Table of Contents

A R	eader's Guide	15
	Part I	
	Regions as the Actors of National Growth	
1.	Geographic concentration of population	20
	Geographic concentration of GDP	
3.	Geographic concentration of unemployment	32
4.	Geographic concentration of the labour force	38
5.	Geographic concentration of patents	44
6.	Geographic concentration of skills	50
	Regional contribution to national population growth	5€
8.	Regional contribution to growth in national GDP	62
	Regional contribution to national employment growth	68
10.	Regional contribution to national labour force growth	74
	Part II	
	Making the Best of Local Assets	
11.	Regional disparities in GDP per capita	82
	Regional disparities in productivity	
13.	Regional disparities in unemployment rates	94
14.	Regional disparities in participation rates	100
15.	The factors of regional competitiveness	106
16.	Labour productivity	108
17.	Industry specialisation	112
	Skills	
	The labour market	
	Commuting flows	
	Labour force participation	
22.	Ageing	132
	Part III Competing on the Bosic of Regional Well-being	
	Competing on the Basis of Regional Well-being	
23.	Accessibility: distance in time from a major centre	138

25. Education26. Health:27. Health:28. Safety:29. Safety:30. Road sat	wnership on: student enrolment in tertiary education age-adjusted mortality rate resources: number of medical practitioners reported criminal offences against property reported criminal offences against persons fety: fatal traffic accidents ment: stock of private vehicles	146 150 154 158 162 166
	Part IV Sources and Methodology	
Regional Grid	ds and Classification	177
Regional grid	s	177
Regional clas	sification	177
Indicator 1.	Population	185
Indicator 2.	Gross domestic product (GDP)	187
Indicator 3.	Unemployment	189
Indicator 4.	Labour force	191
Indicator 5.	Patents	193
Indicator 6.	Geographic concentration of skills	
Indicator 7.	Population growth	
Indicator 8.	Gross domestic product (GDP) growth	199
Indicator 9.	Employment growth	
Indicator 10.	Growth of the labour force	
Indicator 11.	, i , i , i , i , i , i , i , i , i , i	
	Average labour productivity	
	Unemployment rate	
	Participation rates	
	The factors of regional competitiveness	213
Indicator 16.	Regional differences in GDP per capita accounted by differences	
	in average labour productivity	216
Indicator 17.	Regional differences in GDP per capita that are accounted	
- ••	for by differences in industry specialisation.	218
Indicator 18.	Regional differences in GDP per capita accounted by differences	
	in skills	220
Indicator 19.	Regional differences in GDP per capita accounted by differences	
	in employment rates	223
Indicator 20.	Regional differences in GDP per capita accounted by net commuting inflows	225
Indicator 21.	Regional differences in GDP per capita accounted by activity rates	
	Regional differences in GDP per capita accounted for by ageing	
	Accessibility: distance in time from a major centre	
	Home ownership.	
	Enrolment in tertiary education	
	Age-adjusted mortality rates	

Indic	ator 27. Health resources: number of medical practitioners	239
Indic	ator 28. Reported criminal offences against property	241
Indic	ator 29. Reported criminal offences against persons	243
Indic	ator 30. Road safety: fatal traffic accidents	245
Indic	ator 31. Environment: stock of private vehicles	247
List	f tables	
1.1.	Concentration ratios	25
	Capital city regions are often the leading national centres of innovation	49
	poles of innovation	49
15.1.	Main factors of regional competitiveness	107
List o	f figures and maps	
1.1.	In 15 countries in 2001 more than one-third of the national population	
	was concentrated in only 10% of regions	21
1.2.	Canada, Australia and Iceland display the highest geographic concentration of population	21
1 2	Population density varies significantly among OECD regions	21
	More than half of the population in OECD countries live in predominantly	2.
1. 1.	urban regions	21
15	Regional share of national population: Asia and Oceania TL3	22
	Regional share of national population: Europe TL3	23
	Regional share of national population: North America TL3	24
	In 11 countries more than 40% of national GDP is concentrated	
	in only 10% of regions	27
2.2.	In 2001 Portugal, the United Kingdom and Sweden displayed the highest	
	geographic concentration of GDP	27
2.3.	In 2001 intermediate and predominantly urban regions accounted	
	for more than 86% of total OECD-area GDP	27
2.4.	The spatial distribution of GDP does not reflect the geographic distribution	
	of the population	27
2.5.	Regional share of national GDP: Asia TL3 and Oceania TL2	28
2.6.	Regional share of national GDP: Europe TL3	29
2.7.	Regional share of national GDP: North America TL2	30
2.8.	The 10% of regions with the highest concentration of GDP account	
	for a small fraction of the national area	31
	and record GDP per capita figures well above the national average	31
3.1.	On average, 37% of national unemployment in 2001 was concentrated	
	in only 10% of regions	33
3.2.	Unemployment is most concentrated in Australia and Canada	
	and least concentrated in the Slovak Republic	33
3.3.	About 47% of unemployment in OECD countries is concentrated	
	in urban regions	33
3.4.	Concentration of unemployment does not mirror concentration	
	of the labour force	33

3.5.	Regional share of national unemployment: Asia and Oceania TL3	34
3.6.	Regional share of national unemployment: Europe TL3	35
3.7.	Regional share of national unemployment: North America TL3	36
	Regional policy may make a significant contribution to the reduction	
	of total unemployment	37
4.1.	On average, 33% of the national labour force in 2001 was concentrated	
	in only 10% of regions	39
4.2.	Concentration of the labour force is highest in Canada and Australia	
	and lowest in the Slovak Republic	39
4.3.	About 53% of the labour force in OECD countries is concentrated	
2.0.	in rural regions	39
4.4	In most OECD countries, the labour force is more concentrated	
2. 2.	than population	39
45	Regional share of the national labour force: Asia and Oceania TL3	40
	Regional share of the national labour force: Europe TL3	41
	Regional share of the national labour force: North America TL3	42
	Regional policy may make a significant contribution to the increase	
1.0.	in labour market participation	43
51	On average in 2001, 54% of total patents were concentrated	
J.1.	in only 10% of regions	45
5.2	In 2001 Australia, Japan, Portugal and Korea had the highest geographic	1.5
٦.٢.	concentration of patents	45
53	In 2001 predominantly urban regions accounted for more than 81% of total	13
J.J.	OECD patents	45
54	Patents are more concentrated than the highly skilled population	45
	Regional share of national patents: Asia and Oceania TL3	46
	Regional share of national patents: Europe TL3 (Poland TL2)	47
	Regional share of national patents: North America TL3 (Canada TL2)	48
	On average, 38% of the population with tertiary-level education	-10
0.1.	is concentrated in only 10% of regions	51
62	Concentration of the population with tertiary education is highest	J1
0.2.	in Australia and Canada and lowest in Belgium and the Slovak Republic	51
63	Over 64% of the population with a tertiary-level qualification	71
	is concentrated in urban regions	51
	In all OECD countries, the highly educated population is more concentrated	71
0.4.	than the labour force	51
65	Advanced educational qualifications: Asia and Oceania TL3	52
	Population with advanced education: Europe TL3	53
	Advanced educational qualifications: North America TL3	54
	Distribution of population by levels of education in rural regions	55
	From 1996 to 2001, population growth varied significantly among	22
7.1.		57
7.0	OECD countries	3/
1.2.	but the variation in population growth rates was even wider among	5 7
7.0	regions within countries.	57 = 7
	10% of regions accounted for 57% of population increase in OECD countries	57 57
	65% of population decline in OECD countries occurred in just 10% of regions	57
7.5.	Regional population growth: Asia and Oceania TL3	58

7.6.	Regional population growth: Europe TL3	59
7.7.	Regional population growth: North America TL3	60
7.8.	On average the population grew much faster in intermediate and urban	
	regions than in rural regions	61
7.9.	Nevertheless, the highest population growth rate was recorded in a rural	
	region in six countries	61
	From 1996 to 2001, GDP growth varied significantly among OECD countries	63
8.2.	but the variation in GDP growth rates was even wider among regions	
	within countries	63
	10% of regions accounted for 47% of the increase in GDP in OECD countries	63
	84% of the decline in GDP in OECD countries took place in just 10% of regions	63
	Regional GDP growth: Asia TL3 and Oceania TL2	64
	Regional GDP growth: Europe TL3	65
8.7.	Regional GDP growth: North America TL2	66
8.8.	On average GDP grew faster in urban than in intermediate regions	
	and rural regions	67
8.9.	Nevertheless, in 12 countries the highest GDP growth rate was recorded	
	in an intermediate region	67
9.1.	From 1996 to 2001, employment growth varied significantly among	
	OECD countries	69
9.2.	but differences in employment growth were even larger among regions	
	within countries	69
	10% of regions explained 56% of employment creation in OECD countries	69
	69% of job losses in OECD countries were due to only 10% of regions	69
	Regional employment growth: Asia and Oceania TL3	70
	Regional employment growth: Europe TL3	71
	Regional employment growth: North America TL3	72
	On average, employment in rural regions grew slower than in urban, but	73
	in many countries, growth in employment was highest in a rural region	73
10.1.	From 1996 to 2001, growth of the labour force varied significantly among	
	OECD countries	75
	but the differences were even larger among regions within countries	75
	10% of regions explained 46% of the labour force growth in OECD countries	75
10.4.	44% of the decrease in the labour force in OECD countries was due	
	to only 10% of regions	75
	Regional labour force growth: Asia and Oceania TL3	76
	Regional labour force growth: Europe TL3	77
	Regional labour force growth: North America TL3	78
10.8.	On average, the labour force grew more slowly in rural regions	
	than in urban ones, but	79
	in many countries, the labour force grew fastest in a rural region	79
	GDP per capita is not equally distributed among OECD countries	83
	but disparities are even greater among regions within countries	83
11.3.	In 2001 Turkey, Mexico and the Slovak Republic displayed the highest values	
	for the Gini index	83
11.4.	59% of the population in OECD countries resides in regions with a GDP	
	per capita below the national average	83

11.5.	Regional GDP per capita: Asia TL3 and Oceania TL2	84
11.6.	Regional GDP per capita: Europe TL3	85
11.7.	Regional GDP per capita: North America TL2	86
11.8.	Urban regions enjoy higher GDP per capita than intermediate	
	and rural regions almost everywhere	87
11.9.	An intermediate or rural region recorded the highest GDP per capita	
	in only four countries	87
12.1.	Labour productivity varies significantly among OECD countries	89
12.2.	but disparities in productivity are even larger among regions	89
12.3.	In 2001, Mexico, Turkey and the United States showed the largest regional	
	disparities in labour productivity	89
12.4.	On average, 61% of workers are employed in regions of low productivity \dots	89
12.5.	Regional productivity: Asia TL3 and Oceania TL2	90
	Regional productivity: Europe TL3	91
	Regional productivity: North America TL2	92
12.8.	In most countries, productivity is high in regions with high	
	employment density	93
	but skills concentration explains high productivity only in some	93
	Unemployment rates vary significantly among OECD countries	95
	but disparities in unemployment rates are even larger among regions	95
13.3.	In 2001, Italy, Belgium and Canada showed the largest regional disparities	
	in unemployment rates	95
13.4.	In 2001, one-third of the OECD labour force lived in regions with high	
	unemployment rates	95
	Regional unemployment rate: Asia and Oceania TL3	96
	Regional unemployment rate: Europe TL3	97
	Regional unemployment rate: North America TL3	98
	There are significant differences in labour productivity among regions	99
13.9.	In several countries, low-productivity regions tend to have higher	00
	unemployment rates	99
	Participation rates vary significantly among OECD countries	
	but disparities in participation rates are even larger among regions	
	In 2001, Spain showed the largest regional disparities in participation rates	101
14.4.	In 2001, about half of the OECD working-age population lived in regions	101
115	with low participation rates	
	Regional activity rate: Asia and Oceania TL3	
	Regional activity rate: Europe TL3	
	Regional activity rate: North America TL3	
	Unemployment rates vary significantly among regions	
	Participation rates are low in high-unemployment regions	105
16.1.	In 2001, regional differences in GDP per capita due to productivity	100
160	were over 15%	108
10.2.	On average, about half of the effect of specialisation on regional performances	100
16.0	is accounted by regional type	
	Differences in GDP per capita due to productivity: Europe TL3	
16.5.	Differences in GDP per capita que to productivity: North America 112	111

17.1.	In 2001, regional differences of close to 4% in GDP per capita were due	
	to specialisation	112
17.2.	On average, about half of the effect of specialisation on regional performances	
	is due to regional type	112
17.3.	Differences in GDP per capita due to specialisation: Asia TL3 and Oceania TL2	113
17.4.	Differences in GDP per capita due to specialisation: Europe TL3	114
	Differences in GDP per capita due to specialisation: North America TL2	115
18.1.	In 2001, regional differences in GDP per capita due to skills were about 3% \dots	116
18.2.	On average, 36% of the effect of skills on regional performance is explained	
	by the regional type	116
18.3.	Differences in GDP per capita due to skills: Asia TL3 and Oceania TL2	117
	Differences in GDP per capita due to skills: Europe TL3	118
18.5.	Differences in GDP per capita due to skills: North America TL2	119
19.1.	In 2001, there were regional differences of 5% in GDP per capita due	
	to employment rates	120
19.2.	On average, about half of the effect of employment rates on performance	
	is due to the regional type	120
19.3.	Differences in GDP per capita due to employment rate: Asia TL3	
	and Oceania TL2	121
	Differences in GDP per capita due to employment rate: Europe TL3	122
	Differences in GDP per capita due to employment rate: North America TL2	123
20.1.	In 2001, there were regional differences in GDP per capita of 7% due	
	to commuting	124
20.2.	On average, 34% of the effect of commuting on GDP per capita is due	
	to the regional type	124
	Differences in GDP per capita due to commuting: Asia TL3 and Oceania TL2	
	Differences in GDP per capita due to commuting: Europe TL3	
	Differences in GDP per capita due to commuting: North America TL2	
	In 2001, there were differences of 7% in GDP per capita due to activity rates	128
21.2.	On average, about half of the effect of specialisation on regional performances	400
	is due to the regional type	128
	Differences in GDP per capita due to activity rate: Asia TL3 and Oceania TL2	
	Differences in GDP per capita due to activity rate: Europe TL3	
	Differences in GDP per capita due to activity rate: North America TL2	131
22.1.	In 2001, there were regional differences of close to 3% in GDP per capita	400
00.0	due to age	132
22.2.	On average, 46% of the effect of age on regional performance is due	100
00.0	to the regional type	
	Differences in GDP per capita due to ageing: Asia TL3 and Oceania TL2	
	Differences in GDP per capita due to ageing: Europe TL3	
	Differences in GDP per capita due to ageing: North America TL2	
	Regional accessibility varies most in Australia and United States	120
23.2.	On average, accessibility is higher for urban than for rural and intermediate	120
22.2	regions	
	Accessibility: road distances in minutes – Asia and Oceania 11.5	
	Accessibility: road distances in minutes – Europe TL3 (Poland TL2)	
/ J. J	- occessioner, rugu malgires il lilitores 5 NULLI ATTELLA (L.) IVIENICO (L./)	171

24.1.	In 2001 the proportion of owned accommodation varied significantly	
	among regions	142
24.2.	In all countries rural and intermediate regions have higher rates of home	
	ownership than the national average	142
24.3.	Home ownership by region: Asia and Oceania TL3	143
	Home ownership by region: Europe TL3	
	Home ownership by region: North America TL3	
	In 2001, enrolment in tertiary education varied significantly among regions	
25.2.	The Slovak Republic had the highest density of students in urban regions	146
	Students in tertiary education per inhabitant by region: Asia	
	and Oceania TL2	147
25.4.	Students in tertiary education per inhabitant by region: Europe TL2	148
25.5.	Students in tertiary education per inhabitant by region: North America TL2	149
26.1.	The United States shows the highest and the lowest rates of observed deaths	150
26.2.	The coefficient of variation reveals the largest regional differences	
	in United States and Australia	150
26.3.	Age-adjusted mortality rate: Asia and Oceania TL2	151
26.4.	Age-adjusted mortality rate: Europe TL2	152
26.5.	Age-adjusted mortality rate: North America TL2	153
27.1.	In 2001, regional disparities in doctors per capita were highest in Iceland	
	and Poland and lowest in New Zealand	154
27.2.	The population in urban regions tends to have access to more doctors	
	than the population in rural and intermediate regions	154
27.3.	Practicing physicians per inhabitant by region: Asia and Oceania TL2	155
27.4.	Practicing physicians per inhabitant by region: Europe TL2	156
27.5.	Practicing physicians per inhabitant by region: North America TL2	157
28.1.	The Slovak Republic displayed the highest variation in recorded offences	
	against property	158
28.2.	Crimes against property are manifestly more frequent in predominantly	
	urban regions	158
28.3.	Reported crimes against the property per inhabitant by region: Asia	
	and Oceania TL2	159
28.4.	Reported crimes against the property per inhabitant by region: Europe TL2	160
28.5.	Reported crimes against the property per inhabitant by region:	
	North America TL2	161
29.1.	In 2001 the number of reported offences against persons was unevenly	
	distributed among regions	162
29.2.	The United States and Korea show the highest frequency of recorded crime	
	in urban regions, 2001	162
29.3.	Reported crimes against the person per inhabitant by region: Asia	
	and Oceania TL2	163
29.4.	Reported crimes against the person per inhabitant by region: Europe TL2	164
29.5.	Reported crimes against the person per inhabitant by region:	
	North America TL2	165
30.1.	In 2000 road accidents were more frequent in rural and intermediate regions	166
30.2.	In 2000, Portugal and the United States showed the largest regional	
	differences in the rate of fatal traffic accidents	166

30.3.	Deaths in traffic accidents per inhabitant by region: Asia and Oceania TL2	167
30.4.	Deaths in traffic accidents per inhabitant by region: Europe TL2	168
30.5.	Deaths in traffic accidents per inhabitant by region: North America TL2	169
31.1.	In 2001, Australia and the United States had the highest number	
	of per capita private vehicles	170
31.2.	but the United States had the lowest number of vehicles per capita	
	in urban regions	170
31.3.	Number of private vehicles per inhabitant by region: Asia and Oceania TL2	171
31.4.	Number of private vehicles per inhabitant by region: Europe TL2	172
31.5.	Number of private vehicles per inhabitant by region: North America TL2	173
IV.1.	Regional typology: Asia and Oceania TL2	179
IV.2.	Regional typology: Europe TL2	180
IV.3.	Regional typology: North America TL2	181
IV.4.	Regional typology: Asia and Oceania TL3	182
IV.5.	Regional typology: Europe TL3	183
IV.6.	Regional typology: North America TL3	184