Index

accrued exchange rate variability, decreases trade volumes 221
ACNelison and current PLI data, less dispersion inside than outside the core 30
aggregate production, concentrated in regions closest to largest markets 4
Aiginger, K. 5, 250
alcohol and spirits 35–6
Allen, C. 245–6
Amiti, Mary 115, 250
analytical framework 2–5
arbitrage between countries, consumers, distributors and wholesalers 6
arbitrageurs, additional suppliers to consumers 21
Asian emerging countries 198, 207
asymmetric shock affects countries differently 239
do euro/dollar fluctuations represent? 241–2
sectoral sensitivity to exchange rate fluctuations 241–2
weights of sectors sensitive to exchange rate fluctuations 242–3
asymmetries of shocks, losing policy instrument and 239
Austria 16, 25, 100, 122
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
industry characteristic 1994/97 132
(economies of scale, technology) 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data 33
regional structure of manufacturing 133

BACH database 246
Baldwin, R. 205, 240
barrier reduction, structural change which impacts on allocative and structural changes 17
Barro, R.J. 108–109
basic chemicals, fall in market concentration 90
Belgium 25
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
industry characteristic 1994/97 132
(economies of scale, technology) 129
factor intensities 130
intermediate goods usage and functional destination of output 131
Krugman specialisation index 119
exports and imports 126
PLI data 33
regional structure of manufacturing 133
Belgium-Luxembourg diversification, industrial and geographical (1987–93–97) 72
impact of transparency 53
imports and exports 213
intra-industry trade (1980–2001) 252
treated as single country 41
Benelux 34
Bertrand-Nash equilibrium 20–21, 23
bilateral measures for 1980/83 and 1994/97 122–4
Blanchard, O. 179, 182
bilateral measures for 1980/83 and 1994/97 122–4
Brühlhart, Marius 115, 134
buyer price transparency, important for comparing same brand in different locations 39
C5 ratio 89, 92–3, 96, 111
collusion and 97, 105
decomposition of average (2000) 98
 calibrated elasticity, concentration in industry and returns to scale 45–6
Canada 214, 242
capital, assumed to be mobile internationally 41
car distribution, preserved international price differences 39
Caves, R.E. 71, 96
Central and Eastern European countries (CEECs) 207
central locations, industries higher up the value chain 114
centrality, important for intensive users of intermediate goods 115
Centre d’Études Prospectives et d’Informations see CEPII
Centre for Economic Policy Research see CEPR
CEPII 250, 252–3
CEPR 250, 253
CGE 192
15 countries and 50 manufacturing sectors 6, 40
comparison of competition effects across Single Market 245
numerical specification of 44
simulations show that EMU should increase output and lower mark-ups 246
change in consumer transparency 44–6
change in dominance through changing share, reflected in change in C5 concentration ratio 97
change in producer transparency 46–7, 49
changes in concentration
high concentration sectors 94–5
low concentration sectors 95
matter because of effect on market power and efficiency 107
changes in identity of leading firms, entry of new firms 97
changes in industrial and geographical diversification (1987–97)
changes in distribution of diversification across firms 66–9
changes in diversification patterns 65–6
MSM data 64–5
changes in market shares following 10 per cent depreciation of dollar 224–5
changes in production and trade specialisation (1988–98) 250–51
characteristics of industries 145
characteristics of location countries 115
Classification of Economic Activities within European Communities (NACE) 30
clustering 113, 121, 142–3
collusion
C5 ratio 97
dominant and persistent leader in industry and 105
easier when limited number of similar leading firms 96
collusive potential, high concentration and high stability and 96–7
commodity structure, defined by NACE 3-digit industries 41
Community protectionism, fear of firms outside EC 63
comparative advantage, industrial relocation and 113
comparison of EU and US economic geographies 115
competition
channelled into advertising and/or R&D 36–7
concerns both European and foreign markets 241
Index

lower barriers to market entry and price transparency 238
products most exposed to 242
role of prices depends on degree of product differentiation 227
competition policy, risk of collusion and 4

competitive effect 18, 34
computable general equilibrium model see CGE
concentrated industries, productivity and profitability higher 8
concentration 199, 216, 242
average change in 100–101
dynamics and 232
measured by share of five largest firms in European production 227
significant for imports 221
uncorrelated with average level of price dispersion 109
concentration, efficiency and market power 106–109
concentration of industries 157–8
concentration for sectors with no or little turbulence 98–9

conceptual framework
elasticity of trade 204–207
exposure 200–204

conditional spatial separation index, definitions 160
consumer price transparency 6, 246
consumer and producer transparency 44
‘Core’, EU-12 DM-zone + France 25, 29–30
core and non-core countries (1997) sample 30
correlation between changes, concentration and output and mark-up changes 48
correlation coefficient for productivity growth and concentration, positive 107–109
correlation matrix of levels and changes in industrial and geographical diversification and firm size 77–8
cost considerations and exchange rate, important determinants of trade 221
countries
comparative advantage (1970) weakened over following decade 122
different industrial specialisations 254
grouped by EC entry date 119–20
with volatility in unemployment rates, also trend unemployment 180
country specialisation, changes in 2
country-specific shocks, unimportant in European context 239
Cournot competition 205
switch to Bertrand competition 18
cross-entries of markets, within EC (mergers and acquisitions) 63

Davies, S.W. 63, 69, 85, 87, 91–3, 216, 227
decomposition of average C5 (2000) 99–100
deficit stabilisation, achieved by reducing labour taxes 188–9
demand-side strategies, reduce elasticity of demand 248

Denmark
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
impact of transparency 53–4
imports and exports 213
industry characteristic bias 1994/97 132
(economies of scale, technology) 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
lowest diversification 73
PLI data 33
regional structure of manufacturing 133
depreciation
10 per cent, decrease European market share percentage point 226
close for imports and exports where dynamics matters 221
on import side energy and electrical products affected 226
Dierx, A. 9–10, 180, 249
differentiated products in different national markets, impeding cross-border arbitrage 248
differing industry characteristics, changes in transparency and 41
diversification by industry type (1987, 1993, 1997) 75
Type 1 industries less transnational than Type 2 industries 76
diversification in relation to characteristics of firms
country of origin 71–3
firm size 69–71
industry type 73–6
dollar zone
European industries exposure to competition from 207
European sectors which compete heavily with 230
exposure of EU-15 and EMU-11 to competition from (1996) 212
exposure of EU-15 to the competition from (1996) 209–10
exposure to competition greater than average of manufacturing sector 209
products facing maximum competition from 10, 198–9, 231–2, 241
products least exposed to 231
sectors’ exposure to competition used 3-digit sector classification 213
domestic appliances 35–6, 52
internet, the and 38
dominant-firm price leadership, monopolistic solution to oligopolists pricing coordination problem 102
Dornbush, R. 205, 240
East European countries, converging to a euro peg 204
ECB
deprives national authority of economic policy instrument 239
monetary policy 188, 195
econometric analysis 31
cross-section approach 32–4
estimation 148
hypotheses and econometric specification 144–8
results 149–52
underlying forces that determine industrial location 114
econometrics, changing interaction between factor endowment and economic geography determinates of location 151
economic expansion, reducing tax burden 189
Economic and Monetary Union see EMU
economies of scale 5, 199, 216, 242
basic market conditions and 90
declining in EU 8
firms unable to exploit 85
imperfect competition and 17
key industry characteristics and 34
not significant for imports and have unexpected sign for exports 221
as production levels increase 245
scope economies and 69
education, national testing of pupils at key stages 184
effect of dollar depreciation on sectoral trade, estimated coefficients 224
effects of exchange rate movements on trade, vary across sectors 10
efficiency, measured by labour productivity growth of the industry 107
efficiency improvements, Quest II model equation (2) 177
elasticity
cost considerations and exchange rate determinates of trade 232
depends on type of competition and 240
not homogeneous across sectors 221
elasticity of trade to exchange rate fluctuations, market structure and 204
elasticity of trade volume to exchange rates 224
Electrolux-AEG merger (1994), report by European Competition Commission 38
employment, growth of product market reforms 2
EMU ix–x, 1, 8
can introduce intra-brand competition 39
effect of loss of exchange rate instrument in 254
exchange rate change not country specific but might have asymmetric effects across countries 239
increased transparency of price differences in euro area 2, 6 may not reduce dispersion 31
possible impacts of and changes in transparency 41
price transparency and 246
price transparency under could facilitate collusive practices 248
should reinforce some of benefits associated with SMP 249
SMP complemented by 181
transfer of monetary policy to European Central Bank (ECB) 238
vulnerability to asymmetric shocks 250
energy, food and paper, important to European economy 232
energy sector, highest coefficient for imports and exports 223
enterprise behaviour, reflects multinational character of the firm 244
entropy index
firms inside top 100 and geographical diversification 71, 76
greater decline than output share in secondary industries 80
survivors reduced degree of industrial diversification 68
entry into top five, internal growth or through acquisitions 97
entry of new leaders in top five position, similar production share positions of leading five firms 100
environment improvement 12
estimation results of equations (7.11) and (7.12) 222
estimation results of equations (7.4) and (7.5) 214–18, 220
effect of price significant only for exporter 218
exposure index and econometric analysis and 223
EU behind in product innovation and diffusion of new technologies 12
demand for intermediate usage of services 156
industrial structures converging 250
industrial structures diverging 115
industry remains more dispersed than US 162
influenced by SMP and strengthened by monetary integration 84
market power is price dispersion within EU, across Member States 109
performance relative to that of US 172–3
strategy to raise potential growth and narrow income gap 172
public education expenditure declined as percentage of GDP 184
reduction of barriers to cross-border activities 2–3
relative industrial structures, quantitative change (1980) 131
rising incomes lead to increasing share of services 155
service industries 152–3
aggregate trends 153–5
changing demand 155–6
turbulence in market leadership of
manufacturing companies 109
variables in market segments viewed
as important 22
EU conditional spatial separation/US
conditional spatial separation
160–61
EU enlargement
expansion of Internal Market x
factor in product specialisation 8
might not reduce exposure to dollar
zone 211
EU firms
(1993) transition year with firms
undergoing rationalisations 65
entry of new comers from firms
located outside EU 85
geographical diversification allows
expansion of production 247
industrially diversified (1987)
reduced industrial
diversification 80–81
industrially and geographically
diversified has increased
(complementarity) 80
industrially and geographically and
those with only one option 77
large exhibit industrially illogical
diversification 69–70
largest increased diversification in
run-up to (1992) 70–71
multinational production across
Member States 247
non-recoverable fixed costs of entry
into foreign markets 205
outsourcing and 63
reduced industrial diversification 65
and increased geographical 247
refocus on core businesses 7, 63,
65–6, 68, 80, 247
should focus attention on reducing
production costs and 247, 256
size measured by value of sales of
goods produced in EU 86–7
smaller countries, higher level of
geographical diversion 73
EU GDP per capita, 70 per cent of
level of US 11
EU leading firms, diversification
strategies 79
EU market, unified pricing strategy 52
EU Member States
benefits of liberalisation in energy
184, 187
changes in inter-industry
specialisation 250
consumers’ awareness of price
differences encourages price
arbitrage 246
convergence between firms
originating in different 73
convergence of corporate structures
7, 80
convergence of factor endowments
250, 253, 255
firms from smaller transnational
except Spain 73
impact of European integration will
differ between 237
increase in production specialisation
255
lifelong learning and 185
no major exposure to asymmetric
shocks is expected 255
obstacles to market entry 12
production specialisation influenced
by structural factors 153–4
rise of Grubel-Lloyd index confirms
increase of intra-industry trade
250
time required to set up private
limited company 182
weight of exchange rate sensitive
sectors varies by factor of four
across 254
EU welfare, impact of changes in
concentration 107
EU-12, diversification, industrial and
EU-US comparison 157
evolution of specialisation and
concentration 157–8
living standards 11
motor vehicle industry 158–60
spatial separation 160
EU-wide level, specialisation beneficial 151
EU-wide shock, return to core may still be in progress after (1997) 81

euro adoption eliminated exchange rate variability in 11 currencies 198
countries linked to though not members of Monetary Union 204
increase in price transparency 1 should lead to increased trade and FDI flows within euro area 249
unique currency in 12 Member States 239
euro zone definitions of 204 exposure differences when it is enlarged 209, 212
euro/dollar exchange rate, asymmetry between Member States and 9
euro/dollar exchange rate and European trade 223 barriers to trade 226–7
detailed analysis of sector characteristics 226 market structure 227–30
sectoral importance in Europe 230–31 trade elasticity and exposure to dollar zone competition 223–6
euro/dollar fluctuations areas most affected 10 asymmetric in certain conditions 240
EU Member States and asymmetric shocks 10
European manufacturing and 2, 9, 198, 231
exposure of EU Member states to 238
product market integration and EU exposure 237–8 framework for the analysis 238–41
represent asymmetric shock 243, 254
Europe companies have anticipated consequences of SMP 246
competition from US and Japanese firms 61 consumption patterns differ across 28
impact of perception about exchange rate changes on pass-through 206
key economic objective 17 single currency impact on consumer transparency 50–51
European Central Bank see ECB
European Commission (1996) 5, 107
internal market will lead to price convergence 107
European Council (Barcelona 2002), EU investment in R&D 185
European countries convergence of industrial structure (1970s) 113
motor industry less specialised that US 159
European integration asymmetric shocks if differences in industrial specialisation between countries 240
continuous process 237 convergence of factor endowments 5 differences between countries of sensitive sectors 11
location of economic activity 4 price levels and price dispersion 5
European leaders (2000), re-launch process of structural reforms in EU 11–12
European manufacturing changes in industrial and geographical diversification 61–2
changing location and dispersion of service sector 156
industrial and geographical diversification 2
market European-wide 81
phases in price-cost margins 246
spatial distribution driven by
southern Europe 142–3
European market integration 1
not necessarily slowed down 81
SMP
economic consequences 62–3
impact on industrial and
geographical diversification
of EU firms 63–4
European markets, fragmented 12
European manufacturing, spatial
distribution driven by southern
Europe 142–3
European product markets, Internal
Market for goods and 186
European Single Market, more
possibilities to specialise and 63
European and US motor vehicle
production 159
Eurostat databases 29–31, 63, 86
Eurostat’s DAISIE database 116,
120–21
Eurostat’s trend database 214, 216
evolution of industrial specialisation
within EU 249–50
empirical evidence 250–54
evolution of intra-industry trade inside
EU (1980–2001) 252
exchange rate changes, impact of
varies across sectors 232
exchange rate coefficients, generally
higher to cost coefficients 218
exchange rate depreciation, boosts
machinery and energy exports
219
exchange rate fluctuation, dispersion in
prices between US and Canadian
cities 29
exchange rate fluctuations
equations 216–17
may have different impacts across
sectors 254
sector specific characteristics and
219
sensitivity of European sector
198–200
export markets, most-exposed
industries 242
export specialisation 5
no clear increase 8
exposure
comparisons of EU-15 and EU-11
213
increase of degree stems from three
factors 211
measured by indicator which shows
dollar zone larger than US 231
stronger with EMU enlarging to
UK, Sweden and Denmark 211
exposure index 201–202
exposure indicator 241
countries not equally exposed to
competition from dollar zone
242
exposure indicator and elasticity
estimates, sectoral classification
232
exposure to foreign competition,
domestic production and sales
compared to imports and exports
200
external shocks related to shifts in
demand or costs, analysis and 101
F-test, rejects null hypothesis of
common intercepts 220
failures or takeovers, industrial
concentration at European level 4
fall in price mark-up, expanding
employment and 189
FDI 35, 249
Feenstra, R. 206, 240
Feinberg, R. 206, 240
financial, insurance, real estate and
business service sector see FIRE
Finland 8, 100, 115, 125, 131
bilateral differences 1980/83 and
1994/97 123–4
employment in service sector 152
high-technology and high-skill
industries 114
impact of transparency 53
imports and exports 213
industry characteristic bias
1994/97 132
economies of scale, technology
129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data 33
regional structure of manufacturing 133
fiscal options, corporate tax reductions and 190
fiscal policy, keeps expenditure and tax rates constant 188
fixed money supply, restrictive monetary policy rule 188
Fontagné, L. 5, 253
food manufacturing, absence of competition results from protection 231
foreign direct investment see FDI
Fouquin, M. 9, 241
France 8, 25, 122, 127, 131, 192
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
Fouquin's exposure index 241
high returns to scale, high technology and educated workforce 253
impact of transparency 53
imports and exports 213
increased geographical scope within EU 80
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data and 33–4
regional structure of manufacturing 133
Frankel, J. 5, 240–41, 250
Freudenberg, M. 5, 253
Froot, K. 205–6
Gasiorek, M. 5, 41, 246, 248
GATT (successor WTO), tariff protection and 226
general market access, market potential measure for centrality of location 146
geographical concentration, more efficient logistics systems 64
geographical diversification all firms across EU borders 73
number of transnational firms increased 65
preferred route (substitutability) 80
gеographical and industrial diversification, complements or substitutes 80
Germany 8, 25, 73, 122, 131, 192
bilateral differences 1980/83 and 1994/97 123–4
exports, four industries and 242
Fouquin and exposure index 241
high returns to scale, high technology and educated workforce 253
impact of transparency 53–4
imports and exports 213
increased market concentration, reduced pass-through on price of traded and non-traded goods 240
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data and 33–4
regional structure of manufacturing 133
PLI data and reduction in diversified operations
structure of manufacturing
Germany (West), employment in service sector
Giavazzi, F. 179, 182
Gini coefficient of specialisation decline in specialisation
Gini coefficients of concentration change in sectoral
EU services
globalisation, business services and Greece
bilateral differences 1980/83 and 1994/97
employment in service sector
impact of transparency
imports and exports
industry characteristic bias 1994/97
economies of scale, technology
factor intensities
intermediate goods usage and functional destination of output
intra-industry trade (1980–2001)
Krugman specialisation index
exports and imports
low returns to scale, low technology and little education
PLI data
structure of manufacturing
Growth and Stability Pact, constrains countries’ fiscal policy
Hausman test, fixed versus random effects
Herfindahl index
heteroscedasticity, across countries and across industries
high concentration with high stability, more collusive potential
high concentration industries, decreasing production
concentration
high concentration sectors, more persistence in top five leadership
high concentration sectors in environment of low turbulence, retain or increase concentration levels
high concentration sectors high and low turbulence, differences in changes in concentration
high-tech industries, diversification came down steadily
higher concentration, should be positively related to profits
higher price transparency, characteristics of the industries
highly concentrated sectors little turbulence in concentration stay concentrated or increase concentration
horizontal differentiation, different product varieties sold at same price
Iberian Peninsula, downwards prices
IBM, leading firm in computers and office equipment
ICT usage, increasing rapidly in EU and US
illustrative macroeconomic simulation scenarios
simulation designs
macroeconomic policy responses
scenario I, an improvement in competitive conditions
scenario II, increased productivity growth
simulation results discussion of
scenario I, improvement in competitive conditions
scenario II, increased productivity growth
Ilzkovitz, F. 10, 249
IMF
International Financial Statistics (CD-ROM)
World Economic Outlook (2003), GDP increase and
immobile production factors, increase and congestion
incidence of industrially diversified and transnational firms (1987 and 1997) 77–8
increased competition, effect on production costs 3
increased transparency, increased output 6
increasing labour productivity 177–8

time adjustment 178
short-run adjustment 178
index of spatial separation 141
individual brands, considerable market power 37
industrial concentration, decline because of entry by foreign firms 4
industrial diversification declined where advertising or R&D important 80
decreasing on average and easier to follow than transnationality (1987) 77
industrial and geographical diversification, firm growth and 76–9
industrial location, skilled and scientific labour important 115
industrial specialisation, two forces working in opposite directions 5
industries declining Gini coefficients, spatially separating 143
decrease in concentration by more than 10 percentage points 90
how integrated they were prior to (1992) 93
key features of changes in 114
more dispersed till late (1980s) 144
move to exploit countries’ comparative advantages 113
traded the most 42
industries grouped by levels and changes in concentration 135
industries more imperfectly competitive, more likely to be more concentrated 45
industries relying on R&D, affected by financial variables 193
industry characteristics 42–3, 127–8, 140, 145, 150, 155

affecting change in concentration

homogenous versus differentiated industries 90
industry size 90–92
initial level of concentration 94–6
SMP sensitivity 93–4
sectoral impact of transparency 41
industry concentration changes in by sector 89–90
impact of market integration on 84–5
link with industry performance 8
industry Gini coefficients, industries grouped by performance 134, 136
industry globalisation (1980s and 1990s) 84
integrated markets, pro-competitive impact 53
integration and competition 243–4
cost reduction strategies 247
expected effects of integration on competition 244–5
impact of such strategies on industrial concentration 249
pro-competitive effects of the SMP and EMU 245–6
strategic responses by enterprises 246–7
strategies aimed at increasing market power 247–9
integration and market structure 34–5
domestic electrical appliances 38
drinks 38–9
market structure and price transparency 36–7
railway rolling stock 37
results 35–6
rubber products 37–8
soaps, detergents, perfumes and toiletries 38
interaction variables 145, 147
Internal Market, increase in intra-EU trade and investment flows 187
Internal Market Directives, not yet in national legislation 181–2
international competition
devaluation for European manufacturing and 230
European integration and the functioning of product markets

most open and closed sectors with respect to 207
international markets, firms pulled or pushed into 71
Internet shopping, not likely in tyres 38
interpreting European price data
analysis of consumer price data from ACNeilsen 24–7
analysis of PLI data from Eurostat 29–31
intra-brand competition
contrast to inter-brand competition 37
strengthening of vertical linkages 4
intra-industry trade
countries’ trade vectors more similar 127
exchange of vertically differentiated products 252
increase in 5, 255
weakened by exchange variability over (1980–94) 253, 256
Ireland 8, 122, 131
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
high-skill industries and 114
impact of transparency 53–4
imports and exports 213
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data and 33–4
reduction in diversified operations 80
regional structure of manufacturing 133
sensitive sectors and SMP 245

Japan 192, 206–207, 214, 242
Kim, Sukkoo 157–8
Klemperer, P. 205–206
Krugman, P.R. 4, 84, 173, 205, 240
approach to market integration 84–5
Krugman specialisation index 118–19, 121–2
kurtosis, evidence of increasing 121
Kwik-fit, Europe’s largest independent retailer 37

Latin American countries, dollar zone and 198
‘leader’, definition 86
leading firms, collusive outcomes and 102
legal cross-border arbitrage sales, constrained by differential indirect taxes for drinks 38
link between market size and concentration, nature of product competition 90
linking PCMs to industry concentration, weak but positive sign 105
linking (stability in) leadership to (stability in) concentration 105–106
Lisbon summit (2000)
EU’s transformation into knowledge economy 184
goal for EU and 172
reforms for Internal Market 12
structural reforms and 9
location and concentration of industries
(CC) concentrated industries 136–9
CD concentrated and dispersing industries 137
characteristics of concentrated and dispersed industries 139–41
(DC) dispersed and concentrating industries 137–8
(DD) dispersed industries 138
how concentrated are manufacturing industries? 132–7
spatial separation 141–3
location of European industry 113–16
data and measurement 116–17
location of non-manual labour-intensive industries, secondary and higher education and 114
location of R&D-intensive industries, countries’ endowments of researchers 8
‘low elasticity’ sectors, broadly similar for imports and exports 223
low elasticity-high exposure sectors, small share of manufacturing 242
low-tech and labour-intensive industries, increased concentration 8
Luxembourg 25
employment in service sector 152
PLI data 33–4
Lyons, B. 216, 227

macro-model simulation analysis 9
macroeconomic policies, strategy to reduce unemployment in Europe 179
manmade fibres, large output changes 52
manufacturing sector
more intensive users of services as intermediaries in production 155
small decrease in concentration 134
market access effect 18, 34
market integration
achieved by trade or licensing 36
changes nature of competition 84
decline in prices in EU Member States 187
easier for firms to enter other EU Member States 63
exposure to exchange rate fluctuation by conditions of competition 240
fewer firms that are larger in size 85
improves coordination possibilities for larger firms 64
industrial concentration and performance 2
raised level of competition on European product markets 254
SMP and 62
market segmentation, reasons for 22
‘market share’ in the analysis, convenient but loose term 87
Market Share Matrix see MSM
market shares in EU, dollar zone and third countries (1996) 207–8
market size effect 18, 34
market structure, impact on sectors’ elasticity 213
market types 227, 229
Martins, J. 216, 227
Martson, R. 206, 240
matrix firms
aggregate turnover almost unchanged 89
large average size 88, 111
medical and surgical equipment, no decline in price-cost margin 50
medium-term annual growth rate of EU GDP, increase to 3 per cent 12
medium-term increase in GDP, relative to baseline of 2 per cent 9
Menon, J. 206, 240
Michelin, leading firm in rubber and tyres 102
microeconomic aspects of integration 1
Midelfart, K.-H. 8, 120, 134, 157, 253
identified fourteen key industry characteristics and 253
table of spatial separation 142–3
European integration and the functioning of product markets

monopoly power, ways to create and maintain 248
more concentrated sector is, less exchange rates will affect trade 222, 232, 242
most important sectors, same irrespective of ratio considered 224
motor vehicle market, fall in market concentration 90

MSM
(1997) link between concentration and market efficiency 107
aggregate result from (1987–2000) 87–90
allows tracking production share of persistent leader 103
changes in concentration in period of market integration 107
changes in population averages and differences between industries 89
constructed for (1987) 87
demonstrated increasing size of leading firms 106
distribution of production in EU 7 firms from smaller countries under-represented 73
firms that survived in as leaders over (1987–97) 67–9
identifies set of ‘leading firms’ in European manufacturing and 64–5, 86
leaders that survived in from (1987–1997) 78
high degree of industrial diversification, declined by (1997) 80
leading firms and market share dominance 97
mapping of how industry concentration changed in EU manufacturing 109
measure whether there is persistence in dominance of five leading firms 98
measuring industry concentration in EU manufacturing 86
need to expand data over time 110
turbulence among leading firms 106
multinational enterprises see MNEs
multinationality
EU member States and 7
increase by growth of intra-EU FDI 35

NACE revision 1, fourteen sectors considered 199
NACE revision 1 classification 214
national market segmentation, firms set prices independently 52
Net External Orientation, difference between two indices 200
Netherlands 25, 122
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
impact of transparency 53
imports and exports 213
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data and 33–4
regional structure of manufacturing 133
specialisation and 118, 166, 253
new competitive market
firms improve efficiency and increase market power 249
least efficient firms forced to exit market 246
‘New Economic Geography’ 5, 13
new leaders
originate from top three or top five in industry 103–104
same production share as firms they are replacing 101
new leading position in top five, diversifying matrix firms 99
non-core prices, difference not significant 30
non-core sample, difference in dispersion 30
non-tariff barriers
industries where removal reduction of diversification 75–6
removal of ix
non-tariff protection, voluntary export restraints and 226–7
North Africa 207
northern Member States, specialised in medium and high-quality products 252
Norway 25
Notaro, G. 188, 245
OECD
(1997) study on regulatory reform 191
(1999) 115
OECD INTERLINK model, simulated calculated from 193
OECD programme, international student assessment (PISA), education and 184
OECD STAN database 116
OECD study on private bank loans 193
oil shock (1973) 61
outsourcing 63, 156
PCMs 50, 108
persistence in dominance 96–8
changes in leadership 103–105
linking (stability in) leadership to (stability in) concentration 105–106
linking turbulence to changes in concentration 100–102
persistence in top five leadership 98–9
source of entry into top five leadership 99–100
turbulence in top leadership 102
Philips, leading firm in lighting 102
PLI data (1993 and 1997) 32–4
Portugal 115, 122, 125, 478
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
impact of transparency 53–4
imports and exports 213
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
lack of success in attracting high-tech investment 151–2
low returns to scale, low technology and little education 253
PLI data 33
regional structure of manufacturing 133
positive shock to productivity 190–91
postal services, liberalisation not very advanced 184
precision instruments, decline in output 52
price comparisons, arbitrage breaks down international price discrimination 54–5
price dispersion
ambiguous effects and 24
price differences between countries 28
reduction from greater integration and 6
price leadership, mechanism used by firms to coordinate pricing decisions 102
Price Level Indices see PLI
price statistics, ‘EU-core’ and ‘non-core’ regions 29
price transparency, product markets and 18
price transparency effect 18–19, 34, 36
price transparency and market equilibria
consumer price transparency effect 20
market transparency effect 21
summary of theoretical model 19–20
transparency and arbitrage 21
European integration and the functioning of product markets

transparency and the trigger strategy 20–21

price-cost margins see PCMs

prices fall, if toughening in competitive regime 85

procedure for construction of measure of specialisation 118

producer price indexes in ECU, each country and each sector 215

producers, secret price cuts to customers 39

product differentiation strategies, can reduce elasticity of demand 248

product market deregulation, real wages fall below baseline in short run 189

product market integration improves allocative efficiency 3, 244

macroeconomic effects 9–11

microeconomic effects 5–9

product market liberalisation/deregulation, efficiency and 174, 186, 195

product market reforms demand for labour and 193

macroeconomic impact of 9 need to be introduced with labour market reforms 190

power to respond to adverse shocks 11

try to increase competition and reduce monopoly rents 173

product market reforms and macroeconomic performance 171–2

main transmission channels 174–6 increasing labour productivity 177–8

long-run adjustment 177

short-run adjustment 176–7

strengthening competitive conditions 176

policy interactions 178

need for comprehensive reform design 179

setting the stage 172–4

two-way interaction between structural reforms and macro-policies 179–80

product markets effects from economic integration and single currency 54

single currency and 49

product specialisation, gradual increase since early (1980s) 8

production concentration, changes 7

production costs, return to core business 4

production specialisation, rising since (1980s) 5, 250, 252

productivity growth appears higher where concentration declining 108

higher in industries with decreasing concentration 110

productivity growth and equilibrium, determined endogenous variables 173

Quest II model 9

basic characteristics of 174–6

equations (3) and (1) 177

fall of wages and 187

TFP and 188

R&D 34, 39

business investment insufficient 12

vertical positioning of firm and 227

R&D-based innovation, positive externalities 185

R&D-intensive industries, researcher abundant locations and 114

railway stock 34, 36–7

recent product market reforms in EU 180

fostering investment in knowledge, increasing productivity 184

human capital formation 184–5

improving competitive conditions 181

information and communication technologies (ICT) 185–6

liberalisation of the network industries 183–4

market efficiency 181–2

market integration 181

R&D and innovation 185
reduction of intra-trade barriers, re-
dispersion of economic activity
over space 5
reference currencies, US dollar and the
ECU 203
regional structure of European
manufacturing 132–3
Relative Volatility Index 203
removal of barriers, reduction in
transport and transaction costs 5
removal of barriers to trade and
investment, entry by foreign firms
244
research and advertising-intensive
firms, diversified because of
intangible assets 74
restoring productive efficiency, increase
of total factor productivity 187–8
‘return to core business’ 4, 68, 81, 248,
254
road ahead, the 11–12
Rondi, L. 7, 247–8
Rose, A.K. 5, 240–41, 250
rubber products 35–8, 52
rubber (tyres) 35
Sapir, A. 206, 219, 239, 240
Scandinavia, upwards price 5
scientists, will be produced where most
valued by industries 144–5
sector exposure for EU-15 and EU-11
207
EU-15 compared to EMU-11
209–13
indicator of exposure to competition
for EU-15  209
market share distribution 207–208
sectoral types 223–4
sectors
with high elasticity 199, 242
highest elasticity of trade to
exchange rate fluctuations 232
sectors sensitive to market integration
forces, more concentration 93
sectors’ trade elasticity to exchange
rate fluctuations
data issues 213–16
differences in elasticity across sectors
216–19
role of market structure 219–22
sectors where dynamics important,
expectations of exchange rates
and 219
segmentation 216, 221, 242
Sekkat, K. 9–10, 206, 217, 219, 240–41
seller concentration in effective
marketplace, lower 85
seller price transparency, important in
a few industries 39
Sembenelli, A. 69, 245
sensitive industries, impact of SMP on
productivity 245
sensitivity of results, size and
underlying symmetry of the
experiments 41
sensitivity to exchange rate
fluctuations, market dynamics
and 240
service sectors in Europe, integration
measures and 61
service-intensive industries, growth and
15–6
services 114, 156
shocks, fluctuations in euro exchange
rate against the dollar 254
simulation model
comparative advantage and new
economic geography forces 115
factor abundance and new economic
geography model 146
simulation results, short-run costs
minimised in wages and
employment 194
simulations, based on symmetric
calibrated transparency measures
41
single currency
CGE assessment 40–41
integrated market experiment
52–3
model, calibration and data 41–4
potential impact of monetary
union on Member States
53–4
price transparency and 49–52
transparency–industry
characteristics and market
structure 44–8
comparing prices of rival
differentiated products 39
effect on price dispersion 23
four analytically distinct effects 18
international price comparisons for brand easier 39
reduction in trade barriers 17–18
small direct impact on producer price transparency 54

European integration and the functioning of product markets

Single Market Programme see SMP
Sleuwaegen, L. 7, 62
Smith, A. 84, 246

SMP (1992) ix–x, 1, 8, 61, 84
assessment of 192
asymmetric impact across industries 247

Commission studies on impact of 191
cost-price margins have fallen in sectors sensitive to 245
de-diversification trend according to sensitivity to 75
eliminate non-tariff barriers to trade and investment 181
enterprises’ reactions to change in economic environment 1
expected to impact asymmetrically across industries 80
industries identified as being sensitive to effects of 93
Internal Market Strategy 181
main effects from 62, 192
no marked effect on location and specialisation on completion of 161
occasion for enterprises to review location of production facilities 255
price convergence in countries in EU core 5
pro-competitive effects stronger in more concentrated sectors and 254
reduce costs of trade between European economies 17
reduction in mark-ups and reduction in costs 107
‘return to core’ and geographical concentration in production (1987–97) 79
some Member States temporary derogation on key elements of 237
studies to assess pro-competitive effects of 245

SMP and EMU
European integration and market entry and 2
modify framework under which firms compete 238
pro-competitive effect and 249
raising level of competition in least competitive sectors 10
soaps, detergents, perfumes, toiletries 34–6, 38
social exclusion 12
southern Member States, specialised in low-quality products 252
Spain 192
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
impact of transparency 53
imports and exports 213
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
PLI data 33
regional structure of manufacturing 133
specialisation of countries evidence for the trade data 125–7
how similar are countries’ industrial structures? 122–5
how specialised are counties? 117–22
increase in EU countries (1980 and 1990) 250
largest changes occur in smaller EU Member States 250
monitoring across Europe crucial 249–50
what is the industrial specialisation of countries? 127–31
specialisation of locations 157–8, 167
specialised transnational firm, increased from 19 to 38 77
Spring European Council 12
stability in leadership 102–103
strengthening competitive forces, helps economies to respond to adverse shocks 174
strict regulations on entrepreneurial activity, negative effects and 182
structural reforms
decline in mark-ups in network industries 187
growth stimulus from past reforms tend to fade 194–5
impact on investment 180
impact on productive and dynamic efficiency 187
structure of product markets, composition of employment and 179
‘stylised reform shocks’ 186
summary measures of relative shares 121
supply-side strategies, limit number of companies in the market 248
survivors, relatively high diversification 67–8
sustainability of public finances, pension and health care reform 12
Sutton, J. 85, 90
Sweden 100, 125
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
impact of transparency 53
imports and exports 213
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 150
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data 33
reduction in diversified operations 80
regional structure of manufacturing 133
Switzerland 24
symmetric experiments, symmetric calibrated transparency measures 41, 44
symmetric shock, affects all countries same way 239
symmetric simulation-DSI 49, 54
telecommunications
deregulation 64
liberalisation most advanced in 183–4, 187
spending slightly above US in EU 186
textiles, largest decline in output 50
textiles and clothing, southern European countries and 8
TFP 187–8, 192–3
top five companies, lost more than half of market share position (1987–2000) 254
total factor productivity see TFP
trade cost reduction, increase intensity of competitive interaction and 17
trade-off
between industrial and geographical diversification 7
entering Member State or new industry re-balanced to transnational option 77
transnational firms, structure that allows complex strategy 64
transparency
ambiguous effects on price level in single market 23
impact of by country 52
impact on consumers, producers and arbitrageurs 52
reinforced by electronic commerce 3
transport, rights to competitive rights and 184
transportation, deregulation and 64, 84
turbulence
leading firms’ capability to maintain collusive agreements 96
market leadership in EU manufacturing industries 249, 254
turbulence and changes in concentration for selected sectors 101–102
Type 1 homogeneous product industries 73
competition very fierce 91
production more equally spread among countries 76
Type 2 industries producing differentiated products 73
level of concentration higher 92
more concentrated than Type 1 91
Type (2A) product differentiation achieved by advertising expenditure 74
food, drink and tobacco industries 91
Type (2AR) differentiation by investment and R&D 74, 92
consumer durables and 92
endogenous costs and can be entry barriers 91
higher and increasing level of geographical diversification 76
trend towards larger scale stronger 85
Type (2R) product differentiation by R&D 74
industries in engineering 91
‘typical’ industry spending on advertising and R&D 91

UK 8, 122, 131
bilateral differences 1980/83 and 1994/97 123–4
employment in service sector 152
Fouquin’s exposure index 241–2
geographical diversification 72
high technology, high returns to scale and educated workforce 253
impact of transparency 53–4
imports and exports 213
industry characteristic bias 1994/97 132
economies of scale, technology 129
factor intensities 130
intermediate goods usage and functional destination of output 131
intra-industry trade (1980–2001) 252
Krugman specialisation index 119
exports and imports 126
PLI data 33
reduction in diversified operations 80
regional structure of manufacturing 133
sensitive industries and SMP 245
UN Com-Trade database 116
UN Report (1993), shift in strategy of MNEs 64
UN UNIDO database 116
underlying industry characteristics (DDI) 53
uninational firms diversified at home, dropped from 47 to 18 77
US 192, 242
computers 207
decline in industrial concentration between (1970) and mid (1980s) 157
exchange rates used to obtain bilateral rates 215
imports and exports 214
industrial structures converging 115
motor industry has dispersed so less specialised 159
papers on exchange rates 206
production share of dollar sensitive sectors (1995–99) 243
productivity in (1990s), new technologies and 185
steady decline of specialisation of states 157
Vannoni, D. 7, 69
Venables, A.J. 8, 84, 245–6
vertical differentiation, products sold at different prices 227
Veuglers, R. 7, 87, 90, 96, 107–109, 181, 249
wages, deviations from baseline 189–90
wages rule, QUEST II model 177
weighted average C5-concentration ratio 89, 92–3, 111
welfare
changes fairly modest 54
high concentration and low turbulence detrimental for 97
increases depend on extent of consumer transparency effect 55
industries in which national market concentration high 85
White’s heteroscedastic consistent standard errors 148
WIFO (1999) 115, 120, 134
wine 35–6
within-sample exchange rate, commodity/time time dimension 29
without monetary policy, lower inflation key in crowding-in extra activity 189–90