THE WORLD COMPETITIVENESS Scoreboard 2012

100.000	(I) HONG KONG I
97.755	(I) USA 2
96.679	(5) SWITZERLAND 3
95.923	(3) SINGAPORE 4
91.393	(4) SWEDEN 5
90.289	(7) CANADA 6
89.959	(6) TAIWAN 7
89.673	(13) NORWAY 8
89.257	(10) GERMANY 9
88.475	(8) QATAR 10
87.158	(14) NETHERLANDS 11
86.052	(11) LUXEMBOURG 12
84.876	(12) DENMARK 13
84.217	(16) MALAYSIA 14
83.185	(9) AUSTRALIA 15
82.486	(28) UAE 16
82.467	(15) FINLAND 17
80.142	(20) UNITED KINGDOM 18
78.565	(17) ISRAEL 19
78.465	(24) IRELAND 20
77.673	(18) AUSTRIA 21
76.747	(22) KOREA 22
75.769	(19) CHINA MAINLAND 23
74.881	(21) NEW ZEALAND 24
73.484	(23) BELGIUM 25
71.541	(31) ICELAND 26
71.354	(26) JAPAN 27
71.285	(25) CHILE 28
70.003	(29) FRANCE 29
69.001	(27) THAILAND 30
10 20 30 40 50	0 60 70 80 90 10

6

THE WORLD COMPETITIVENESS Scoreboard 2012

66.947	(33) EST	ONIA 31				
66.892	(36) KAZAKH	STAN 32				
66.187	(30) CZECH REPU	BLIC 33				
64.179	(34) POLAN	D 34				
63.596	(32) INDIA	A 35				
63.422	(45) LITHUANIA	36				
63.180	(38) MEXICO	37				
62.244	(39) TURKEY 3	38				
61.118	(35) SPAIN 39					
60.641	(42) ITALY 40					
60.380	(40) PORTUGAL 41					
59.499	(37) INDONESIA 42					
59.271	(41) PHILIPPINES 43					
58.711	(43) PERU 44					
57.340	(47) HUNGARY 45					
56.524	(44) BRAZIL 46					
55.667	(48) SLOVAK REPUBLIC 47					
55.159	(49) RUSSIA 48					
53.235	(53) JORDAN 49					
53.160	(52) SOUTH AFRICA 50					
52.957	(51) SLOVENIA 51					
51.893	(46) COLOMBIA 52					
48.929	(50) ROMANIA 53					
48.450	(55) BULGARIA 54					ard presents
48.197	(54) ARGENTINA 55	covered	by the ${\sf V}$	CY. The	economie	9 economies s are ranked
46.878	(57) UKRAINE 56	results fr	om the p	<mark>revious ye</mark>	ar's score	itive an <mark>d the</mark> board (2011)
45.301	(58) CROATIA 57	left are a	actually i	ndices (0	to 100) g	hown to the enerated for
43.054	(56) GREECE 58	the uniq graphics.		ose of co	nstructing	g charts and
31.454 (59) VENEZUELA 5	9					
0 10 20 3	0 40 50 60	0 70	8	0 9	0 10	00

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OVERALL RANKING AND COMPETITIVENESS FACTORS





OVERALL

Economic Performance

	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
Argentina	52	55	55	54	55	37	29	32	39	50
Australia	7	7	5	9	15	15	15	7	13	23
Austria	14	16	14	18	21	17	18	18	24	20
Belgium	24	22	25	23	25	19	10	13	23	18
Brazil	43	40	38	44	46	41	31	37	30	47
Bulgaria	39	38	53	55	54	38	26	46	48	49
Canada	8	8	7	7	6	11	16	12	12	12
Chile	26	25	28	25	28	43	35	26	17	25
China Mainland	17	20	18	19	23	2	2	3	3	3
Colombia	41	51	45	46	52	46	50	35	41	33
Croatia	49	53	56	58	57	40	43	53	56	56
Czech Republic	28	29	29	30	33	20	25	29	34	29
Denmark	6	5	13	12	13	26	23	30	40	31
Estonia	23	35	34	33	31	23	48	52	51	38
Finland	15	9	19	15	17	36	40	44	37	40
France	25	28	24	29	29	13	17	17	22	22
Germany	16	13	16	10	9	6	6	9	6	5
Greece	42	52	46	56	58	48	52	48	58	58
Hong Kong	3	2	2	- 50 - I	<u> </u>	5	3	4	4	4
Hungary	38	45	42	47	45	39	33	40	44	35
Iceland		- 15	30	31	26	3,	55	51	52	44
India	29	30	31	32	35	18	12	20	18	21
Indonesia	51	42	35	37	42	52	41	27	32	32
Ireland	12	12	21	24	20	24	37	22	28	37
Israel	20	24	17	17	19	27	38	36	36	36
Italy	46	50	40	42	40	45	47	33	38	39
Japan	22	17	27	26	27	29	24	39	27	24
Jordan	34	41	50	53	49	51	53	45	55	54
Kazakhstan	54	36	33	36	32	51	44	43	35	28
Korea	31	27	23	22	22	47	45	21	25	27
Lithuania	36	31	43	45	36	28	36	57	53	46
	5	12	- 3	-+5	12	4	4	11	9	6
Luxembourg					12			-	7	
Malaysia Mexico	50	18 46	10 47	16 38	37	8	9 28	8 25	16	10 14
			12			7	7	14	18	8
Netherlands	10	10 15	20	14 21	11 24	34	30	_	33	8 41
New Zealand	<mark> 8</mark>		9 9	3	8		19	31 19	26	41
Norway	_				-	10		-		
Peru	35	37	41	43	44	14	22	28	20	26
Philippines	40	43	39	41	43	42	51	34	29	42
Poland	44	44	32	34	34	31	39	24	31	30
Portugal	37	34	37	40	41	44	42	38	50	53
Qatar	45	14	15	8	10	25	5	2	2	2
Romania	45	54	54	50	53	35	32	47	49	52
Russia	<mark>47</mark>	<mark>49</mark>	<mark>51</mark>	<mark>49</mark>	<mark>48</mark>	<mark>49</mark>	<mark>49</mark>	<mark>49</mark>	<mark>42</mark>	<mark>45</mark>
Singapore	2	3	1	3	4	3	8	5	5	9
Slovak Republic	30	33	49	48	47	32	34	54	57	55
Slovenia	32	32	52	51	51	25	21	42	43	43
South Africa	53	48	44	52	50	55	56	56	54	57
Spain	33	39	36	35	39	30	46	41	47	51
Sweden	9	6	6	4	5	22	20	15	11	17
Switzerland	4	4	4	5	3	9	13	10	15	7
Taiwan	13	23	8	6	7	21	27	16	8	13
Thailand	27	26	26	27	30	12	14	6	10	15
Turkey	48	47	48	39	38	53	54	50	46	34
UAE				28	16				21	11
Ukraine	54	56	57	57	56	50	55	55	45	48
United Kingdom	21	21	22	20	18	16	11	23	14	19
USA	1	I	3	1	2	1	1	1	1	1
Venezuela	55	57	58	59	59	54	57	58	59	59

COMPETITIVENESS FACTORS







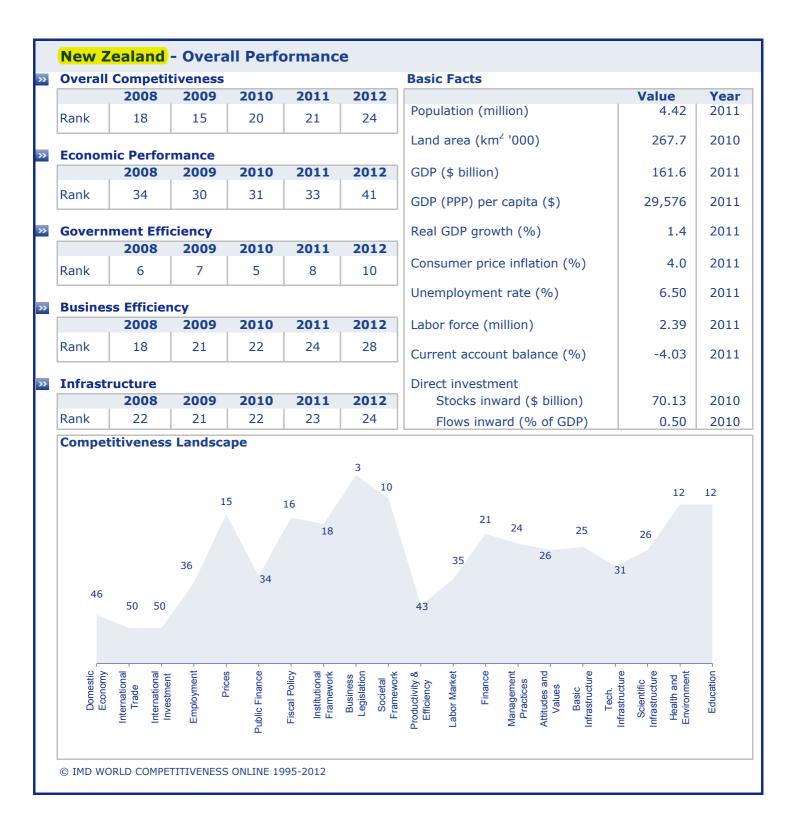
Government Efficiency

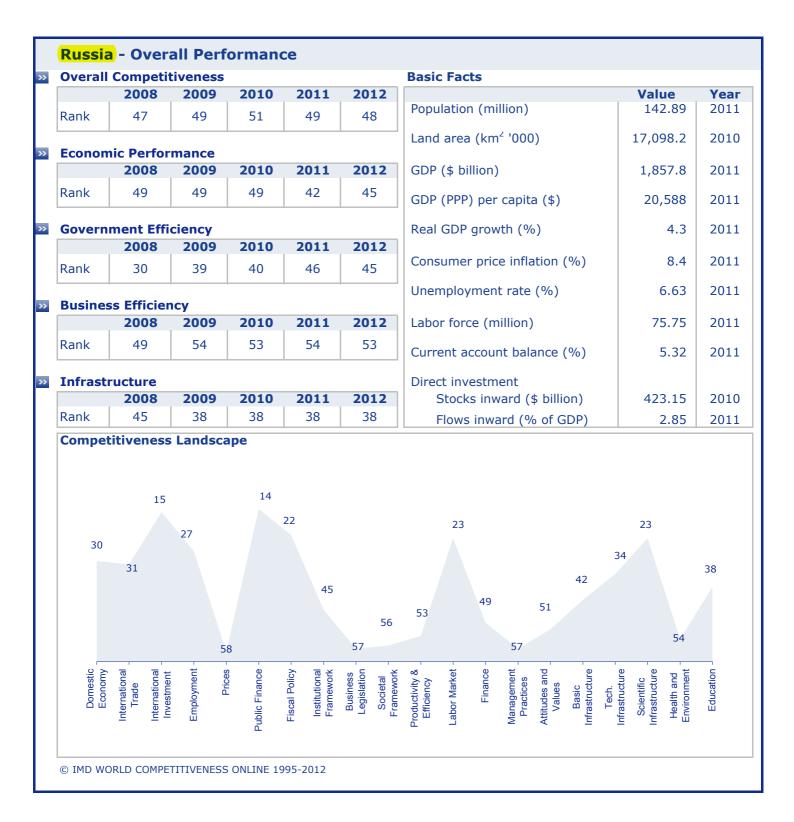
Business Efficiency

Infrastructure

	2012	2011	2010	2009	2008	2012	2011	2010	2009	2008	2012	2011	2010	2009	2008
Argentina	46	45	47	47	47	50	51	52	57	54	57	57	57	57	54
Australia	19	14	18	12	16	13	7	5	7	6	14	7	4	8	5
Austria	16	13	10	13	13	20	20	12	12	15	33	27	27	24	20
Belgium	21	19	19	15	15	29	23	30	23	23	41	39	43	37	42
Brazil	45	51	49	46	50	27	29	24	27	29	55	55	52	52	51
Bulgaria	52	53	48	43	41	59	57	56	47	48	44	41	32	28	29
Canada	6	5	4	7	8	9	8	10	9	11	9	9	10	9	8
Chile	42	40	44	36	38	21	21	21	14	22	17	12	14	13	9
China Mainland	29	28	31	32	31	32	25	28	37	33	34	33	25	15	12
Colombia	57	54	53	51	44	48	37	39	40	39	50	45	38	47	35
Croatia	41	43	42	41	40	58	59	58	55	51	54	54	55	51	50
Czech Republic	30	29	26	25	24	41	35	40	36	34	30	28	33	31	33
Denmark	4	3	5	6	7	15	6	11	2	5	11	13	11	4	4
Estonia	32	33	27	28	26	38	32	36	41	27	24	20	24	22	10
Finland	5	6	6	3	12	16	15	16	5	17	12	14	15	6	13
France	14	18	14	14		45	47	35	42	35	47	44	42	46	45
Germany	7	7	8	9	6	17	16	25	19	28	19	24	28	27	26
Greece	34	32	33	35	35	56	53	45	49	42	58	56	54	53	46
Hong Kong	18	21	23	19	19	1		2	1	1	1			2	2
Hungary	35	35	35	33	27	49	50	47	52	45	51	52	51	50	47
Iceland	10	9	9	67	40	31	34	33		20	38	40	48	25	22
India	53 56	50	54	57	49	24	22	17	11	20 44	42	29	30	35	23
Indonesia	22	55 24	55 24	55 22	53 23	35 10	33 18	34 18	38 17	44	28 20	25 30	23 19	33 12	38 7
Ireland	13	15	16	18	14	18	18	10	20	4	20	16	19	23	21
lsrael Italy	28	30	32	34	33	44	48	48	48	46	49	51	49	23 54	53
Japan	17	11	13	5	4	33	27	23	18	24	48	50	37	40	39
Jordan	47	52	52	40	34	51	52	46	44	21	31	31	39	32	25
Kazakhstan	43	46	39	44	51	34	36	29	34		18	21	20	21	23
Korea	20	20	20	20	21	25	26	27	29	36	25	22	26	36	37
Lithuania	31	36	30	29	32	36	45	41	35	41	37	47	34	25	36
Luxembourg	23	22	21	17	18	12	9	6	15	9	16	15	12	16	14
Malaysia	26	27	25	26	25	6	14	4	13	14	13	17	9	19	19
Mexico	48	49	50	50	54	42	43	51	46	55	35	43	46	45	40
Netherlands	11	12	12	11	9	14	13	15	8	12	15	18	17	14	17
New Zealand	24	23	22	21	22	28	24	22	21	18	10	8	5	7	6
Norway	9	8	7	10	10	8	12	8	10	13	6	11	7	11	15
Peru	59	58	57	49	52	40	39	42	33	30	27	36	35	41	32
Philippines	55	57	56	56	48	26	31	32	32	31	32	37	31	42	41
Poland	36	34	36	39	37	39	41	38	50	50	36	35	36	44	49
Portugal	25	25	29	24	28	47	44	50	43	43	46	48	44	29	27
Qatar	40	37	37	30		3	5	19	24		7	6	8	5	
Romania	50	42	43	53	43	52	49	49	56	47	52	49	50	49	48
Russia	38	38	38	38	<mark>45</mark>	53	<mark>54</mark>	53	<mark>54</mark>	<mark>49</mark>	<mark>45</mark>	<mark>46</mark>	<mark>40</mark>	<mark>39</mark>	30
Singapore	8	10	11	8	3	2	2	1	4	2	2	2	2	1	I
Slovak Republic	39	41	40	37	36	43	42	43	26	26	43	42	41	34	31
Slovenia	33	31	34	27	29	57	56	57	39	32	53	53	53	38	43
South Africa	54	56	51	54	55	37	40	31	30	38	29	32	21	26	28
Spain	27	26	28	31	30	46	38	44	45	40	40	38	45	43	34
Sweden	3	2	2	2	5	5	4	9	6	8	8	5	13	10	11
Switzerland	2	4	3	4	2	7	11	7	3	7	4	3	3	3	3
Taiwan	12	16	17	23	17	4	3	3	22	10	5	10	6	18	16
Thailand	49	47	46	42	39	23	19	20	25	25	26	23	18	17	22
Turkey	44	44	45	45	42	30	30	37	31	37	39	34	47	48	44
UAE	37	39				19	46				3	4			
Ukraine	51	48	41	48	46	55	55	54	53	52	56	58	56	56	52
United Kingdom	15	17	15	16	20	22	28	26	28	19	23	26	29	30	24
USA Venezuela	1				-		10	13	16	3	22	19	22	20	18
	58	59	58	52	51	54	58	55	51	53	59	59	58	55	55

_				erforma	ance				
>	Overall		itiveness				Basic Facts		
		2008	2009	2010	2011	2012	Population (million)	Value 22.62	Year
	Rank	7	7	5	9	15		22.02	2011
>	Econom	nic Perfo	rmance				Land area (km ² '000)	7,741.2	2010
		2008	2009	2010	2011	2012	GDP (\$ billion)	1,500.6	2011
	Rank	15	15	7	13	23	GDP (PPP) per capita (\$)	38,430	2011
>	Govern	ment Eff	iciency				Real GDP growth (%)	2.2	2011
		2008	2009	2010	2011	2012			
	Rank	5	8	4	7	14	Consumer price inflation (%)	3.4	2011
							Unemployment rate (%)	5.10	2011
>	Busines	s Efficie 2008	ncy 2009	2010	2011	2012	Labor force (million)	12.05	2011
	Rank	6	7	5	7	13		12.05	2011
	Rallk	0	/	5		15	Current account balance (%)	-2.22	2011
>	Infrast	ructure					Direct investment		
		2008	2009	2010	2011	2012	Stocks inward (\$ billion)	508.12	2010
	Rank	16	12	18	14	19	Flows inward (% of GDP)	2.45	2010
	10	10	19	20	24 27	8 12	6 13 20 14 22 25	15 ¹³ 30	10
	Domestic Economy	International Trade International		Prices - 84 Public Finance -	Fiscal Policy - Institutional Framework	Business Legislation Societal Framework	Productivity & Efficiency Labor Market Finance Practices Attitudes and Values Basic Infrastructure Tech.	Infrastructure Scientific Infrastructure Health and Environment	Education





APPENDIX I Methodology and principles of analysis

What is the World Competitiveness Yearbook?

The IMD World Competitiveness Yearbook (WCY) is the world's most thorough and comprehensive annual report on the competitiveness of nations, published without interruption since 1989. It is considered to be the first access point to world competitiveness, providing objective benchmarking and trends, as well as a worldwide reference point to statistics and opinion data that highlight the competitiveness of key economies. The WCY analyzes and ranks how nations and enterprises manage the totality of their competitiveness cannot be reduced only to GDP and productivity because enterprises must also cope with political, social and cultural dimensions. Therefore nations need to provide an environment that has the most efficient structure, institutions and policies that encourage the competitiveness of enterprises.

This year, the WCY provides extensive coverage of 59 economies, all key players in world markets. All economies are chosen because of their impact on the global economy and the availability of comparable international statistics.

Over 300 competitiveness criteria have been selected as a result of extensive research using economic literature, international, national and regional sources and feedback from the business community, government agencies and academics. The criteria are revised and updated on a regular basis as new theory, research and data become available and as the global economy evolves. A long-established collaboration with our Partner Institutes worldwide also helps ensure that the data is reliable, accurate and as up-to-date as possible. This year, we have the privilege of collaborating with a unique network of 54 Partner Institutes.

Who uses the World Competitiveness Yearbook?

The WCY is an invaluable, dynamic and constantly updated benchmark for decision-makers. The business community uses it to help determine and validate investment plans and to assess locations for new operations. Governments find important indicators to benchmark their policies against those of other countries, to evaluate performance over time and to learn from the "success stories" of nations that have improved their competitiveness. The academic world also uses the exceptional wealth of data in the WCY to better understand and analyze how nations (and not only enterprises) compete in world markets.

TABLE I • Competitiveness	Factors
Economic Performance (78 criteria)	Macro-economic evaluation of the domestic economy:
	Domestic Economy, International Trade, International Investment, Employment and Prices.
Government Efficiency (70 criteria)	Extent to which government policies are conducive to competitiveness: Public Finance, Fiscal Policy, Institutional Framework, Business Legislation and Societal Framework.
Business Efficiency (67 criteria)	Extent to which the national environment encourages enterprises to perform in an innovative, profitable and responsible manner: Productivity and Efficiency, Labor Market, Finance, Management Practices and Attitudes and Values.
Infrastructure (114 criteria)	Extent to which basic, technological, scientific and human resources meet the needs of business: Basic Infrastructure, Technological Infrastructure, Scientific Infrastructure, Health and Environment and Education.

How does the World Competitiveness Yearbook measure Competitiveness?

During the past two decades, the methodology to assess the competitiveness of nations has constantly been fine-tuned to take into account the evolution of the global environment and new research. In this way, the WCY keeps pace with structural changes in national environments and the rapidly changing technological revolution. We make these changes gradually so that we can continue to compare the results from year to year and highlight the evolution of an economy's performance relative to the competitiveness of others. Based on analysis made by leading scholars and by our own research and experience, the methodology of the WCY divides the national environment into four main Competitiveness Factors: Economic Performance, Government Efficiency, Business Efficiency and Infrastructure. Each of these four factors has been broken down into five sub-factors, each highlighting different facets of competitiveness. Altogether, the WCY features 20 such sub-factors. (See Tables 1 and 2).

Some of these sub-factors have been further divided into categories that define competitiveness issues more explicitly. All criteria have been grouped into these sub-factors and categories. However, each sub-factor does not necessarily include the same number of criteria (for example, it takes more criteria to assess Education than to evaluate Prices). Each sub-factor, independently of the number of criteria it contains, has the same weight in the overall consolidation of results, that is 5% ($20 \times 5 = 100$). This allows us to "lock" the weight of the sub-factors regardless of the number of criteria they include. We believe that this approach improves the reliability of the results and helps ensure a high degree of compatibility with past results. Statistics are sometimes prone to errors or omissions... Locking the weights of sub-factors has the same function as building "fire barriers"; it prevents problems from spreading in a disproportionate way. In addition, the past five years' results are shown for every economy, in order to highlight the evolution of its competitiveness.

The WCY uses different types of data to measure quantifiable and qualitative issues separately. Statistical indicators are acquired from international, national and regional organizations, private institutions and our network of 54 Partner Institutes worldwide. These statistics are referred to in the WCY as Hard Data and include 131 criteria used to determine the overall rankings and 83 criteria presented as valuable background information but not used in the calculation of the rankings. The Hard Data represent a weight of approximately two-thirds in the overall ranking. An additional 115 criteria are drawn from our annual Executive Opinion Survey and are referred to in the WCY as Survey Data. The survey questions are included in the Yearbook as individual criteria and are also used in calculating the overall ranking, representing a weight of approximately one-third.

Executive Opinion Survey

Every year, we conduct an Executive Opinion Survey in order to complement the statistics that we use from international, national and regional sources. Whereas the Hard Data shows how competitiveness is measured over a specific period of time, the Survey Data measures competitiveness as it is perceived. The survey was designed to quantify issues that are not easily measured, for example: management practices, labor relations, corruption, environmental concerns or quality of life. The survey responses reflect present and future perceptions of competitiveness by business executives who are dealing with international business situations. Their responses are more recent and closer to reality since there is no time lag, which is often a problem with Hard Data that shows a "picture of the past".

The Executive Opinion Survey is sent to executives in top- and middle management in all of the economies covered by the WCY. In order to be statistically representative, we select a



TABLE 2 • The Breakdown of Competitiveness Factors

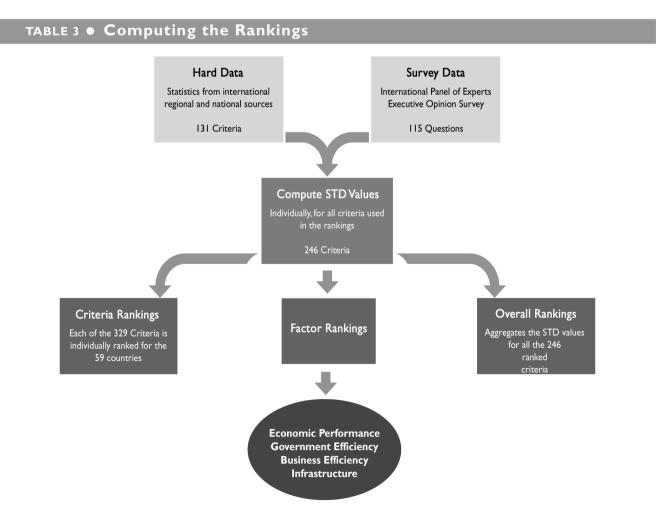
sample size which is proportional to the GDP of each economy. The sample of respondents are representative of the entire economy, covering a cross-section of the business community in each economic sector: primary, manufacturing and services, based on their contribution to the GDP of the economy. The survey respondents are nationals or expatriates, located in local and foreign enterprises in the economy and which, in general, have an international dimension. They are asked to evaluate the present and expected competitiveness conditions of the economy in which they work and have resided during the past year, drawing from the wealth of their international experience, thereby ensuring that the evaluations portray an in-depth knowledge of their particular environment. We try to contact most IMD alumni and all responses returned to IMD are treated as confidential. The surveys are sent in lanuary and are returned in April; in 2012, we received 4,210 responses from the 59 economies worldwide.

The respondents assess the competitiveness issues by answering the questions on a scale of 1 to 6. The average value for each economy is then calculated and converted into a 0 to 10 scale. Finally, the survey responses are transformed into their standard deviation values, from which the rankings are calculated.

How are the rankings computed?

The essential building block for the rankings is the standardized value for all the criteria, which we call the STD value. The first step is to compute the STD value for each criterion using the data available for all of the economies. (For more details, see Data Processing Methodology that follows). We then rank the economies based on the 246 criteria that are used in the aggregation: 131 Hard and 115 Survey data. The additional 83 criteria are presented for background information only. They are not included in the aggregation of data to determine the overall rankings. In most cases, a higher value is better, for example, for Gross Domestic Product; the economy with the highest standardized value is ranked first while the one with the lowest is last. However, with some criteria the inverse may be true, where the lowest value is the most competitive, for example, Consumer Price Inflation. In these cases, a reverse ranking is used: the economy with the highest standardized value is ranked last and the one with the lowest is first.

Since all economies' statistics are standardized, they can be aggregated to compute indices. We use these index values, which we call "scores", to compute the following rankings: the Overall Scoreboard, Competitiveness Factor rankings and



Sub-factor rankings. When data is unavailable or too old to be relevant for a particular economy, the name of the economy appears at the bottom of the statistical table for the criterion being measured and a dash is shown. In the aggregation of the statistics, all missing data are given STD values imputed from the average of existing data within the sub-factor. See Table 3: Computing the Rankings.

Data Processing Methodology

There are 329 criteria in the World Competitiveness Yearbook, of which 246 are used to calculate the Overall Competitiveness rankings. The remaining 83 criteria are presented as background information only.

Every economy's performance is assessed for each criterion using the Standard Deviation Method (SDM) which is described below. In most cases, a higher value is better, for example, for Gross Domestic Product; the economy with the highest standardized value is ranked first while the one with the lowest is last. However, with some criteria, the lowest value is the most competitive, which is the case for Consumer Price Inflation. In these cases, a reverse ranking is used: the economy with the highest standardized value is ranked last and the one with the lowest is first.

Standard Deviation Method

As most of the criteria are scaled differently, a comparable standard scale is used to compute the overall, factor and subfactor results. The Standard Deviation Method (SDM) is used. It measures the relative difference between the economies' performances; therefore, each country's relative position in the final rankings is more accurately assessed.

First, for each criterion, we compute the average value for the entire population of economies. Then, the standard deviation is calculated using the following formula:

$$S = \sqrt{\frac{\sum (x - \overline{x})^2}{N}}$$

Finally, we compute each of the 59 economies' standardized values (STD) for the 246 ranked criteria. The STD is calculated by subtracting the average value of the 59 economies from the economy's original value and then dividing the result by the standard deviation.

The STD value for criteria i is calculated as follows:

$$(STD value)_i = \frac{x - \overline{x}}{S}$$

Where:

x = original value

 $\overline{\mathbf{x}}$ = average value of the 59 economies

N = number of economies

S = standard deviation

Aggregation of Data and Rankings

Standardized values are calculated for each individual criterion, based on the STD Method described above. All Hard data indicators are reviewed to determine the shape of the distribution. Non-normal data is normalized by taking the log. The STD is then calculated using the logged values.

The sub-factor rankings are determined by calculating the average of the criteria STD values that make up the sub-factor, excluding the background criteria. All the hard data have a weight of 1. The survey data are weighted so that the survey accounts for one-third in the determination of the overall ranking. Thus, for 2012, each survey criterion has a weight of 0.55. When data is unavailable for particular economies, the missing values are replaced by STD values that are imputed from the average of existing data within the sub-factor. Taking the average for each sub-factor enables us to "lock" the weight of the 20 sub-factors independently of the number of criteria they contain so that each sub-factor has an equal impact on the overall ranking, that is 5%.

Next, we aggregate the sub-factor STD values to determine the Competitiveness Factor rankings. Only ranked criteria are aggregated to obtain these rankings. The STD values of the Competitiveness Factors are then aggregated to determine the Overall Scoreboard. All of the ranked criteria comprised in the four competitiveness factors are thus included in the consolidation of data.

The 83 remaining criteria are presented as background information only and are not included in any aggregation of data to determine rankings. Some background data are presented in ranking order while others are shown alphabetically, depending on what the data is meant to measure.

Since all of the statistics are standardized, they can be aggregated to compute indices. We use these index values, which we call "scores", to compute the rankings for the four Competitiveness Factors and the Overall Scoreboard.

It should be noted that across the four Competitiveness Factors, only one economy will have a value equal to 100 and one economy will have a value equal to 0. To calculate the Overall Scoreboard, we take the average of the four Factors' scores and then convert them into an index with the leading economy given a value of 100.

Survey Criteria

Each year we conduct a survey to quantify issues related to competitiveness for which there are no hard statistics. The survey is an in-depth 115-point questionnaire sent to topand middle management in the 59 economies covered by the WCY. The distribution reflects a breakdown of industry by sectors: Primary, Industry/Manufacturing and Services/ Finance. In order to be statistically representative, we select a sample size which is proportional to the GDP breakdown of economic sectors of the economy.

In 2012, we had 4,210 executives respond to the survey for an average of approximately 72 per economy. The target list is determined by IMD and has been developed over many years with the collaboration of our Partner Institutes worldwide. Confidentiality is ensured and the list is revised and updated every year. Respondents are only answering with regard to the economy in which they have worked and resided for the past year; therefore, the results reflect widespread knowledge about each economy and draw on the wealth of their international experience.

The respondents assess the competitiveness issues by answering the questions on a scale of 1-6, with the response I generally indicating a negative perception and 6 indicating the most positive perception. The WCY calculates the average value for each economy, then the data is converted from a I-6 scale to a 0-10 scale, using the formula below. Finally, the survey responses are transformed into their standard deviation values, from which the rankings are calculated.

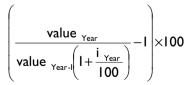
$$(x * 2) - 2$$

where x = average value

Trends

A trend or growth rate, while offering a more dynamic assessment than absolute values, is meaningful only if a economy's actual comparative advantage or disadvantage at one point in time is also measured. The formulas used to calculate trends and growth rates are explained below:

I. Annual real growth rate (i = inflation rate):



2. Average annual percentage growth rate (n = number of periods):

$$\frac{\frac{\text{value }_{Year} - \text{value }_{Year-l}}{\text{value }_{Year-l}} + \frac{\frac{\text{value }_{Year-l} - \text{value }_{Year-2}}{\text{value }_{Year-2}} + \dots}{\text{value }_{Year-2}} \times 100$$

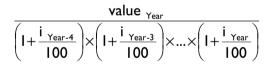
But growth formulas may have shortcomings. The average annual growth rate fails to reveal the real extent of changes, as it flattens or inflates year-to-year growth rates. For example, an average growth rate over two years might be calculated at 15 percent, while in reality there was 5 percent growth between the first and second years, and 25 percent between the second and third years. The average annual growth is used only when data vary widely in the middle years of a period, and less widely between the first and last years of the period. It is also used in cases where it is impossible to combine negative and positive initial and final values. This approach gives a more accurate picture than does the compound rate under these circumstances.

Deflated values

The following formula is used when calculating real growth rates from nominal values, because it takes into account cumulative inflation (e.g. real growth in Household Consumption Expenditure). The final deflated value is then used to obtain the annual real growth rate.

Taking a 5-year time span as an example:

Deflated final value (i = inflation rate):



Economic Performance DOMESTIC ECONOMY

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1773 LOURISM RECEIPTS (%)		
	1.2.23 Tourism receipts (%)	International tourism receipts as a percentage of GDP
1.2.24 Exchange rates Exchange rates support the competitiveness of enterprises	1.2.24 Exchange rates	Exchange rates support the competitiveness of enterprises

INTERNATIONAL INVESTMENT

Investment	
1.3.01 Direct investment flows abroad (\$bn)	US\$ billions
1.3.02 Direct investment flows abroad (%)	Percentage of GDP
1.3.03 Direct investment stocks abroad (\$bn)	US\$ billions
1.3.04 Direct investment stocks abroad (%)	Percentage of GDP
1.3.05 Direct investment flows inward (\$bn)	US\$ billions
1.3.06 Direct investment flows inward (%)	Percentage of GDP
1.3.07 Direct investment stocks inward (\$bn)	US\$ billions
1.3.08 Direct investment stocks inward (%)	Percentage of GDP
1.3.09 Balance of direct investment flows (\$bn)	US\$ billions (flows abroad minus flows inward)
1.3.10 Balance of direct investment flows (%)	Percentage of GDP (flows abroad minus flows inward)
1.3.11 Net position in direct investment stocks (\$bn)	US\$ billions (stocks abroad minus stocks inward)
1.3.12 Net position in direct investment stocks (%)	Percentage of GDP (stocks abroad minus stocks inward)
1.3.13 Relocation threats of production	Relocation of production is not a threat to the future of your economy
1.3.14 Relocation threats of R&D facilities	Relocation of R&D facilities is not a threat to the future of your economy
1.3.15 Relocation threats of services	Relocation of services is not a threat to the future of your economy
Finance	
1.3.16 Portfolio investment assets (\$bn)	US\$ billions
1.3.17 Portfolio investment liabilities (\$bn)	US\$ billions
EMPLOYMENT	
1.4.01 Employment	Total employment in millions
I.4.02 Employment (%)	Percentage of population
1.4.03 Employment - growth	Estimates: percentage change
1.4.04 Employment by sector	Percentage of total employment
1.4.05 Employment in the public sector (%)	Percentage of total employment
1.4.06 Unemployment rate	Percentage of labor force
1.4.07 Long-term unemployment	Percentage of labor force
1.4.08 Youth unemployment	Percentage of youth labor force (under the age of 25)
PRICES	
1.5.01 Consumer price inflation	Average annual rate
1.5.02 Cost-of-living index	Index of a basket of goods & services in major cities, including housing (New York City = 100)
I.5.03 Apartment rent	3-room apartment monthly rent in major cities, US\$
1.5.04 Office rent	

Government Efficiency PUBLIC FINANCE

PUBLIC FINANCE	
2.1.01 Government budget surplus/deficit (\$bn)	US\$ billions
2.1.02 Government budget surplus/deficit (%)	Percentage of GDP
2.1.03 Total general government debt (\$bn)	US\$ billions
2.1.04 Total general government debt (%)	Percentage of GDP
2.1.05 Total general government debt-real growth	Percentage change, based on national currency in constant prices
2.1.06 Central government domestic debt (%)	Percentage of GDP
2.1.07 Central government foreign debt (%)	Percentage of GDP
2.1.08 Interest payment (%)	Percentage of current revenue
2.1.09 Public finances	Public finances are being efficiently managed
2.1.10 Tax evasion	Tax evasion is being adequately addressed
2.1.11 Pension funding	Pension funding is adequately addressed for the future
2.1.12 General government expenditure (%)	Percentage of GDP
FISCAL POLICY	
2.2.01 Collected total tax revenues (%)	Percentage of GDP
2.2.02 Collected personal income tax (%)	On profits, income and capital gains, as a percentage of GDP
2.2.03 Collected corporate taxes (%)	On profits, income and capital gains, as a percentage of GDP
2.2.04 Collected indirect tax revenues (%)	Taxes on goods and services as a percentage of GDP
2.2.05 Collected capital and property taxes (%)	Percentage of GDP
2.2.06 Collected social security contribution (%)	Compulsory contribution of employees and employers as a percentage of GDP
2.2.07 Effective personal income tax rate	Percentage of an income equal to GDP per capita
2.2.08 Corporate tax rate on profit	Maximum tax rate, calculated on profit before tax
2.2.09 Consumption tax rate	Standard rate of VAT/GST
2.2.10 Employee's social security contribution rate	Compulsory contribution as a percentage of an income equal to GDP per capita
2.2.11 Employer's social security contribution rate	Compulsory contribution as a percentage of an income equal to GDP per capita
2.2.12 Real personal taxes	Real personal taxes do not discourage people from working or seeking advancement
2.2.13 Real corporate taxes	Real corporate taxes do not discourage entrepreneurial activity
INSTITUTIONAL FRAMEWORK	
Central Bank	
2.3.01 Real short-term interest rate	Real discount / bank rate
2.3.02 Cost of capital	Cost of capital encourages business development
2.3.03 Interest rate spread	Lending rate minus deposit rate
2.3.04 Country credit rating	Rating on a scale of 0-100 assessed by the Institutional Investor Magazine
2.3.05 Central bank policy	Central bank policy has a positive impact on economic development
2.3.06 Foreign currency reserves (\$bn)	US\$ billions
2.3.07 Exchange rate stability	Parity change from national currency to SDR, 2011 / 2009
State Efficiency	
2.3.08 Legal and regulatory framework	The legal and regulatory framework encourages the competitiveness of enterprises
2.3.09 Adaptability of government policy	Adaptability of government policy to changes in the economy is high
2.3.10 Government decisions	Government decisions are effectively implemented
2.3.11 Transparency	Transparency of government policy is satisfactory
2.3.12 Bureaucracy	Bureaucracy does not hinder business activity
2.3.13 Bribing and corruption	Bribing and corruption do not exist

BUSINESS LEGISLATION

Openness	
2.4.01 Tariff barriers	Tariffs on imports: Most favored nation simple average rate
2.4.02 Customs' authorities	Customs' authorities do facilitate the efficient transit of goods
2.4.03 Protectionism	Protectionism does not impair the conduct of your business
2.4.04 Public sector contracts	Public sector contracts are sufficiently open to foreign bidders
2.4.05 Foreign investors	Foreign investors are free to acquire control in domestic companies
2.4.06 Capital markets	Capital markets (foreign and domestic) are easily accessible
2.4.07 Investment incentives	Investment incentives are attractive to foreign investors
Competition and Regulations	
2.4.08 Government subsidies (%)	To private and public companies as a percentage of GDP
2.4.09 Subsidies	Subsidies do not distort fair competition and economic development
2.4.10 State ownership of enterprises	State ownership of enterprises is not a threat to business activities
2.4.11 Competition legislation	Competition legislation is efficient in preventing unfair competition
2.4.12 Parallel economy	Parallel (black-market, unrecorded) economy does not impair economic development
2.4.13 Ease of doing business	Ease of doing business is supported by regulations
2.4.14 Creation of firms	Creation of firms is supported by legislation
2.4.15 Start-up days	Number of days to start a business
2.4.16 Start-up procedures	Number of procedures to start a business
Labor Regulations	
2.4.17 Labor regulations	Labor regulations (hiring/firing practices, minimum wages, etc.) do not hinder business activities
2.4.18 Unemployment legislation	Unemployment legislation provides an incentive to look for work
2.4.19 Immigration laws	Immigration laws do not prevent your company from employing foreign labor
2.4.20 Redundancy costs	Number of weeks of salary
SOCIETAL FRAMEWORK	
2.5.01 Justice	Justice is fairly administered
2.5.02 Personal security and private property rights	Personal security and private property rights are adequately protected
2.5.03 Ageing of society	Ageing of society is not a burden for economic development
2.5.04 Risk of political instability	The risk of political instability is very low
2.5.05 Social cohesion	Social cohesion is a priority for the government
2.5.06 Gini index	Equal distribution of income scale: 0 (absolute equality) to 100 (absolute inequality)
2.5.07 Income distribution - lowest 10%	Percentage of household incomes going to lowest 10% of households
2.5.08 Income distribution - highest 10%	Percentage of household incomes going to highest 10% of households
2.5.09 Equal opportunity	Equal opportunity legislation in your economy encourages economic development
2.5.10 Females in parliament (%)	Percentage of total seats in Parliament
2.5.11 Women on boards (%)	Boardmembers of all companies analyzed by GMI
2.5.12 Gender inequality	Gender Inequality Index (UNDP)

Business Efficiency PRODUCTIVITY AND EFFICIENCY

PRODUCTIVITY AND EFFICIENCY	
3.1.01 Overall productivity (PPP)	Estimates: GDP (PPP) per person employed, US\$
3.1.02 Overall productivity	GDP per person employed, US\$
3.1.03 Overall productivity - real growth	Estimates: Percentage change of real GDP per person employed
3.1.04 Labor productivity (PPP)	Estimates: GDP (PPP) per person employed per hour, US\$
3.1.05 Labor productivity (PPP) growth	Percentage change of GDP (PPP) per person employed per hour
3.1.06 Agricultural productivity (PPP)	Estimates: Related GDP (PPP) per person employed in agriculture, US\$
3.1.07 Productivity in industry (PPP)	Estimates: Related GDP (PPP) per person employed in industry, US\$
3.1.08 Productivity in services (PPP)	Estimates: Related GDP (PPP) per person employed in services, US\$
3.1.09 Large corporations	Large corporations are efficient by international standards
3.1.10 Small and medium-size enterprises	Small and medium-size enterprises are efficient by international standards
3.1.11 Productivity of companies	Productivity of companies is supported by global strategies (supplies, offshoring, outsourcing)
LABOR MARKET	
Costs	
3.2.01 Compensation levels (\$)	Total hourly compensation in manufacturing (wages + supplementary benefits), US\$
3.2.02 Unit labor costs in the manufacturing sector (%)	Percentage change
3.2.03 Remuneration in services professions (\$)	Gross annual income including supplements such as bonuses, US\$
3.2.04 Remuneration of management (\$)	Total base salary plus bonuses and long-term incentives, US\$
3.2.05 Remuneration spread	Ratio of CEO to personal assistant remuneration
Relations	
3.2.06 Working hours	Average number of working hours per year
3.2.07 Labor relations	Labor relations are generally productive
3.2.08 Worker motivation	Worker motivation in companies is high
3.2.09 Industrial disputes	Working days lost per 1,000 inhabitants per year (average 2008-2010)
3.2.10 Employee training	Employee training is a high priority in companies
Availability of Skills	
3.2.11 Labor force	Employed and registered unemployed (millions)
3.2.12 Labor force (%)	Percentage of population
3.2.13 Labor force growth	Percentage change
3.2.14 Part-time employment (%)	Percentage of total employment
3.2.15 Female labor force (%)	Percentage of total labor force
3.2.16 Foreign labor force (%)	Percentage of total labor force
3.2.17 Skilled labor	Skilled labor is readily available
3.2.18 Finance skills	Finance skills are readily available
3.2.19 Attracting and retaining talents	Attracting and retaining talents is a priority in companies
3.2.20 Brain drain	Brain drain (well-educated and skilled people) does not hinder competitiveness in your economy
3.2.21 Foreign high-skilled people	Foreign high-skilled people are attracted to your country's business environment
3.2.22 International experience	International experience of senior managers is generally significant
3.2.23 Competent senior managers	Competent senior managers are readily available

FINANCE	
Bank Efficiency	
3.3.01 Banking sector assets (%)	Percentage of GDP
3.3.02 Financial cards in circulation	Number of cards per capita
3.3.03 Financial card transactions	US\$ per capita
3.3.04 Investment risk	Euromoney country risk overall (scale from 0-100)
3.3.05 Banking and financial services	Banking and financial services do support business activities efficiently
3.3.06 Finance and banking regulation	Finance and banking regulation is sufficiently effective
3.3.07 Financial risk factor	The risk factor in the financial system is adequately addressed
Stock Market Efficiency	
3.3.08 Stock markets	Stock markets provide adequate financing to companies
3.3.09 Stock market capitalization (\$bn)	US\$ billions
3.3.10 Stock market capitalization (%)	Percentage of GDP
3.3.11 Value traded on stock markets	US\$ per capita
3.3.12 Listed domestic companies	Number of listed domestic companies
3.3.13 Stock market index (%)	Percentage change on index in national currency
3.3.14 Shareholders' rights	Shareholders' rights are sufficiently implemented
Finance Management	
3.3.15 Credit	Credit is easily available for business
3.3.16 Venture capital	Venture capital is easily available for business
3.3.17 Corporate debt	Corporate debt does not restrain the ability of enterprises to compete
MANAGEMENT PRACTICES	
3.4.01 Adaptability of companies	Adaptability of companies to market changes is high
3.4.02 Ethical practices	Ethical practices are implemented in companies
3.4.03 Credibility of managers	Credibility of managers in society is strong
3.4.04 Corporate boards	Corporate boards do supervise the management of companies effectively
3.4.05 Auditing and accounting practices	Auditing and accounting practices are adequately implemented in business
3.4.06 Customer satisfaction	Customer satisfaction is emphasized in companies
3.4.07 Entrepreneurship	Entrepreneurship of managers is widespread in business
3.4.08 Social responsibility	Social responsibility of business leaders is high
3.4.09 Health, safety & environmental concerns	Health, safety & environmental concerns are adequately addressed by management
ATTITUDES AND VALUES	
3.5.01 Attitudes toward globalization	Attitudes toward globalization are generally positive in your society
3.5.02 Image abroad	The image abroad of your country encourages business development
3.5.03 National culture	The national culture is open to foreign ideas
3.5.04 Flexibility and adaptability	Flexibility and adaptability of people are high when faced with new challenges
3.5.05 Need for economic and social reforms	The need for economic and social reforms is generally well understood
3.5.06 Value system	The value system in your society supports competitiveness
3.5.07 Corporate values	Corporate values take into account the values of employees

Infrastructure BASIC INFRASTRUCTURE

BASIC INFRASTRUCTURE	
4.1.01 Land area	Square kilometers ('000)
4.1.02 Arable area	Square meters per capita
4.1.03 Water resources	Total internal renewable per capita in cubic meters
4.1.04 Access to water	Access to water is adequately ensured and managed
4.1.05 Access to commodities	Access to commodities (basic resources, food, etc.) is adequately addressed
4.1.06 Management of cities	Management of cities supports business development
4.1.07 Population - market size	Estimates in millions
4.1.08 Population under 15 years (%)	Percentage of total population
4.1.09 Population over 65 years (%)	Percentage of total population
4.1.10 Dependency ratio	Population under 15 and over 64 years old, divided by active population (15 to 64 years)
4.1.11 Roads	Density of the network, km roads/square km land area
4.1.12 Railroads	Density of the network, km roadsisquare km land area
4.1.13 Air transportation	
4.1.14 Quality of air transportation	Number of passengers carried by main companies, thousands
4.1.15 Distribution infrastructure	Quality of air transportation encourages business development
	The distribution infrastructure of goods and services is generally efficient
4.1.16 Water transportation	Water transportation (harbors, canals, etc.) meets business requirements
4.1.17 Maintenance and development	Maintenance and development of infrastructure are adequately planned and financed
4.1.18 Energy infrastructure	Energy infrastructure is adequate and efficient
4.1.19 Future energy supply	Future energy supply is adequately ensured
4.1.20 Total indigenous energy production	Millions MTOE
4.1.21 Total indigenous energy production (%)	Percentage of total requirements in tons of oil equivalent
4.1.22 Total final energy consumption	Millions MTOE
4.1.23 Total final energy consumption per capita	MTOE per capita
4.1.24 Electricity costs for industrial clients	US\$ per kwh
4.1.25 Gasoline prices	Premium unleaded gasoline (95 Ron) US\$ per litre
TECHNOLOGICAL INFRASTRUCTURE	
4.2.01 Investment in telecommunications (%)	Percentage of GDP
4.2.02 Fixed telephone lines	Number of main lines per 1000 inhabitants
4.2.03 Fixed telephone tariffs	US\$ per 3 minutes local call (peak)
4.2.04 Mobile telephone subscribers	Number of subscribers per 1000 inhabitants
4.2.05 Mobile telephone costs	Prepaid Mobile cellular tariffs – US\$ per minute local call, off-net (peak)
4.2.06 Communications technology	Communications technology (voice and data) meets business requirements
4.2.07 Connectivity	Connectivity of people and firms (telecom, IT, etc.) is highly extensive
4.2.08 Computers in use	Worldwide share/ Source: Computer Industry Almanac
4.2.09 Computers per capita	Number of computers per 1000 people/ Source: Computer Industry Almanac
4.2.10 Internet users	Number of internet users per 1000 people/ Source: Computer Industry Almanac
4.2.11 Fixed broadband tariffs	Monthly fee (residential), US\$
4.2.12 Broadband subscribers	Number of subscribers per 1000 inhabitants
4.2.13 Internet bandwidth speed	Per internet user (kbps)
4.2.14 Information technology skills	Information technology skills are readily available
4.2.15 Qualified engineers	Qualified engineers are available in your labor market
4.2.16 Technological cooperation	Technological cooperation between companies is developed
4.2.17 Public and private sector ventures	Public and private sector ventures are supporting technological development
4.2.18 Development and application of technology	Development and application of technology are supported by the legal environment
4.2.19 Funding for technological development	Funding for technological development is readily available
4.2.20 Technological regulation	Technological regulation supports business development and innovation
4.2.21 High-tech exports (\$)	US\$ millions
4.2.22 High-tech exports (%)	Percentage of manufactured exports
4.2.23 Cyber security	Cyber security is being adequately addressed by corporations
SCIENTIFIC INFRASTRUCTURE	
4.3.01 Total expenditure on R&D (\$)	
4.3.02 Total expenditure on R&D (\$)	US\$ millions
	Percentage of GDP
4.3.03 Total expenditure on R&D per capita (\$)	US\$ per capita
4.3.04 Business expenditure on R&D (\$)	US\$ millions
4.3.05 Business expenditure on R&D (%)	Percentage of GDP
1206 Total B&D pomorral actionwide	
4.3.06 Total R&D personnel nationwide	Full-time work equivalent (FTE thousands)
4.3.06 Total R&D personnel nationwide 4.3.07 Total R&D personnel nationwide per capita 4.3.08 Total R&D personnel in business enterprise	Full-time work equivalent (FTE thousands) Full-time work equivalent (FTE) per 1000 people Full-time work equivalent (FTE thousands)

SCIENTIFIC INFRASTRUCTURE

SCIENTIFIC INFRASTRUCTURE	
4.3.09 Total R&D personnel in business per capita	Full-time work equivalent (FTE) per 1000 people
4.3.10 Science degrees	Percentage of total first university degrees in science and engineering
4.3.11 Scientific articles	Scientific articles published by origin of author
4.3.12 Nobel prizes	Awarded in physics, chemistry, physiology or medicine and economics since 1950
4.3.13 Nobel prizes per capita	Awarded in physics, chemistry, etc and economics since 1950 per million people
4.3.14 Patent applications	Number of applications filed for residents and non-residents
4.3.15 Patent applications per capita	Number of applications filed per 100,000 inhabitants
4.3.16 Patents granted to residents	Number of patents granted to residents (average 2008-2010)
4.3.17 Number of patents in force	Per 100,000 inhabitants
4.3.18 Scientific research	Scientific research (public and private) is high by international standards
4.3.19 Researchers and scientists	Researchers and scientists are attracted to your country
4.3.20 Scientific research legislation	Laws relating to scientific research do encourage innovation
4.3.21 Intellectual property rights	Intellectual property rights are adequately enforced
4.3.22 Knowledge transfer	Knowledge transfer is highly developed between companies and universities
4.3.23 Innovative capacity	Innovative capacity of firms (to generate new products, processes and/or services) is high
HEALTH AND ENVIRONMENT	ninovaure capacity of ninis (to generate new produces, processes and/or services) is high
4.4.01 Total health expenditure (%)	Percentage of GDP
4.4.02 Total health expenditure per capita	
4.4.03 Public expenditure on health (%)	US\$ per capita Percentage of total health expenditure
4.4.04 Health infrastructure	Percentage of total health expenditure Health infrastructure meets the needs of society
4.4.05 Life expectancy at birth	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·	Average estimate
4.4.06 Healthy life expectancy	Average estimate
4.4.07 Infant mortality	Under five mortality rate per 1000 live births
4.4.08 Medical assistance	Number of inhabitants per physician and per nurse
4.4.09 Urban population (%)	Percentage of total population
4.4.10 Human development index	Combines economic - social - educational indicators/ Source: Human Development Report
4.4.11 Health problems	Health problems (sicknesses, AIDS, alcohol,) do not have a significant impact on companies
4.4.12 Energy intensity	Commercial energy consumed for each dollar of GDP in kilojoules
4.4.13 Paper and cardboard recycling rate	Percentage of apparent consumption
4.4.14 Waste water treatment plants	Percentage of population served
4.4.15 Water consumption intensity	Water withdrawal for each 1000 US\$ of GDP in cubic meters
4.4.16 CO2 emissions	Metric tons of carbon dioxide
4.4.17 CO2 emissions intensity	CO2 industrial emissions in metric tons per one million US\$ of GDP
4.4.18 Renewable energies (%)	Share of renewables in total energy requirements, %
4.4.19 Renewable technologies	Renewable technologies are quickly turned into competitive advantages
4.4.20 Total biocapacity	Global hectares per capita of biologically productive space
4.4.21 Ecological footprint	Global hectares per person
4.4.22 Ecological balance (reserve/deficit)	Total biocapacity minus total footprint in global hectares per capita
4.4.23 Sustainable development	Sustainable development is a priority in companies
4.4.24 Pollution problems	Pollution problems do not seriously affect your economy
4.4.25 Environmental laws	Environmental laws and compliance do not hinder the competitiveness of businesses
4.4.26 Climate change	Climate change is being sufficiently addressed by your government
4.4.27 Quality of life	Quality of life is high
EDUCATION	- ,
4.5.01 Total public expenditure on education (%)	Percentage of GDP
4.5.02 Total public expenditure on education (x)	US\$ per capita
4.5.03 Pupil-teacher ratio (primary education)	Ratio of students to teaching staff
4.5.04 Pupil-teacher ratio (secondary education)	Ratio of students to teaching staff
4.5.05 Secondary school enrollment (%)	
4.5.06 Higher education achievement (%)	Percentage of relevant age group receiving full-time education Percentage of population that has attained at least tertiany education for percent 25.34
	Percentage of population that has attained at least tertiary education for persons 25-34
4.5.07 Student mobility inbound	Foreign tertiary-level students per 1000 inhabitants
4.5.08 Student mobility outbound	National tertiary-level students studying abroad per 1000 inhabitants
4.5.09 Educational assessment - PISA	PISA survey of I5-year olds
4.5.10 English proficiency - TOEFL	TOEFL scores
4.5.11 Educational system	The educational system meets the needs of a competitive economy
4.5.12 Science in schools	Science in schools is sufficiently emphasized
4.5.13 University education	University education meets the needs of a competitive economy
4.5.14 Management education	Management education meets the needs of the business community
4.5.15 Illiteracy (%)	Adult (over 15 years) illiteracy rate as a percentage of population
4.5.16 Language skills	Language skills are meeting the needs of enterprises