Indonesia 45th/140

Global Competitiveness Index 4.0 2018 edition

Rank in 2017 edition: 47th/135

Performance Overview Key ♦ Previous edition △ Lower middle income group average ☐ East Asia and Pacific average 2018

	Overall Score	Enabling Environm	nent			Human Capital		Markets				Innovatio Ecosyste	
Best	USA	NZL	SGP	KOR	(31)	(4)	FIN	SGP	USA	USA	CHN	USA	DEU
100													
90					90								
80											82 -		
70	65		67		\triangle	72 Q	64			64		69	
60	Y	58	A	61			04	58	58				
50	\triangle		7	\Diamond			\triangle						
40				Δ									37
30													\triangle
20													
10													
0 Score													
	©			#	%		ष्ट		× ×		Z		
Rank /140	45th	48th	71st	50th	51st	95th	62nd	51st	82nd	52nd	8th	30th	68th
	Overall	Institutions	Infrastructure	ICT adoption	Macro- economic stability	Health	Skills	Product market	Labour market	Financial system	Market size	Business dynamism	Innovation capability

Selected contextual indicators

Population millions	262.0 GDP (PPP) % world GDP		2.55	
GDP per capita US\$	3,875.8	Unemployment rate %	4.2	
10-year average annual GDP growth %	5.5	5-year average FDI inward flow % GDP	1.9	

Social and environmental performance

Environmental footprint gha/capita	1.6	Global Gender Gap Index 0-1 (gender parity)	0.7
Inclusive Development Index 1-7 (best)	4.0	Income Gini 0 (perfect equality) -100 (perfect inequality)	39.5

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Index Component	Value	Score *	Rank/140	Best Performer
Pillar 1: Institutions 0-100 (best)	-	57.9 ↑	48	New Zealand
1.01 Organized crime 1-7 (best)	4.3	54.9 ↑	98	Finland
1.02 Homicide rate /100,000 pop.	0.5	100.0 ↑	9	Multiple (9)
1.03 Terrorism incidence 0 (very high) -100 (no incidence)	96.8	96.8 ↓	109	Multiple (24)
1.04 Reliability of police services 1-7 (best)	4.4	56.3 ↑	72	Finland
1.05 Social capital 0-100 (high)	63.0	63.0 ↑	10	Australia
1.06 Budget transparency 0-100 (best)	53.8	53.8 =	67	Multiple (2)
1.07 Judicial independence 1-7 (best)	4.4	56.6 ↑	50	Finland
1.08 Efficiency of legal framework in challenging regulations 1-7 (best)	4.0	49.8 ↑	37	Finland
1.09 Freedom of the press 0-100 (worst)	39.7	60.3 ↑	100	Norway
1.10 Burden of government regulation 1-7 (best)	4.1	52.0 ↑	26	Singapore
1.11 Efficiency of legal framework in settling disputes 1-7 (best)	4.1	52.0 ↓	46	Singapore
1.12 E-Participation Index 0-1 (best)	0.62	61.8 ↑	88	Multiple (3)
1.13 Future orientation of government 1-7 (best)	4.6	60.0 ↑	24	Singapore
1.14 Incidence of corruption 0-100 (best)	37.0	37.0 =	80	New Zealand
1.15 Property rights 1-7 (best)	4.8	62.8 ↑	47	Finland
1.16 Intellectual property protection 1-7 (best)	4.6	60.1 ↑	44	Finland
1.17 Quality of land administration 0-30 (best)	11.3	37.7 =	95	Singapore
	4.7	62.3 ↑	62	Finland
1.18 Strength of auditing and reporting standards 1-7 (best)				
1.19 Conflict of interest regulation 0-10 (best)	5.7	57.0 =	65	Multiple (2)
1.20 Shareholder governance 0-10 (best)	7.0	70.0 ↑	24	Kazakhstan
Pillar 2: Infrastructure 0-100 (best)	-	66.8 ↑	71	Singapore
2.01 Road connectivity index 0-100 (best)	34.6	34.6 =	120	United States
2.02 Quality of roads 1-7 (best)	3.9	48.1 ↓	75	Singapore
2.03 Railroad density km of roads/square km	2.5	6.1 =	82	Multiple (20)
2.04 Efficiency of train services 1-7 (best)	4.7	61.4 ↑	19	Switzerland
2.05 Airport connectivity score	972,336.6	100.0 =	5	Multiple (8)
2.06 Efficiency of air transport services 1-7 (best)	5.0	66.7 ↑	49	Singapore
2.07 Liner Shipping Connectivity Index 0–157.1 (best)	40.9	40.9 ↑	41	Multiple (4)
2.08 Efficiency of seaport services 1-7 (best)	4.2	54.1 ↑	61	Singapore
2.09 Electrification rate % pop.	91.2	91.2 ↑	98	Multiple (66)
2.10 Electric power transmission and distribution losses % output	9.4	94.3 ↓	56	Multiple (9)
2.11 Exposure to unsafe drinking water % pop.	19.2	82.5 ↓	92	Multiple (23)
2.12 Reliability of water supply 1-7 (best)	4.6	60.7 ↑	75	Switzerland
Pillar 3: ICT adoption 0-100 (best)	-	61.1 ↑	50	Korea, Rep.
3.01 Mobile-cellular telephone subscriptions /100 pop.	173.8	100.0 =	6	Multiple (68)
3.02 Mobile-broadband subscriptions /100 pop.	95.7	n/a	30	United Arab Emirates
3.03 Fixed-broadband Internet subscriptions /100 pop.	2.3	4.6 ↑	104	Switzerland
3.04 Fibre Internet subscriptions /100 pop.	1.8	n/a	51	Korea, Rep.
3.05 Internet users % pop.	25.5	25.5 ↑	110	Iceland
	25.5			
Pillar 4: Macroeconomic stability 0-100 (best)	-	89.7 ↑	51	Multiple (31)
4.01 Inflation annual % change	3.7	100.0 ↑	1	Multiple (74)
4.02 Debt dynamics 0-100 (best)	79.3	79.3 ↓	55	Multiple (36)
Pillar 5: Health 0-100 (best)	-	71.7 ↑	95	Multiple (4)
5.01 Healthy life expectancy years	62.9	71.7 ↑	94	Multiple (4)
Pillar 6: Skills 0-100 (best)	-	64.1 ↑	62	Finland
6.01 Mean years of schooling Years	7.9	52.8 =	94	Finland
6.02 Extent of staff training 1-7 (best)	4.7	61.8 ↑	29	Switzerland
6.03 Quality of vocational training 1-7 (best)	4.6	60.0 ↑	34	Switzerland
6.04 Skillset of graduates 1-7 (best)	4.7	61.1 ↓	33	Switzerland
6.05 Digital skills among population 1-7 (best)	4.7	62.2 ↓	39	Sweden
6.06 Ease of finding skilled employees 1-7 (best)	4.7	61.1 ↓	35	United States
6.07 School life expectancy Years	12.8	71.2 ↑	85	Multiple (9)
6.08 Critical thinking in teaching 1-7 (best)	4.2	52.8 ↑	29	United States
6.09 Pupil-to-teacher ratio in primary education Ratio	14.0	90.1 ↑	40	Multiple (6)
5.55 Tapin to todollor ratio in primary education natio	14.0	30.1 T	40	Multiple (0)

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Pillar 2: Product market o troo beau 4. 88.8 ± \$1 Singapore 770 Distortive effect of traces and subdiels on compellation (+1) beau 4.3 55.8 ± 34 Singapore 770 Distortive effect of traces and subdiels on compellation (+1) beau 4.1 50.5 ± 32 3.9 Seventerised 770 Compellation in controller Durina (+1) beau 4.3 56.6 ± 73 Singapore 770 To Prevalence on formatification (+1) beau 4.3 56.7 ± 77.9 ± 70 Hong Kong SARI 780 To Trace (-1) beau 2.7 4.18 ± 6 6 Germany 780 Exclusion (-1) beau 4.3 51.7 ± 89 Ecclusion 781 Fill facilities (-1) beau 4.3 51.7 ± 89 Ecclusion 782 Fill facilities (-1) beau 4.3 50.1 ± 99 Ecclusion 883 Fill facilities (-1) beau 4.3 50.1 ± 90 Multiple (4) 884 Cooperation in Labour-employer relations (-1) beau 4.5 50.1 ± 90 Multiple (4) 885 Cooperation in Labour-employer relations (-1) beau 4.5 50.1 ± 90 Multiple (4) 886 Exclusion (-1) beau 4.5 4.7 50.4 ± 90 <t< th=""><th>Index Component</th><th>Value</th><th>Score *</th><th>Rank/140</th><th>Best Performer</th></t<>	Index Component	Value	Score *	Rank/140	Best Performer
To C Internal commismon 1-7 person 1,1	Pillar 7: Product market 0-100 (best)	-	58.5 ↓	51	Singapore
1	7.01 Distortive effect of taxes and subsidies on competition 1-7 (best)	4.3	55.8 ↑	34	Singapore
Final Processing of non-tariff barriers 1-7 (now)	7.02 Extent of market dominance 1-7 (best)	4.1	52.5 ↓	39	Switzerland
1.00 1.00	7.03 Competition in services 1-7 (best)	5.2	70.5 ↓	42	Hong Kong SAR
2	7.04 Prevalence of non-tariff barriers 1-7 (best)	4.3	55.6 ↑	73	Singapore
Part Efficiency of the clearance process 1-5 pass)	7.05 Trade tariffs % duty	6.01	60.0 ↓	77	Hong Kong SAR
7.00 Services trade openness o 100 yeavay 48.0 s. 1.9 s. 1.9 s. 1.9 s. 1.9 s. 1.0 united States of Plandundancy of 17.8 s. 1.0 s. 1.9 s. 1.0 united States of Plandundancy of 17.8 s. 1.0 s. 1.9 s. 1.0 s. 1.	7.06 Complexity of tariffs 1-7 (best)	5.7	77.9 ↓	70	Hong Kong SAR
Pillar 8: Labour market + 1010 except	7.07 Efficiency of the clearance process 1–5 (best)	2.7	41.8 ↓	61	Germany
2.0 Perindinancy costs seater seatery 2.0 4.15 5.21 5.91	7.08 Services trade openness 0-100 (worst)	48.3	51.7 =	89	Ecuador
Hiring and fitting practices 1-7 event 4.6 5.0 + 5.0 5	Pillar 8: Labour market 0-100 (best)	-	57.8 ↓	82	United States
Second	8.01 Redundancy costs weeks of salary	57.8	0.0	134	Multiple (8)
Featblilty of wage determination 1-7 (test)	8.02 Hiring and firing practices 1-7 (best)	4.5	59.1 ↑	19	Hong Kong SAR
8.66 Active Labour policies 1-7 pean) 6.06 Mortees' rights 0-100 pean) 6.06 Mortees' rights 0-100 pean) 6.06 Mortees' rights 0-100 pean) 6.07 Mortees' rights 0-100 pean) 6.08 Dean of Infinity 1-7 (pean) 6.09 Rase of Infinity 1-7	8.03 Cooperation in Labour-employer relations 1-7 (best)	4.6	60.1 ↓	50	Switzerland
8.06 Workers' rights o-to opened 60.8 60.8 101 Multiple (A) 10.8	8.04 Flexibility of wage determination 1-7 (best)	4.9	64.7 ↑	71	Hong Kong SAR
Second Fining foreign labour 1-7 (best) 49 64.5 s 63 Guinea Balain Internal Labour mobility 1-7 (best) 49 64.5 s 63 Guinea Bellaince on professional management 1-7 (best) 47 62.4 s 71 71 71 71 71 71 71	8.05 Active Labour policies 1-7 (best)	4.1	51.6 ↓	39	Switzerland
But Internal Labour mobility 1-7 (peas) 4.6 6.0	8.06 Workers' rights 0-100 (best)	60.8	60.8 ↑	101	Multiple (4)
Reliance on professional management 1-7 (near) 4.6 60.7	8.07 Ease of hiring foreign labour 1-7 (best)	4.2	53.2 ↓	59	Albania
8.10 Pay and productivity 1-7 (seef) 4.7 62.4	8.08 Internal Labour mobility 1-7 (best)	4.9	64.5 ↑	31	Guinea
8.11 Female participation in Labour force ratio 0.50 37.2 ↑ 97 Multiple (4) 8.12 Labour tax rate % 11.5 95.1 ↓ 42 Multiple (26) ■ Pillar 9: Financial system o-too (best) 8.3 40.3 ↑ 86 Multiple (29) 9.07 Financing of SMEs 1-7 (best) 4.6 59.5 ↑ 23 United States 9.08 Financing of SMEs 1-7 (best) 4.6 59.5 ↑ 23 United States 9.09 Financing of SMEs 1-7 (best) 4.7 4.7 4.9 4.0 Multiple (29) 9.09 Financing of SMEs 1-7 (best) 4.7 4.7 4.9 Multiple (19) 9.09 Sunders of Sanks 1-7 (best) 4.9 64.6 € 72 Financing of Multiple (19) 9.09 Sorderid say and specific value 4.9 64.6 € 72 Financing of Multiple (29) 9.09 Sorderid specific product product 1.0 64.6 € 72 Financing of Multiple (29) 9.09 Banks' regulatory capital ratio ratio 2.9 81.6 € 8 China 10.10 Gross domestic product PPPs billions 2.9 81.6 € 8 <	8.09 Reliance on professional management 1-7 (best)	4.6	60.7 ↓	42	Finland
8.12 Labour tax rate % 4, 4, 2, 5, 5, 1, 4, 4, 2, 5, 4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	8.10 Pay and productivity 1-7 (best)	4.7	62.4 ↑	18	United States
Pillar 9: Financial system 0-100 (bost)	8.11 Female participation in Labour force ratio	0.50	37.2 ↑	97	Multiple (4)
9.01 Domestic credit to private sector 's CDP	8.12 Labour tax rate %	11.5	95.1 ↓	42	Multiple (26)
9.00 Financing of SMEs 1-7 (best)	Pillar 9: Financial system 0-100 (best)	-	63.9 ↑	52	United States
9.03 Venture capital availability 1-7 (best) 3.8 47.0 ↓ 25 United States 9.04 Market capitalization % GDP 44.7 44.7 ↑ 44 Multiple (12) 9.05 Insurance prenium % GDP 1.4 23.6 □ 80 Multiple (12) 9.05 Insurance prenium % GDP 1.4 23.6 □ 80 Multiple (12) 9.05 Sourdness of banks 1-7 (best) 49 9.05 ≥ ↓ 46 Multiple (12) 9.05 Sourdness of banks 1-7 (best) 49 9.05 ≥ ↓ 46 Multiple (22) 9.05 Sourdness of banks 1-7 (best) 49 9.05 ≥ ↓ 46 Multiple (22) 9.05 Sourdness of banks 1-7 (best) 49 9.05 ≥ ↓ 46 Multiple (22) 9.05 Sourdness of banks 1-7 (best) 49 9.05 ≥ ↓ 46 Multiple (22) 9.05 Sanks' regulatory capital ratio ratio 49.05 Source 49.05 ≥ 10.00 □ 23 Multiple (22) 9.05 Sanks' regulatory capital ratio ratio 49.05 ≥ 10.00 □ 2.05 Source 49.05 ≥ 10.00 □ 2.05 ≥ 10.00 □	9.01 Domestic credit to private sector % GDP	38.3	40.3 ↑	86	Multiple (29)
9.04 Market capitalization % GDP	9.02 Financing of SMEs 1-7 (best)	4.6	59.5 ↑	23	United States
9.05 Insurance premium % GDP	9.03 Venture capital availability 1-7 (best)	3.8	47.0 ↓	25	United States
9.06 Soundness of banks 1-7 (best) 9.07 Non-performing loans % loan portfolio value 9.07 Non-performing loans % loan portfolio value 9.08 Credit gap percentage points 9.09 Banks' regulatory capital ratio ratio 9.09 Pillar 10: Market size 0-100 (best) 9.00 Banks' regulatory capital ratio ratio 9.00 Gross domestic product PPP \$ billions 9.00 Gross domestic product PPP	9.04 Market capitalization % GDP	44.7	44.7 ↑	44	Multiple (12)
9.07 Non-performing loans % loan porteliovatue 2.9 95.2 ↓ 46 Multiple (2) 9.08 Credit gap percentage points 0.8 100.0 ↑ 87 Multiple (37) 9.09 Banks' regulatory capital ratio ratio 19.9 100.0 □ 23 Multiple (72)	9.05 Insurance premium % GDP	1.4	23.6 =	80	Multiple (16)
9.06 Credit gap perentage points	9.06 Soundness of banks 1-7 (best)	4.9	64.6 ↓	72	Finland
9.09 Banks' regulatory capital ratio ratio 19.9 10.00 = 23 Multiple (72) Pillar 10: Market size 0-100 (best)	9.07 Non-performing loans % loan portfolio value	2.9	95.2 ↓	46	Multiple (2)
Pillar 10: Market size 0-100 (best) - 81.6 ↑ 8 China 10:01 Gross domestic product PPP billions 2,954 n/a 7 China 10:02 Imports % GDP 18.6 n/a 132 Hong Kong SAR Image: Pillar 11: Business dynamism 0-100 (best) - 69.0 ↑ 30 United States 11:02 Time to start a business % GNI per capita 10.9 94.6 ↑ 81 Multiple (2) 11:02 Time to start a business days 23.1 77.3 ↑ 108 New Zealand 11:03 Insolvency recovery rate cents/s 64.7 69.6 ↑ 33 Norway 11:04 Insolvency regulatory framework 0-16 (best) 10.5 65.6 = 58 Multiple (5) 11:05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 56.6 = 58 Multiple (5) 11:06 Willingness to delegate authority 1-7 (best) 4.5 66.4 ↑ 26 Denmark 11:07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11:08 United States Pillar 12: Innovation capability 0-100 (best) 4.9 64.2 ↑	9.08 Credit gap percentage points	0.8	100.0 ↑	87	Multiple (97)
10.01 Gross domestic product PPP shillions 2,954 n/a 7 China 10.02 Imports % GDP 18.6 n/a 132 Hong Kong SAR Pillar 11: Business dynamism 0-100 (best) - 69.0	9.09 Banks' regulatory capital ratio ratio	19.9	100.0 =	23	Multiple (72)
10.02 Imports % GDP 118.6 n/a 132 Hong Kong SAR Fillar 11: Business dynamism 0-100 (best) - 69.0 ↑ 30 United States 11.01 Cost of starting a business % GNI per capita 10.9 94.6 ↑ 81 Multiple (2) 11.02 Time to start a business days 23.1 77.3 ↑ 108 New Zealand 11.03 Insolvency recovery rate cents/S 64.7 69.6 ↓ 33 Norway 11.04 Insolvency regulatory framework 0-16 (best) 10.5 55.6 = 58 Multiple (5) 11.05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 58.8 ↑ 26 Israel 11.06 Willingness to delegate authority 1-7 (best) 5.0 66.4 ↑ 26 Demmark 11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Ubiersity of workforce 1-7 (best) 4.3 55.1 ↓ 21 United States 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 4.6 60.2 ↑ <t< td=""><td>Pillar 10: Market size 0-100 (best)</td><td>-</td><td>81.6 ↑</td><td>8</td><td>China</td></t<>	Pillar 10: Market size 0-100 (best)	-	81.6 ↑	8	China
Pillar 11: Business dynamism 0-100 (best)	10.01 Gross domestic product PPP \$ billions	2,954	n/a	7	China
11.01 Cost of starting a business % GNI per capita 10.9 94.6 ↑ 81 Multitple (2) 11.02 Time to start a business days 23.1 77.3 ↑ 108 New Zealand 11.03 Insolvency recovery rate cents/s 64.7 69.6 ↓ 33 Norway 11.04 Insolvency regulatory framework 0-16 (best) 10.5 65.6 = 58 Multitple (5) 11.05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 58.8 ↑ 26 Israel 11.06 Willingness to delegate authority 1-7 (best) 5.0 66.4 ↑ 26 Denmark 11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Companies embracing disruptive ideas 1-7 (best) 4.3 55.1 ↓ 21 United States 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 4.6 60.2 ↑ 25 United States 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12	10.02 Imports % GDP	18.6	n/a	132	Hong Kong SAR
11.01 Cost of starting a business % GNI per capita 10.9 94.6 ↑ 81 Multiple (2) 11.02 Time to start a business days 23.1 77.3 ↑ 108 New Zealand 11.03 Insolvency recovery rate cents/\$ 64.7 69.6 ↓ 33 Norway 11.04 Insolvency regulatory framework 0-16 (best) 10.5 65.6 = 58 Multiple (5) 11.05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 58.8 ↑ 26 Israel 11.06 Willingness to delegate authority 1-7 (best) 5.0 66.4 ↑ 26 Denmark 11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Companies embracing disruptive ideas 1-7 (best) 4.3 55.1 ↓ 21 United States 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 4.6 60.2 ↑ 25 United States 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.0	Pillar 11: Business dynamism 0-100 (best)	-	69.0 ↑	30	United States
11.02 Time to start a business days 23.1 77.3 ↑ 108 New Zealand 11.03 Insolvency recovery rate cents/s 64.7 69.6 ↓ 33 Norway 11.04 Insolvency regulatory framework 0-16 (best) 10.5 65.6 = 58 Multiple (5) 11.05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 58.8 ↑ 26 Israel 11.06 Willingness to delegate authority 1-7 (best) 5.0 66.4 ↑ 26 Denmark 11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Companies embracing disruptive ideas 1-7 (best) 4.3 55.1 ↓ 21 United States 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.02 International co-inventions applications/million pop. 0.04 1.2 ↓ 97 Multiple (7) 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications applications/million pop. 0.08 1.5 ↓ 99 Multiple (7) 1		10.9	94.6 ↑	81	Multiple (2)
11.03 Insolvency recovery rate cents/\$ 64.7 69.6 ↓ 33 Norway 11.04 Insolvency regulatory framework 0-16 (best) 10.5 65.6 = 58 Multiple (5) 11.05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 58.8 ↑ 26 Israel 11.06 Willingness to delegate authority 1-7 (best) 5.0 66.4 ↑ 26 Denmark 11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Companies embracing disruptive ideas 1-7 (best) 4.3 55.1 ↓ 21 United States 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 0.04 1.2 ↓ 97 Multiple (7) 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications applications/million pop. 0.08 1.5 ↓ 99 Multiple (8) 12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index <td>11.02 Time to start a business days</td> <td>23.1</td> <td>77.3 ↑</td> <td>108</td> <td></td>	11.02 Time to start a business days	23.1	77.3 ↑	108	
11.05 Attitudes toward entrepreneurial risk 1-7 (best) 4.5 58.8 ↑ 26 Israel 11.06 Willingness to delegate authority 1-7 (best) 5.0 66.4 ↑ 26 Denmark 11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Companies embracing disruptive ideas 1-7 (best) 4.3 55.1 ↓ 21 United States		64.7	69.6 ↓	33	Norway
11.06 Willingness to delegate authority 1-7 (best) 11.07 Growth of innovative companies 1-7 (best) 11.08 Companies embracing disruptive ideas 1-7 (best) 11.09 Pillar 12: Innovation capability 0-100 (best) 11.00 Diversity of workforce 1-7 (best) 11.00 Diversity of workforce 1-7 (best) 11.00 State of cluster development 1-7 (best) 11.00 State of cluster development 1-7 (best) 11.00 Multi-stakeholder collaboration 1-7 (best) 11.00 Multi-stakeholder collaboration 1-7 (best) 11.00 Patent applications H Index 11.00 Patent applications applications/million pop. 11.00 Patent applications applicati	11.04 Insolvency regulatory framework 0-16 (best)	10.5	65.6 =	58	Multiple (5)
11.07 Growth of innovative companies 1-7 (best) 4.9 64.2 ↑ 19 Israel 11.08 Companies embracing disruptive ideas 1-7 (best) 4.3 55.1 ↓ 21 United States ✔ Pillar 12: Innovation capability 0-100 (best) - 37.1 ↑ 68 Germany 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 0.04 1.2 ↓ 97 Multiple (7) 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications applications/million pop. 0.08 1.5 ↓ 99 Multiple (8) 12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	11.05 Attitudes toward entrepreneurial risk 1-7 (best)	4.5	58.8 ↑	26	Israel
11.08 Companies embracing disruptive ideas 1-7 (best) Pillar 12: Innovation capability 0-100 (best) - 37.1 ↑ 68 Germany 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications/million pop. 12.07 R&D expenditures % GDP 12.08 Quality of research institutions index 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	11.06 Willingness to delegate authority 1-7 (best)	5.0	66.4 ↑	26	Denmark
Pillar 12: Innovation capability 0-100 (best) - 37.1 ↑ 68 Germany 12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 0.04 1.2 ↓ 97 Multiple (7) 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications applications/million pop. 0.08 1.5 ↓ 99 Multiple (8) 12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	11.07 Growth of innovative companies 1-7 (best)	4.9	64.2 ↑	19	Israel
12.01 Diversity of workforce 1-7 (best) 4.9 64.2 ↑ 37 Canada 12.02 State of cluster development 1-7 (best) 4.6 60.0 ↑ 28 United States 12.03 International co-inventions applications/million pop. 0.04 1.2 ↓ 97 Multiple (7) 12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications applications/million pop. 0.08 1.5 ↓ 99 Multiple (8) 12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	11.08 Companies embracing disruptive ideas 1-7 (best)	4.3	55.1 ↓	21	United States
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12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications applications/million pop. 0.08 1.5 ↓ 99 Multiple (8) 12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	12.02 State of cluster development 1-7 (best)	4.6	60.0 ↑	28	United States
12.04 Multi-stakeholder collaboration 1-7 (best) 4.6 60.2 ↑ 25 United States 12.05 Scientific publications H Index 182.0 77.2 ↑ 58 Multiple (7) 12.06 Patent applications applications/million pop. 0.08 1.5 ↓ 99 Multiple (8) 12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States					
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12.07 R&D expenditures % GDP 0.1 2.8 = 112 Multiple (7) 12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	·				
12.08 Quality of research institutions index 0.02 4.2 ↑ 53 Multiple (7) 12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States	**	0.1		112	
12.09 Buyer sophistication 1-7 (best) 3.7 45.2 ↓ 49 United States		0.02	4.2 ↑	53	
12.10 Trademark applications applications/million pop. 166.22 55.1 ↑ 97 Multiple (7)	12.09 Buyer sophistication 1-7 (best)	3.7	45.2 ↓	49	
	12.10 Trademark applications applications/million pop.	166.22	55.1 ↑	97	Multiple (7)

^{*} Scores are on a 0 to 100 scale, where 100 represents the optimal situation or 'frontier'. Arrows indicate the direction of the change in score from the previous edition, if available.

Note: For detailed methodology, definitions, sources, and periods, visit http://gcr.weforum.org/