

ECONOMIC ANALYSIS AND RESEARCH

Compendium of industrial statistics, 2012



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Compendium of industrial statistics

2nd Edition, 2012

Discussion document

D0406

Published by Statistics South Africa, Private Bag X44, Pretoria 0001

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Discussion document: Compendium of industrial statistics, 2nd Edition, 2012 (D0406)/Statistics South Africa. Pretoria: Statistics South Africa, March 2012

Discussion document (D0406)

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Preface

The Compendium of Industrial Statistics provides experimental facts and figures on economic progress in the South African manufacturing sector. As such it is designed to inform public discussion of the overall picture of economic activity within and across industries comprising this sector. Information included in this document is for the reference period 2003-2010.

The Compendium data offers many analytical possibilities in the context of studying the South African manufacturing sector. Depending on users' preferences it can be used to study:

- the potential of industries to innovate;
- the impact of innovation on industry development;
- the competitive performance of industries;
- the impact of productivity on industry performance;
- the sources of productive efficiency in industries;
- how the sources of productive efficiency affect the production pattern of industries;
- the evolution of concentration and its impact on industry performance; and
- the size and development of non-observed economic activity in industries.

The Compendium is not a scorecard for government policy. It is an experimental publication, which in keeping pace with meeting user needs, is intended to develop and evolve over time as part of a regular industrial statistics programme.

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List of key indicators reported and their interpretation

Indicator	Interpretation
Ownership	Legal right of control to an enterprise by private individuals; the State; or a combination of the two
Index of gross output in real terms	Growth in output
Index of value added in real terms	Growth in output beneficiation
Index of gross capital in real terms	Growth in all forms of capital held
Index of gross remuneration in real terms	Growth in labour costs
Total employment index	Growth in job creation
Employment index for information-type employees	Growth in job creation for workforce with potential to innovate
Employment index for non-information type employees	Growth in job creation for workforce with no potential to innovate
Employment index for knowledge-based employees	Growth in job creation for workforce with expertise to create knowledge
Employment index for data-handling employees	Growth in job creation for workforce with expertise to process knowledge
Employment index for goods-producing employees	Growth in job creation for workforce with expertise to use knowledge
Employment index for services-producing employees	Growth in job creation for workforce with expertise to transmit knowledge
Labour productivity index	Growth in effectiveness of the workforce to create output beneficiation
Capital productivity index	Growth in effectiveness of capital stock usage to create output beneficiation
Multifactor productivity index	Growth in effectiveness of the combined use of capital stock and labour to create output beneficiation
Index of capital intensity	Growth in extent to which capital stock exceeds labour as a factor of production
Fisher price index	General price level showing growth in average price changes resistant to price volatility
Gini concentration ratio	Extent to which enterprises have equal market shares
Average growth rate	The trend of a growth path

List of symbols and abbreviations

,	decimal separator
(:)	data are not available or not reported
..	amount is nil or negligible
G.C.S.	gross capital stock in 2003, at 2003 prices in Rand million
G.O.	gross output in 2003, at 2003 prices in Rand million
G.R.	gross remuneration in 2003, at 2003 prices in Rand million
n.a.	not applicable
N.D.E.	number of data-handling employees as at 2003
N.G.E.	number of goods-producing employees as at 2003
n.e.c.	not elsewhere classified
n.e.s.	not elsewhere specified
N.I.E.	number of information-type employees as at 2003
N.K.E.	number of knowledge-based employees as at 2003
N.N.I.E.	number of non-information type employees as at 2003
N.S.E.	number of services-producing employees as at 2003
r	average growth rate per annum in percent
R&D	research and development
T.N.E.	total number of employed as at 2003
V.A.	value added in 2003, at 2003 prices in Rand million

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Guide to the publication's data

The Compendium of Industrial Statistics aims to provide a standard set of indicators on the economic progress of the industries comprising the South African manufacturing sector. The data provided in this edition of the Compendium trace the major developments of ownership, employment, production, efficiency, and pricing that characterise this sector over the period of 2003 to 2010. The indicators' calculation procedures and related technical aspects are discussed in the Technical note to the Compendium, and their definitions in the Glossary section of the Compendium.

Classifications employed in the Compendium and the resultant grouping of information this creates are intended for interpretational convenience of the data and do not express a judgment about the state reached by a particular industry in its degree of development or regarding its economic system. In this respect:

- **Industries** are classified according to their economic activity as per the second revision of the International Standard Industrial Classification of All Economic Activities, followed by a regrouping dividing them into R&D intensive and non-R&D intensive clusters in terms of the technological status of their production processes.
- **Employment** is classified according to the knowledge-based classification of the workforce, which gives a composition of the workforce based on the occupations that have the expertise to create, process, use, and transmit knowledge in industry development.
- **Ownership** is classified according to the institutional sector classification in terms of which the legal status of control in an enterprise delineates the possession of enterprises in industries as that falling in the private sector, public sector, or some mixture between the two.

The data in the Compendium derive from samples, which by specification are not designed at the three-digit, i.e. branch level of the manufacturing sector. The data are drawn from various annual sources within Statistics South Africa including the annual financial survey, labour force survey, quarterly labour force survey, the statistical release on the producer price index, as well as unpublished records of price statistics and national accounts for the 2003 to 2010 period.

Information is either expressed in amount totals, counts, ratios or percentages as indicated. The currency of monetary values is the Rand. Numbers representing sub-totals and totals of indices,

percentages, and ratios are given as an unweighted average. Numbers representing sub-totals and totals for counts and monetary values are given as sums.

This edition of the Compendium is divided into five key sections, each with its own distinct information:

- **Ownership composition:** Gives details within and across industries on the proprietorship of enterprises looking at what proportion of enterprises constitutes the private sector, public sector, and mixed forms of proprietary holdings.
- **Employment environment:** Gives details within and across industries on overall employment, its gross remuneration, and its breakdown by knowledge decomposition looking at changes in the overall employment number, its gross remuneration, as well as the changes in employment numbers relating to knowledge decomposition.
- **Production situation:** Gives details within and across industries on the production state of affairs looking at changes in gross output, value added, and gross capital stock.
- **Production efficiency:** Gives details within and across industries on the efficiency with which production is carried out looking at changes in the labour productivity index, capital productivity index, capital intensity, and multifactor productivity index.
- **Pricing conditions:** Gives details within and across industries on inflation and concentration looking at changes in the general price level, and the concentration levels created by enterprises.

Because the information in the Compendium is on the economic *progress* of industries, reporting is concentrated more on the changes and less on the levels of indicators. To portray the uninterrupted evolution of time series, 2003 is selected as the base period from which changes are tracked. As part of keeping the focus on changes, for the series of employment, gross remuneration, gross output, and gross capital stock, levels are only reported for the 2003 base period. In the event a yearly level is needed this can be obtained simply by dividing by 100 the product between the 2003 baseline level and the corresponding yearly index value. As the index series on gross remuneration, gross output, value added and gross capital stock are in real terms this will yield levels in real terms for these indicators. If nominally priced levels are required instead, then the levels in real terms must be reflated by dividing by 100 the product between the yearly level in real

terms and the corresponding yearly value of the general price level index as reported in the Pricing conditions section.

There are a number of important improvements in this Compendium edition compared to the 2008 edition, namely:

- **Delivering new information.** This edition of the Compendium gives updated information by extending the provision of data to 2010. In terms of this, new information is published on the series carried over from the first edition, now with time coverage from 2003 to 2010. In addition the initial estimates of the series are revised by incorporating newer information unavailable at the time of the first compilation. Inevitably producing estimates with the best available information prevailing at a time means that as more recent information becomes available revisions to the initial estimates will follow. In response revisions are not to be seen as a sign of weakness in the original series. They are done in order to include the changes that become known about the series. In this way the actual evolution in a series is reported as closely as possible.
- **Series influenced by assumptions are removed.** In the 2008 edition the series of the price-marginal cost margin, real net exports, elasticity of demand, undistributed profit, rate of return, and interest cover were all derived from the implicitly made or underlying assumptions that supply by enterprises is neither expanding nor contracting, their products are completely substitutable within but not across industries, and their factors of production are fixed. In compiling the 1992 Australian Input-Output Tables, the Australian Bureau of Statistics (1996: 7) observed that these assumptions are "...progressively...weakened by changes in product mix (and consequent changes in inputs), introduction of new products and/or materials, ... substitution of imports for local production and vice versa, ... economies of scale, technological change or substitution of factors (e.g. more capital, less labour)." In short the compilation of series derived out of such assumptions is best avoided since it does not capture the actual, i.e. occurring fluctuations in the economic activities it is meant to reflect because of neglecting the effects of innovation. For this reason the derivation of these series is not pursued in the current Compendium edition.
- **Aligning to standard reporting practices.** This concerns the series on industry concentration and multifactor productivity. In the 2008 edition industry concentration was reported by the Rosenbluth index as well as the number of enterprises operating in industries. However the UNIDO 2005 Industrial Development Report (2005: 130-131)

indicates that conventionally the Gini concentration ratio is the indicator to report for industry concentration, as apart from informing analyses and formulation on industrial policy it equally fulfils the same role in studying the competitive performance of industries. In the case of multifactor productivity, the 2008 System of National Accounts (2009: 412) advises that its derivation must take account of the contributions of both capital and labour to growth in value added. On the other hand, in the 2008 Compendium edition, multifactor productivity was determined from the contributions of capital, labour, and all intermediate inputs. This edition of the Compendium meets these reporting practices in two ways. Firstly it replaces the Rosenbluth index and the number of firms with the Gini concentration ratio as the reportable measure of industry concentration. Secondly it reports multifactor productivity from re-estimation as a productivity measure that accounts for the dual contributions of capital and labour to growth in value added.

- **Avoiding inappropriate treatment of concepts.** The percentage ratio of gross operating surplus to gross value added is called the profit share or the gross profit share. As Lequiller and Blades (2006: 188) indicate the gross profit share is regarded as a reliable depiction of the operating profit rate of enterprises on the aggregate. As a consequence the operating profit series in the 2008 edition of the Compendium refers to gross operating surplus. However the 2008 System of National Accounts (2009: 325) makes clear that such treatment is inappropriate because gross operating surplus represents the contribution of capital to the generation of value added, and as such it constitutes a measure of capital income. In response this edition of the Compendium does not report the “operating profit” series from gross operating surplus.
- **Streamlining information.** The 2008 edition of the Compendium contained 39 indicators the number of which retards or compromises the assimilation of reported information. The majority of the reported indicators in that edition involved the same indicators appearing in different representations. This Compendium edition cuts out the repetitions in the 2008 edition, giving clearer representation of the reported indicators.

With the aforementioned amendments in place the data are presented next in hard copy. For easier use and viewing, the Compendium is accompanied by a soft copy of the data.

Section 1: Ownership composition

Table 1.1: Enterprise control by private sector, 2003-2010

Table 1.2: Enterprise control by public sector, 2003-2010

Table 1.3: Mixed control of enterprises, 2003-2010

Table 1.1: Enterprise control by private sector, 2003-2010

Industry	ISIC code	Private sector enterprises as proportion of all enterprises (percentage)			
		2003	2004	2005	2006
Printing and publishing	342	100,00	96,08	96,23	97,14
Industrial chemicals	351	99,04	98,91	99,25	98,81
Other chemicals	352	100,00	100,00	100,00	98,58
Petroleum and related products	353/4	100,00	100,00	93,75	97,83
Plastic products	356	100,00	100,00	100,00	98,04
Iron and steel	371	98,72	99,07	97,12	99,11
Non-ferrous metals	372	100,00	100,00	100,00	98,25
Non-electrical machinery	382	98,23	98,17	99,01	99,17
Electrical machinery	383	98,21	98,80	98,25	98,25
Transport equipment	384	99,42	97,55	97,38	97,19
Professional and scientific equipment	385	98,15	98,11	100,00	96,60
R&D intensive industries		99,25	98,79	98,27	98,09
Food products	311/2	97,99	99,14	99,59	98,50
Beverages	313	90,00	98,44	97,10	97,06
Tobacco	314	100,00	92,31	100,00	92,31
Textiles	321	100,00	100,00	100,00	98,66
Wearing apparel, except footwear	322	97,37	100,00	98,61	99,15
Leather and fur products	323	98,04	98,36	100,00	96,00
Footwear, except rubber or plastic	324	100,00	100,00	100,00	100,00
Wood products, except furniture	331	100,00	100,00	99,15	96,91
Furniture and fixtures, excluding metal	332	96,43	100,00	97,33	99,32
Paper and products	341	91,53	93,75	92,86	100,00
Rubber products	355	97,75	100,00	99,04	97,67
Non-metallic mineral products	361/9	96,36	96,67	98,55	98,50
Glass and products	362	96,24	98,90	96,77	100,00
Fabricated metal products	381	99,35	98,80	96,49	96,95
Other manufacturing industries	390	100,00	100,00	100,00	97,86
Non-R&D intensive industries		97,40	98,42	98,37	97,93
Manufacturing		98,33	98,61	98,32	98,01

Table 1.1: Enterprise control by private sector, 2003-2010 (concluded)

Industry	ISIC code	Private sector enterprises as proportion of all enterprises (percentage)			
		2007	2008	2009	2010
Printing and publishing	342	100,00	99,35	99,19	96,88
Industrial chemicals	351	98,90	100,00	99,13	99,02
Other chemicals	352	98,44	99,69	98,76	99,12
Petroleum and related products	353/4	97,87	98,48	98,00	98,23
Plastic products	356	99,15	100,00	99,09	100,00
Iron and steel	371	99,08	99,38	99,16	98,99
Non-ferrous metals	372	98,21	98,73	98,34	98,52
Non-electrical machinery	382	98,17	99,47	98,70	99,42
Electrical machinery	383	99,28	100,00	99,21	99,13
Transport equipment	384	99,26	99,78	98,91	100,00
Professional and scientific equipment	385	98,25	100,00	98,27	100,00
R&D intensive industries		98,78	99,54	98,80	99,03
Food products	311/2	97,14	99,22	97,93	100,00
Beverages	313	100,00	98,40	98,96	97,62
Tobacco	314	100,00	95,85	97,28	100,00
Textiles	321	98,90	100,00	99,10	100,00
Wearing apparel, except footwear	322	100,00	99,31	99,65	99,54
Leather and fur products	323	100,00	100,00	99,08	100,00
Footwear, except rubber or plastic	324	97,44	100,00	98,62	100,00
Wood products, except furniture	331	100,00	100,00	99,29	100,00
Furniture and fixtures, excluding metal	332	98,77	99,43	99,05	100,00
Paper and products	341	100,00	99,40	99,86	100,00
Rubber products	355	100,00	100,00	99,47	100,00
Non-metallic mineral products	361/9	97,22	99,66	98,08	100,00
Glass and products	362	100,00	99,26	99,83	100,00
Fabricated metal products	381	97,31	99,64	97,76	100,00
Other manufacturing industries	390	94,78	99,25	96,51	100,00
Non-R&D intensive industries		98,77	99,29	98,70	99,81
Manufacturing		98,78	99,41	98,75	99,42

Table 1.2: Enterprise control by public sector, 2003-2010

Industry	ISIC code	Public sector enterprises as proportion of all enterprises (percentage)			
		2003	2004	2005	2006
Printing and publishing	342	0,00	1,96	1,89	0,00
Industrial chemicals	351	0,00	0,00	0,00	1,19
Other chemicals	352	0,00	0,00	0,00	0,00
Petroleum and related products	353/4	0,00	0,00	0,00	0,00
Plastic products	356	0,00	0,00	0,00	1,96
Iron and steel	371	0,00	0,00	0,96	0,89
Non-ferrous metals	372	0,00	0,00	0,00	0,00
Non-electrical machinery	382	1,77	0,00	0,00	0,00
Electrical machinery	383	1,34	0,60	0,00	0,58
Transport equipment	384	0,00	0,00	0,00	1,05
Professional and scientific equipment	385	0,00	0,00	0,00	0,00
R&D intensive industries		0,28	0,23	0,26	0,52
Food products	311/2	2,01	0,00	0,00	0,75
Beverages	313	2,50	0,00	2,90	1,47
Tobacco	314	0,00	0,00	0,00	0,00
Textiles	321	0,00	0,00	0,00	0,00
Wearing apparel, except footwear	322	0,00	0,00	0,00	0,00
Leather and fur products	323	0,00	0,00	0,00	0,00
Footwear, except rubber or plastic	324	0,00	0,00	0,00	0,00
Wood products, except furniture	331	0,00	0,00	0,00	0,00
Furniture and fixtures, excluding metal	332	0,89	0,00	0,00	0,00
Paper and products	341	3,39	0,00	0,00	0,00
Rubber products	355	2,25	0,00	0,96	2,33
Non-metallic mineral products	361/9	1,82	1,67	0,00	0,00
Glass and products	362	1,50	0,00	0,00	0,00
Fabricated metal products	381	0,00	0,00	0,58	1,53
Other manufacturing industries	390	0,00	0,00	0,00	0,00
Non-R&D intensive industries		0,96	0,11	0,30	0,40
Manufacturing		0,62	0,17	0,28	0,46

Table 1.2: Enterprise control by public sector, 2003-2010 (concluded)

		<i>Public sector enterprises as proportion of all enterprises (percentage)</i>			
Industry	ISIC code	2007	2008	2009	2010
Printing and publishing	342	0,00	0,00	0,00	3,13
Industrial chemicals	351	1,10	0,00	0,87	0,00
Other chemicals	352	0,00	0,00	0,00	0,00
Petroleum and related products	353/4	0,00	0,00	0,00	0,00
Plastic products	356	0,85	0,00	0,91	0,00
Iron and steel	371	0,92	0,00	0,70	0,00
Non-ferrous metals	372	0,00	1,27	0,29	0,00
Non-electrical machinery	382	0,00	0,00	0,00	0,58
Electrical machinery	383	0,00	0,00	0,13	0,87
Transport equipment	384	0,00	0,00	0,24	0,00
Professional and scientific equipment	385	0,00	0,00	0,00	0,00
R&D intensive industries		0,26	0,12	0,29	0,42
Food products	311/2	1,43	0,00	0,94	0,00
Beverages	313	0,00	0,00	0,34	0,00
Tobacco	314	0,00	0,00	0,00	0,00
Textiles	321	1,10	0,00	0,59	0,00
Wearing apparel, except footwear	322	0,00	0,00	0,00	0,00
Leather and fur products	323	0,00	0,00	0,00	0,00
Footwear, except rubber or plastic	324	2,56	0,00	1,38	0,00
Wood products, except furniture	331	0,00	0,00	0,00	0,00
Furniture and fixtures, excluding metal	332	0,00	0,00	0,00	0,00
Paper and products	341	0,00	0,00	0,00	0,00
Rubber products	355	0,00	0,00	0,53	0,00
Non-metallic mineral products	361/9	0,93	0,00	0,50	0,00
Glass and products	362	0,00	0,00	0,00	0,00
Fabricated metal products	381	0,00	0,00	0,35	0,00
Other manufacturing industries	390	0,75	0,00	0,40	0,00
Non-R&D intensive industries		0,45	0,00	0,34	0,00
Manufacturing		0,36	0,06	0,31	0,21

Table 1.3: Mixed control of enterprises, 2003-2010

Industry	ISIC code	<i>Mixed enterprises as proportion of all enterprises (percentage)</i>			
		2003	2004	2005	2006
Printing and publishing	342	0,00	1,96	1,89	2,86
Industrial chemicals	351	0,96	1,09	0,75	0,00
Other chemicals	352	0,00	0,00	0,00	1,42
Petroleum and related products	353/4	0,00	0,00	6,25	2,17
Plastic products	356	0,00	0,00	0,00	0,00
Iron and steel	371	1,28	0,93	1,92	0,00
Non-ferrous metals	372	0,00	0,00	0,00	1,75
Non-electrical machinery	382	0,00	1,83	0,99	0,83
Electrical machinery	383	0,45	0,60	1,75	1,17
Transport equipment	384	0,58	2,45	2,62	1,75
Professional and scientific equipment	385	1,85	1,89	0,00	3,40
R&D intensive industries		0,47	0,98	1,47	1,40
Food products	311/2	0,00	0,86	0,41	0,75
Beverages	313	7,50	1,56	0,00	1,47
Tobacco	314	0,00	7,69	0,00	7,69
Textiles	321	0,00	0,00	0,00	1,34
Wearing apparel, except footwear	322	2,63	0,00	1,39	0,85
Leather and fur products	323	1,96	1,64	0,00	4,00
Footwear, except rubber or plastic	324	0,00	0,00	0,00	0,00
Wood products, except furniture	331	0,00	0,00	0,85	3,09
Furniture and fixtures, excluding metal	332	2,68	0,00	2,67	0,68
Paper and products	341	5,08	6,25	7,14	0,00
Rubber products	355	0,00	0,00	0,00	0,00
Non-metallic mineral products	361/9	1,82	1,67	1,45	1,50
Glass and products	362	2,26	1,10	3,23	0,00
Fabricated metal products	381	0,65	1,20	2,92	1,53
Other manufacturing industries	390	0,00	0,00	0,00	2,14
Non-R&D intensive industries		1,64	1,46	1,34	1,67
Manufacturing		1,05	1,22	1,40	1,53

Table 1.3: Mixed control of enterprises, 2003-2010 (concluded)

Industry	ISIC code	<i>Mixed enterprises as proportion of all enterprises (percentage)</i>			
		2007	2008	2009	2010
Printing and publishing	342	0,00	0,65	0,81	0,00
Industrial chemicals	351	0,00	0,00	0,00	0,98
Other chemicals	352	1,56	0,31	1,24	0,88
Petroleum and related products	353/4	2,13	1,52	2,00	1,77
Plastic products	356	0,00	0,00	0,00	0,00
Iron and steel	371	0,00	0,62	0,14	1,01
Non-ferrous metals	372	1,79	0,00	1,37	1,48
Non-electrical machinery	382	1,83	0,53	1,30	0,00
Electrical machinery	383	0,72	0,00	0,66	0,00
Transport equipment	384	0,74	0,22	0,85	0,00
Professional and scientific equipment	385	1,75	0,00	1,73	0,00
R&D intensive industries		0,96	0,35	0,92	0,56
Food products	311/2	1,43	0,78	1,12	0,00
Beverages	313	0,00	1,60	0,71	2,38
Tobacco	314	0,00	4,15	2,72	0,00
Textiles	321	0,00	0,00	0,31	0,00
Wearing apparel, except footwear	322	0,00	0,69	0,35	0,46
Leather and fur products	323	0,00	0,00	0,92	0,00
Footwear, except rubber or plastic	324	0,00	0,00	0,00	0,00
Wood products, except furniture	331	0,00	0,00	0,71	0,00
Furniture and fixtures, excluding metal	332	1,23	0,57	0,95	0,00
Paper and products	341	0,00	0,60	0,14	0,00
Rubber products	355	0,00	0,00	0,00	0,00
Non-metallic mineral products	361/9	1,85	0,34	1,42	0,00
Glass and products	362	0,00	0,74	0,17	0,00
Fabricated metal products	381	2,69	0,36	1,89	0,00
Other manufacturing industries	390	4,48	0,75	3,08	0,00
Non-R&D intensive industries		0,78	0,71	0,97	0,19
Manufacturing		0,87	0,53	0,94	0,37

Section 2: Employment environment

Table 2.1: Changes in total employment, 2003-2010

Table 2.2: Changes in employment of information-type employees, 2003-2010

Table 2.3: Changes in employment of non-information type employees, 2003-2010

Table 2.4: Changes in employment of knowledge-based employees, 2003-2010

Table 2.5: Changes in employment of data-handling employees, 2003-2010

Table 2.6: Changes in employment of goods-producing employees, 2003-2010

Table 2.7: Changes in employment of services-producing employees, 2003-2010

Table 2.8: Changes in gross remuneration in real terms, 2003-2010

Table 2.1: Changes in total employment, 2003-2010

Industry	ISIC code	T.N.E.	<i>Total employment index (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	61 298	100,00	107,95	119,25	124,41
Industrial chemicals	351	8 242	100,00	121,21	141,91	152,46
Other chemicals	352	76 022	100,00	97,99	97,92	90,71
Petroleum and related products	353/4	33 378	100,00	109,78	119,83	116,61
Plastic products	356	51 164	100,00	101,43	104,04	98,00
Iron and steel	371	89 629	100,00	104,23	109,59	112,99
Non-ferrous metals	372	28 630	100,00	94,07	91,91	84,87
Non-electrical machinery	382	65 266	100,00	106,80	112,49	113,95
Electrical machinery	383	57 278	100,00	111,76	124,84	134,35
Transport equipment	384	90 184	100,00	117,64	138,66	149,49
Professional and scientific equipment	385	4 886	100,00	118,87	140,20	151,30
R&D intensive industries		565 979	100,00	108,34	118,24	120,83
Food products	311/2	186 566	100,00	110,47	112,84	107,38
Beverages	313	56 167	100,00	104,19	108,70	113,32
Tobacco	314	12 317	100,00	93,19	91,01	89,18
Textiles	321	90 763	100,00	104,26	102,82	98,63
Wearing apparel, except footwear	322	199 203	100,00	96,40	98,06	100,03
Leather and fur products	323	7 946	100,00	106,77	114,22	124,79
Footwear, except rubber or plastic	324	22 180	100,00	93,48	91,94	93,34
Wood products, except furniture	331	73 363	100,00	105,88	118,27	131,16
Furniture and fixtures, excluding metal	332	39 441	100,00	119,59	139,81	153,18
Paper and products	341	32 766	100,00	114,22	134,40	154,44
Rubber products	355	21 885	100,00	98,53	101,63	103,63
Non-metallic mineral products	361/9	79 880	100,00	112,51	123,09	133,46
Glass and products	362	19 866	100,00	94,17	96,81	105,71
Fabricated metal products	381	121 873	100,00	109,46	128,93	150,53
Other manufacturing industries	390	44 146	100,00	110,51	118,24	133,00
Non-R&D intensive industries		1 008 362	100,00	104,91	112,05	119,45
Manufacturing		1 574 341	100,00	106,62	115,15	120,14

Table 2.1: Changes in total employment, 2003-2010 (concluded)

Industry	ISIC code	Total employment index (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	129,70	131,85	123,34	113,64	1,61
Industrial chemicals	351	158,60	158,00	144,67	131,60	3,49
Other chemicals	352	85,94	85,43	75,71	65,78	-5,10
Petroleum and related products	353/4	105,56	95,71	86,80	79,98	-2,75
Plastic products	356	92,94	92,94	89,71	84,37	-2,10
Iron and steel	371	115,43	108,25	91,94	81,14	-2,58
Non-ferrous metals	372	73,73	64,03	57,07	52,82	-7,67
Non-electrical machinery	382	125,27	134,35	119,18	101,87	0,23
Electrical machinery	383	137,17	121,82	93,73	76,30	-3,32
Transport equipment	384	147,45	130,23	105,63	91,36	-1,12
Professional and scientific equipment	385	153,23	141,75	115,07	95,93	-0,52
R&D intensive industries		120,46	114,94	100,26	88,62	-1,50
Food products	311/2	107,24	110,49	99,53	89,36	-1,40
Beverages	313	125,11	132,20	111,30	93,75	-0,80
Tobacco	314	86,31	80,01	65,61	56,61	-6,86
Textiles	321	96,02	92,59	76,42	63,86	-5,45
Wearing apparel, except footwear	322	99,31	88,79	67,75	56,24	-6,94
Leather and fur products	323	143,44	161,15	159,52	153,78	5,53
Footwear, except rubber or plastic	324	102,32	109,39	91,95	76,54	-3,29
Wood products, except furniture	331	139,95	135,37	107,83	89,19	-1,42
Furniture and fixtures, excluding metal	332	155,08	136,64	100,41	81,26	-2,56
Paper and products	341	172,68	170,79	139,60	120,43	2,35
Rubber products	355	110,52	112,41	86,17	66,10	-5,04
Non-metallic mineral products	361/9	144,13	137,18	106,75	87,86	-1,60
Glass and products	362	114,07	109,26	86,04	71,68	-4,08
Fabricated metal products	381	164,68	157,05	121,90	100,03	0,00
Other manufacturing industries	390	161,05	172,90	145,88	123,55	2,68
Non-R&D intensive industries		128,13	127,08	104,44	88,68	-1,49
Manufacturing		124,29	121,01	102,35	88,65	-1,49

Table 2.2: Changes in employment of information-type employees, 2003-2010

Industry	ISIC code	N.I.E.	<i>Employment index for information-type employees (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	24 471	100,00	99,49	122,89	123,94
Industrial chemicals	351	3 698	100,00	122,63	174,79	136,33
Other chemicals	352	36 842	100,00	126,49	94,70	73,31
Petroleum and related products	353/4	12 238	100,00	158,09	104,19	128,42
Plastic products	356	20 335	100,00	63,84	39,03	48,59
Iron and steel	371	22 088	100,00	117,73	95,05	119,30
Non-ferrous metals	372	6 969	100,00	109,00	99,41	103,69
Non-electrical machinery	382	35 765	100,00	99,89	84,03	88,94
Electrical machinery	383	26 050	100,00	81,11	97,56	110,91
Transport equipment	384	30 384	100,00	111,74	134,21	147,37
Professional and scientific equipment	385	1 971	100,00	152,10	122,83	184,49
R&D intensive industries		220 812	100,00	112,92	106,24	115,03
Food products	311/2	41 459	100,00	111,29	112,68	112,98
Beverages	313	14 893	100,00	98,34	102,95	108,07
Tobacco	314	9 654	100,00	47,95	40,53	6,11
Textiles	321	14 052	100,00	101,22	109,84	73,06
Wearing apparel, except footwear	322	29 655	100,00	58,15	75,66	65,13
Leather and fur products	323	2 318	100,00	37,29	48,54	73,99
Footwear, except rubber or plastic	324	3 735	100,00	86,67	47,88	40,01
Wood products, except furniture	331	5 061	100,00	145,41	140,10	157,13
Furniture and fixtures, excluding metal	332	13 294	100,00	67,38	50,61	65,32
Paper and products	341	7 406	100,00	128,65	133,38	179,94
Rubber products	355	9 032	100,00	87,60	95,26	89,65
Non-metallic mineral products	361/9	12 281	100,00	115,66	149,09	136,07
Glass and products	362	9 707	100,00	24,04	67,80	90,59
Fabricated metal products	381	22 835	100,00	111,54	108,11	170,49
Other manufacturing industries	390	11 911	100,00	118,68	83,64	107,10
Non-R&D intensive industries		207 294	100,00	89,32	91,07	98,38
Manufacturing		428 106	100,00	101,12	98,66	106,70

Table 2.2: Changes in employment of information-type employees, 2003-2010 (concluded)

Industry	ISIC code	<i>Employment index for information type employees (2003=100)</i>					r
		2007	2008	2009	2010		
Printing and publishing	342	139,00	130,44	110,59	120,85	2,40	
Industrial chemicals	351	184,32	159,14	153,07	156,63	5,77	
Other chemicals	352	68,88	80,96	70,36	69,22	-4,49	
Petroleum and related products	353/4	107,20	116,04	110,38	96,12	-0,49	
Plastic products	356	64,11	48,59	43,64	46,07	-9,23	
Iron and steel	371	87,08	78,37	68,70	85,75	-1,90	
Non-ferrous metals	372	66,97	82,91	69,48	47,97	-8,77	
Non-electrical machinery	382	96,51	101,06	104,52	109,46	1,14	
Electrical machinery	383	136,88	104,72	100,62	87,63	-1,64	
Transport equipment	384	131,84	125,58	104,17	84,58	-2,07	
Professional and scientific equipment	385	169,79	192,16	145,50	155,14	5,64	
R&D intensive industries		113,87	110,91	98,28	96,31	-0,47	
Food products	311/2	112,91	137,95	113,51	107,36	0,89	
Beverages	313	103,21	124,07	114,18	98,91	-0,14	
Tobacco	314	91,47	23,78	60,52	17,29	-19,70	
Textiles	321	107,40	107,72	73,31	74,97	-3,54	
Wearing apparel, except footwear	322	86,77	86,70	63,51	56,67	-6,85	
Leather and fur products	323	76,93	146,62	185,03	104,79	0,59	
Footwear, except rubber or plastic	324	79,44	72,19	72,97	45,54	-9,36	
Wood products, except furniture	331	200,13	174,48	149,90	108,38	1,01	
Furniture and fixtures, excluding metal	332	81,35	87,10	53,94	63,96	-5,43	
Paper and products	341	249,22	223,58	178,63	145,38	4,79	
Rubber products	355	67,08	99,41	89,33	47,32	-8,93	
Non-metallic mineral products	361/9	150,89	148,37	121,51	98,05	-0,25	
Glass and products	362	48,50	75,86	65,94	54,90	-7,22	
Fabricated metal products	381	165,47	159,53	129,55	106,54	0,80	
Other manufacturing industries	390	73,99	138,38	139,51	116,24	1,90	
Non-R&D intensive industries		112,98	120,38	107,42	83,09	-2,29	
Manufacturing		113,43	115,64	102,85	89,70	-1,35	

Table 2.3: Changes in employment of non-information type employees, 2003-2010

Industry	ISIC code	N.N.I.E.	<i>Employment index for non-information type employees (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	36 827	100,00	116,42	115,62	124,89
Industrial chemicals	351	4 545	100,00	119,79	109,03	168,59
Other chemicals	352	39 180	100,00	69,48	101,15	108,10
Petroleum and related products	353/4	21 140	100,00	61,48	135,47	104,80
Plastic products	356	30 830	100,00	139,02	169,05	147,40
Iron and steel	371	67 541	100,00	90,74	124,13	106,68
Non-ferrous metals	372	21 661	100,00	79,14	84,42	66,05
Non-electrical machinery	382	29 501	100,00	113,71	140,95	138,95
Electrical machinery	383	31 228	100,00	142,40	152,11	157,80
Transport equipment	384	59 799	100,00	123,54	143,12	151,60
Professional and scientific equipment	385	2 916	100,00	85,65	157,57	118,12
R&D intensive industries		345 167	100,00	103,76	130,24	126,63
Food products	311/2	145 107	100,00	109,64	112,99	101,77
Beverages	313	41 274	100,00	110,05	114,46	118,58
Tobacco	314	2 663	100,00	138,44	141,49	172,25
Textiles	321	76 710	100,00	107,29	95,79	124,19
Wearing apparel, except footwear	322	169 548	100,00	134,65	120,45	134,93
Leather and fur products	323	5 628	100,00	176,26	179,89	175,58
Footwear, except rubber or plastic	324	18 445	100,00	100,30	135,99	146,67
Wood products, except furniture	331	68 301	100,00	66,35	96,43	105,18
Furniture and fixtures, excluding metal	332	26 148	100,00	171,79	229,01	241,04
Paper and products	341	25 360	100,00	99,79	135,42	128,94
Rubber products	355	12 853	100,00	109,45	108,00	117,60
Non-metallic mineral products	361/9	67 601	100,00	109,37	97,10	130,85
Glass and products	362	10 159	100,00	164,30	125,83	120,84
Fabricated metal products	381	99 038	100,00	107,38	149,76	130,57
Other manufacturing industries	390	32 236	100,00	102,34	152,84	158,90
Non-R&D intensive industries		801 071	100,00	120,49	133,03	140,53
Manufacturing		1 146 239	100,00	112,13	131,63	133,58

**Table 2.3: Changes in employment of non-information type employees, 2003-2010
(concluded)**

Industry	ISIC code	Employment index for non-information type employees (2003=100)					r
		2007	2008	2009	2010		
Printing and publishing	342	120,40	133,26	136,09	106,42	0,78	
Industrial chemicals	351	132,88	156,87	136,27	106,57	0,80	
Other chemicals	352	103,01	89,90	81,07	62,33	-5,74	
Petroleum and related products	353/4	103,92	75,38	63,23	63,85	-5,45	
Plastic products	356	121,76	137,29	135,78	122,67	2,59	
Iron and steel	371	143,79	138,12	115,19	76,52	-3,29	
Non-ferrous metals	372	80,49	45,14	44,66	57,68	-6,65	
Non-electrical machinery	382	154,03	167,63	133,84	94,28	-0,73	
Electrical machinery	383	137,45	138,91	86,84	64,97	-5,25	
Transport equipment	384	163,07	134,87	107,08	98,14	-0,24	
Professional and scientific equipment	385	136,68	91,34	84,64	36,73	-11,77	
R&D intensive industries		127,04	118,97	102,24	80,92	-2,61	
Food products	311/2	101,58	83,03	85,55	71,35	-4,13	
Beverages	313	147,01	140,34	108,42	88,59	-1,50	
Tobacco	314	81,15	136,23	70,70	95,94	-0,52	
Textiles	321	84,65	77,47	79,54	52,74	-7,69	
Wearing apparel, except footwear	322	111,85	90,88	71,99	55,81	-7,03	
Leather and fur products	323	209,95	175,68	134,00	202,76	9,24	
Footwear, except rubber or plastic	324	125,20	146,59	110,94	107,54	0,91	
Wood products, except furniture	331	79,77	96,27	65,77	70,00	-4,36	
Furniture and fixtures, excluding metal	332	228,81	186,18	146,88	98,56	-0,18	
Paper and products	341	96,15	118,00	100,57	95,49	-0,57	
Rubber products	355	153,95	125,41	83,01	84,87	-2,03	
Non-metallic mineral products	361/9	137,37	126,00	91,99	77,66	-3,11	
Glass and products	362	179,64	142,65	106,13	88,45	-1,52	
Fabricated metal products	381	163,89	154,58	114,25	93,52	-0,83	
Other manufacturing industries	390	248,12	207,42	152,25	130,86	3,42	
Non-R&D intensive industries		143,27	133,78	101,47	94,28	-0,73	
Manufacturing		135,16	126,38	101,85	87,60	-1,64	

Table 2.4: Changes in employment of knowledge-based employees, 2003-2010

Industry	ISIC code	N.K.E.	<i>Employment index for knowledge-based employees (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	9 073	100,00	109,63	129,70	134,44
Industrial chemicals	351	2 069	100,00	120,08	195,11	136,07
Other chemicals	352	17 360	100,00	134,16	68,65	52,12
Petroleum and related products	353/4	6 469	100,00	135,79	66,25	75,30
Plastic products	356	10 791	100,00	70,30	28,04	21,12
Iron and steel	371	6 542	100,00	155,19	146,99	162,23
Non-ferrous metals	372	3 150	100,00	125,89	69,18	83,43
Non-electrical machinery	382	11 005	100,00	116,56	116,85	110,54
Electrical machinery	383	10 975	100,00	63,47	45,10	83,79
Transport equipment	384	9 836	100,00	114,67	177,12	220,82
Professional and scientific equipment	385	455	100,00	185,72	162,01	114,92
R&D intensive industries		87 723	100,00	121,04	109,54	108,62
Food products	311/2	15 538	100,00	108,62	106,41	110,60
Beverages	313	4 240	100,00	71,93	118,14	167,49
Tobacco	314	4 191	100,00	54,53	63,30	24,51
Textiles	321	3 375	100,00	122,31	158,88	86,06
Wearing apparel, except footwear	322	10 242	100,00	55,68	80,78	55,14
Leather and fur products	323	814	100,00	106,78	122,37	113,69
Footwear, except rubber or plastic	324	1 447	100,00	117,47	82,60	82,44
Wood products, except furniture	331	1 618	100,00	229,67	153,58	207,57
Furniture and fixtures, excluding metal	332	4 682	100,00	94,43	65,38	114,62
Paper and products	341	4 836	100,00	49,76	65,08	82,50
Rubber products	355	4 504	100,00	80,29	86,76	83,23
Non-metallic mineral products	361/9	6 092	100,00	143,13	158,70	103,33
Glass and products	362	5 819	100,00	22,75	62,93	50,43
Fabricated metal products	381	7 749	100,00	150,47	113,42	228,21
Other manufacturing industries	390	2 698	100,00	179,27	130,49	155,70
Non-R&D intensive industries		77 844	100,00	105,81	104,59	111,04
Manufacturing		165 568	100,00	113,42	107,07	109,83

Table 2.4: Changes in employment of knowledge-based employees, 2003-2010 (concluded)

Industry	ISIC code	Employment index for knowledge-based employees (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	207,77	168,90	172,85	211,92	9,84
Industrial chemicals	351	145,35	124,00	75,94	102,64	0,33
Other chemicals	352	43,91	71,63	56,78	64,81	-5,28
Petroleum and related products	353/4	81,83	137,70	108,40	84,88	-2,03
Plastic products	356	51,95	32,61	29,71	54,40	-7,33
Iron and steel	371	134,20	80,81	51,67	91,56	-1,10
Non-ferrous metals	372	63,27	58,89	41,60	22,85	-16,85
Non-electrical machinery	382	134,23	158,86	151,43	137,93	4,10
Electrical machinery	383	209,16	157,59	148,81	70,45	-4,28
Transport equipment	384	185,62	149,64	124,10	91,16	-1,15
Professional and scientific equipment	385	205,19	127,94	175,48	179,15	7,56
R&D intensive industries		132,95	115,32	103,34	101,07	0,13
Food products	311/2	74,55	130,42	72,47	88,24	-1,55
Beverages	313	96,33	148,36	136,08	126,41	2,97
Tobacco	314	94,93	54,15	34,87	43,73	-9,82
Textiles	321	130,05	159,24	130,87	129,06	3,24
Wearing apparel, except footwear	322	99,16	89,46	39,13	67,96	-4,71
Leather and fur products	323	131,16	122,51	151,94	98,50	-0,19
Footwear, except rubber or plastic	324	100,35	76,66	41,33	36,38	-11,87
Wood products, except furniture	331	239,04	226,41	224,61	156,32	5,74
Furniture and fixtures, excluding metal	332	73,20	82,12	68,67	91,58	-1,09
Paper and products	341	145,72	138,03	85,30	51,60	-7,94
Rubber products	355	47,26	112,13	129,92	55,49	-7,10
Non-metallic mineral products	361/9	225,17	180,00	159,01	159,92	6,04
Glass and products	362	46,79	48,94	41,25	37,28	-11,60
Fabricated metal products	381	238,18	214,25	149,65	138,97	4,20
Other manufacturing industries	390	101,26	200,34	101,70	204,22	9,34
Non-R&D intensive industries		122,88	132,20	104,45	99,04	-0,12
Manufacturing		127,91	123,76	103,90	100,06	0,01

Table 2.5: Changes in employment of data-handling employees, 2003-2010

Industry	ISIC code	N.D.E.	<i>Employment index for data-handling employees (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	15 398	100,00	92,87	114,21	122,44
Industrial chemicals	351	1 629	100,00	121,98	147,39	126,65
Other chemicals	352	19 482	100,00	114,55	117,89	91,68
Petroleum and related products	353/4	5 770	100,00	159,52	116,89	177,92
Plastic products	356	9 544	100,00	60,83	58,33	86,60
Iron and steel	371	15 546	100,00	90,67	61,77	89,82
Non-ferrous metals	372	3 819	100,00	94,33	126,91	122,50
Non-electrical machinery	382	24 761	100,00	80,32	63,59	70,32
Electrical machinery	383	15 075	100,00	96,67	147,48	137,88
Transport equipment	384	20 550	100,00	106,57	105,12	102,85
Professional and scientific equipment	385	1 516	100,00	95,56	103,77	263,21
R&D intensive industries		133 089	100,00	101,26	105,76	126,53
Food products	311/2	25 921	100,00	106,88	111,06	108,13
Beverages	313	10 654	100,00	118,83	96,63	67,64
Tobacco	314	5 463	100,00	40,58	28,15	0,00
Textiles	321	10 678	100,00	87,26	76,93	64,29
Wearing apparel, except footwear	322	19 413	100,00	59,31	74,03	73,35
Leather and fur products	323	2 318	100,00	21,04	39,93	58,30
Footwear, except rubber or plastic	324	2 288	100,00	56,97	62,82	50,13
Wood products, except furniture	331	3 443	100,00	68,74	120,07	120,82
Furniture and fixtures, excluding metal	332	6 412	100,00	73,54	66,97	60,00
Paper and products	341	2 570	100,00	229,73	220,38	300,39
Rubber products	355	4 528	100,00	90,58	99,11	94,84
Non-metallic mineral products	361/9	6 189	100,00	93,39	149,09	181,69
Glass and products	362	3 888	100,00	25,84	78,01	140,40
Fabricated metal products	381	15 086	100,00	91,56	107,83	124,13
Other manufacturing industries	390	9 214	100,00	76,99	64,32	87,90
Non-R&D intensive industries		128 064	100,00	82,75	93,02	102,13
Manufacturing		261 153	100,00	92,00	99,39	114,33

Table 2.5: Changes in employment of data-handling employees, 2003-2010 (concluded)

Industry	ISIC code	<i>Employment index for data- handling employees (2003=100)</i>					r
		2007	2008	2009	2010		
Printing and publishing	342	87,77	110,63	73,57	61,90	-5,82	
Industrial chemicals	351	222,43	169,54	203,07	189,29	8,30	
Other chemicals	352	91,78	81,91	75,63	67,85	-4,73	
Petroleum and related products	353/4	115,91	80,50	105,03	92,30	-1,00	
Plastic products	356	83,92	76,69	70,67	55,15	-7,17	
Iron and steel	371	58,54	65,51	69,68	72,08	-4,01	
Non-ferrous metals	372	99,45	100,31	91,27	65,76	-5,11	
Non-electrical machinery	382	59,44	63,12	77,27	85,93	-1,88	
Electrical machinery	383	80,61	82,03	76,09	99,49	-0,06	
Transport equipment	384	100,94	117,58	93,33	76,29	-3,33	
Professional and scientific equipment	385	150,84	198,44	103,39	103,29	0,41	
R&D intensive industries		104,69	104,21	94,45	88,12	-1,57	
Food products	311/2	136,30	134,92	141,13	119,24	2,22	
Beverages	313	101,28	115,68	101,32	79,75	-2,79	
Tobacco	314	74,38	63,54	77,34	39,44	-10,98	
Textiles	321	90,58	75,64	42,87	41,82	-10,33	
Wearing apparel, except footwear	322	79,29	80,15	73,63	44,61	-9,60	
Leather and fur products	323	59,82	120,33	104,32	67,28	-4,83	
Footwear, except rubber or plastic	324	52,26	77,73	110,70	62,21	-5,76	
Wood products, except furniture	331	169,51	126,36	80,95	68,16	-4,68	
Furniture and fixtures, excluding metal	332	112,49	112,82	48,19	54,16	-7,38	
Paper and products	341	364,09	323,76	294,14	263,60	12,88	
Rubber products	355	82,01	67,75	39,72	31,37	-13,49	
Non-metallic mineral products	361/9	90,35	148,58	103,89	63,21	-5,57	
Glass and products	362	93,12	120,85	103,04	79,99	-2,75	
Fabricated metal products	381	110,15	115,05	112,15	77,06	-3,20	
Other manufacturing industries	390	71,48	72,87	111,36	42,69	-10,09	
Non-R&D intensive industries		112,48	117,07	102,98	75,64	-3,43	
Manufacturing		108,58	110,64	98,72	81,88	-2,47	

Table 2.6: Changes in employment of goods-producing employees, 2003-2010

Industry	ISIC code	N.G.E.	<i>Employment index for goods-producing employees (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	14 624	100,00	108,41	134,46	84,10
Industrial chemicals	351	2 642	100,00	101,27	88,10	109,58
Other chemicals	352	21 643	100,00	38,09	88,80	92,30
Petroleum and related products	353/4	14 134	100,00	28,15	62,02	89,77
Plastic products	356	17 954	100,00	107,61	182,34	153,26
Iron and steel	371	34 692	100,00	80,11	101,45	83,12
Non-ferrous metals	372	10 357	100,00	59,25	89,43	66,74
Non-electrical machinery	382	8 667	100,00	144,07	139,47	160,32
Electrical machinery	383	11 559	100,00	141,27	120,34	140,01
Transport equipment	384	22 292	100,00	146,46	147,19	122,63
Professional and scientific equipment	385	749	100,00	162,02	141,60	45,59
R&D intensive industries		159 311	100,00	101,52	117,75	104,31
Food products	311/2	39 256	100,00	128,46	132,87	120,35
Beverages	313	13 404	100,00	98,63	97,98	119,56
Tobacco	314	866	100,00	150,74	92,68	193,53
Textiles	321	41 723	100,00	77,38	48,18	77,62
Wearing apparel, except footwear	322	77 916	100,00	114,57	83,48	97,21
Leather and fur products	323	1 673	100,00	174,01	130,13	225,73
Footwear, except rubber or plastic	324	6 242	100,00	120,46	116,96	90,71
Wood products, except furniture	331	13 996	100,00	75,64	116,12	95,86
Furniture and fixtures, excluding metal	332	6 718	100,00	103,99	137,58	143,62
Paper and products	341	15 409	100,00	81,02	116,78	98,23
Rubber products	355	8 196	100,00	93,97	92,40	113,14
Non-metallic mineral products	361/9	18 662	100,00	81,82	78,21	99,02
Glass and products	362	3 210	100,00	164,26	109,99	117,86
Fabricated metal products	381	24 455	100,00	79,16	137,84	130,38
Other manufacturing industries	390	5 534	100,00	107,30	137,02	137,14
Non-R&D intensive industries		277 258	100,00	110,09	108,55	124,00
Manufacturing		436 569	100,00	105,81	113,15	114,15

Table 2.6: Changes in employment of goods-producing employees, 2003-2010 (concluded)

Industry	ISIC code	Employment index for goods- producing employees (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	97,43	124,22	149,04	111,83	1,41
Industrial chemicals	351	108,43	152,86	206,59	95,44	-0,58
Other chemicals	352	98,99	78,34	74,83	62,50	-5,71
Petroleum and related products	353/4	60,80	36,82	43,47	25,39	-15,75
Plastic products	356	110,17	120,46	143,52	129,94	3,33
Iron and steel	371	104,04	110,87	111,19	72,27	-3,98
Non-ferrous metals	372	79,80	58,26	53,20	73,78	-3,73
Non-electrical machinery	382	210,80	191,98	134,13	110,64	1,27
Electrical machinery	383	115,16	99,94	59,51	72,43	-3,95
Transport equipment	384	139,62	118,36	111,28	132,12	3,54
Professional and scientific equipment	385	122,09	156,73	100,93	81,48	-2,53
R&D intensive industries		113,39	113,53	107,97	87,98	-1,59
Food products	311/2	124,41	102,77	103,63	81,52	-2,52
Beverages	313	177,57	124,56	109,48	93,12	-0,89
Tobacco	314	128,18	128,02	109,14	96,31	-0,47
Textiles	321	49,03	52,37	57,49	30,07	-13,95
Wearing apparel, except footwear	322	88,76	93,68	93,69	65,86	-5,09
Leather and fur products	323	260,74	257,67	276,63	323,82	15,82
Footwear, except rubber or plastic	324	179,75	198,79	137,22	132,48	3,58
Wood products, except furniture	331	74,26	99,02	72,36	69,18	-4,50
Furniture and fixtures, excluding metal	332	201,30	163,99	170,38	90,70	-1,21
Paper and products	341	67,21	95,91	98,28	92,52	-0,97
Rubber products	355	127,50	125,26	87,30	101,60	0,20
Non-metallic mineral products	361/9	109,42	86,28	76,35	47,79	-8,82
Glass and products	362	202,00	142,54	112,80	99,37	-0,08
Fabricated metal products	381	161,27	144,70	104,33	94,27	-0,73
Other manufacturing industries	390	205,00	200,29	204,69	125,79	2,91
Non-R&D intensive industries		143,76	134,39	120,92	102,96	0,37
Manufacturing		128,58	123,96	114,44	95,47	-0,58

Table 2.7: Changes in employment of services-producing employees, 2003-2010

Industry	ISIC code	N.S.E.	<i>Employment index for services-producing employees (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	22 204	100,00	120,91	98,63	156,68
Industrial chemicals	351	1 903	100,00	141,52	137,06	237,52
Other chemicals	352	17 538	100,00	105,14	116,36	126,72
Petroleum and related products	353/4	7 006	100,00	115,68	234,17	123,46
Plastic products	356	12 876	100,00	166,96	147,46	131,02
Iron and steel	371	32 850	100,00	90,97	128,15	116,78
Non-ferrous metals	372	11 304	100,00	96,80	82,13	66,81
Non-electrical machinery	382	20 834	100,00	86,24	130,07	114,61
Electrical machinery	383	19 669	100,00	145,61	186,42	175,74
Transport equipment	384	37 507	100,00	102,86	125,22	151,65
Professional and scientific equipment	385	2 167	100,00	32,20	153,41	181,49
R&D intensive industries		185 856	100,00	109,54	139,92	143,86
Food products	311/2	105 852	100,00	97,91	101,00	90,43
Beverages	313	27 870	100,00	127,38	122,06	98,61
Tobacco	314	1 797	100,00	126,92	179,90	138,67
Textiles	321	34 988	100,00	130,07	127,27	166,53
Wearing apparel, except footwear	322	91 632	100,00	156,03	153,93	174,42
Leather and fur products	323	3 142	100,00	125,26	164,42	101,41
Footwear, except rubber or plastic	324	12 203	100,00	79,03	105,37	150,07
Wood products, except furniture	331	54 305	100,00	49,48	83,29	100,37
Furniture and fixtures, excluding metal	332	21 630	100,00	206,39	289,31	294,49
Paper and products	341	9 951	100,00	96,37	135,35	136,65
Rubber products	355	4 657	100,00	129,26	128,25	123,29
Non-metallic mineral products	361/9	48 939	100,00	131,71	106,37	149,80
Glass and products	362	6 950	100,00	163,83	136,33	114,16
Fabricated metal products	381	74 584	100,00	116,65	156,65	119,41
Other manufacturing industries	390	26 702	100,00	78,50	141,13	151,26
Non-R&D intensive industries		525 200	100,00	120,99	142,04	140,64
Manufacturing		711 057	100,00	115,26	140,98	142,25

Table 2.7: Changes in employment of services-producing employees, 2003-2010 (concluded)

Industry	ISIC code	Employment index for services- producing employees (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	125,85	123,64	97,89	68,90	-4,55
Industrial chemicals	351	158,18	185,61	93,08	139,04	4,21
Other chemicals	352	109,10	109,82	95,62	67,94	-4,72
Petroleum and related products	353/4	163,70	127,83	90,31	117,36	2,02
Plastic products	356	125,70	141,99	114,94	97,99	-0,25
Iron and steel	371	164,95	175,79	135,23	88,64	-1,50
Non-ferrous metals	372	52,41	38,65	42,21	48,92	-8,55
Non-electrical machinery	382	96,61	123,43	113,90	72,98	-3,86
Electrical machinery	383	143,74	147,70	90,51	62,83	-5,64
Transport equipment	384	163,63	135,32	93,81	65,87	-5,08
Professional and scientific equipment	385	134,80	83,89	80,46	19,82	-18,32
R&D intensive industries		130,79	126,70	95,27	77,30	-3,17
Food products	311/2	93,72	73,85	80,91	68,43	-4,63
Beverages	313	125,27	140,21	98,32	75,72	-3,42
Tobacco	314	47,75	74,32	41,08	46,98	-9,01
Textiles	321	114,44	83,11	74,46	54,48	-7,31
Wearing apparel, except footwear	322	130,01	91,87	64,56	46,52	-9,12
Leather and fur products	323	122,04	144,09	105,18	125,52	2,88
Footwear, except rubber or plastic	324	76,92	84,37	78,56	75,09	-3,52
Wood products, except furniture	331	76,98	89,70	53,41	63,11	-5,59
Furniture and fixtures, excluding metal	332	233,33	187,63	114,41	88,61	-1,50
Paper and products	341	113,71	125,45	80,70	74,02	-3,69
Rubber products	355	185,30	144,49	87,75	75,92	-3,38
Non-metallic mineral products	361/9	151,59	133,87	87,75	80,52	-2,67
Glass and products	362	114,38	124,70	87,06	70,08	-4,35
Fabricated metal products	381	149,13	154,20	121,47	89,84	-1,33
Other manufacturing industries	390	266,47	218,10	165,75	121,50	2,46
Non-R&D intensive industries		133,40	124,66	89,42	77,09	-3,20
Manufacturing		132,09	125,68	92,35	77,19	-3,18

Table 2.8: Changes in gross remuneration in real terms, 2003-2010

Industry	ISIC code	G.R.	Index of gross remuneration in real terms (2003=100)			
			2003	2004	2005	2006
Printing and publishing	342	5 722	100,00	103,50	100,80	94,84
Industrial chemicals	351	4 457	100,00	122,87	122,34	125,76
Other chemicals	352	7 986	100,00	92,03	77,16	66,70
Petroleum and related products	353/4	1 605	100,00	108,63	110,39	119,28
Plastic products	356	5 644	100,00	94,57	84,76	65,29
Iron and steel	371	5 082	100,00	119,47	129,34	126,79
Non-ferrous metals	372	1 579	100,00	94,58	102,79	106,55
Non-electrical machinery	382	6 897	100,00	102,05	107,05	71,74
Electrical machinery	383	1 168	100,00	93,65	97,49	100,66
Transport equipment	384	11 768	100,00	119,72	121,41	151,49
Professional and scientific equipment	385	491	100,00	106,44	111,04	117,35
R&D intensive industries		52 399	100,00	105,23	105,87	104,22
Food products	311/2	11 504	100,00	111,69	124,21	123,47
Beverages	313	3 171	100,00	109,19	118,31	123,13
Tobacco	314	961	100,00	99,55	94,88	98,74
Textiles	321	2 450	100,00	102,69	96,17	147,61
Wearing apparel, except footwear	322	3 669	100,00	78,74	112,81	106,33
Leather and fur products	323	307	100,00	137,29	133,75	138,52
Footwear, except rubber or plastic	324	592	100,00	92,59	102,06	104,86
Wood products, except furniture	331	3 897	100,00	104,85	103,28	105,82
Furniture and fixtures, excluding metal	332	1 970	100,00	109,10	108,71	110,16
Paper and products	341	4 134	100,00	139,72	159,09	164,02
Rubber products	355	1 596	100,00	98,00	108,95	113,16
Non-metallic mineral products	361/9	1 893	100,00	106,27	116,19	79,26
Glass and products	362	874	100,00	111,27	133,23	99,61
Fabricated metal products	381	8 054	100,00	107,99	113,88	121,91
Other manufacturing industries	390	3 544	100,00	121,30	133,44	113,65
Non-R&D intensive industries		48 616	100,00	108,68	117,26	116,68
Manufacturing		101 015	100,00	106,96	111,57	110,45

Table 2.8: Changes in gross remuneration in real terms, 2003-2010 (concluded)

Industry	ISIC code	Index of gross remuneration in real terms (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	117,02	127,23	123,85	131,83	3,51
Industrial chemicals	351	141,80	151,11	173,41	200,85	9,11
Other chemicals	352	56,53	56,39	52,40	63,37	-5,54
Petroleum and related products	353/4	96,55	83,33	101,30	118,16	2,11
Plastic products	356	72,62	61,64	63,55	53,68	-7,48
Iron and steel	371	127,70	119,52	106,34	144,57	4,72
Non-ferrous metals	372	72,08	68,80	55,77	62,07	-5,79
Non-electrical machinery	382	101,47	101,33	101,76	105,33	0,65
Electrical machinery	383	133,06	143,12	134,16	147,25	4,96
Transport equipment	384	158,75	164,75	152,91	153,88	5,54
Professional and scientific equipment	385	129,80	161,20	146,82	185,53	8,03
R&D intensive industries		109,76	112,58	110,21	124,23	2,75
Food products	311/2	104,45	107,40	117,65	139,61	4,26
Beverages	313	114,26	131,91	120,84	144,24	4,69
Tobacco	314	66,99	72,68	66,32	73,26	-3,81
Textiles	321	91,46	103,05	94,27	99,93	-0,01
Wearing apparel, except footwear	322	104,71	112,22	115,08	132,23	3,55
Leather and fur products	323	132,71	171,91	166,26	212,29	9,87
Footwear, except rubber or plastic	324	66,60	84,42	80,42	86,03	-1,86
Wood products, except furniture	331	97,82	117,62	117,28	139,28	4,23
Furniture and fixtures, excluding metal	332	117,68	118,50	125,09	110,40	1,24
Paper and products	341	166,86	197,60	186,52	222,08	10,49
Rubber products	355	77,43	81,00	70,68	75,40	-3,47
Non-metallic mineral products	361/9	138,84	144,87	116,84	134,69	3,79
Glass and products	362	130,57	150,33	139,08	147,00	4,93
Fabricated metal products	381	132,56	119,45	122,92	124,82	2,81
Other manufacturing industries	390	157,06	174,37	175,95	151,62	5,34
Non-R&D intensive industries		113,33	125,82	121,01	132,86	3,62
Manufacturing		111,55	119,20	115,61	128,54	3,19

Section 3: Production situation

Table 3.1: Changes in gross output in real terms, 2003-2010

Table 3.2: Changes in value added in real terms, 2003-2010

Table 3.3: Changes in gross capital stock in real terms, 2003-2010

Table 3.1: Changes in gross output in real terms, 2003-2010

Industry	ISIC code	G.O.	<i>Index of gross output in real terms (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	17 971	100,00	104,80	112,30	109,08
Industrial chemicals	351	54 415	100,00	97,12	97,14	104,38
Other chemicals	352	68 139	100,00	100,40	98,41	102,27
Petroleum and related products	353/4	64 769	100,00	111,04	106,31	110,13
Plastic products	356	23 476	100,00	95,31	92,47	92,04
Iron and steel	371	68 232	100,00	113,30	116,66	120,13
Non-ferrous metals	372	25 831	100,00	99,18	102,76	106,04
Non-electrical machinery	382	38 525	100,00	97,92	98,17	98,93
Electrical machinery	383	33 350	100,00	100,41	99,08	105,73
Transport equipment	384	126 872	100,00	106,88	116,12	125,92
Professional and scientific equipment	385	3 927	100,00	116,33	116,41	136,75
R&D intensive industries		525 506	100,00	103,88	105,08	110,13
Food products	311/2	112 539	100,00	106,62	115,68	117,35
Beverages	313	29 802	100,00	106,72	112,50	113,12
Tobacco	314	8 825	100,00	90,13	86,72	89,20
Textiles	321	19 222	100,00	97,43	89,87	85,40
Wearing apparel, except footwear	322	16 179	100,00	99,15	93,17	93,69
Leather and fur products	323	4 534	100,00	116,06	117,40	120,31
Footwear, except rubber or plastic	324	3 606	100,00	101,25	97,11	98,79
Wood products, except furniture	331	18 461	100,00	105,76	108,45	114,76
Furniture and fixtures, excluding metal	332	10 884	100,00	108,02	105,28	107,23
Paper and products	341	39 958	100,00	113,23	137,96	147,76
Rubber products	355	8 903	100,00	101,53	110,32	122,98
Non-metallic mineral products	361/9	19 093	100,00	103,56	109,86	113,89
Glass and products	362	4 864	100,00	110,76	124,55	114,14
Fabricated metal products	381	40 895	100,00	103,62	107,21	116,61
Other manufacturing industries	390	13 407	100,00	108,34	116,24	115,03
Non-R&D intensive industries		351 172	100,00	104,81	108,82	111,35
Manufacturing		876 678	100,00	104,35	106,95	110,74

Table 3.1: Changes in gross output in real terms, 2003-2010 (concluded)

Industry	ISIC code	Index of gross output in real terms (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	134,60	143,77	131,51	133,23	3,65
Industrial chemicals	351	102,07	96,24	101,04	109,19	1,10
Other chemicals	352	104,90	105,33	92,48	98,60	-0,18
Petroleum and related products	353/4	103,36	106,71	120,36	116,11	1,88
Plastic products	356	100,46	86,71	81,58	78,08	-3,04
Iron and steel	371	107,43	107,86	86,27	101,46	0,18
Non-ferrous metals	372	93,85	91,05	67,51	71,32	-4,14
Non-electrical machinery	382	107,19	119,42	117,68	119,21	2,22
Electrical machinery	383	111,58	134,93	128,14	127,95	3,13
Transport equipment	384	127,12	122,57	109,87	113,52	1,60
Professional and scientific equipment	385	128,15	146,70	137,76	146,52	4,89
R&D intensive industries		110,97	114,66	106,75	110,47	1,25
Food products	311/2	124,85	119,10	115,02	119,59	2,26
Beverages	313	114,21	128,48	114,46	120,04	2,31
Tobacco	314	92,76	108,67	86,04	80,97	-2,60
Textiles	321	84,83	103,35	100,38	98,93	-0,13
Wearing apparel, except footwear	322	95,19	119,55	121,27	124,47	2,77
Leather and fur products	323	112,99	169,50	163,49	173,04	7,09
Footwear, except rubber or plastic	324	104,61	125,96	112,52	106,28	0,76
Wood products, except furniture	331	113,21	123,97	110,44	121,52	2,47
Furniture and fixtures, excluding metal	332	125,58	154,37	140,63	142,83	4,56
Paper and products	341	143,66	169,08	148,85	162,37	6,25
Rubber products	355	95,95	101,45	90,49	90,66	-1,22
Non-metallic mineral products	361/9	125,36	124,34	100,39	105,94	0,72
Glass and products	362	126,50	139,22	118,09	106,56	0,80
Fabricated metal products	381	114,77	121,14	108,58	107,58	0,92
Other manufacturing industries	390	119,91	130,91	119,80	113,73	1,62
Non-R&D intensive industries		112,96	129,27	116,70	118,30	2,12
Manufacturing		111,97	121,97	111,72	114,39	1,69

Table 3.2: Changes in value added in real terms, 2003-2010

Industry	ISIC code	V.A.	<i>Index of value added in real terms (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	15 398	100,00	103,27	98,82	102,40
Industrial chemicals	351	1 629	100,00	92,79	96,19	99,84
Other chemicals	352	19 482	100,00	103,72	108,63	114,05
Petroleum and related products	353/4	5 770	100,00	109,84	105,76	103,18
Plastic products	356	9 544	100,00	97,69	95,53	96,10
Iron and steel	371	15 546	100,00	113,20	121,74	136,86
Non-ferrous metals	372	3 819	100,00	101,69	108,13	117,48
Non-electrical machinery	382	24 761	100,00	100,17	104,08	112,23
Electrical machinery	383	15 075	100,00	96,25	100,64	104,58
Transport equipment	384	20 550	100,00	106,50	113,77	118,22
Professional and scientific equipment	385	1 516	100,00	106,01	114,42	144,31
R&D intensive industries		133 089	100,00	102,83	106,15	113,57
Food products	311/2	25 921	100,00	108,04	118,50	124,25
Beverages	313	10 654	100,00	107,16	112,44	125,39
Tobacco	314	5 463	100,00	90,96	82,47	87,45
Textiles	321	10 678	100,00	105,06	98,01	92,46
Wearing apparel, except footwear	322	19 413	100,00	106,10	101,89	107,19
Leather and fur products	323	2 318	100,00	129,35	129,56	135,37
Footwear, except rubber or plastic	324	2 288	100,00	103,42	96,49	100,61
Wood products, except furniture	331	3 443	100,00	105,28	102,83	104,43
Furniture and fixtures, excluding metal	332	6 412	100,00	110,36	110,05	122,17
Paper and products	341	2 570	100,00	110,61	130,28	135,67
Rubber products	355	4 528	100,00	101,62	112,37	116,54
Non-metallic mineral products	361/9	6 189	100,00	102,60	105,05	111,73
Glass and products	362	3 888	100,00	109,77	124,81	119,80
Fabricated metal products	381	15 086	100,00	105,72	111,21	121,68
Other manufacturing industries	390	9 214	100,00	108,54	119,90	115,07
Non-R&D intensive industries		128 064	100,00	106,97	110,39	114,65
Manufacturing		261 153	100,00	104,90	108,27	114,11

Table 3.2: Changes in value added in real terms, 2003-2010 (concluded)

Industry	ISIC code	Index of value added in real terms (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	114,10	115,31	114,03	117,71	2,06
Industrial chemicals	351	87,07	88,67	88,80	95,68	-0,55
Other chemicals	352	119,73	118,66	107,44	115,38	1,80
Petroleum and related products	353/4	114,03	112,10	123,29	118,22	2,11
Plastic products	356	111,78	99,70	93,05	81,41	-2,54
Iron and steel	371	135,02	116,71	83,81	83,88	-2,17
Non-ferrous metals	372	99,42	104,00	71,53	66,11	-5,04
Non-electrical machinery	382	127,05	136,53	156,98	157,64	5,85
Electrical machinery	383	115,37	116,64	113,20	111,72	1,40
Transport equipment	384	127,07	124,84	111,26	109,32	1,12
Professional and scientific equipment	385	132,75	127,98	120,41	128,02	3,14
R&D intensive industries		116,67	114,65	107,62	107,74	0,94
Food products	311/2	124,88	125,01	131,01	139,48	4,25
Beverages	313	131,59	133,55	109,22	127,42	3,08
Tobacco	314	93,74	102,97	67,94	66,30	-5,01
Textiles	321	93,23	91,23	88,58	85,29	-1,97
Wearing apparel, except footwear	322	109,11	108,35	111,88	129,26	3,26
Leather and fur products	323	139,52	117,70	96,52	90,90	-1,19
Footwear, except rubber or plastic	324	106,56	102,55	98,84	92,08	-1,03
Wood products, except furniture	331	99,41	98,04	81,59	85,12	-1,99
Furniture and fixtures, excluding metal	332	125,79	117,51	119,11	103,69	0,45
Paper and products	341	134,06	133,77	114,40	116,19	1,89
Rubber products	355	98,91	89,67	87,23	84,27	-2,12
Non-metallic mineral products	361/9	114,50	117,64	93,35	109,58	1,15
Glass and products	362	129,56	131,54	114,22	104,87	0,60
Fabricated metal products	381	131,73	138,11	120,88	111,86	1,41
Other manufacturing industries	390	117,14	124,83	114,20	114,55	1,71
Non-R&D intensive industries		116,65	115,50	103,26	104,06	0,50
Manufacturing		116,66	115,07	105,44	105,90	0,72

Table 3.3: Changes in gross capital stock in real terms, 2003-2010

Industry	ISIC code	G.C.S.	<i>Index of gross capital stock in real terms (2003=100)</i>			
			2003	2004	2005	2006
Printing and publishing	342	6 404	100,00	110,30	125,27	142,70
Industrial chemicals	351	92 303	100,00	102,10	115,95	132,09
Other chemicals	352	70 191	100,00	117,43	133,37	151,93
Petroleum and related products	353/4	184 379	100,00	120,11	127,26	118,95
Plastic products	356	23 607	100,00	112,41	127,67	145,44
Iron and steel	371	70 259	100,00	119,67	135,91	154,83
Non-ferrous metals	372	77 601	100,00	112,76	128,07	145,89
Non-electrical machinery	382	34 142	100,00	104,37	118,53	135,03
Electrical machinery	383	9 486	100,00	110,07	128,87	132,11
Transport equipment	384	96 734	100,00	116,24	132,01	150,39
Professional and scientific equipment	385	6 612	100,00	114,97	130,57	148,75
R&D intensive industries		671 719	100,00	112,77	127,59	141,65
Food products	311/2	115 158	100,00	113,98	136,27	147,08
Beverages	313	74 186	100,00	116,36	133,55	142,70
Tobacco	314	23 301	100,00	97,53	111,94	119,60
Textiles	321	16 033	100,00	115,79	132,90	142,00
Wearing apparel, except footwear	322	10 991	100,00	108,14	117,36	146,13
Leather and fur products	323	4 230	100,00	133,48	153,20	163,69
Footwear, except rubber or plastic	324	6 317	100,00	107,79	123,71	132,18
Wood products, except furniture	331	19 308	100,00	115,94	133,08	142,19
Furniture and fixtures, excluding metal	332	7 268	100,00	125,04	143,51	153,34
Paper and products	341	61 727	100,00	120,69	138,53	148,01
Rubber products	355	7 694	100,00	115,57	144,22	147,95
Non-metallic mineral products	361/9	52 448	100,00	113,10	129,81	138,70
Glass and products	362	8 204	100,00	117,14	134,45	143,65
Fabricated metal products	381	42 131	100,00	109,71	125,92	134,54
Other manufacturing industries	390	142 661	100,00	112,82	129,49	138,36
Non-R&D intensive industries		591 657	100,00	114,87	132,53	142,68
Manufacturing		1 263 376	100,00	113,82	130,06	142,16

Table 3.3: Changes in gross capital stock in real terms, 2003-2010 (concluded)

Industry	ISIC code	Index of gross capital stock in real terms (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	128,25	130,69	103,79	96,47	-0,45
Industrial chemicals	351	118,72	120,97	96,07	89,30	-1,41
Other chemicals	352	136,55	139,14	110,50	102,71	0,33
Petroleum and related products	353/4	127,21	135,59	126,83	126,92	3,02
Plastic products	356	130,72	133,20	105,78	98,32	-0,21
Iron and steel	371	139,16	141,80	112,61	104,67	0,57
Non-ferrous metals	372	131,12	133,61	106,11	98,63	-0,17
Non-electrical machinery	382	121,36	123,66	98,21	91,28	-1,13
Electrical machinery	383	130,93	121,20	110,77	84,42	-2,09
Transport equipment	384	135,16	137,73	109,38	101,67	0,21
Professional and scientific equipment	385	133,69	136,23	108,19	100,56	0,07
R&D intensive industries		130,26	132,16	108,02	99,54	-0,06
Food products	311/2	146,60	152,49	130,41	128,16	3,15
Beverages	313	137,87	127,35	84,39	72,64	-3,92
Tobacco	314	115,55	106,74	70,73	60,88	-6,01
Textiles	321	137,19	126,73	83,98	72,28	-3,98
Wearing apparel, except footwear	322	147,80	99,01	87,99	113,00	1,54
Leather and fur products	323	158,15	146,09	96,81	83,33	-2,25
Footwear, except rubber or plastic	324	127,70	117,97	78,17	67,29	-4,83
Wood products, except furniture	331	137,37	126,90	84,09	72,38	-3,96
Furniture and fixtures, excluding metal	332	148,15	136,85	90,68	78,06	-3,05
Paper and products	341	143,00	132,09	87,53	75,34	-3,48
Rubber products	355	127,22	95,26	97,68	83,96	-2,16
Non-metallic mineral products	361/9	134,00	123,78	82,02	70,60	-4,26
Glass and products	362	138,79	128,20	84,95	73,13	-3,84
Fabricated metal products	381	129,98	120,07	79,57	68,49	-4,62
Other manufacturing industries	390	133,67	123,48	81,82	70,43	-4,29
Non-R&D intensive industries		137,54	124,20	88,05	79,33	-2,85
Manufacturing		133,90	128,18	98,04	89,44	-1,39

Section 4: Production efficiency

Table 4.1: Changes in labour productivity, 2003-2010

Table 4.2: Changes in capital productivity, 2003-2010

Table 4.3: Changes in multifactor productivity, 2003-2010

Table 4.4: Changes in capital intensity, 2003-2010

Table 4.1: Changes in labour productivity, 2003-2010

Industry	ISIC code	<i>Labour productivity index (2003=100)</i>			
		2003	2004	2005	2006
Printing and publishing	342	100,00	95,66	82,86	82,31
Industrial chemicals	351	100,00	76,55	67,78	65,49
Other chemicals	352	100,00	105,85	110,93	125,73
Petroleum and related products	353/4	100,00	100,05	88,26	88,48
Plastic products	356	100,00	96,31	91,82	98,06
Iron and steel	371	100,00	108,60	111,09	121,13
Non-ferrous metals	372	100,00	108,10	117,64	138,43
Non-electrical machinery	382	100,00	93,79	92,52	98,50
Electrical machinery	383	100,00	86,12	80,62	77,84
Transport equipment	384	100,00	90,53	82,05	79,08
Professional and scientific equipment	385	100,00	89,18	81,61	95,38
R&D intensive industries		100,00	95,52	91,56	97,31
Food products	311/2	100,00	97,80	105,02	115,71
Beverages	313	100,00	102,85	103,44	110,65
Tobacco	314	100,00	97,61	90,62	98,06
Textiles	321	100,00	100,77	95,32	93,75
Wearing apparel, except footwear	322	100,00	110,07	103,91	107,15
Leather and fur products	323	100,00	121,15	113,44	108,48
Footwear, except rubber or plastic	324	100,00	110,63	104,95	107,79
Wood products, except furniture	331	100,00	99,43	86,95	79,62
Furniture and fixtures, excluding metal	332	100,00	92,28	78,71	79,76
Paper and products	341	100,00	96,84	96,94	87,84
Rubber products	355	100,00	103,14	110,57	112,46
Non-metallic mineral products	361/9	100,00	91,19	85,34	83,72
Glass and products	362	100,00	116,57	128,92	113,32
Fabricated metal products	381	100,00	96,58	86,26	80,83
Other manufacturing industries	390	100,00	98,21	101,40	86,52
Non-R&D intensive industries		100,00	102,34	99,45	97,71
Manufacturing		100,00	98,93	95,51	97,51

Table 4.1: Changes in labour productivity, 2003-2010 (concluded)

Industry	ISIC code	Labour productivity index (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	87,97	87,46	92,45	103,58	0,44
Industrial chemicals	351	54,90	56,12	61,38	72,71	-3,91
Other chemicals	352	139,31	138,90	141,90	175,42	7,28
Petroleum and related products	353/4	108,02	117,12	142,04	147,81	5,01
Plastic products	356	120,28	107,27	103,73	96,49	-0,45
Iron and steel	371	116,97	107,82	91,16	103,38	0,42
Non-ferrous metals	372	134,83	162,43	125,34	125,15	2,84
Non-electrical machinery	382	101,42	101,62	131,72	154,74	5,61
Electrical machinery	383	84,11	95,75	120,77	146,43	4,88
Transport equipment	384	86,18	95,86	105,33	119,66	2,27
Professional and scientific equipment	385	86,63	90,28	104,65	133,44	3,67
R&D intensive industries		101,87	105,51	110,95	125,35	2,86
Food products	311/2	116,45	113,14	131,63	156,10	5,72
Beverages	313	105,17	101,02	98,13	135,91	3,91
Tobacco	314	108,60	128,70	103,56	117,11	1,99
Textiles	321	97,09	98,53	115,91	133,57	3,68
Wearing apparel, except footwear	322	109,87	122,03	165,13	229,86	10,96
Leather and fur products	323	97,27	73,04	60,51	59,11	-6,36
Footwear, except rubber or plastic	324	104,14	93,75	107,50	120,30	2,34
Wood products, except furniture	331	71,03	72,42	75,67	95,44	-0,58
Furniture and fixtures, excluding metal	332	81,11	86,00	118,62	127,60	3,09
Paper and products	341	77,64	78,33	81,95	96,48	-0,45
Rubber products	355	89,50	79,77	101,23	127,50	3,08
Non-metallic mineral products	361/9	79,44	85,75	87,45	124,73	2,80
Glass and products	362	113,58	120,40	132,75	146,31	4,87
Fabricated metal products	381	79,99	87,94	99,16	111,82	1,41
Other manufacturing industries	390	72,73	72,20	78,28	92,72	-0,94
Non-R&D intensive industries		93,58	94,20	103,83	124,97	2,83
Manufacturing		97,72	99,86	107,39	125,16	2,84

Table 4.2: Changes in capital productivity, 2003-2010

Industry	ISIC code	Capital productivity index (2003=100)			
		2003	2004	2005	2006
Printing and publishing	342	100,00	93,63	78,89	71,76
Industrial chemicals	351	100,00	90,89	82,96	75,58
Other chemicals	352	100,00	88,32	81,45	75,07
Petroleum and related products	353/4	100,00	91,45	83,11	86,74
Plastic products	356	100,00	86,90	74,83	66,07
Iron and steel	371	100,00	94,59	89,57	88,39
Non-ferrous metals	372	100,00	90,18	84,43	80,53
Non-electrical machinery	382	100,00	95,97	87,80	83,12
Electrical machinery	383	100,00	87,44	78,09	79,16
Transport equipment	384	100,00	91,62	86,18	78,61
Professional and scientific equipment	385	100,00	92,20	87,63	97,01
R&D intensive industries		100,00	91,20	83,18	80,19
Food products	311/2	100,00	94,79	86,96	84,47
Beverages	313	100,00	92,10	84,19	87,87
Tobacco	314	100,00	93,27	73,68	73,12
Textiles	321	100,00	90,73	73,75	65,11
Wearing apparel, except footwear	322	100,00	98,12	86,82	73,35
Leather and fur products	323	100,00	96,91	84,57	82,70
Footwear, except rubber or plastic	324	100,00	95,95	77,99	76,11
Wood products, except furniture	331	100,00	90,80	77,27	73,44
Furniture and fixtures, excluding metal	332	100,00	88,26	76,68	79,67
Paper and products	341	100,00	91,65	94,05	91,66
Rubber products	355	100,00	87,93	77,92	78,77
Non-metallic mineral products	361/9	100,00	90,71	80,93	80,56
Glass and products	362	100,00	93,71	92,83	83,40
Fabricated metal products	381	100,00	96,36	88,32	90,44
Other manufacturing industries	390	100,00	96,20	92,59	83,17
Non-R&D intensive industries		100,00	93,17	83,24	80,26
Manufacturing		100,00	92,18	83,21	80,22

Table 4.2: Changes in capital productivity, 2003-2010 (concluded)

Industry	ISIC code	Capital productivity index (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	88,96	88,23	109,86	122,02	2,52
Industrial chemicals	351	73,34	73,30	92,43	107,15	0,87
Other chemicals	352	87,68	85,28	97,23	112,34	1,47
Petroleum and related products	353/4	89,64	82,68	97,21	93,15	-0,88
Plastic products	356	85,51	74,85	87,97	82,80	-2,33
Iron and steel	371	97,03	82,31	74,43	80,13	-2,73
Non-ferrous metals	372	75,82	77,84	67,41	67,03	-4,88
Non-electrical machinery	382	104,69	110,40	159,84	172,69	7,07
Electrical machinery	383	88,12	96,23	102,19	132,34	3,56
Transport equipment	384	94,01	90,64	101,72	107,53	0,91
Professional and scientific equipment	385	99,30	93,94	111,30	127,31	3,06
R&D intensive industries		89,46	86,88	100,14	109,50	1,14
Food products	311/2	85,18	81,98	100,46	108,84	1,06
Beverages	313	95,44	104,87	129,42	175,41	7,28
Tobacco	314	81,12	96,47	96,06	108,90	1,07
Textiles	321	67,96	71,99	105,49	118,00	2,09
Wearing apparel, except footwear	322	73,82	109,44	127,15	114,39	1,69
Leather and fur products	323	88,22	80,56	99,70	109,09	1,09
Footwear, except rubber or plastic	324	83,44	86,93	126,45	136,85	4,00
Wood products, except furniture	331	72,36	77,26	97,03	117,60	2,05
Furniture and fixtures, excluding metal	332	84,91	85,87	131,34	132,84	3,61
Paper and products	341	93,75	101,27	130,70	154,21	5,56
Rubber products	355	77,74	94,13	89,30	100,37	0,05
Non-metallic mineral products	361/9	85,45	95,04	113,81	155,21	5,65
Glass and products	362	93,35	102,60	134,45	143,41	4,61
Fabricated metal products	381	101,34	115,02	151,92	163,33	6,32
Other manufacturing industries	390	87,63	101,09	139,57	162,65	6,27
Non-R&D intensive industries		84,78	93,63	118,19	133,41	3,67
Manufacturing		87,12	90,26	109,17	121,45	2,46

Table 4.3: Changes in multifactor productivity, 2003-2010

Industry	ISIC code	Multifactor productivity index (2003=100)			
		2003	2004	2005	2006
Printing and publishing	342	100,00	95,36	82,26	80,12
Industrial chemicals	351	100,00	85,39	77,03	71,75
Other chemicals	352	100,00	98,14	97,03	99,33
Petroleum and related products	353/4	100,00	92,39	83,69	86,95
Plastic products	356	100,00	94,73	88,70	91,35
Iron and steel	371	100,00	100,22	97,82	100,08
Non-ferrous metals	372	100,00	93,23	89,42	87,33
Non-electrical machinery	382	100,00	94,19	91,68	95,17
Electrical machinery	383	100,00	86,54	79,78	78,25
Transport equipment	384	100,00	90,90	83,42	78,93
Professional and scientific equipment	385	100,00	90,90	84,99	96,36
R&D intensive industries		100,00	92,91	86,89	87,78
Food products	311/2	100,00	96,31	95,36	98,07
Beverages	313	100,00	95,27	89,49	93,97
Tobacco	314	100,00	94,66	79,50	79,99
Textiles	321	100,00	97,59	87,74	82,80
Wearing apparel, except footwear	322	100,00	107,78	100,45	99,16
Leather and fur products	323	100,00	107,32	96,51	93,56
Footwear, except rubber or plastic	324	100,00	102,06	89,53	89,02
Wood products, except furniture	331	100,00	94,96	81,87	76,44
Furniture and fixtures, excluding metal	332	100,00	91,46	78,31	79,74
Paper and products	341	100,00	93,82	95,27	90,00
Rubber products	355	100,00	95,54	92,71	94,26
Non-metallic mineral products	361/9	100,00	90,86	82,24	81,49
Glass and products	362	100,00	106,26	111,67	99,22
Fabricated metal products	381	100,00	96,55	86,60	82,43
Other manufacturing industries	390	100,00	96,62	94,28	83,86
Non-R&D intensive industries		100,00	97,80	90,77	88,27
Manufacturing		100,00	95,35	88,83	88,03

Table 4.3: Changes in multifactor productivity, 2003-2010 (concluded)

Industry	ISIC code	<i>Multifactor productivity index (2003=100)</i>				
		2007	2008	2009	2010	r
Printing and publishing	342	88,11	87,52	93,89	104,66	0,57
Industrial chemicals	351	65,75	66,03	76,49	88,57	-1,51
Other chemicals	352	112,96	111,43	120,99	150,31	5,23
Petroleum and related products	353/4	91,49	85,30	100,88	98,25	-0,22
Plastic products	356	113,16	98,90	101,70	94,28	-0,73
Iron and steel	371	104,80	92,63	83,35	97,52	-0,31
Non-ferrous metals	372	83,46	86,42	75,23	76,67	-3,27
Non-electrical machinery	382	102,02	103,64	140,11	160,07	6,06
Electrical machinery	383	85,30	95,88	114,76	143,25	4,60
Transport equipment	384	88,70	94,21	104,31	116,28	1,90
Professional and scientific equipment	385	93,53	91,92	107,70	131,08	3,44
R&D intensive industries		93,57	92,17	101,76	114,63	1,72
Food products	311/2	98,75	95,86	115,49	133,61	3,69
Beverages	313	98,34	103,44	114,60	156,54	5,76
Tobacco	314	88,54	105,08	99,31	112,95	1,53
Textiles	321	86,22	92,16	113,29	130,86	3,42
Wearing apparel, except footwear	322	101,24	120,52	159,64	205,01	9,39
Leather and fur products	323	92,38	74,84	63,62	54,45	-7,32
Footwear, except rubber or plastic	324	92,21	91,10	113,94	124,60	2,79
Wood products, except furniture	331	71,69	74,21	80,32	98,43	-0,20
Furniture and fixtures, excluding metal	332	81,83	85,98	119,75	128,03	3,14
Paper and products	341	86,05	88,07	97,83	110,45	1,25
Rubber products	355	84,39	83,70	96,36	117,52	2,04
Non-metallic mineral products	361/9	83,51	91,93	103,89	144,25	4,69
Glass and products	362	104,58	114,13	133,21	145,83	4,83
Fabricated metal products	381	82,94	94,28	105,00	114,65	1,72
Other manufacturing industries	390	83,93	92,77	116,92	140,18	4,31
Non-R&D intensive industries		89,11	93,87	108,88	127,82	3,12
Manufacturing		91,34	93,02	105,32	121,23	2,44

Table 4.4: Changes in capital intensity, 2003-2010

Industry	ISIC code	<i>Index of capital intensity (2003=100)</i>			
		2003	2004	2005	2006
Printing and publishing	342	100,00	102,17	105,04	114,70
Industrial chemicals	351	100,00	84,23	81,70	86,64
Other chemicals	352	100,00	119,84	136,19	167,50
Petroleum and related products	353/4	100,00	109,40	106,20	102,00
Plastic products	356	100,00	110,83	122,71	148,41
Iron and steel	371	100,00	114,81	124,02	137,03
Non-ferrous metals	372	100,00	119,88	139,33	171,90
Non-electrical machinery	382	100,00	97,72	105,37	118,50
Electrical machinery	383	100,00	98,49	103,23	98,33
Transport equipment	384	100,00	98,81	95,20	100,60
Professional and scientific equipment	385	100,00	96,72	93,13	98,31
R&D intensive industries		100,00	104,81	110,19	122,18
Food products	311/2	100,00	103,18	120,76	136,98
Beverages	313	100,00	111,68	122,86	125,92
Tobacco	314	100,00	104,65	123,00	134,12
Textiles	321	100,00	111,06	129,26	143,98
Wearing apparel, except footwear	322	100,00	112,19	119,68	146,08
Leather and fur products	323	100,00	125,01	134,13	131,18
Footwear, except rubber or plastic	324	100,00	115,30	134,56	141,62
Wood products, except furniture	331	100,00	109,50	112,52	108,41
Furniture and fixtures, excluding metal	332	100,00	104,56	102,65	100,10
Paper and products	341	100,00	105,66	103,07	95,84
Rubber products	355	100,00	117,30	141,91	142,77
Non-metallic mineral products	361/9	100,00	100,52	105,46	103,93
Glass and products	362	100,00	124,39	138,87	135,89
Fabricated metal products	381	100,00	100,23	97,66	89,38
Other manufacturing industries	390	100,00	102,09	109,52	104,03
Non-R&D intensive industries		100,00	109,82	119,73	122,68
Manufacturing		100,00	107,32	114,96	122,43

Table 4.4: Changes in capital intensity, 2003-2010 (concluded)

Industry	ISIC code	Index of capital intensity (2003=100)				
		2007	2008	2009	2010	r
Printing and publishing	342	98,88	99,12	84,15	84,89	-2,03
Industrial chemicals	351	74,85	76,56	66,41	67,85	-4,73
Other chemicals	352	158,88	162,88	145,95	156,15	5,73
Petroleum and related products	353/4	120,51	141,66	146,12	158,69	5,94
Plastic products	356	140,65	143,32	117,92	116,54	1,93
Iron and steel	371	120,55	131,00	122,48	129,01	3,23
Non-ferrous metals	372	177,84	208,68	185,93	186,71	8,12
Non-electrical machinery	382	96,88	92,05	82,40	89,61	-1,36
Electrical machinery	383	95,45	99,49	118,18	110,64	1,27
Transport equipment	384	91,67	105,76	103,55	111,28	1,35
Professional and scientific equipment	385	87,25	96,10	94,02	104,82	0,59
R&D intensive industries		114,86	123,33	115,19	119,65	2,27
Food products	311/2	136,70	138,02	131,02	143,43	4,61
Beverages	313	110,19	96,33	75,82	77,48	-3,14
Tobacco	314	133,88	133,41	107,81	107,54	0,91
Textiles	321	142,87	136,87	109,88	113,20	1,56
Wearing apparel, except footwear	322	148,83	111,51	129,87	200,94	9,11
Leather and fur products	323	110,25	90,66	60,69	54,19	-7,37
Footwear, except rubber or plastic	324	124,81	107,84	85,01	87,91	-1,60
Wood products, except furniture	331	98,16	93,74	77,98	81,15	-2,58
Furniture and fixtures, excluding metal	332	95,53	100,15	90,31	96,06	-0,50
Paper and products	341	82,81	77,34	62,70	62,56	-5,69
Rubber products	355	115,12	84,75	113,36	127,03	3,04
Non-metallic mineral products	361/9	92,97	90,23	76,84	80,36	-2,70
Glass and products	362	121,67	117,34	98,74	102,02	0,25
Fabricated metal products	381	78,93	76,45	65,27	68,46	-4,63
Other manufacturing industries	390	83,00	71,42	56,09	57,01	-6,78
Non-R&D intensive industries		111,71	101,74	89,43	97,29	-0,34
Manufacturing		113,28	112,53	102,31	108,47	1,02

Section 5: Pricing conditions

Table 5.1: Movements in general price levels, 2003-2010

Table 5.2: Movements in concentration levels, 2003-2010

Table 5.1: Movements in general price levels, 2003-2010

		<i>Fisher price index (2003=100)</i>			
Industry	ISIC code	2003	2004	2005	2006
Printing and publishing	342	100,00	101,59	105,88	117,72
Industrial chemicals	351	100,00	107,11	113,47	118,80
Other chemicals	352	100,00	103,72	111,00	118,55
Petroleum and related products	353/4	100,00	98,08	108,95	118,83
Plastic products	356	100,00	108,57	117,26	129,24
Iron and steel	371	100,00	96,44	98,59	112,81
Non-ferrous metals	372	100,00	103,25	104,89	109,12
Non-electrical machinery	382	100,00	110,04	115,52	121,62
Electrical machinery	383	100,00	104,15	108,27	112,46
Transport equipment	384	100,00	101,29	102,42	103,67
Professional and scientific equipment	385	100,00	97,39	99,64	102,64
R&D intensive industries		100,00	102,88	107,81	115,04
Food products	311/2	100,00	101,35	99,52	110,08
Beverages	313	100,00	109,43	113,77	124,17
Tobacco	314	100,00	115,54	136,05	150,91
Textiles	321	100,00	98,28	98,29	105,89
Wearing apparel, except footwear	322	100,00	96,91	95,64	96,86
Leather and fur products	323	100,00	86,41	81,00	80,50
Footwear, except rubber or plastic	324	100,00	97,22	95,62	96,19
Wood products, except furniture	331	100,00	99,37	103,15	103,75
Furniture and fixtures, excluding metal	332	100,00	104,29	105,73	110,55
Paper and products	341	100,00	87,61	78,16	77,38
Rubber products	355	100,00	103,31	101,81	97,42
Non-metallic mineral products	361/9	100,00	109,01	117,96	120,76
Glass and products	362	100,00	102,03	102,36	109,08
Fabricated metal products	381	100,00	105,75	110,31	114,33
Other manufacturing industries	390	100,00	96,91	95,88	101,38
Non-R&D intensive industries		100,00	100,89	102,35	106,62
Manufacturing		100,00	101,88	105,08	110,83

Table 5.1: Movements in general price levels, 2003-2010 (concluded)

		<i>Fisher price index (2003=100)</i>				
Industry	ISIC code	2007	2008	2009	2010	r
Printing and publishing	342	115,18	126,48	139,10	143,11	4,58
Industrial chemicals	351	139,23	175,62	160,49	146,69	4,91
Other chemicals	352	126,05	139,19	156,24	150,32	5,23
Petroleum and related products	353/4	133,44	171,01	146,26	153,73	5,52
Plastic products	356	129,17	155,34	159,76	158,01	5,88
Iron and steel	371	149,89	165,47	195,47	151,53	5,33
Non-ferrous metals	372	148,64	172,57	207,01	180,55	7,66
Non-electrical machinery	382	129,99	146,31	154,97	155,88	5,71
Electrical machinery	383	113,24	113,15	118,12	117,38	2,02
Transport equipment	384	109,39	112,44	121,75	125,26	2,86
Professional and scientific equipment	385	107,37	114,20	118,23	114,43	1,70
R&D intensive industries		127,42	144,71	152,49	145,17	4,77
Food products	311/2	122,94	145,74	152,25	155,10	5,64
Beverages	313	131,28	138,38	151,48	156,50	5,76
Tobacco	314	168,44	180,30	205,11	218,97	10,29
Textiles	321	117,06	114,30	117,80	115,53	1,82
Wearing apparel, except footwear	322	98,88	95,34	93,08	93,14	-0,88
Leather and fur products	323	85,03	72,33	70,54	68,12	-4,69
Footwear, except rubber or plastic	324	98,67	100,76	111,60	117,34	2,02
Wood products, except furniture	331	110,69	123,94	131,67	117,09	1,99
Furniture and fixtures, excluding metal	332	116,60	108,01	115,53	114,21	1,67
Paper and products	341	83,53	88,72	97,46	88,54	-1,51
Rubber products	355	113,30	136,74	153,90	148,31	5,05
Non-metallic mineral products	361/9	133,00	152,16	183,95	188,97	8,28
Glass and products	362	120,67	119,68	138,43	162,41	6,25
Fabricated metal products	381	129,43	157,08	168,62	163,60	6,35
Other manufacturing industries	390	109,35	115,13	121,81	128,06	3,14
Non-R&D intensive industries		115,92	123,24	134,22	135,72	3,89
Manufacturing		121,67	133,97	143,35	140,45	4,34

Table 5.2: Movements in concentration levels, 2003-2010

		<i>Gini concentration ratio</i>			
Industry	ISIC code	2003	2004	2005	2006
Printing and publishing	342	0,77	0,74	0,72	0,73
Industrial chemicals	351	0,81	0,81	0,80	0,80
Other chemicals	352	0,78	0,76	0,74	0,75
Petroleum and related products	353/4	0,87	0,86	0,87	0,87
Plastic products	356	0,75	0,72	0,69	0,68
Iron and steel	371	0,84	0,85	0,84	0,84
Non-ferrous metals	372	0,84	0,80	0,80	0,82
Non-electrical machinery	382	0,75	0,76	0,74	0,70
Electrical machinery	383	0,75	0,70	0,69	0,70
Transport equipment	384	0,83	0,82	0,81	0,82
Professional and scientific equipment	385	0,76	0,63	0,63	0,73
R&D intensive industries		0,80	0,77	0,76	0,77
Food products	311/2	0,78	0,79	0,78	0,78
Beverages	313	0,85	0,84	0,84	0,84
Tobacco	314	0,85	0,70	0,70	0,73
Textiles	321	0,69	0,66	0,64	0,66
Wearing apparel, except footwear	322	0,74	0,72	0,70	0,72
Leather and fur products	323	0,72	0,74	0,72	0,72
Footwear, except rubber or plastic	324	0,65	0,66	0,66	0,73
Wood products, except furniture	331	0,80	0,66	0,65	0,71
Furniture and fixtures, excluding metal	332	0,75	0,70	0,67	0,69
Paper and products	341	0,81	0,80	0,81	0,81
Rubber products	355	0,75	0,80	0,77	0,78
Non-metallic mineral products	361/9	0,80	0,74	0,74	0,73
Glass and products	362	0,85	0,83	0,81	0,82
Fabricated metal products	381	0,74	0,73	0,71	0,67
Other manufacturing industries	390	0,78	0,76	0,69	0,72
Non-R&D intensive industries		0,77	0,74	0,73	0,74
Manufacturing		0,78	0,76	0,74	0,75

Table 5.2: Movements in concentration levels, 2003-2010 (concluded)

Industry	ISIC code	Gini concentration ratio				
		2007	2008	2009	2010	r
Printing and publishing	342	0,74	0,78	0,74	0,83	0,90
Industrial chemicals	351	0,80	0,85	0,81	0,84	0,36
Other chemicals	352	0,76	0,80	0,77	0,80	0,31
Petroleum and related products	353/4	0,87	0,89	0,87	0,87	0,04
Plastic products	356	0,67	0,75	0,69	0,75	0,10
Iron and steel	371	0,84	0,86	0,84	0,83	-0,10
Non-ferrous metals	372	0,82	0,86	0,83	0,83	-0,20
Non-electrical machinery	382	0,74	0,79	0,74	0,81	0,90
Electrical machinery	383	0,70	0,77	0,71	0,82	1,11
Transport equipment	384	0,84	0,86	0,84	0,83	-0,01
Professional and scientific equipment	385	0,63	0,74	0,68	0,80	0,73
R&D intensive industries		0,76	0,81	0,78	0,82	0,37
Food products	311/2	0,78	0,82	0,79	0,81	0,37
Beverages	313	0,84	0,87	0,85	0,86	0,03
Tobacco	314	0,70	0,72	0,71	0,87	0,33
Textiles	321	0,63	0,75	0,66	0,78	1,55
Wearing apparel, except footwear	322	0,68	0,69	0,69	0,90	2,49
Leather and fur products	323	0,68	0,80	0,72	0,83	1,81
Footwear, except rubber or plastic	324	0,67	0,71	0,69	0,79	2,48
Wood products, except furniture	331	0,67	0,76	0,70	0,85	0,88
Furniture and fixtures, excluding metal	332	0,67	0,71	0,68	0,85	1,53
Paper and products	341	0,81	0,84	0,81	0,83	0,21
Rubber products	355	0,77	0,83	0,79	0,82	1,08
Non-metallic mineral products	361/9	0,75	0,80	0,76	0,83	0,48
Glass and products	362	0,77	0,80	0,79	0,84	-0,19
Fabricated metal products	381	0,71	0,75	0,71	0,77	0,42
Other manufacturing industries	390	0,73	0,78	0,74	0,84	0,91
Non-R&D intensive industries		0,72	0,78	0,74	0,83	0,93
Manufacturing		0,74	0,79	0,76	0,82	0,65

Technical note

This note discusses the technical aspects dealing with the preparation of the Compendium indicators. Definitions of the indicators are discussed in the Glossary section. The processing of the data in compiling the Compendium indicators is done in three stages.

Stage 1: Ordering the data, revising old data, including new data, and making preparatory calculations of the main indicators.

To create order in the data, a number of classification systems are used as set out in the first edition of the Compendium (Stats SA, 2008: 60, 65, 69). In all cases the data are grouped according to economic activities as per the second revision of the International Standard Industrial Classification of All Economic Activities (ISIC). This is followed by the R&D-based classification, which decomposes industries into R&D intensive and non-R&D intensive clusters. In the case of ownership the institutional sector classification is used in terms of which an industry is divided into spheres of enterprise control determined from legal status, as to that belonging to the private sector or the public sector. Any form of enterprise control, which cannot be classified into these distinct categories is designated as mixed ownership, like for example public-private enterprise initiatives. In the case of employment the knowledge-based classification is used. In this classification the workforce is divided into information and non-information type employees. The former group consist of knowledge-creating and data-handling employees. The latter group consists of goods-producing and services-producing employees.

In the process of sorting the data according to the described classifications, the old data series of the 2003 to 2007 period from the first edition of the Compendium are examined for revisions due to changes and improvements in the data sources. Where changes have arisen, the values of an affected series are replaced by what is now the latest available information for them in that period. On the other hand, the incoming or new values of data for the 2007 to 2010 period are left as they are.

The preparatory calculations refer to the composition of ownership, employment numbers, gross remuneration, gross output, value added, gross capital stock, and the Fisher price index. The composition of ownership is determined in accordance with the institutional sector classification of ownership. It is derived as the proportional breakdown expressed in percent of the number of enterprises relative to all enterprises in an industry making up the private sector, public sector, and mixed ownership.

As per reported country practices by the International Labour Office (1995: 47), annual estimates on employment numbers are obtained as the average of the number of estimates on employment in a given year. This is done in respect of the total employment number for each industry, as well as the employment numbers associated with each employment grouping according to the knowledge-based classification of employment.

As per the 2008 System of National Accounts (2009: 95, 106, 108, 120, 139, 298, 419) the gross output of an industry is calculated as the sum of its total sales and changes in inventories; value added is the difference between its gross output and intermediate consumption where the latter is the difference between purchases of production material and changes in inventories; capital stock is the ratio of its capital income and a gross rate of return; gross remuneration is the sum of its salaries and wages in cash and in kind plus social contributions payable by its enterprises; and the Fisher price index is the geometric mean of the Laspeyres price index and the Paasche price index. In the present case the former refers to the producer price index of an industry, and the latter refers to its value added deflator which is the counterpart to the general GDP deflator. There is no chaining done to the Fisher price index, as a result of which its reported values in the Compendium give the total change in inflation between the base year and whatever subsequent period it is compared to.

The 2008 System of National Accounts (2009: 325, 418-419) further recommends that gross operating surplus be equated with capital income because it represents the contribution of capital to production. This is adopted in the present experimental calculation of capital stock where as discussed in Lequiller and Blades (2006: 28-29) gross operating surplus is estimated as the difference between value added and gross remuneration. This estimation procedure is the converse of a well known National Accounting identity in terms of which value is the sum of gross operating surplus and gross remuneration.

The 2008 System of National Accounts (2009: 419) makes no prescription on what gross rate of return to use in deriving capital stock except to firstly outline that no strong conclusion has been reached on this matter and that in practice solutions are governed by the available data; and secondly to advise that it is advantageous to use an external rate of return because this will confront the actual cost of capital with that of its observed benefits in terms of gross operating surplus. A suggestion on this has previously been made in the OECD Manual on Measuring Productivity (2001: 69-70) advising that this rate can be taken as the yield on long-term government bonds because it represents a relatively risk-less opportunity cost on investment. In the present calculations of capital stock this suggestion is followed through using the 10-yearly Government bond yield as reported in the South African Reserve Bank Quarterly Bulletin from its December 2004 to December 2011 issues.

To move to rates of change, the series on employment numbers, gross remuneration, gross output, value added, and capital stock, are converted into index numbers by taking the ratio of their respective current to base period values expressed in percent. In general, 2003 is chosen as the base period. This is done in order to have an uninterrupted representation of the evolution of each data series without a break in time, which would arise if an intermittent period between 2003 and 2010 were chosen instead. In the cases of employment numbers, gross remuneration, gross output, value added, capital stock, and the Fisher price index there are two types of series to work with. The one covering the 2003 to 2007 period, which represents the older series from the first edition of the Compendium whether it is revised or not. The other covering the 2007 to 2010 period reflecting all new information received. This is the newer series. The series have 2007 as a common point, which is used to join them by multiplying each index value of the old series with a joining factor. The joining factor is the reciprocal of the old index value at the common point expressed in percent. The resultant joint series have 2007 as their base. For consistency the joined series are rebased to 2003.

The calculation of the Gini concentration ratio involves grouped data and is done according to the procedure discussed in Schneider *et al* (2005: 12) using industry turnover in the present case. In terms of this procedure, for a number of cumulative intervals, which in this case involves 10 turnover deciles, the products between the consecutive subtractions in the cumulative proportion of the number of enterprises in an industry and the consecutive additions in the cumulative shares enterprises have in total industry turnover are determined first. Then the Gini concentration ratio is obtained as the absolute value of the sum of these products subtracted from 1. Due to its simplicity, this calculation procedure replaces the one in the 2008 Compendium edition (Stats SA, 2008: 76). Furthermore the calculation of the Gini concentration ratio in this Compendium edition is done with revised and new information on turnover unavailable at the time of compiling the ratio for the first edition.

Stage 2: Dealing with missing values, revealing patterns, and making intermediate calculations of the main indicators.

The data examined for missing values and patterns include the calculated series for ownership, Gini concentration ratio, and those of the index numbers on employment, gross remuneration, gross output, value added, and capital stock. Where a missing value is found it is imputed by an imputation algorithm discussed in Bloem *et al* (2001: 124). This algorithm imputes by assigning to the last three values preceding the missing observation in a series, weights of 0.50, 0.33, and 0.17 respectively, and summing the resultant products accordingly.

After imputation, the completed series are scanned for patterns irrespective of their shape. In the present case, volatile fluctuations appeared in all series except those on ownership, the Fisher price index, and the Gini concentration ratio. As a result further processing of these series is terminated. By contrast, for the remaining series where fluctuations prevented a clear reading of patterns irrespective of their shape, the Tukey-Hamming smoothing algorithm was used. The 2003 ISI Dictionary of Statistical Terms (2003: 178) advises that the algorithm can be applied to the data itself as opposed to its spectrum. This was implemented in the present case. The algorithm smooths the data by assigning each point in a series weights of 0.23, 0.54, and 0.23 to the preceding, current and succeeding observations respectively. Alternatively there is the Hanning smoothing algorithm to consider, which uses the weights of 0.25, 0.50, and 0.25. However Brillinger (2002: 1598) indicates that this weighing set is known to produce less accurate results to the first set of weights. Consequentially the Hanning smoothing algorithm is not used in the present case. Likewise the Winsorisation technique used in the first Compendium edition (Stats SA, 2008: 77) is not pursued in the present edition because it corrects for fluctuations by trimming and replacing extreme points with the next in line succeeding or preceding observations depending on whether they are at the beginning or the end of a series. This makes an extreme point take on the same value as its neighbours. By contrast the Tukey-Hamming smoothing algorithm keeps the extreme point by making its value consistent with the changes of its neighbours.

To deal with the end points in a series, the weights in the Tukey-Hamming smoothing algorithm are 0.46 and 0.54, applied respectively to the current and succeeding observation in the case of the opening point, and to the current and preceding observation in the case of the closing point. The series patterns are extracted by a double application of the Tukey-Hamming smoothing algorithm. This produces mild smoothing in the sense that once the shape in the pattern of a series is evident the algorithm is terminated immediately.

After the running of the Tukey-Hamming smoothing algorithm, no further processing is done to the index series on employment numbers. Further processing is done on the smoothed index series for gross remuneration, gross output, value added, and capital stock. These are converted from representing index movements based on nominal prices into index movements based on real terms by deflation. This is done by dividing each smoothed index series of nominally priced values by the Fisher price index, keeping 2003 as the base year for consistency.

Deflating by the Fisher price index adheres to the 2008 System of National Accounts (2009: 315), which recommends that the preferred measure of inflation and by default deflation should be the Fisher price index. This is borne out of the shortcomings that exist with the Laspeyres and Paasche price indices as to how they capture inflation. Specifically the Laspeyres price index exceeds its

Paasche counterpart if prices and quantities move in the opposite direction over time, and the Paasche price index exceeds its Laspeyres counterpart if prices and quantities move in the same direction over time. The Fisher price index compensates for these extremes by falling between the two indices and in this way excludes volatile price movements in either direction. After derivation, the deflated index series of gross remuneration, gross output, value added and capital stock are not processed further.

Stage 3: Finishing calculations on the main indicators, and finding average growth rates.

The index series on the total number of employed as well as the index series of value added and capital stock in real terms are used to construct the indices of labour productivity, capital productivity, capital intensity, and multifactor productivity. For consistency in all these cases 2003 is kept as the base year.

As per the 2008 System of National Accounts (2009: 412) the labour productivity index is calculated as the ratio of the index of value added in real terms to the index of the total number of employed expressed in percent; the capital productivity index is the ratio of the index of value added in real terms to the index of gross capital stock in real terms expressed in percent; capital intensity index is the ratio of the index of gross capital stock in real terms to the index of the total number of employed expressed in percent; and multifactor productivity is the ratio of the index of value added in real terms to the combined index made-up of the indices of the total number of employed and gross capital stock in real terms expressed in percent. This combined index is the weighted average of the indices of the total number of employed and gross capital stock in real terms with the weights being the proportions of gross remuneration and gross capital stock in value added in respect of each industry. All these are the derived indices for the assessment of production efficiency.

Whilst all index series give the yearly percentage changes in the levels of the Compendium indicators, average annual growth rates are also calculated for the index series of all Compendium indicators. These give the overall increase or decrease in a Compendium indicator from its baseline value. In the present case the average growth rate per annum is calculated as the ratio of the last to the first value in a series raised to the power of the reciprocal number of years, which is then subtracted from 1 and expressed in percent. This procedure is adopted from the 2007 World Information Society Report (ITU, 2007: 204). The average growth rates per annum show the trend in an index series. No average growth rate is calculated for the numbers on ownership as conceptually it is the control status and not its growth rate that is relevant to this indicator.

Glossary of terms

This section defines the Compendium indicators and their associated concepts in alphabetical order:

Aggregate: Data derived by aggregation.

Aggregation: The process of weighting, summing, and averaging raw data to obtain a statistic.

Average growth rate per annum: Constant rate of growth required in each year to achieve the same overall growth rate as that observed between two periods.

Capital intensity: The amount of capital used in production relative to that of labour.

Capital productivity: Output volume per capital stock used in production.

Classification system: Blueprint for meaningful and systematic arrangement of information into classes for the purpose of bringing order to data.

Current price: Price prevailing at a point in time. Sometimes it is referred to as nominal price.

Data-handling employees: Personnel in occupations of technicians, associate professionals, and clerks.

Deflation: Removal of the effect of inflation from a currently priced series by division with an aggregate price index. Sometimes the aggregate price index is referred to as a composite price index.

Employment: Total number of hired workers on the pay-roll of all enterprises.

Enterprise: Legal entity producing goods and services by direct control of its operations. Firm is a synonym.

Fisher price index: Aggregate price index measuring the average price change for a quantity basket of related goods and services from the base period and the current period.

Gini concentration ratio: Extent to which all enterprises have equal market shares on a continuum from equality denoted by the ratio being nil, to inequality denoted by the ratio taking the value of one.

Goods-producing employees: Personnel in occupation of plant and machine operators, assemblers, fishermen, and husbandry.

Gross capital stock: Total value of capital formation by all enterprises by means of producing tangible and intangible assets. It can also be referred to as capital stock.

Gross operating surplus: Total income earned by enterprises from capital stock holdings. Sometimes it is referred to as capital income.

Gross output: Total sales by enterprises of produced goods and services adjusted for changes in inventories.

Gross rate of return: Ratio of income earned to the value of capital invested. It is also referred to as the cost of capital if income is paid out in exchange for borrowed capital.

Gross remuneration: Total personnel cost of all enterprises.

Imputation: Obtaining an estimate for a current period in the absence of its actual data.

Index: Statistical measure of the effect of changes in a series in relation to time or generally any characteristic of interest.

Index of a series in real terms: Deflated currently priced series expressed as an index.

Industry: Group of enterprises engaged in similar or the same kinds of production activity as per the principal class of goods and services produced.

Information-type employees: That portion of the workforce that is divided into knowledge-creating and data-handling employees.

International standard industrial classification system: System that classifies enterprises according to the industry they belong to based on their economic activities independent of the country of operation.

Knowledge-based employment classification: System that classifies employment into information type and non-information type employees based on their occupation.

Knowledge-creating employees: Personnel in occupations of legislators, senior officials, managers, and professionals.

Labour productivity: Output volume per worker used in production.

Laspeyres price index: Aggregate price index measuring the average price change for a quantity basket of related items from a base period to a current period. Examples of this index include the consumer price index and the producer price index.

Market share: Proportion of an enterprise's turnover to total industry turnover.

Mixed ownership: That portion of an industry comprised of non-profit enterprises, public-private partnership enterprises, and community based enterprises.

Multifactor productivity: Rate of growth in production efficiency represented by change in output due to changes in the usage of capital and labour in production. It comprises the effects of change in technical progress and operational effectiveness. It is also referred to as total factor productivity.

Non-information type employees: That portion of the workforce that is divided into goods-producing and services-producing employees.

Non-R&D intensive industries: Industries with low tech, and low-medium tech technical processes in production.

Ownership: Legal right of control over an enterprise.

Ownership classification system: System that classifies ownership according to the institutional sector in which an enterprise operates.

Paasche price index: Aggregate price index measuring the average price change for a quantity basket of related items from a current period back to a base period. Examples of this index include the value added deflator or the GDP deflator.

Private sector. That portion of an industry comprised of micro enterprises, partnerships, non-government unlisted and listed companies, close corporations, and co-operative societies.

Production activity: Activity by which a homogenous set of products is produced. Sometimes it is referred to as industrial activity or economic production because it is an activity designed to produce goods and services regardless of whether they are homogenous.

Public sector. That portion of an industry comprised of Government enterprises and public corporations.

Research and development classification system: System that classifies industries into R&D intensive and non-R&D intensive according to the technological status of their technical processes of production.

R&D intensive industries: Industries with medium-high tech, and high-tech technical processes in production.

Services-producing employees: Personnel in occupations of service advisors, shop stewards, market sales agents and representatives, craftsmen, and artisans.

Smoother: An algorithm for reducing or removing fluctuations in the data to reduce differences in magnitude between adjacent numbers.

Turnover: Total value of market sales of goods and services by all enterprises.

Value added: Total output value of finished goods and services by all enterprises.

References

- ABS (1996). *Australian National Accounts: Input-Output Tables, 1992-93*. Canberra, Australia: Australian Bureau of Statistics
- Bloem, A.M. et al. (2001). *Quarterly National Accounts Manual: Concepts, Data Sources, and Compilation*. Washington, DC: International Monetary Fund
- Brillinger, D. (2002). John W. Tukey's Work on Time Series and Spectrum Analysis. *Annals of Statistics*, Vol.30, No.6, 1595-1618
- Dodge, Y., ed. (2003). *ISI Dictionary of Statistical Terms*. New York, USA: Oxford University Press
- Eurostat (1999). *Handbook on Quarterly National Accounts*. Luxembourg: European Union
 _____ (2006). *Methodology of Short-term Business Statistics: Interpretation and Guidelines*. Luxembourg: European Union
- Hoffmann, E. (1999). *International Statistical Comparisons of Occupational and Social Structures: Problems, Possibilities and the Role of ISCO-88*. Geneva, Switzerland: International Labour Office
- ILO (1995). *Sources and Methods: Labour Statistics*. Vol.2. Geneva, Switzerland: International Labour Office.
- ITU (2007). *World Information Society Report, 2007*. Geneva, Switzerland: International Telecommunication Union
- Lequiller, F. and Blades, D. (2006). *Understanding National Accounts*. Paris, France: Organisation for Economic Co-operation and Development
- Masse P., Roy R., and Gingras Y. (1999). *The Changing Skill Structure of Employment in Canada*. Hull, Canada: Human Resources and Social Development Canada
- Montaquila, J. and Ponikowski, C. (1995). *An Evaluation of Alternative Imputation Methods*. Washington DC, USA: Bureau of Labour Statistics
- OECD (2001). *Measuring Productivity*. Paris, France: Organization for Economic Co-operation and Development
- Schneider, M. et al. (2005). Methods for Measuring Health Inequalities. *Epidemiological Bulletin*, Vol.26, No.2, 12-15
- Scott, B. (1984). National Strategy for Stronger US Competitiveness. *Harvard Business Review*, Vol. 62.
- SARB (2004 – 2011). *Quarterly Bulletin*. Pretoria, South Africa: South African Reserve Bank
- Stats SA (2007). *Concepts and Definitions*. Pretoria, South Africa: Statistics South Africa
 _____ (2008). *Compendium of Industrial Statistics*. 1st Edition. Pretoria, South Africa: Statistics South Africa
- UN (2009). *System of National Accounts, 2008*. New York, USA: United Nations.
- UNIDO (2005). *Industrial Development Report, 2005*. Vienna, Austria: United Nations Industrial Development Organization

Tatje, E. and Lovell, C. (1999). Profits and Productivity. *Management Science*, Vol.45, No.9, 1177-1193

Triplett, J. (1992). Economic Theory and BEA's Alternative Quantity and Price Indexes. *Survey of Current Business*, Vol.72, No.4, 49-52

_____(1995). Note on Calculating Output and Price Indexes. In Landefeld, J. and Parker, R., Preview of the Comprehensive Revision of the National Income and Product Accounts: BEA's New Featured Measures of Output and Prices. *Survey of Current Business*, Vol.75, No.7, 31-38

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