

Contents

Executive summary	1
<i>A. Dierx, F. Ilzkovitz, K. Sekkat</i>	
Chapter 1: European integration and the functioning of product markets: selected issues	9
<i>A. Dierx, F. Ilzkovitz, K. Sekkat</i>	
Introduction	13
1. Analytical framework	14
2. Strategic response by enterprises	18
3. The evolution of industrial specialisation within the European Union	22
4. Economic integration and macroeconomic stabilisation in the EU	26
Conclusion	30
References	31
Chapter 2: EMU and the integration of European product markets	33
<i>R. Davidson, S. Davies, M. Gasiorek, B. Lyons, D. Ulph, R. Vaughan, A. Winters</i>	
Introduction	37
Executive summary of key findings	38
1. Analytical background	41
2. Price transparency and market equilibria	52
3. Interpreting European price data	56
4. Econometric analysis	64
5. Market efficiency and the evolution of EU concentration	68
6. Using a CGE model to assess the impact of transparency	75
Annex	96
References	98
Chapter 3: Determinants of industrial concentration, market integration and efficiency in the European Union	103
<i>R. Veugelers, L. Sleuwaegen, I. De Voldere, J. Reynaerts, K. Rommens, L. Rondi, D. Vannoni, L. Benfratello, S. Davies, P. Egger, M. Pfaffermay</i>	
Executive summary	107
Introduction	109
1. The impact of market integration on corporate structure	110
2. The EU market share matrices	116
3. Some key industry and firm characteristics	119
4. An analysis of trends in key market characteristics across industries and firms	128
5. A focus on individual sectors and firms	172
6. Concentration in European manufacturing and its effect on price dispersion, productivity and profits	190
Conclusion	198
References	201
Appendix on the MSM methodology	205

Chapter 4: The location of European industry	213
<i>K. H. Midelfart-Knarvik, H. G. Overman, S. J. Redding, A. J. Venables</i>	
Introduction	217
1. Data and measurement	219
2. The specialisation of countries	220
3. The location and concentration of industries	231
4. Econometric analysis	243
5. Service industries in the European Union	249
6. An EU–US comparison	253
Conclusion	256
Appendices	257
References	269

Chapter 5: Sector sensitivity to exchange-rate fluctuations

M. Fouquin, K. Sekkat, L. Nayman, J. Malek Mansour, N. Mulder

Executive summary	271
1. Do fluctuations of the dollar still matter for Europe?	275
2. How to measure European industry sensitivity to US dollar fluctuations	278
3. The sector exposure for the EU-15	283
4. The estimation of sectors' sensitivity to exchange-rate fluctuations	290
5. Euro-dollar exchange-rate global impact on European trade	294
6. Asymmetries within EU	305
Conclusion	312
References	319
Appendices	320
	323

List of tables

Table 1	The effects of the SMP and EMU on EU product markets	14
Table 2	Evolution of the production and trade specialisation of the EU Member States (1970–97)	23
Table 3	Evolution of intra-industry trade inside the EU (1970–97)	24
Table 4	Convergence of factor endowments between EU Member States	24
Table 5	Impact of integration	50
Table 6	Summary statistics of coefficients of variation, unbalanced sample, March 1994 to March 1996	57
Table 7	Country effects in normalised prices	60
Table 8	1993 snapshot for PLI data	66
Table 9	1997 snapshot for PLI data	66
Table 10	Changing concentration and intra-EU multinational activity in the sample of industries	70
Table 11	Industry characteristics	79
Table 12	Detailing the experiment	81
Table 13	Percentage change in output by industry	83
Table 14	The impact of transparency by country	89
Table 15	The impact of monetary union in Europe	90

Table 16	Actual and simulated differences in European price dispersion	92
Table 17	The impact of transparency by country	93
Table 18	Transparency and welfare: % change in compensating variation as a proportion of manufacturing value added	94
Table 19	Definition of A. C. Neilsen sample of consumer products	97
Table 20	Sectoral characteristics of the 1997 matrix	119
Table 21	Coverage and concentration by sector, 1997	120
Table 22	Geographic dimensions of the 1997 matrix	121
Table 23	Summary statistics by Member State, 1997	122
Table 24	Sectoral and geographic dimensions of the 1987–93–97 matrices	124
Table 25	Coverage and concentration by sector, 1987–93–97	125
Table 26	Summary statistics by Member State, 1987–93–97	127
Table 27	Deriving the weighted average C5	128
Table 28	Applying the two typologies to disaggregate	129
Table 29	Frequencies of change in C5	130
Table 30	The outliers in more detail	131
Table 31	Some descriptive simple regressions	131
Table 32	Turbulence in top five leadership by industry, 1987–93–97	133
Table 33	Decomposition of C5 1997	137
Table 34	Decomposition of the average C5 in 1997	138
Table 35	Sectors with a substantial new entry market share in 1997	139
Table 36	Sectors with a dominant and persistent leader	142
Table 37	Sectors with a dominant but non-persistent leader	143
Table 38	Sectors with high C1 1987, high C1/C5 1987 and stable leader	143
Table 39	Country shares of matrix production, 1997	144
Table 40	Home production versus foreign firm production by Member State, 1997	145
Table 41	Country shares of foreign firm production, 1997	146
Table 42	Country shares of matrix production, 1987–97	146
Table 43	Number of firms and average home production per firm, 1987–97	147
Table 44	Share of home production versus foreign firm production in total production located in a country, 1987–97	147
Table 45	Concentration of total foreign firm production, 1987–97	148
Table 46	Overall, geographical dispersion of matrix production within the EU, 1987–97	150
Table 47	Industries with highest and lowest level of geographical dispersion, 1997	151
Table 48	Industries with largest positive and negative change in geographical dispersion, 1987–97	153
Table 49	Industries with largest positive and negative change in entropy between, 1987–97	153
Table 50	Geographical dispersion by different product-type industries, 1987–97	154
Table 51	Geographical dispersion and SMP sensitivity, 1987–97	154
Table 52	Geographical dispersion at the individual firm level, 1987–97	155
Table 53	Changes in multinationality of EU matrix firms, 1987–97	156
Table 54	Multinationality and firm size, 1987–97 (average values)	157

Table 55	Number of transnationals and country of origin (simple frequencies), 1987–97	158
Table 56	Multinationality and country of origin (average values), 1987–97	158
Table 57	Multinationality of EU matrix survivors, 1987–97	158
Table 58	Multinationality of EU versus non-EU firms, 1987–97 (average values)	159
Table 59	Multinationality by different product-type industries, 1987–97	160
Table 60	Multinationality and SMP sensitivity, 1987–97	160
Table 61	Changes in the matrix between 1987, 1993 and 1997	161
Table 62	Diversification by firm size, 1987–93–97 (three-digit)	162
Table 63	Diversification by country of origin 1987–93–97	164
Table 64	Distribution of diversification across firms, 1987–93–97	164
Table 65	Distribution of diversification across firms, 1987–93–97	165
Table 66	Changing diversification strategies. The transition matrix from 1987 to 1997	166
Table 67	Diversification by industry type; 1987–93–97	167
Table 68	Diversification of survivors, entrants and exitors, 1987–93–97	169
Table 69	The incidence of diversified and multinational firms in 1987 and 1997	169
Table 70	Correlation matrix of firm diversification, multinationality, size, and growth	170
Table 71	Growth rates of size, diversification and multinationality by initial (1987) levels of diversification	171
Table 72	Overview of Danone's activities and its positioning	173
Table 73	Internationalisation of Danone	174
Table 74	The top five players in each of Danone's main sectors	175
Table 75	Dynamic overview of multinationality and diversification ratios of Danone and Nestlé	175
Table 76	Companies' rank in the pasta industry	178
Table 77	EU leaders' product and geographic diversification (numbers equivalent)	178
Table 78	Growth rates of producer price in some EU countries between 1988 and 1996 (percentages)	180
Table 79	Five leading brewers in the EU	183
Table 80	Level of diversification of leading European brewers	184
Table 81	Level of production multinationality	185
Table 82	Some key characteristics of ICT	186
Table 83	Multinationality in ICT	187
Table 84	Top 5 Matrix firms in sectors 23–26 (1997)	188
Table 85	In- and outward diversification within sectors 23–26 (1997)	188
Table 86	In- and outward diversification between sectors 23–26 and 19 (1997)	189
Table 87	Descriptive statistics — quantiles of entropy of multinational production, 1987–97	191
Table 88	Descriptive statistics — quantiles of concentration ratios (CR5), 1987–97	191
Table 89	Regression analysis of productivity growth in European industry	193
Table 90	Descriptive statistics — price convergence across industries	194
Table 91	Descriptive statistics — convergence in price level and concentration, 1993–96	194
Table 92	Regression results — convergence in price	195
Table 93	Descriptive statistics — convergence in price level and multinationality, 1993–96	195
Table 94	Price cost margins and concentration in EU manufacturing, 1987–93–97	196

Table 95	Industry classification	209
Table 96	Krugman specialisation index (production data, four-year averages)	221
Table 97	Summary measures of relative shares	222
Table 98a	Bilateral differences, 1980–83	224
Table 98b	Bilateral differences, 1994–97	224
Table 99a	Krugman specialisation index: exports (four-year averages)	225
Table 99b	Krugman specialisation index: imports (four-year averages)	225
Table 100	Industry characteristic bias 1994/97	230
Table 101	Regional structure of European manufacturing	231
Table 102	Change in sectoral Gini coefficients of concentration	232
Table 103	Industries grouped by levels and changes in concentration	233
Table 104	Industry characteristics	236
Table 105	Interaction variables	244
Table 106	Regression results	247
Table 107	Country shares of the EU financial, insurance, real estate and business service sector (FIRE)	251
Table 108	Service-intensive industries	251
Table 109	Gini coefficients of specialisation: United States and EU	253
Table 110	Gini coefficient of concentration: United States and EU	254
Table 111	European and US motor vehicle production	254
Table 112	EU conditional spatial separation/US conditional spatial separation	255
Table 113	Country characteristics (1990)	259
Table 114	Gini coefficient of concentration (EU-14)	262
Table 115	Spatial separation (EU-14)	263
Table 116	Gini coefficient of concentration (US-51)	263
Table 117	Daisie (EU-14), industry classification	264
Table 118	Daisie (EU-14)	266
Table 119	EU-15: the nature of intra- and extra-EU trade (1996)	279
Table 120	International trade by currency: some estimates (%)	285
Table 121 i	Currencies' relative volatility to the dollar or to the ecu	286
Table 121 ii	Currencies' relative volatility to the dollar or to the ecu	287
Table 122	Market shares in the European Union, the dollar zone and third countries, 1996	291
Table 123	The sector exposure of EU-15 to the competition from the dollar zone, 1996	293
Table 124	Selected sector indicators: EUR-11	295
Table 125	Estimation results of equations (3) and (4)	298
Table 126	Import and export equation: t-statistics for equality of exchange-rate coefficients for couples of sectors	299
Table 127	Estimation results of equations (10) and (11) using concentration ratio	301
Table 128	Estimation results of equations (10) and (11) using the segmentation indicator	302
Table 129	Estimation results of equations (10) and (11) using the intensity of scale economies	303
Table 130	Estimation results of equations (12) and (13) using all market structure indicators	304
Table 131	Four sectoral types	306

Table 132	Changes in market shares following a 10 % depreciation of the dollar	307
Table 133	Industry and market structures in the EU-15, in 1996	309
Table 134	Four market types.	310
Table 135	Summary of sectoral characteristics — strongly exposed sectors in the EUR-11.	311
Table 136	Indicators of exposure for France, Germany and UK to competition from the dollar zone	313
Table 137	Global exposure of individual EU members	313
Table 138	Indicators of exposure for Ireland and Portugal to competition from the dollar zone, 1996.	314
Table 139	Sectors exposure to the dollar zone	315
Table 140A	Asymmetries by country and by industry	315
Table 140B	Asymmetries by country	316
Table 141	Breakdown of value added and employment according to the nature of the industries involved, 1996.	317
Table 142	Asymmetrical shock-sectors: sensitivity to exchange-rate fluctuations	317
Table 143	High exposure/high sensitivity ‘asymmetric’ sectors, in % of total in the country	318

List of figures

Figure 1	Changes in production and trade specialisation (1988–98)	23
Figure 2	Typology of economic shocks	27
Figure 3	Production share of US dollar sensitive sectors (Average 1995–99).	29
Figure 4	Analytical framework for analysing the impact of integration	46
Figure 5	Impact of integration on market structure and on prices	47
Figure 6	Impact of integration in R & D and advertising-intensive industries	49
Figure 7	Mean cv over time, EUR-16, unbalanced sample	58
Figure 8	CVs for Core-four and non-core	59
Figure 9	Weighted and unweighted CVs, March 1996, Neilsen sample	59
Figure 10	Core vs non-core CVs, NACE-2, 1997	63
Figure 11	Correlation of output changes	84
Figure 12	Change in consumer transparency: correlation of changes with key characteristics	85
Figure 13	Change in producer transparency: correlation of changes with key characteristics	87
Figure 14	Correlations in changes in concentration, output and mark-up	88
Figure 15	Recent changes in industry globalisation drivers	111
Figure 16	Transition from fragmented national markets to a single European market	113
Figure 17	Linking turbulence to changes in concentration	141
Figure 18	Change in distribution of relative entropy across industries, 1987 versus 1997	152
Figure 19	Market share of top one, two or three brewers, 1997 (number of brewers in brackets)	182
Figure 20	Countries grouped by EC entry date	222
Figure 21	Industry characteristic bias of countries.	227
Figure 22	Industry characteristic bias of countries.	228
Figure 23	Industry characteristic bias of countries.	229
Figure 24	Industry Gini coefficients: industries grouped by performance.	233
Figure 25a	Country characteristic bias of industries: market potential	238
Figure 25b	Country characteristic bias of industries: wage	239

Figure 25c	Country characteristic bias of industries: high skills	240
Figure 26	Spatial separation of manufacturing industries	241
Figure 27	Share of employment in the service sector.	249
Figure 28	Gini coefficient of concentration — EU services	250
Figure 29	EU-12: the nature of intra-EU trade (1980–95)	280
Figure 30	Unit labour costs in manufacturing (1990 = 100)	281
Figure 31	US dollar/euro and yen/euro exchange rates, 1979–98	282
Figure 32	Market penetration (M/D), Manufactures 1970–96.	292