Schrader, Klaus; Laaser, Claus-Friedrich; Reiljan, Janno

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Deficiencies in the development of an Estonian welfare state

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Deficiencies in the Development of an Estonian Welfare State

Klaus Schrader
Claus-Friedrich Laaser
Janno Reiljan

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Deficiencies in the Development of an Estonian Welfare State

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Abstract

Estonia is widely regarded as a paramount example for a successful transformation of a socialist economic system to a functioning market economy. Against the backdrop of this positive image which contrasts strongly with the crisis scenarios in Southern Europe the remaining problems of Estonia are often ignored. Estonia has hardly succeeded in catching-up economically with the richer countries of the euro area. Correspondingly, the level of social security is rather limited. In this paper the authors raise the question what the causes of the sluggish catching-up process are, and which opportunities Estonian economic policy has in order to close the wealth gap.

Keywords: Catching-up, social security, growth and structural change

JEL classification: F43, H55, O52

Klaus Schrader
Kiel Institute for the World Economy
24100 Kiel, Germany
E-mail: klaus.schrader@ifw-kiel.de

Claus-Friedrich Laaser
Kiel Institute for the World Economy
24100 Kiel, Germany
E-mail: claus-friedrich.laaser@ifw-kiel.de

Janno Reiljan
University of Tartu
50090 Tartu, Estonia
E-mail: janno.reiljan@ut.ee

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1. Motivation

Estonia is widely regarded as a paramount example for a successful transformation of a socialist economic system to a functioning market economy. This process can be considered as a model case not only for other transformation countries, but even for crisis-shaken EU members in Southern Europe. Moreover, Estonia has gained reputation for a consequently performed stabilization policy, which was crowned with the success of the countries’ membership in the Euro Area.

Against the backdrop of this positive image which contrasts strongly with the crisis scenarios in Southern Europe the remaining problems of Estonia are often ignored. Estonia has hardly succeeded in catching-up economically with the richer countries of the Euro Area since its independence. Correspondingly, the level of social security which the country can afford and sustain is rather limited. Without social stability, however, public acceptance of the market economy might lose strength in the course of time. The aim of this paper is, therefore, to demonstrate that creating a functioning market economy according to EU standards is a necessary but not a sufficient condition for successful economic and social catching-up in the long-run. The question is raised which obstacles to socio-economic development still exist in Estonia, and which options Estonian economic policy has in order to overcome development deficiencies.

2. The Estonian Catching-up Process

The Estonian development renders the impression that Estonia indeed made up some ground but was not able to catch-up convincingly so far. Estonia failed to move up the European income hierarchy: By 2012, Estonia was still the poorest country in the Euro Area, measured by per capita incomes in PPP. In 2013 Estonia could move up one place in this ranking but this “improvement” was only due to Latvia’s accession to the Euro Area (Graph 1). To be sure, after 2000 the Estonian economy grew at rates between 6 and 10 per cent p.a. Jointly with its neighbors Latvia and Lithuania the country was even

**Graph 1: Per capita income of the Euro countries 2013**

![Graph showing per capita income of Euro countries](image)

*aIn power purchasing parities per capita. — L = Luxembourg, A = Austria, NL = Netherlands, IRL = Ireland, D = Germany, B = Belgium, FIN = Finland, F = France, I = Italy, E = Spain, M = Malta, CY = Cyprus, SLO = Slovenia, SK = Slovakia, GR = Greece, P = Portugal, EST = Estonia, LV = Latvia. — *Value for 2012.

Source: Eurostat (2014a); own compilation.
labeled as a “Baltic tiger”. The growth dynamics were accompanied by a process of making up ground relative to the wealthier EU members; during the period 1995 to 2007 the relative per-capita income (as measured against the Euro-17 average) doubled to 64 per cent (Graph 2). But the global financial and economic crisis in 2008 and 2009 made a sudden end to this favorable trend also in Estonia.

**Graph 2: Development of per capita incomes in Estonia and the Euro Area 1995–2013**

![Graph showing development of per capita incomes in Estonia and the Euro Area 1995–2013](image)

*Left axis: Per capita incomes of Estonia and the Euro-17 countries in power purchasing parities. — Right axis: Estonia's per capita income as a percentage of the Euro-17 countries' per capita income based on power purchasing parities.

*Source:* Eurostat (2014a); own compilation.

In the course of the crisis Estonia’s growth model expired: During the 2000s years the main driver of Estonian growth had no longer been exports, but instead an expansive domestic demand triggered off by cheap loans granted by Scandinavian banks and their local subsidiaries. Substantial amounts were channeled into real estate and housing, retail trade and financial services. Based on an abundant supply of credit and wage increments, private households increased their demand for consumer durables, private services and home ownership substantially. A demand-driven bubble emerged which finally burst in 2008 when the banks reversed their risk assessments and downsized their credit supply – the Estonian economy shrunk by two-digit rates in 2008 and 2009, and the wealth gap relative to the Euro Area-average again widened (Graph 3). A revival of the demand-driven growth model proved to be totally unrealistic due to the loss of confidence on international financial markets and the now restrictive risk policy of commercial banks.1

Unsurprisingly, from 2010 onwards the recovery of the Estonian economy was driven by exports. The export sector, having been neglected during the boom phase, had again to serve as main source of growth. The revived growth process also restarted catching-up, Estonian relative per-capita-income could once more match the pre-crisis level in 2013. However, export-driven growth has its limits, too: Growth rates between 3 and 4 per cent may be regarded as sound growth by current international standards, but would not permit substantial progress in catching-up relative to richer euro countries. In the short-term even the minimum target of 3 per cent will probably be missed (cf. European Commission 2014: 56–57).

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1 For details see Schrader and Laaser (2010: 14–17).
3. The Social Dimension of the Estonian Market Economy

Even though Estonia must be considered a poor country compared with other euro member nations, there have been no indications so far of any threat to social stability. Unlike the situation in Southern European crisis countries, the financial and economic crisis has not led to social erosion in Estonia, and the development of poverty in Estonia has remained inconspicuous in relation to the Euro Area as a whole. The share of people at risk of poverty or social exclusion is at the average of the Euro countries and well below the shares of the Euro crisis countries; moreover the Estonian income distribution can be labeled to be inconspicuous (Eurostat 2014b, c). Nevertheless, Estonia’s state-managed social security system appears to be a weakness. Until the end of the boom years, significantly less than 15 per cent of GDP was spent on social security, not even half the average for the group of Euro-17 countries (Graph 4).

Graph 4: Social protection expenditure in Estonia and the Euro Area 2000–2011a

*Social protection expenditures as percentage of GDP. — EST-H = Sickness/health care; EST-P = Old age; EST-U = Unemployment; EST-O = Disability, family/children, survivors, housing, social exclusion, administration costs, other expenditures.

Source: Eurostat (2014d); own compilation.
While Estonia, being a poor country, cannot afford the level of social security of the affluent Euro Area countries, in terms of healthcare and pensions it remains behind the other Euro Area member countries even within the scope of its macroeconomic performance. While public spending surged in the wake of the crisis beginning in 2008—with unemployment in particular becoming a major burden—the level of social spending declined again in tandem with the gradual economic recovery. Only the pensions frozen during the crisis continue to be felt to this day.

The Estonians only have relatively little scope for funding their social security from labor income and savings; the losses in income and assets due to the economic crisis likewise are still in evidence. Wages and salaries fell during the crisis years, even though they were already very low compared with other Euro Area countries (Eurostat 2014e). Yet declining work-based income also had the positive effect that it was possible to boost competitiveness and to contain unemployment cuts. The wage flexibility following the crisis-related, rapid surge in unemployment then again served to ease the Estonian labor market, contributing towards social stabilization. It was possible to avoid mass unemployment on the scale that prevailed in the Southern European crisis countries and to start creating jobs again — although the pre-crisis employment level is still out of reach (Graph 5).

*Graph 5: Labour Market Performance in Estonia and the Euro Area 2000–2014*

![Graph 5: Labour Market Performance in Estonia and the Euro Area 2000–2014](image)

*Left axis: Harmonized unemployment rate in per cent; right axis: employment annual averages in 1 000 persons. — *Estimates by the European Commission (2014).

*Source:* European Commission (2014); Eurostat (2014f); own compilation.

The state provided an active contribution towards stabilization via unemployment and pension insurance: in spite of the apparently modest unemployment benefits, amounting to 40–50 per cent of the average wage, for many employee households the consequences of the crisis were absorbed so substantially that social stability was never seriously questioned in Estonia. During the crisis years 2008 and 2009 12 rps. 24 per cent of the labour force received unemployment benefits (Võrk et al. 2010: 8). Due to a maximum period of entitlement of 270 days in many cases unemployed had to receive the much lower unemployment assistance subsequently. To some extent, migration provided for further relief on the labour market (cf. Statistics Estonia 2013).

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Furthermore, the Estonian pension system made an important contribution to social stability during the crisis years due to the fact that pensions – in contrast to shrinking wage income – were frozen at existing levels (Table 1).4 This was financed with existing reserves in the pension system that had been accumulated during the boom years. Nevertheless, because pensions are wage-related, in the absence of any major progress regarding income growth the stability of the Estonian pension system is at risk. Public health care insurance, which can provide only limited health care services, also contributed to social stability but it started to run financing deficits. A sound financing base and the further development towards a health system meeting Western standards require rising contributions of the insurants and/or the taxpayers.

Table 1: Pensions and net wages in Estonia 2003–2013

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Average annuity (€)</td>
<td>116</td>
<td>130</td>
<td>148</td>
<td>175</td>
<td>204</td>
<td>251</td>
<td>270</td>
<td>272</td>
<td>271</td>
<td>277</td>
<td>289</td>
</tr>
<tr>
<td>Average retirement annuity (€)</td>
<td>127</td>
<td>143</td>
<td>164</td>
<td>194</td>
<td>226</td>
<td>278</td>
<td>301</td>
<td>305</td>
<td>305</td>
<td>313</td>
<td>327</td>
</tr>
<tr>
<td>Average net wages (€)</td>
<td>331</td>
<td>363</td>
<td>411</td>
<td>484</td>
<td>583</td>
<td>670</td>
<td>637</td>
<td>672</td>
<td>706</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Annuity / wages (%)</td>
<td>35.1</td>
<td>36.0</td>
<td>36.0</td>
<td>36.1</td>
<td>36.1</td>
<td>34.9</td>
<td>37.4</td>
<td>42.5</td>
<td>42.7</td>
<td>40.3</td>
<td>39.2</td>
</tr>
<tr>
<td>Retirement annuity / wages (%)</td>
<td>38.3</td>
<td>39.5</td>
<td>39.8</td>
<td>40.0</td>
<td>38.8</td>
<td>41.5</td>
<td>47.3</td>
<td>47.8</td>
<td>45.4</td>
<td>44.3</td>
<td></td>
</tr>
</tbody>
</table>


Estonia has developed a social security system that proved its worth during the crisis and is actually affordable by the country. The major issue of the system, though, is that Estonia’s low economic strength allows only for the provision of basic social security way below the existing standards in the affluent Euro Area member countries. However, even considering Estonia’s relatively low prosperity, the public social security systems are apparently underfunded. In addition, since having gained independence, income trends have been insufficient to allow for additional private pension provisioning. Therefore, Estonia is in need of a dynamic economic catching-up process with a sustainable increase in the level of personal incomes. This calls for a competitive economy with high value-adding production structures, generating higher incomes than in the past.

4. The Currency Board System and Structural Change

The Estonian currency system and the country’s Euro Area membership need to be discussed as a potential obstacle to a faster economic catching-up process. Estonia relied on a very rigid currency board system from the outset, initially providing for a fixed exchange rate to the deutschmark and, later, to the euro.5 To be sure, the Estonian currency board system proved to be successful with respect to monetary stabilization, especially as it survived a number of crises6 and essentially complied with the necessary conditions for long-term credibility of a “hard peg”, in other words a constant, fixed exchange rate as in a currency union.7 The conditions were met by (i) a fiscal policy that can be consistently regarded as sound – the budget deficit never exceeded the Maastricht threshold of 3 per cent of GDP, while in 2002–2007 even a budget surplus was achieved (Graph 6), (ii) an almost negligible stock of public debt relative to GDP – Estonia may be labeled as the “model student” in the Eurozone

in this respect (Graph 7), although the debt relief after regaining independence has to be taken into account, and (iii) the willingness to cope with the challenges of the global financial crisis 2008/09 by a real devaluation of domestic wages and prices (Eurostat 2013a).

*Graph 6: Estonian government deficit/surplus 2000-2013*

![Graph 6](image_url)

\[\text{Graph 6: Estonian government deficit/surplus 2000-2013}^a\]

\[\text{Net lending (+)/ Net borrowing (-) of general government under the EDP (Excessive Deficit Procedure) in per cent of GDP.}\]

*Source:* Eurostat (2014g); own compilation.

*Graph 7: Stock of public debt in the Euro-17 area 2013*

![Graph 7](image_url)

\[\text{Graph 7: Stock of public debt in the Euro-17 area 2013}^a\]

\[\text{Government consolidated gross debt, in per cent of GDP; for the country codes see Graph 1.}\]

*Source:* Eurostat (2014g); own compilation.
It may an open question whether Estonia’s integration into the Euro Area even matched the criteria given by the “optimum currency area theory”, but macro-economic stabilization can be regarded as successful.

However, with its monetary and exchange rate policy system, Estonia was – and now as Euro area member is – not able to use a flexible exchange rate as a shock absorber to respond to real economic shocks in any case. This might endanger social stability in the long run since nominal devaluations are simply not possible – only real devaluations.

Therefore, it is at least debatable whether a fixed exchange rate to an anchor currency is the appropriate exchange rate system during a process of economic catching-up that is accompanied by profound structural changes. From a long-term perspective, it is potentially doubtful whether wage and price falls can work without limits as internal shock absorbers when the potential international competitiveness of a poor country is limited at any rate.

Certain skepticism is warranted because of the nature of structural changes in the wake of a growth process. If a relatively poor country has an economic structure that is focused on producing raw material- and labor-intensive goods with relatively little use of technology and human capital, it predominantly competes with developing and emerging economies on the global markets. These are competitive conditions with generally low prices for standardized products as the main driver for competitiveness and no monopolistic pricing scope to the upside. A member of a hard currency union hardly stands any chance of winning such price wars. Moreover, in this “race to the bottom” the country cannot improve its own competitiveness through a nominal devaluation. Therefore, devaluation in real terms, i.e. falling or at least stagnating wages and prices for such products, is the only instrument to maintain competitiveness. This will hardly help, though, to lower the income gap in relation to the other members of the currency union. Quite the contrary: a reduction in the per-capita income gap even calls for an appreciation in real terms. This, however, would not hurt the competitive position of the relatively poor country only if, at the same time, its product range were to change towards higher value-added products with a higher input of technology and human capital which, according to the theory of monopolistic competition, would provide scope for price gains. The resulting increase in productivity would allow for real appreciation, helping to lower the income gap in relation to highly developed member countries of the Euro Area. For Estonia, this means that membership in the hard currency union of the euro is no obstacle to its process of economic catching-up, but only if the country experiences a structural change accompanied by high productivity gains.

5. Structural Weaknesses

The development of Estonian unit labour costs in the 2000s displays the fact that the country lost competitiveness towards the Euro Area on average (Graph 8). Unit labor costs have risen faster in Estonia since the 2000 than in other Euro countries, thus making Estonia less competitive. It becomes obvious that during the period of demand driven growth, fueled by cheap credits from European banks, Estonians lost sight of saving the country’s international competitiveness. In the course of the economic crisis unit labour costs shrank temporarily but at present they are rising again.

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8 See Mongelli (2008: 2–3) for a brief overview of the various contributions to this rather heterogeneous field of macroeconomic theory. Classical criteria for an optimum currency area are factor mobility (Mundell 1961), economic openness (McKinnon 1963) and a distinct diversification of production (Kenen 1969). Newer contributions call for wage and price flexibility, integration of financial markets, conformity of inflation rates, or fiscal and political integration.
The Achilles’ heel of the Estonian economy is structural in nature and consists in a technology gap compared to leading advanced economies in the EU. Estonian industrial production and the country’s services sector continue to deploy a relatively low degree of technology and human capital, which is reflected in a correspondingly low level of productivity, allowing for low wages only. The analysis reveals that Estonian labour costs are the lowest in the Euro Area but the same applies to Estonian labour productivity (Graph 9). And low labour productivity remains a massive obstacle to the Estonian efforts to catch-up with the wealthier Euro countries: The Estonian economy’s very low productivity
level and only modest productivity gains are unlikely to make the country a candidate for a real appreciation in the near future. Estonia evidently failed to overcome the structures of a low-wage country with a low value-adding product range in the first decade of the new millennium. Estonia never experienced a structural change allowing the country to move up the European income hierarchy by virtue of productivity gains (Annex Graph A1).

The structural shortcomings of the Estonian economy can be seen in the country’s sectoral employment structure (Annex Table 1): Compared to the Euro-17’s average Estonia has a high primary sector share (6.4 vs. 4.8 per cent) due to the size of agriculture and forestry. The same is true for the secondary sector (27.4 vs. 22.5 per cent) with above average shares of manufacturing and construction. Estonian manufacturing is dominated by labour-intensive industries at the low end of industrial development, with products displaying only low or middle income elasticities. They comprise food products, textiles and clothing as well as furniture and timber products. In contrast, the Estonian industry lacks a considerable productive capacity of investment goods with a high value-added and a demand for highly qualified workers. Important investment goods industries, such as the automotive industry, machine-building and electrical engineering, only play a minor role or are even not in place. 9 With respect to the –by Euro-17 standards– small Estonian tertiary sector (65 vs. 73 per cent) the perspectives for a growth stimulus are not substantially better. In the (private) service sector, low income jobs with low qualification requirements located in wholesale and retail trade, transportation and storage and also in accommodation and food service activities account for a major share of service employment.

Structural weaknesses can also be seen in terms of Estonia’s foreign trade structures. A factor intensity analysis of Estonian sectoral trade patterns and international competitiveness corroborates that during the 2000s a shift towards technologically advanced products –so called Schumperter-products– did not take place. Labour-intensive and raw-material-intensive products still comprise of about 65 per cent of Estonian exports with positive RCA values signaling Estonia’s comparative advantage (Table 2). The shift towards raw material-intensive products signals that the export of standardized labour-intensive products has no further development potential due to the strong competitors primarily from Asia. In contrast, immobile Schumpeter-products grew by 8 per cent points thus contributing significantly to a total Schumpeter share of about 26 per cent But given a Schumpeter share of 60 per cent of a highly industrialized country such as Germany, the Estonian high tech exports are still lagging behind. The RCA values of Estonian Schumpeter trade continue to be negative and indicate that Estonia’s trade in technology-intensive goods is not very competitive –with “high tech made in Estonia” remaining the exception– despite all improvements made in the value-added content of Estonian export commodities. For instance: Estonia’s relative strengths in merchandise trade are hardly unchanged in the category of labor- and raw material-intensive goods. Estonian’s trade in technology-intensive goods is not very competitive – with “high-tech made in Estonia” remaining the exception – despite all improvements made in the value-added content of Estonian export commodities. 10

The export recovery observed over the past several years has not been accompanied by a significant increase in the technology content of Estonian exports, which means the structural weaknesses still prevail to this day. The situation is very similar in the Estonian services sector: while there are tendencies for rising exports of high-value financial or communications services, exports are still dominated by traditional transport and tourism services.

9 Also see Raudjärv (2013: 150–151) who shares this view.
Table 2: Foreign trade patterns and international competitiveness of Estonia according to factor intensities 1999–2001 and 2010–2012

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Raw material-intensive products</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exports</td>
<td>10.0</td>
<td>31.4</td>
</tr>
<tr>
<td>Imports</td>
<td>14.9</td>
<td>29.8</td>
</tr>
<tr>
<td>RCA</td>
<td>-0.40</td>
<td>0.06</td>
</tr>
<tr>
<td><strong>Labour-intensive products</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exports</td>
<td>63.1</td>
<td>33.5</td>
</tr>
<tr>
<td>Imports</td>
<td>39.6</td>
<td>23.1</td>
</tr>
<tr>
<td>RCA</td>
<td>0.47</td>
<td>0.37</td>
</tr>
<tr>
<td><strong>Capital-intensive products</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exports</td>
<td>9.1</td>
<td>9.2</td>
</tr>
<tr>
<td>Imports</td>
<td>10.6</td>
<td>12.0</td>
</tr>
<tr>
<td>RCA</td>
<td>-0.15</td>
<td>-0.27</td>
</tr>
<tr>
<td><strong>Mobile Schumpeter-products</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exports</td>
<td>10.7</td>
<td>10.3</td>
</tr>
<tr>
<td>Imports</td>
<td>17.6</td>
<td>17.1</td>
</tr>
<tr>
<td>RCA</td>
<td>-0.49</td>
<td>-0.52</td>
</tr>
<tr>
<td><strong>Immobile Schumpeter-products</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exports</td>
<td>7.0</td>
<td>15.7</td>
</tr>
<tr>
<td>Imports</td>
<td>17.4</td>
<td>18.0</td>
</tr>
<tr>
<td>RCA</td>
<td>-0.90</td>
<td>-0.13</td>
</tr>
</tbody>
</table>

*In per cent of total exports or total imports (special trade); averages for the years 1999–2001 and 2010–2012. — *RCA-values for commodity group *i* have been calculated by virtue of the following formula: $RCA_i = \ln(\frac{\text{Export}_i}{\text{Import}_i}) : \frac{\sum \text{Export}_i}{\sum \text{Import}_i}$; positive RCA-values indicate competitive advantages; assignment based on SITC 3 (cf. Annex Box A 1).

Source: Eurostat (2013b); Heitger et al. 1992 (43–45); own compilation and calculations.

6. **Challenges for Economic Policy**

Without any significant improvements of its economic structures Estonia will remain in a poverty trap because on its markets of standardized goods and services the competition by emerging economies will further intensify. In the long run, internal devaluations are not a suitable instrument to raise Estonian competitiveness. Due to Estonia’s membership in the hard currency area of the euro, the country had to be rather a candidate for internal appreciation if the catching-up process should gain momentum. In this respect the euro membership requires the development of competitive economic structures in Estonia, coming close to a benchmark country like Germany. The challenge for the Estonian economic policy is to create a suitable business environment to support this kind of structural change.

Fortunately, there is evidence that Estonian policy has already made appropriate settings. With respect to the Europe 2020 targets, which aim at strengthening the international competitiveness of the EU countries, Estonia has made visible progress in the course of the 2000s years. The expenditures on Research & Development nearly tripled, the number of people with tertiary education meanwhile exceeds the given European target (Eurostat 2014l, m). In the World Bank’s Doing Business Ranking Estonia attained rank 22 out of 189 countries (World Bank 2013), in the World Economic Forum’s Global Competitiveness Index Estonia climbed up to rank 32 which means rank 9 in a euro country comparison (World Economic Forum 2013).

Structural change in favor of competitive Estonian products and services with a high content of technology and human capital would revive the catching-up of the Estonian per capita income and thereby foster the further development of social security in Estonia. Thus a level of social stability could be achieved that would ensure the people’s support of the Estonian market system also in the long run.
Annex

**Box A1: Assignment of Commodities according to Standard International Trade Classification (SITC) to Commodity Groups of Specific Factor Intensities**

<table>
<thead>
<tr>
<th>Commodity groups</th>
<th>Commodity division no. according to SITC rev. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw-material-intensive products</td>
<td>0, 2 except 26, 3 except 35, 4, 56, 57</td>
</tr>
<tr>
<td>Labour-intensive products</td>
<td>26, 6 except 62, 67, 68, 8 except 87</td>
</tr>
<tr>
<td>Capital-intensive products</td>
<td>1, 35, 53, 55, 62, 67, 68, 793</td>
</tr>
<tr>
<td>Mobile Schumpeter-products</td>
<td>51, 52, 58, 59, 75, 76, 77</td>
</tr>
<tr>
<td>Immobile Schumpeter-products</td>
<td>54, 71, 72, 73, 74, 78, 791, 792, 87</td>
</tr>
</tbody>
</table>

*aThe assignment scheme originally is based on SITC rev. 2 and has been converted to SITC rev. 3.*


**Graph A1: Real labour productivity in Estonia and the Euro Area 2000–2013**

*aEuro per hour worked; real labour productivity per hour worked defined as real output (deflated GDP measured in chain-linked volumes, reference year 2005) per unit of labour input (measured by the total number of hours worked).*

Source: Eurostat (2014i); own compilation.
Table A1: Sectoral employment structure in Estonia 2013<sup>a</sup>

<table>
<thead>
<tr>
<th></th>
<th>in 1 000</th>
<th>share in %&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td>619.3</td>
<td>100.0</td>
</tr>
<tr>
<td><strong>Primary Sector</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture, forestry and fishing</td>
<td>26.2</td>
<td>4.2</td>
</tr>
<tr>
<td>Mining and quarrying</td>
<td>4.8</td>
<td>0.8</td>
</tr>
<tr>
<td>Electricity, gas, steam and air conditioning supply; Water supply; sewerage, waste management and remediation activities</td>
<td>8.7</td>
<td>1.4</td>
</tr>
<tr>
<td><strong>Secondary Sector</strong></td>
<td>169.4</td>
<td>27.4</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>115.0</td>
<td>18.6</td>
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<tr>
<td>Construction</td>
<td>54.4</td>
<td>8.8</td>
</tr>
<tr>
<td><strong>Tertiary Sector</strong></td>
<td>404.6</td>
<td>65.3</td>
</tr>
<tr>
<td>Wholesale and retail trade; repair of motor vehicles and motorcycles</td>
<td>85.0</td>
<td>13.7</td>
</tr>
<tr>
<td>Transportation and storage</td>
<td>42.5</td>
<td>6.9</td>
</tr>
<tr>
<td>Accommodation and food service activities</td>
<td>23.7</td>
<td>3.8</td>
</tr>
<tr>
<td>Information and communication</td>
<td>19.9</td>
<td>3.2</td>
</tr>
<tr>
<td>Financial and insurance activities</td>
<td>10.3</td>
<td>1.7</td>
</tr>
<tr>
<td>Real estate activities</td>
<td>9.9</td>
<td>1.6</td>
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<tr>
<td>Professional, scientific and technical activities</td>
<td>29.3</td>
<td>4.7</td>
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<tr>
<td>Administrative and support service activities</td>
<td>25.1</td>
<td>4.1</td>
</tr>
<tr>
<td>Public administration and defence; compulsory social security</td>
<td>45.8</td>
<td>7.4</td>
</tr>
<tr>
<td>Education</td>
<td>51.1</td>
<td>8.3</td>
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<tr>
<td>Human health and social work activities</td>
<td>34.8</td>
<td>5.6</td>
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<tr>
<td>Arts. entertainment and recreation</td>
<td>16.6</td>
<td>2.7</td>
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<tr>
<td>Other service activities</td>
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</table>

<sup>a</sup>Employed persons from 15 to 64 years in the 2<sup>nd</sup> quarter 2013. — <sup>b</sup>Employed persons in % of total employment.

Source: Eurostat (2014k); own compilation and calculations.
References


