5 19.5 19.5 19.3 18.4 17.9 18.1 18.3 18.7 RETAIL TRADE Turnover real, CMPY -0.4 6.6 7.2 3.8 4.4 6.3 7.3 6.7 11.9 21.5 13.0 15.0 11.8 11.0 4.3 Turnover real, CCPY 2.7 3.5 4.1 4.0 4.1 4.6 4.8 21.5 17.3 16.4 15.1 14.1 5.7 FOREIGN TRADE3)4) EUR mn 4970 6232 7501 8995 10227 11574 13003 14374 1217 2711 4332 5816 7379 9014 Exports total (fob), cumulated 15614 Imports total (cif), cumulated FUR mn 6257 8065 9814 11736 13266 15129 17309 19288 21201 1565 3376 5474 7465 9707 11974 Trade balance, cumulated EUR mn -1287 -1833 -2313 -2741 -3039 -3555 -4306 -4914 -5588 -348 -665 -1142 -1649 -2328 -2960 Exports to EU-15 (fob)5, cumulated EUR mn 3382 4251 5119 6132 6951 7873 8848 9788 1057 944 2059 3212 4275 5412 6644 Imports from EU-15 (cif)⁵⁾, cumulated EUR mn 10014 4777 7794 3494 4626 5707 6900 7735 8795 11149 12223 940 2033 3360 6264 Trade balance with EU-155, cumulated EUR mn -112 -375 -588 -768 -784 -922 -1166 -1361 -1652 27 -148 -502 -852 -1150 FOREIGN FINANCE Current account, cumulated EUR mn -555 -971 -1290 -1386 -1395 -1647 -2108 -2499 -2920 -108 -131 -269 -650 -1130 -1617 **EXCHANGE RATE** 33570 ROL/USD, monthly average 33703 32502 32616 32677 33359 33799 33157 34109 33013 32572 32073 32646 33923 33758 33395 nominal ROL/EUR, monthly average 36560 37617 38063 37166 37183 37924 38807 39913 40577 41094 40572 40055 40695 40559 40754 40967 nominal real. Jan00=100 87.1 84.6 ROL/USD, calculated with CPI⁶⁾ 92.7 88.8 88.4 87.6 89.6 89.1 86.1 83.2 81.6 80.3 81.8 84.9 84.0 82.5 ROL/USD, calculated with PPI⁶ real, Jan00=100 80.0 76.6 77.6 76.8 77 8 76.8 74 6 75.2 72.3 70.6 693 70.2 71.8 71.6 70.7 ROL/EUR, calculated with CPI⁶⁾ real, Jan00=100 100.9 101.1 97.6 97.5 97.7 98.6 100.1 100.9 101.0 99.4 98.1 99.5 99.3 98.5 99.1 98.4 real, Jan00=100 ROL/EUR, calculated with PPI⁶ 83.2 82.6 82.3 83.3 79.7 85.3 86.1 81.7 83.8 83.1 81.5 80.2 78.8 78.3 DOMESTIC FINANCE M0, end of period 54460 ROL bn 51575 50214 52535 58503 58143 58009 57262 57978 55969 58313 57773 63788 65158 68904 M1 end of period ROI hn 87820 85019 92145 93725 99970 101514 100231 99413 113260 102240 104107 107175 113651 118864 125928 M2, end of period ROL bn 378595 379098 388499 390876 407396 414468 423766 425654 460741 452217 458468 481461 480254 490510 506603 CMPY 32.3 30.4 29.1 28.8 29.4 30.6 30.4 27.2 23.3 27.1 24.8 30.3 26.9 29.4 30.4 Discount rate (p.a.),end of period7 17.4 17.9 18.2 19.3 20.2 21.3 21.3 21.3 21.3 21.3 21.3 20.8 18.2 18.2 19.1 20.4 Discount rate (p.a.),end of period 7)8) real % -3.3 -16 -0.2 0.5 0.5 0.8 1.6 3.1 3.6 2.3 1.6 0.7 BUDGET Central gov.budget balance, cum ROL bn -7382 -10330 -16524 -12186 -10979 -11346 -11129 -17655 -29003 3835 -2634 -5930 -6529 -14333

¹⁾ Enterprises with more than 50 (in food industry 20) employees.

²⁾ Ratio of unemployed to economically active population as of December of previous year, from 2002 as of December 2001.

³⁾ January 1994 to December 2002 calculated from USD by wiiw.

Cumulation starting January and ending December each year.

⁵⁾ From January 2004 EU-25.

⁶⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁷⁾ Reference rate of RNB.

⁸⁾ Deflated with annual PPI

R U S S I A: Selected monthly data on the economic situation 2003 to 2004

(updated end of August 2004) 2003 2004 Apr Mav Jun Jul Aug Sep Oct Nov Dec Jan Feb Mai ngA May Jun Jul PRODUCTION Industry, total real, CMPY 7.1 8.5 7.0 7.1 8.0 7.2 7.9 7.5 8.7 6.6 5.5 9.2 5.5 7.1 6.7 real, CCPY 6.3 6.8 6.8 6.6 6.8 6.8 6.8 7.0 7.5 8.1 7.6 7.4 7.0 7.4 7.0 Industry, total 7.1 Construction, total real CMPY 147 15.5 14.3 15.0 14.3 14 7 14 6 11.6 16.6 13.3 13.8 142 15.8 14 9 13.3 7.5 I AROUR Employment total1) th. persons 65000 65500 66000 66400 66700 66600 66500 66500 66400 65400 64900 65400 65800 66300 66600 Unemployment, end of period²⁷ 6072 5821 5744 5747 5680 5690 5750 5716 5951 6280 6562 6121 5680 5239 5169 5170 th. persons Unemployment rate²⁾ 8.2 8.8 8.5 8.0 8.0 7.8 7.9 8.0 7.9 8.2 9.2 8.5 7.9 7.3 7.2 7.1 WAGES, SALARIES Total economy, gross RUB 5100 0 5221 0 5550 0 5615.0 54910 5556 0 5864 0 5990 0 7344 0 5932 0 6141 0 6428 0 6448 0 7003 0 7143 0 Total economy, gross real, CMPY 8.3 98 93 7.2 7.4 86 116 13.5 14.3 13.5 18.0 16.8 14 6 217 16.8 USD 250 Total economy, gross 163 169 182 185 181 182 194 211 206 215 225 225 242 246 Total economy, gross EUR 146 156 162 162 162 166 203 163 184 187 201 202 151 180 170 Industry, gross EUR 184 175 183 198 206 200 198 219 230 190 200 215 222 220 229 PRICES Consumer PM 1.0 0.8 0.8 0.7 -0.4 0.3 1.0 1.0 1.1 1.8 1.0 0.8 1.0 0.7 0.8 0.9 Consumer CMPY 14.6 13.6 13.9 13.9 13.3 13.2 13.1 12.4 12.0 11.3 10.7 10.3 10.3 10.2 10.2 10.5 Consumer CCPY 14.6 14.4 14.3 14.3 14.1 14.0 13.9 13.8 13.6 11.3 11.0 10.8 10.7 10.6 10.5 10.5 Producer, in industry PM 14 -02 0.7 22 14 14 12 0.5 0.6 42 34 17 27 2 1 2.5 12 Producer, in industry CMPY 20.2 17.1 14.3 13.9 13.5 13.8 12.8 12.1 13.0 17.3 19.6 20.1 21.6 24 4 26.6 25.4 Producer, in industry CCPY 18.4 19.7 20.6 22.2 19.6 19.1 18.2 17.6 17.0 16.6 16.2 15.8 15.6 17.3 19.0 21.6 RETAIL TRADE Turnover real, CMPY 8.6 10.0 8.7 7.8 6.1 7.0 7.1 7.1 8.1 16.3 4.4 7.5 14.4 12.2 14.5 Turnover³⁾ real, CCPY 8.3 8.7 8.7 8.5 8.2 8.1 8.0 7.9 7.9 16.3 10.4 9.4 10.7 11.0 11.6 FOREIGN TRADE⁴⁾⁵⁾⁶⁾ Exports total, cumulated FUR mn 38327 47318 56861 66902 77668 87970 98836 108697 120193 9336 18795 29815 41596 52713 64057 Imports total, cumulated EUR mn 20439 25524 30712 36589 42258 47991 54028 59782 66703 4170 9200 15347 21793 27975 34475 Trade balance, cumulated EUR mn 35410 39979 53490 5167 9595 14467 24739 FOREIGN FINANCE Current account, cumulated7) EUR mn 17863 24410 31719 10392 **EXCHANGE RATE** RUB/USD, monthly average nominal 31.212 30.907 30.469 30.360 30.349 30.599 30.165 28.389 28.839 28.686 28.989 29.030 29.082 29.434 28.515 28.529 RUB/EUR, monthly average nominal 33.867 35.738 35 594 34.560 33.876 34.300 35.296 33.261 36.134 36.377 36.092 35.018 34.446 34.817 35 298 35.673 RUB/USD, calculated with CPI⁸⁾ real, Jan00=100 70.6 69.3 67.8 67.2 67.7 68.3 66.6 61.8 63.4 61.3 60.3 60.3 60.2 60.7 60.6 60.2 RUB/USD, calculated with PPI⁸⁾ real, Jan00=100 58.9 55.2 68.5 67.9 67.1 65.2 64.5 64.4 63.1 61.0 58.1 55.9 54.7 55.0 53.9 53.3 RUB/EUR, calculated with CPI⁸ real .lan00=100 75.0 78.5 77 6 74 8 73.8 747 76.2 71 2 76.7 75.8 747 722 70.6 71 2 716 71 7 RUB/EUR, calculated with PPI⁸⁾ real. Jan00=100 71.6 75.4 74.5 70.8 68.5 68 4 696 65.3 70.5 68 4 65.7 63.1 60.7 60.4 598 59 7 DOMESTIC FINANCE M0, end of period RUB bn 822.3 855.5 917.0 940.9 966.3 957.1 975.8 1002.1 1147.0 1130.6 1164.1 1165.5 1230.1 1220.5 1276.1 M1, end of period RUB bn 1679.8 1821.8 1808.5 1844.3 1871.2 1850.2 1899.0 2181.9 2126.9 2197.1 2244.6 2255.8 2286.3 2425.3 M2, end of period RUB bn 3052.4 3162.9 3400.4 3448.9 3573.0 3543.1 3617.7 3946.1 4093.0 4190.3 4333.7 4365.7 4543.2 3339.7 3962.1 M2, end of period CMPY 37 9 38.2 417 415 41 1 43 2 39.6 39 0 39 4 42 1 40 4 40 2 42 N 38.0 36.0 Refinancing rate (p.a.),end of period % 18.0 18.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 14.0 14.0 14.0 14.0 14.0 13.0 13.0 Refinancing rate (p.a.),end of period 9 2.0 -2.8 -4.7 -5.0 -6.2 -8.4 -10.8 -9.9 real, % -1.9 0.8 1.5 1.9 2.2 2.9 3.5 2.7 BUDGET RUB bn 127.3 173.8 184.3 213.6 223.8 238.9 287.7 316.1 228.2 102.5 115.5 134.7 169.8 255.4 Central gov.budget balance, cum

¹⁾ Based on labour force survey.

²⁾ According to ILO methodology.

³⁾ Including estimated turnover of non-registered firms, including catering.

⁴⁾ Based on cumulated USD and converted using the ECB EUR/USD average foreign exchange reference rate

⁵⁾ Cumulation starting January and ending December each year, incl. estimates of non-registered imports.

⁶⁾ Based on balance of payments statistics

⁷⁾ Calculated from USD to NCU to EUR using the official average exchange rate.

⁸⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁹⁾ Deflated with annual PPI

S L O V A K REPUBLIC: Selected monthly data on the economic situation 2003 to 2004

		2003									2004			(up	dated en	d of Augu	ıst 2004)
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
PRODUCTION																	
Industry, total	real, CMPY	2.2	2.4	9.5	2.2	1.2	3.3	5.1	3.2	4.3	0.4	8.1	11.1	5.0	8.5	5.5	
Industry, total	real, CCPY	8.4	7.2	7.6	6.8	6.1	5.8	5.7	5.4	5.3	0.4	4.2	6.6	6.2	6.7	6.5	
Industry, total	real, 3MMA	5.0	4.7	4.7	4.4	2.3	3.3	3.9	4.2	2.7	4.2	6.6	8.1	8.3	6.3	0.0	
Construction, total	real, CMPY	-0.4	0.3	3.3	5.8	9.4	14.3	8.3	6.7	11.5	0.5	3.3	3.4	2.0	0.1	2.4	
LABOUR																	
Employment in industry	th. persons	558.2	561.1	563.8	562.4	561.7	565.1	566.2	561.2	549.1	544.3	544.8	548.2	551.2	551.0	553.4	
Unemployment, end of period	th. persons	450.7	433.1	427.6	422.8	415.6	407.6	407.1	420.2	452.2	469.2	466.4	452.6	431.7	410.8	399.5	392.1
Unemployment rate ¹⁾	% porcone	15.4	14.8	14.6	14.5	14.3	13.9	13.8	14.2	15.6	16.6	16.5	16.0	15.3	14.5	13.9	13.7
Labour productivity, industry	CCPY	7.5	6.5	7.0	6.1	5.5	5.1	5.0	4.8	4.8	1.0	5.1	7.5	7.3	7.9	7.8	
Unit labour costs, exch.r. adj.(EUR)	CCPY	-0.3	1.6	2.5	3.7	4.3	5.0	5.3	5.5	5.4	10.9	7.5	6.1	5.2	3.2	3.2	
WAGES, SALARIES																	
Industry, gross	SKK	14827	15379	16140	15289	14688	15085	16069	17995	17259	15707	14806	16050	15775	15976	17212	
Industry, gross	real, CMPY	0.6	-0.2	1.6	-3.4	-4.3	-0.4	1.2	-1.0	-1.9	1.2	1.4	4.3	-1.1	-4.1	-1.4	
Industry, gross	USD	391	432	455	416	392	406	456	511	514	486	461	487	472	477	523	
Industry, gross	EUR	361	374	389	366	350	363	389	437	420	385	365	397	393	397	431	
PRICES																	
Consumer	PM	0.2	0.1	0.4	0.0	1.0	0.5	0.1	0.2	0.2	4.4	0.8	0.1	0.0	0.4	0.2	0.3
Consumer	CMPY	7.7	7.6	8.4	8.7	9.2	9.5	9.6	9.8	9.3	8.3	8.5	8.2	8.0	8.3	8.1	8.5
Consumer	CCPY	7.7	7.6	7.8	7.9	8.1	8.2	8.4	8.5	8.6	8.3	8.4	8.3	8.2	8.3	8.2	8.3
Producer, in industry	PM	-0.1	-0.6	0.0	0.2	-0.2	0.1	-0.1	0.3	0.0	1.3	1.0	0.2	-0.1	0.2	0.2	0.1
Producer, in industry	CMPY	8.2	7.8	8.2	8.2	8.0	8.0	8.0	8.7	8.6	4.4	2.3	2.1	2.2	3.0	3.2	3.1
Producer, in industry	CCPY	8.5	8.3	8.3	8.3	8.3	8.2	8.2	8.3	8.3	4.4	3.3	2.9	2.7	2.8	2.8	2.9
RETAIL TRADE ²⁾																	
Turnover	real, CMPY	-1.9	-6.3	-9.3	-7.6	-5.7	-5.8	-5.0	-3.3	-0.7	0.5	4.0	7.1	7.4	7.8	10.5	
Turnover	real, CCPY	-5.2	-5.4	-6.1	-6.3	-6.2	-6.2	-6.1	-5.8	-5.2	0.5	2.3	3.9	4.8	5.4	6.2	
FOREIGN TRADE ³⁾⁴⁾																	
Exports total (fob) ⁵⁾ ,cumulated	EUR mn	5714	7382	9042	10706	12261	13985	15821	17641	19361	1500	3144	5005	7020	8951	10826	
Imports total (fob) ⁵⁾ ,cumulated	EUR mn	5997	7611	9278	11053	12594	14340	16234	18084	19926	1476	3104	5022	7071	9004	11041	
Trade balance ⁵⁾ ,cumulated	EUR mn	-282	-229	-236	-348	-333	-355	-413	-443	-565	25	40	-17	-52	-53	-215	
Exports to EU-15 (fob) ⁶⁾ , cumulated	EUR mn	3619	4616	5603	6573	7476	8473	9614	10733	11742	1262	2651	4192	5908	7541		
Imports from EU-15 (fob) ⁶⁾ , cumulated	EUR mn	2982	3839	4711	5661	6461	7357	8336	9286	10236	1055	2258	3695	5225	6640		
Trade balance with EU-15 ⁶ , cumulated	EUR mn	638	776	892	912	1015	1117	1278	1447	1505	207	394	497	683	900		
FOREIGN FINANCE																	
Current account, cumulated3)	EUR mn	-195	-133	-182	-205	-154	-176	-176	-172	-246	55	103	131	98	-153	-399	
EXCHANGE RATE																	
SKK/USD, monthly average	nominal	37.9	35.6	35.5	36.7	37.5	37.1	35.3	35.2	33.6	32.3	32.1	32.9	33.4	33.5	32.9	32.5
SKK/EUR, monthly average	nominal	41.1	41.1	41.5	41.8	41.9	41.5	41.3	41.1	41.1	40.7	40.6	40.4	40.1	40.2	39.9	39.9
SKK/USD, calculated with CPI ⁷⁾	real, Jan00=100	80.1	75.1	74.7	77.4	78.5	77.6	73.6	73.1	69.5	64.3	63.8	65.8	67.1	67.3	66.2	65.2
SKK/USD, calculated with PPI ⁷⁾	real, Jan00=100	78.2	73.7	74.3	76.5	78.5	77.9	74.5	74.0	70.9	68.1	67.4	69.3	71.4	72.4	71.2	70.3
SKK/EUR, calculated with CPI ⁷⁾	real, Jan00=100	85.1	85.1	85.6	86.2	85.8	84.8	84.3	83.9	84.0	79.7	78.9	78.9	78.7	78.8	78.1	77.8
SKK/EUR, calculated with PPI ⁷⁾	real, Jan00=100	81.7	81.9	82.6	83.0	83.6	82.7	82.3	81.8	81.8	80.2	79.3	79.3	79.2	79.6	78.9	78.8
DOMESTIC FINANCE																	
M0, end of period	SKK bn	86.3	87.0	86.6	87.7	90.8	89.1	90.2	91.7	91.8	91.7	91.7	90.8	90.9	91.9		
M1, end of period	SKK bn	242.4	244.8	248.7	251.9	256.2	256.9	258.7	264.4	276.9	261.2	265.5	258.9	260.8	268.0	279.2	
M2, end of period	SKK bn	711.7	718.7	702.0	722.3	729.6	725.7	732.2	740.5	750.7	739.0	744.1	724.0	731.9	723.2	744.7	
M2, end of period	CMPY	7.4	7.5	3.4	4.3	4.8	5.2	5.4	5.4	5.2	5.2	4.3	1.9	2.8	0.6	6.1	
Discount rate (p.a.),end of period ⁸⁾	%	6.50	6.50	6.50	6.50	6.50	6.25	6.25	6.25	6.00	6.00	6.00	5.50	5.00	5.00	5.00	4.50
Discount rate (p.a.),end of period 8)9)	real, %	-1.6	-1.2	-1.6	-1.6	-1.4	-1.6	-1.6	-2.3	-2.4	1.6	3.7	3.3	2.8	2.0	1.8	1.4
BUDGET																	
Central gov.budget balance, cum.	SKK mn	-23786	-30580	-27619	-31190	-33104	-37675	-40396	-42779	-55973	-2658	-4424	1175	5723	-2270	-12455	-18551

¹⁾ Ratio of disposable number of registered unemployment calculated to the economically active population as of previous year.

²⁾ According to NACE (52 - retail trade), excluding VAT.

³⁾ Based on cumulated national currency and converted with the average exchange rate.

⁴⁾ Cumulation starting January and ending December each year.

⁵⁾ From January 2004 new methodologie effective from the 1st May 2004.

⁶⁾ From January 2004 EU-25.

⁷⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁸⁾ From January 2002 corresponding to the 2-week limit rate of NBS.

⁹⁾ Deflated with annual PPI.

S L O V E N I A: Selected monthly data on the economic situation 2003 to 2004

		2003									2004			(up	dated end	d of Augu	st 2004)
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
PRODUCTION																	
Industry, total	real, CMPY	-2.4	-0.8	2.5	-0.8	-2.6	3.4	3.8	4.9	6.1	3.3	0.9	7.8	-0.9	12.0	11.0	
Industry, total	real, CCPY	-0.1	-0.2	0.2	0.1	-0.2	0.2	0.6	1.0	1.4	3.3	2.1	4.2	2.9	4.7	5.8	
Industry, total	real, 3MMA	-0.6	-0.3	0.2	-0.2	0.2	1.9	4.0	4.9	4.8	3.4	4.1	2.7	6.3	7.4		
Construction, total ¹⁾	real, CMPY	-1.4	-1.1	4.1	3.6	0.9	1.7	-3.8	-6.2	2.7	10.6	14.6	3.1	-0.4	-10.2	-5.8	
LABOUR																	
Employment total	th. persons	778.3	779.3	780.4	774.8	774.0	776.5	778.5	779.1	774.7	773.8	775.6	777.7	779.8	781.4	783.7	
Employees in industry	th. persons	242.7	242.4	242.5	241.4	241.0	241.3	242.0	242.3	240.4	239.4	239.5	240.1	240.0			
Unemployment, end of period	th. persons	97.1	95.3	94.4	96.9	98.2	98.2	98.9	96.2	96.0	99.0	98.1	96.7	93.9	91.5	89.2	
Unemployment rate ²⁾	%	11.1	10.9	10.8	11.1	11.3	11.2	11.3	11.0	11.0	11.3	11.2	11.1	10.7	10.5	10.2	
Labour productivity, industry	CCPY	2.2	2.2	2.6	2.5	2.2	2.6	3.0	3.3	3.7	5.0	3.7	5.7	4.3	6.0		
Unit labour costs, exch.r. adj.(EUR)	CCPY	1.7	1.7	1.5	1.6	1.8	1.5	1.2	0.9	0.4	-2.1	0.0	-0.5	0.5			
WAGES, SALARIES																	
Total economy, gross	th. SIT	246.9	249.3	248.2	250.9	251.5	253.8	257.2	270.3	277.6	258.2	254.8	261.4	260.2	259.5	262.7	
Total economy, gross	real, CMPY	2.5	2.3	2.1	2.1	1.0	2.4	2.3	1.7	1.3	0.5	1.8	3.6	1.9	0.3	1.9	
Total economy, gross	USD	1151	1236	1242	1219	1194	1208	1278	1340	1438	1375	1356	1349	1314	1306	1334	
Total economy, gross	EUR	1063	1070	1063	1072	1071	1080	1092	1145	1174	1090	1073	1099	1093	1088	1100	
Industry, gross	EUR	907	915	900	919	918	932	951	1006	1020	940	920	965	942			
PRICES																	
Consumer	PM	0.5	0.5	0.3	0.5	-0.4	0.3	0.3	0.3	0.1	0.4	0.1	0.6	0.5	0.9	0.3	0.4
Consumer	CMPY	5.3	5.5	6.0	6.0	5.5	5.0	4.8	5.1	4.6	4.0	3.6	3.5	3.5	3.8	3.9	3.8
Consumer	CCPY	6.1	5.9	6.0	6.0	5.9	5.8	5.7	5.6	5.5	4.0	3.8	3.7	3.6	3.7	3.7	3.7
Producer, in industry	PM	0.3	0.5	0.1	0.0	0.0	0.2	0.2	0.2	0.6	0.4	1.0	0.3	0.6	0.7	0.1	0.3
Producer, in industry	CMPY	2.4	2.8	2.7	2.5	2.3	2.5	2.3	2.1	2.1	2.3	3.5	3.8	4.0	4.2	4.2	4.6
Producer, in industry	CCPY	2.8	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.3	2.9	3.2	3.4	3.6	3.7	3.8
RETAIL TRADE ³⁾																	
Turnover	real, CMPY	7.2	6.5	6.2	4.1	0.8	7.4	5.1	-0.5	5.3	4.4	1.6	8.7	6.0	3.4	7.5	
Turnover	real, CCPY	5.2	5.5	5.6	5.4	4.8	5.1	5.1	4.6	4.7	4.4	3.0	5.0	5.3	4.9	5.4	
FOREIGN TRADE ⁴⁾⁵⁾																	
Exports total (fob), cumulated	EUR mn	3723	4648	5592	6598	7299	8364	9453	10431	11288	861	1828	2970	4023	5036	6118	
Imports total (cif), cumulated	EUR mn	4028	5087	6077	7130	7921	9006	10125	11194	12239	883	1917	3170	4418	5580	6726	
Trade balance total, cumulated	EUR mn	-305	-439	-485	-533	-622	-643	-672	-763	-952	-22	-89	-200	-395	-543	-608	
Exports to EU-15 (fob) ⁶⁾ , cumulated	EUR mn	2284	2838	3384	3951	4310	4924	5548	6112	6579	612	1274	2060	2736	3421	4131	
Imports from EU-15 (cif) ⁶⁾ , cumulated	EUR mn	2699	3415	4093	4827	5331	6050	6809	7530	8229	658	1433	2373	3254	4219	5526	
Trade balance with EU-15 ⁶ , cumulated	EUR mn	-415	-577	-710	-876	-1021	-1126	-1261	-1418	-1650	-46	-158	-313	-518	-798	-1395	
FOREIGN FINANCE																	
Current account, cumulated	EUR mn	-13	-80	-56	-34	-34	61	139	129	17	81	108	46	-25	-172	-38	
EXCHANGE RATE																	
SIT/USD, monthly average	nominal	214.4	201.7	199.8	205.8	210.7	210.1	201.2	201.7	193.0	187.8	187.9	193.8	198.1	198.7	196.9	195.5
SIT/EUR, monthly average	nominal	232.4	233.0	233.5	234.1	234.7	235.0	235.5	236.0	236.5	237.0	237.4	237.8	238.2	238.5	238.8	239.7
SIT/USD, calculated with CPI ⁷⁾	real, Jan00=100	93.8 96.3	87.7	86.7 89.9	88.9 92.4	91.7	91.5 94.8	87.3	87.0	83.0	80.9	81.3 84.9	83.9	85.7	85.6 91.2	84.9	83.9 89.7
SIT/USD, calculated with PPI ⁷⁾ SIT/EUR, calculated with CPI ⁷⁾	real, Jan00=100 real, Jan00=100	99.6	90.0 99.4	99.3	92.4	94.8 99.9	100.1	91.1 100.1	90.9	86.8 100.5	85.2 100.2	100.6	87.7 100.7	90.3	100.4	90.6 100.2	100.1
SIT/EUR, calculated with PPI ⁷⁾	real, Jan00=100	100.6	100.0	100.0	100.3	100.7	100.1	100.1	100.1	100.5	100.2	99.9	100.7	100.7	100.4	100.2	100.1
· ·	1001, 001100-100	100.0	100.0	100.0	100.5	100.7	100.0	100.7	100.0	100.4	100.5	33.3	100.5	100.4	100.5	100.4	100.4
DOMESTIC FINANCE M0, end of period	SIT bn	147.2	150.2	153.3	147.3	152.7	151.2	154.6	155.4	156.0	152.9	153.3	152.6	156.9	162.5	163.3	
M1, end of period	SIT bit	711.7	719.7	774.6	755.3	753.6	769.0	759.4	768.8	797.2	782.3	787.4	795.8	817.1	852.9	883.9	890.8
Broad money, end of period ⁸⁾	SIT bn	3598.6	3623.2	3679.2	3717.4	3716.0	3720.7	3762.3	3777.7	3778.0	3784.6	3792.6	3791.9	3827.1	3826.9	3855.3	3882.1
Broad money, end of period ⁸⁾	CMPY	13.1	13.1	15.5	15.0	14.3	9.8	10.8	6.0	4.9	6.2	5.9	6.0	6.3	5.6	4.8	4.4
Discount rate (p.a.),end of period ⁹⁾	% SWI 1	6.50	6.50	5.50	5.50	5.50	5.50	5.25	5.00	5.00	4.75	4.50	4.50	4.25	4.00	3.50	3.00
Discount rate (p.a.),end of period ¹⁰⁾	real, %	4.0	3.6	2.7	2.9	3.1	2.9	2.9	2.8	2.8	2.4	1.0	0.7	0.2	-0.2	-0.7	-1.5
BUDGET	,																
General gov.budget balance, cum.	SIT bn	-11.3	-27.6	-56.3	-51.6	-64.5	-49.3	-46.4	-72.7	-78.5	3.8	-12.1	-6.2	5.2			

¹⁾ Effective working hours, from 2004 construction put in place of enterprises with 20 (up to this time 10) and more persons employed.

²⁾ Ratio of unemployed to the economically active.

³⁾ According to NACE (52 - retail trade, 50 - repair of motor vehicles), excluding turnover tax.

A) Based on cumulated national currency and converted with the average exchange rate.
 5) Cumulation starting January and ending December each year.

⁶⁾ From January 2004 EU-25.

⁷⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

⁸⁾ According to ECB monetary standards..

⁹⁾ Main refinancing rate.

¹⁰⁾ Deflated with annual PPI.

U K R A I N E: Selected monthly data on the economic situation 2003 to 2004

(updated end of August 2004) 2003 2004 Apr Mav Jun Jul Oct Nov Dec Jan Feb Mai Apr May Jun Jul PRODUCTION Industry, total13 real, CMPY Industry, total real, CCPY 11.7 12.4 13.8 15.2 15.7 15.5 15.8 16.1 18.2 18.8 17.7 16.9 15.9 11.4 14.6 Industry, total1 real 3MMA I AROUR Unemployment, end of period th. persons 1107.3 1057.8 1012.7 996.1 982.8 961.8 938.6 949.9 988.9 1003.6 1045.4 1061.2 1044.6 1005.8 962.5 945.0 Unemployment rate²⁾ 4.0 3.9 3.7 3.6 3.6 3.5 3.4 3.5 3.6 3.7 3.8 3.9 3.8 3.7 3.5 3.4 WAGES, SALARIES 1) Total economy, gross UAH 422.6 439.3 476.2 489.5 498.3 498.3 550.9 499.7 510.1 545.1 547.9 555.0 601.5 479.2 489.5 Total economy, gross real CMPY 147 17.8 191 14.5 16 1 199 17.3 144 149 15.3 214 23.0 216 176 16.9 Total economy, gross USD 79 82 89 92 90 93 93 92 103 94 96 102 103 104 113 Total economy, gross 74 EUR 73 72 76 81 81 83 80 78 84 76 84 86 87 Industry, gross 97 94 97 97 108 114 EUR 110 111 PRICES PM 0.7 0.0 0.1 -0.1 -1.7 0.6 1.3 1.9 1.4 0.4 0.4 0.7 0.7 0.7 0.0 Consumer Consumer CMPY 3.6 3.9 5.9 7.4 5.8 6.2 6.9 8.1 8.2 8.1 7.4 6.6 6.6 7.4 8.0 8.1 Consumer CCPY 2.6 2.8 3.3 3.9 4.1 4.4 4.6 4.9 5.2 8.1 7.8 7.4 7.2 7.2 7.4 7.5 Producer, in industry PM 0.3 0.3 0.0 1.0 1.0 0.9 0.7 1.5 1.7 1.6 2.9 2.2 3.3 2.1 1.5 0.1 CMPY Producer, in industry 21.3 89 76 5.3 5.3 68 74 8.0 94 112 124 149 150 184 20.6 224 Producer, in industry CCPY 8.1 8.0 7.5 72 7.1 7.2 7.3 7.5 7.8 12.4 13.7 14.1 15.2 16.3 17.3 17.9 RETAIL TRADE Turnover³ real, CCPY 11.9 13.8 15.1 16.8 17.1 18.1 19.1 18.9 19.4 19.1 21.5 24.3 22.9 22.3 21.4 FOREIGN TRADE⁴⁾⁵⁾ Exports total (fob), cumulated EUR mn 6345 7809 9330 11143 12877 14692 16585 18430 20408 1686 3543 5736 8209 10438 12660 Imports total (cif), cumulated EUR mn 5967 7392 8928 10732 12513 14354 16311 18131 20356 1374 3059 5051 6961 8702 10695 FUR mn Trade balance cumulated 378 417 402 411 364 338 274 299 52 312 484 685 1248 1736 1964 FOREIGN FINANCE Current account, cumulated⁶ FUR mn 1642 2237 2559 1335 **EXCHANGE RATE** UAH/USD, monthly average 5.334 5.333 5 333 5.332 5.332 5.332 5 332 5 332 5.332 5.331 5.331 5.330 5 329 5.327 5.322 5 318 nominal UAH/EUR, monthly average 5.786 6.125 6.225 6.066 5.951 5.968 6.238 6.239 6.541 6.725 6.735 6.526 6.405 6.383 nominal UAH/USD, calculated with CPI7) real, Jan00=100 77.7 77.7 81.5 81.4 81.4 81.6 83.3 83.1 81.9 80.2 78.9 78.2 78.3 78.5 78.2 78.0 UAH/USD, calculated with PPI7) real, Jan00=100 81.7 81.3 82.2 81.1 80.5 80.1 80.0 78.6 77.6 77.4 75.6 74.3 72.8 72.4 71.5 71.3 UAH/EUR, calculated with CPI7) real, Jan00=100 86.9 92.0 93.4 91.1 91.1 91.1 94.1 92.4 95.7 97.0 97.0 94.1 92.1 91.5 91.9 92.9 UAH/EUR, calculated with PPI7) real, Jan00=100 85.6 90.0 91.4 88.1 85.8 85.3 88.5 87.3 90.0 91.3 89.1 85.0 81.1 79.6 79.3 80.1 DOMESTIC FINANCE 27879 31072 30862 31318 33580 M0, end of period UAH mn 27650 29375 30080 31549 33119 31501 32672 35836 35810 36890 M1, end of period UAH mn 42743 43447 46815 47276 48315 50293 49341 49467 53129 49792 51387 54970 56750 57873 60814 Broad money, end of period UAH mn 72509 73977 79034 80786 83048 86495 86856 88295 95043 92643 96050 101151 105104 109435 113961 Broad money, end of period CMPY 49.8 51.6 54.4 49.8 47.5 49.8 48.0 48.2 47.3 47.4 47.9 45.1 45.0 47.9 44.2 Refinancing rate (p.a.),end of period 7.5 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 Refinancing rate (p.a.),end of period8 real % -1.8 -0.6 1.6 1.6 0.2 -0.4 -n 9 -2.2 -3.8 -4.8 -69 -7.0 -9.7 -11.3 -12.2 -11.4 BUDGET

UAH mn 2348.1 3375.2 2500.9 2889.3 4028.2 3991.5 3636.2 4111.6 -489.9 1614.7 1814.9 1203.7

660.5 1488.6

548.6

General gov.budget balance, cum

¹⁾ Excluding small firms.

²⁾ Ratio of unemployed to the economically active.

Official registered enterprises.

⁴⁾ Based on cumulated USD and converted using the ECB EUR/USD average foreign exchange reference rate

⁵⁾ Cumulation starting January and ending December each year.

⁶⁾ Calculated from USD to NCU to EUR using the official average exchange rate

⁷⁾ Adjusted for domestic and foreign (US resp. EU) inflation. Values less than 100 mean real appreciation.

Deflated with annual PPI.

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attention Ms. Ursula Köhrl

INDEX OF SUBJECTS - August/September 2003 to August/September 2004

Bulgaria	economic situation	2003/11
Croatia	economic situation	
Czech Republic	economic situation	
	income inequality	
Hungary	economic situation	
	exchange rate	
Macedonia	economic situation	
Poland	economic situation	
	economic growth after EU accession	2004/6
	exchange rate	2003/8-9
Moldova	economic and political situation	2004/3
Romania	economic situation	2003/11
Russia	economic situation	2003/10
	Russia – EU	2004/4
Serbia & Montenegro	economic situation	2003/11
Slovakia	economic situation	2003/10
	flat tax	2004/1
Slovenia	economic situation	2003/10
	fiscal implications of EU accession	2003/12
Ukraine	economic situation	2003/11
Region Eastern Europe and CIS	agriculture	2004/2
(multi-country articles	balance of payments	2004/8-9
and statistical overviews)	Balkans, shadow economy	2003/8-9
	Balkans – EU	
	Belarus	
	Common Economic Space	
	demand for food	
	economic policy (Washington Consensus)	
	EMU, ERM II	
	EU enlargement	
	EU integrationexport quality	
	FDI	
	exchange rate	
	manufacturing	
	optimal currency areas	
	shadow economy	
	taxation	
	trade	
	trade balance	
	Ukraine – EU	

