

# Table of Contents

<b>Figures and tables</b>	iv	<b>GII 2021 at a glance</b>	<b>2</b>
<b>Index to Economy profiles</b>	v	<b>Global leaders in innovation, 2021</b>	<b>3</b>
<b>Foreword</b>	vi	<b>Global Innovation Index 2021 rankings</b>	<b>4</b>
<b>Acknowledgments</b>	viii	<b>Innovation performance at different income levels, 2021</b>	<b>5</b>
<b>Advisory Board</b>	x	<b>Key takeaways</b>	<b>6</b>
<b>The GII Partners</b>	xii	<b>Global Innovation Tracker</b>	<b>8</b>
		<b>Science and innovation investments</b>	<b>10</b>
		<b>Technological progress</b>	<b>17</b>
		<b>Socioeconomic impact</b>	<b>17</b>
		<b>Conclusion</b>	<b>18</b>
		<b>GII 2021 results</b>	<b>20</b>
		<b>The GII 2021 innovation leaders</b>	<b>21</b>
		<b>A changing global innovation landscape</b>	<b>21</b>
		<b>Innovation overperformers</b>	<b>25</b>
		<b>The persistent regional innovation divide</b>	<b>25</b>
		<b>Creating balanced and efficient innovation ecosystems</b>	<b>32</b>
		<b>The GII top science and technology clusters</b>	<b>35</b>
		<b>Conclusion</b>	<b>36</b>
		<b>GII 2021 Economy profiles</b>	<b>38</b>
		<b>How to read the Economy profiles</b>	<b>40</b>
		<b>Economy profiles</b>	<b>42</b>
		<b>Appendices</b>	<b>174</b>
		Appendix I: The Global Innovation Index rational and origins, its conceptual framework and data limitations	175
		Appendix II: Joint Research Centre (JRC) statistical audit of the 2021 Global Innovation Index	179
		Appendix III: Sources and definitions	183
		Appendix IV: Global Innovation Index science and technology cluster methodology	202

# Figures and tables

Global leaders in innovation, 2021	3	Table 1 – 10 best-ranked economies by income group	24
Global Innovation Index 2021 rankings	4	Table 2 – Innovation achievers in 2021, their income group, region, and years as an innovation achiever	27
Innovation performance at different income levels, 2021	5	Table 3 – GII 2021 rankings in Asia (excluding Western Asia)	29
Global Innovation Tracker – Dashboard	9	Table 4 – GII 2021 rankings in Latin America and the Caribbean	29
Figure 1 – Fastest growing significant research fields by number of publications, 2020	11	Table 5 – GII 2021 rankings overall and by pillar	30
Figure 2 – R&D and GDP growth, 2001–2022	12	Table 6 – Top S&T cluster of each economy or cross-border region, 2021	34
Figure 3 – Government budget allocations for R&D, growth in 2020	12	Annex Table 1 – Changes to the GII 2021 framework	176
Figure 4 – Share of firms reporting R&D expenditure increases, 2020	13	Annex Table 2 – GII 2021 and Input/Output Sub-Indices: Ranks and 90 percent confidence intervals	181
Figure 5 – Corporate R&D expenditure, selected top R&D spenders worldwide, 2020 growth	14	Annex Table 3 – Top 100 clusters, 2021	203
Figure 6 – Percentage point changes in share of PCT applications in 2020	15	Annex Table 4 – Ranking of S&T intensity, 2015–2019	204
Figure 7 – Number of VC deals by region, three-point moving average, 1997–2021, and growth in VC deals, by region, 2019–2021	16	Annex Table 5 – Summary of geocoding results	205
Figure 8 – Movement in the GII top 15, 2017–2021	22		
Figure 9 – Global leaders in innovation, 2021	23		
Figure 10 – The positive relationship between innovation and development	26		
Economies with the most top-ranked GII indicators, 2021	28		
Figure 11 – Innovation input to output performance, 2021	33		
Map 1 – Top 100 clusters worldwide	35		
Framework of the Global Innovation Index 2021	39		

# Index to Economy profiles

Albania	42	Iceland	92	Romania	142
Algeria	43	India	93	Russian Federation	143
Angola	44	Indonesia	94	Rwanda	144
Argentina	45	Iran (Islamic Republic of)	95	Saudi Arabia	145
Armenia	46	Ireland	96	Senegal	146
Australia	47	Israel	97	Serbia	147
Austria	48	Italy	98	Singapore	148
Azerbaijan	49	Jamaica	99	Slovakia	149
Bahrain	50	Japan	100	Slovenia	150
Bangladesh	51	Jordan	101	South Africa	151
Belarus	52	Kazakhstan	102	Spain	152
Belgium	53	Kenya	103	Sri Lanka	153
Benin	54	Kuwait	104	Sweden	154
Bolivia (Plurinational State of)	55	Kyrgyzstan	105	Switzerland	155
Bosnia and Herzegovina	56	Lao People's Democratic Republic	106	Tajikistan	156
Botswana	57	Latvia	107	Thailand	157
Brazil	58	Lebanon	108	Togo	158
Brunei Darussalam	59	Lithuania	109	Trinidad and Tobago	159
Bulgaria	60	Luxembourg	110	Tunisia	160
Burkina Faso	61	Madagascar	111	Turkey	161
Cabo Verde	62	Malawi	112	Uganda	162
Cambodia	63	Malaysia	113	Ukraine	163
Cameroon	64	Mali	114	United Arab Emirates	164
Canada	65	Malta	115	United Kingdom	165
Chile	66	Mauritius	116	United Republic of Tanzania	166
China	67	Mexico	117	United States of America	167
Colombia	68	Mongolia	118	Uruguay	168
Costa Rica	69	Montenegro	119	Uzbekistan	169
Côte d'Ivoire	70	Morocco	120	Viet Nam	170
Croatia	71	Mozambique	121	Yemen	171
Cyprus	72	Myanmar	122	Zambia	172
Czech Republic	73	Namibia	123	Zimbabwe	173
Denmark	74	Nepal	124		
Dominican Republic	75	Netherlands	125		
Ecuador	76	New Zealand	126		
Egypt	77	Niger	127		
El Salvador	78	Nigeria	128		
Estonia	79	North Macedonia	129		
Ethiopia	80	Norway	130		
Finland	81	Oman	131		
France	82	Pakistan	132		
Georgia	83	Panama	133		
Germany	84	Paraguay	134		
Ghana	85	Peru	135		
Greece	86	Philippines	136		
Guatemala	87	Poland	137		
Guinea	88	Portugal	138		
Honduras	89	Qatar	139		
Hong Kong, China	90	Republic of Korea	140		
Hungary	91	Republic of Moldova	141		