

### 3. Related Industries

#### 3.1 Industrial Infrastructure

##### 3.1.1 Vehicles (2020)

Hard data: motor vehicles per 1000 people

Rank	Country/ Region	Unit	Index
1	New Zealand	837.00	100.00
2	United States	821.00	98.08
3	Australia	789.00	94.24
4	Italy	668.21	79.74
5	Poland	662.65	79.07
6	Finland	652.41	77.84
7	Japan	649.00	77.43
8	Canada	624.24	74.46
9	Germany	580.18	69.17
10	Austria	571.03	68.07
11	France	567.50	67.65
12	Czech Republic	565.46	67.40
13	Slovenia	556.83	66.37
14	Switzerland	539.28	64.26
15	United Kingdom	526.00	62.67
16	Spain	521.83	62.16
17	Greece	513.35	61.15
18	Belgium	510.34	60.78
19	Netherlands	504.18	60.05
20	Kuwait	482.00	57.38
21	Sweden	477.45	56.84
22	Korea	475.00	56.54
23	Denmark	467.07	55.59
24	Slovak Republic	446.98	53.18
25	Malaysia	439.00	52.22
26	Croatia	431.43	51.31
27	Hungary	402.13	47.79
28	Russia	381.00	45.26
29	Brazil	364.00	43.22
30	Israel	346.77	41.15
31	Taiwan, China	333.00	39.50
32	Argentina	316.00	37.45
33	Mexico	294.00	34.81
34	Chile	248.00	29.29
35	U.A.E.	234.00	27.61
36	Thailand	228.00	26.89
37	Ukraine	219.00	25.81
38	Oman	218.00	25.69
39	Saudi Arabia	209.00	24.61
40	China	196.00	23.05
41	South Africa	176.00	20.65
42	Panama	172.00	20.17
43	Singapore	170.00	19.93
44	Türkiye	155.69	18.21
45	Dominican Republic	153.00	17.89
45	Morocco	153.00	17.89
47	Jordan	149.00	17.41
48	Colombia	126.00	14.65
49	Guatemala	114.00	13.21
50	Egypt	109.00	12.61
51	Indonesia	100.00	11.52
52	Hong Kong SAR	93.00	10.68
53	Peru	78.00	8.88
54	Kenya	70.00	7.92
55	Sri Lanka	68.00	7.68
56	Nigeria	64.00	7.20
57	India	41.00	4.44
58	Philippines	38.00	4.08
59	Vietnam	23.00	2.28
60	Cambodia	21.00	2.04
61	Pakistan	17.00	1.56
62	Bangladesh	4.00	0.00

##### 3.1.2 Civil Aviation (2020)

Hard data: passengers per 1000 people

Rank	Country/ Region	Unit	Index
1	U.A.E.	2,812.11	100.00
2	Slovak Republic	2,669.00	94.91
4	New Zealand	1,673.14	59.49
5	Hungary	1,497.14	53.23
6	Austria	1,489.92	52.97
7	Singapore	1,386.68	49.30
9	United States	1,114.63	39.62
10	Switzerland	1,043.00	37.07
11	Australia	920.95	32.73
12	Netherlands	845.60	30.05
13	Hong Kong SAR	785.80	27.92
14	Saudi Arabia	749.72	26.64
15	Canada	726.13	25.80
16	Panama	715.86	25.43
17	Finland	633.02	22.49
18	Korea	579.39	20.58
19	Spain	560.68	19.92
20	Oman	549.38	19.51
21	Türkiye	531.56	18.88
22	Greece	527.91	18.75
23	Malaysia	478.73	17.00
24	United Kingdom	461.64	16.39
25	Russia	433.44	15.39
26	Kuwait	418.21	14.85
27	Chile	415.52	14.75
28	Japan	404.96	14.38
29	Thailand	394.25	14.00
30	France	369.33	13.11
31	Vietnam	328.73	11.66
32	Germany	309.74	10.99
33	Belgium	305.14	10.83
34	China	295.70	10.49
35	Mexico	270.90	9.61
36	Colombia	240.99	8.54
37	Brazil	212.98	7.55
38	Peru	171.30	6.06
39	Croatia	150.32	5.32
40	South Africa	141.23	5.00
41	Indonesia	138.03	4.88
42	Israel	135.58	4.79
43	Italy	131.25	4.64
44	Czech Republic	126.99	4.49
45	Philippines	99.64	3.52
46	Morocco	82.10	2.89
47	Argentina	81.12	2.86
48	Jordan	74.69	2.63
49	Poland	70.88	2.49
50	Sri Lanka	56.59	1.98
51	India	49.38	1.73
52	Egypt	43.16	1.51
53	Ukraine	40.57	1.41
54	Slovenia	37.37	1.30
55	Cambodia	37.18	1.29
56	Kenya	35.89	1.25
57	Bangladesh	17.82	0.61
58	Pakistan	16.34	0.55
59	Nigeria	16.33	0.55
60	Dominican Republic	2.85	0.07
61	Guatemala	1.50	0.02
-	Denmark	-	-
-	Sweden	-	-
-	Taiwan, China	-	-

### 3. Related Industries

#### 3.1 Industrial Infrastructure

##### 3.1.3 Maritime transport (2020)

Hard data: container port traffic per 1000 people (TEU: 20 foot equivalent units)

Rank	Country/Region	Unit	Index
1	Singapore	6484.73	100.00
2	Hong Kong SAR	2401.95	36.97
3	U.A.E.	2077.86	31.97
4	Panama	1800.96	27.69
5	Belgium	1219.09	18.71
6	Oman	1131.71	17.36
7	Netherlands	832.62	12.74
8	Malaysia	803.12	12.29
9	New Zealand	623.61	9.51
10	Korea	548.36	8.35
11	Greece	538.01	8.19
12	Slovenia	449.48	6.83
13	Spain	366.77	5.55
14	Australia	337.44	5.10
15	Israel	324.90	4.90
16	Sri Lanka	312.51	4.71
17	Finland	277.16	4.17
18	Saudi Arabia	260.97	3.92
19	Chile	217.20	3.24
20	Germany	216.79	3.23
21	Kuwait	198.06	2.94
22	Morocco	190.28	2.82
23	Dominican Republic	179.96	2.66
24	China	173.70	2.57
25	Japan	169.38	2.50
26	United States	165.80	2.45
27	Italy	164.88	2.43
28	Canada	162.91	2.40
29	Denmark	158.03	2.33
30	Sweden	154.37	2.27
31	Thailand	142.90	2.09
32	Türkiye	138.33	2.02
33	United Kingdom	129.58	1.89
34	Vietnam	128.53	1.87
35	Colombia	87.98	1.24
36	Guatemala	87.54	1.24
37	Croatia	85.83	1.21
38	Jordan	78.44	1.10
39	Peru	78.11	1.09
40	Poland	76.64	1.07
41	France	75.59	1.05
42	South Africa	68.52	0.94
43	Philippines	66.90	0.92
44	Egypt	55.17	0.74
45	Indonesia	51.59	0.68
46	Mexico	50.68	0.67
47	Brazil	48.67	0.64
48	Cambodia	46.57	0.61
49	Argentina	43.86	0.56
50	Russia	33.82	0.41
51	Austria	32.50	0.39
52	Kenya	25.22	0.28
53	Ukraine	23.46	0.25
54	Bangladesh	15.45	0.13
55	Pakistan	14.70	0.11
56	Switzerland	13.21	0.09
57	India	11.66	0.07
58	Nigeria	7.34	0.00
-	Czech Republic	-	-
-	Hungary	-	-
-	Slovak Republic	-	-
-	Taiwan, China	-	-

##### 3.1.4 International travel (2020)

Hard data: travellers per 1000 people

Rank	Country/Region	Unit	Index
1	Croatia	5,506.80	100.00
2	Hungary	4,550.56	82.64
3	Denmark	3,399.93	61.74
4	Austria	2,136.93	38.81
5	France	2,053.60	37.29
6	Hong Kong SAR	1,581.13	28.71
7	Slovenia	1,480.00	26.88
8	U.A.E.	1,470.37	26.70
9	Italy	1,005.26	18.25
10	Greece	907.99	16.49
11	Spain	900.62	16.35
12	Sweden	776.39	14.10
13	Singapore	753.61	13.69
14	Belgium	729.84	13.25
15	Mexico	676.20	12.28
16	Finland	648.35	11.77
17	United Kingdom	519.65	9.44
18	Kuwait	505.97	9.19
19	Oman	494.62	8.98
20	Netherlands	416.55	7.56
21	Ukraine	331.55	6.02
22	United States	320.46	5.82
23	New Zealand	296.42	5.38
24	Dominican Republic	272.68	4.95
25	Panama	242.87	4.41
26	Czech Republic	224.23	4.07
27	Türkiye	215.96	3.92
28	Australia	181.41	3.29
29	Jordan	161.33	2.93
30	Germany	149.55	2.72
31	Malaysia	133.88	2.43
32	Korea	131.23	2.38
33	Russia	129.91	2.36
34	Taiwan, China	99.09	1.80
35	Cambodia	97.61	1.77
36	Morocco	93.41	1.70
37	South Africa	65.53	1.19
38	Guatemala	65.36	1.19
39	Japan	57.93	1.05
40	Peru	57.93	1.05
41	Colombia	52.49	0.95
42	Vietnam	39.42	0.72
43	Sri Lanka	38.55	0.70
44	China	36.19	0.66
45	Philippines	27.07	0.49
46	Indonesia	25.49	0.46
-	Argentina	-	-
-	Bangladesh	-	-
-	Brazil	-	-
-	Canada	-	-
-	Chile	-	-
-	Egypt	-	-
-	India	-	-
-	Israel	-	-
-	Kenya	-	-
-	Nigeria	-	-
-	Pakistan	-	-
-	Poland	-	-
-	Saudi Arabia	-	-
-	Slovak Republic	-	-
-	Switzerland	-	-
-	Thailand	-	-

### 3. Related Industries

#### 3.1 Industrial Infrastructure

##### 3.1.5 Mobile phone subscribers (2021)

Hard data: per 100 people

Rank	Country/ Region	Unit	Index
1	Hong Kong SAR	319.43	100.00
2	U.A.E.	194.73	50.94
3	Russia	168.98	40.81
4	South Africa	168.92	40.79
5	Thailand	168.78	40.73
6	Kuwait	162.78	38.37
7	Japan	160.88	37.62
8	Singapore	145.78	31.68
9	Colombia	145.69	31.65
10	Philippines	143.44	30.76
11	Sri Lanka	141.29	29.91
12	Malaysia	140.59	29.64
13	Korea	140.57	29.63
14	Israel	140.45	29.58
15	Morocco	139.28	29.12
16	Vietnam	138.87	28.96
17	Panama	137.97	28.61
18	Chile	136.31	27.95
19	Slovak Republic	135.15	27.50
20	Oman	135.08	27.47
21	Ukraine	135.03	27.45
22	Indonesia	133.65	26.91
23	Poland	132.06	26.28
24	Italy	131.86	26.20
25	Argentina	130.46	25.65
26	Finland	129.15	25.14
27	Peru	127.92	24.65
28	Germany	127.56	24.51
29	Switzerland	127.26	24.39
30	Saudi Arabia	126.36	24.04
31	Guatemala	125.65	23.76
32	Netherlands	125.06	23.53
33	Czech Republic	124.92	23.47
34	Denmark	124.49	23.30
35	Taiwan, China	123.80	23.03
36	Slovenia	123.02	22.72
37	Kenya	122.79	22.63
38	Sweden	122.71	22.60
39	Austria	121.97	22.31
40	China	121.51	22.13
41	Cambodia	119.96	21.52
42	Spain	119.62	21.39
43	United Kingdom	118.57	20.97
44	New Zealand	113.96	19.16
45	Greece	110.04	17.62
46	Croatia	108.43	16.98
47	United States	107.31	16.54
48	Bangladesh	106.89	16.38
49	Hungary	105.55	15.85
50	Australia	104.51	15.44
51	Brazil	102.49	14.65
52	Türkiye	101.79	14.37
53	Belgium	101.11	14.10
54	Mexico	97.80	12.80
55	Egypt	94.68	11.57
56	Nigeria	91.44	10.30
57	Dominican Republic	87.56	8.78
58	Canada	85.76	8.07
59	India	81.99	6.58
60	Pakistan	81.55	6.41
61	Jordan	65.26	0.00
-	France	-	-

##### 3.1.6 Internet users (2021)

Hard data: individuals using the Internet (% of population)

Rank	Country/ Region	Unit	Index
1	U.A.E.	100.00	100.00
2	Kuwait	99.11	98.81
3	Saudi Arabia	97.86	97.16
4	Denmark	96.55	95.41
5	Korea	96.51	95.35
6	Oman	95.23	93.66
7	United Kingdom	94.82	93.11
8	Sweden	94.54	92.74
9	Switzerland	94.20	92.29
10	Spain	93.21	90.96
11	Hong Kong SAR	93.09	90.81
12	Canada	92.30	89.76
13	Finland	92.17	89.59
14	Singapore	92.00	89.37
15	Belgium	91.53	88.73
16	New Zealand	91.50	88.70
17	Netherlands	91.33	88.48
18	United States	90.90	87.90
19	Japan	90.22	86.99
20	Israel	90.13	86.87
21	Slovak Republic	89.92	86.60
22	Germany	89.81	86.45
23	Australia	89.60	86.17
24	Malaysia	89.56	86.11
25	Chile	88.30	84.44
26	Austria	87.53	83.42
27	Slovenia	86.60	82.18
28	Taiwan, China	86.60	82.18
29	Argentina	85.50	80.72
30	Russia	84.99	80.05
31	France	84.80	79.79
32	Hungary	84.77	79.75
33	Morocco	84.12	78.88
34	Poland	83.18	77.64
35	Brazil	81.34	75.19
36	Czech Republic	81.34	75.18
37	Croatia	78.32	71.17
38	Greece	78.12	70.90
39	Thailand	77.84	70.54
40	Türkiye	77.67	70.31
41	Dominican Republic	76.90	69.28
42	Ukraine	75.04	66.81
43	Mexico	71.97	62.72
44	Egypt	71.91	62.65
45	Italy	70.48	60.75
46	Vietnam	70.30	60.51
47	China	70.05	60.18
48	South Africa	70.00	60.11
49	Colombia	69.79	59.83
50	Peru	65.25	53.79
51	Jordan	65.20	53.72
52	Panama	64.25	52.46
53	Indonesia	53.73	38.47
54	Guatemala	49.97	33.47
55	Philippines	49.80	33.24
56	India	43.00	24.20
57	Nigeria	35.50	14.23
58	Sri Lanka	35.00	13.56
59	Cambodia	32.90	10.77
60	Kenya	29.50	6.25
61	Pakistan	25.00	0.27
62	Bangladesh	24.80	0.00

### 3. Related Industries

#### 3.1 Industrial Infrastructure

##### 3.1.7 capital value (2021)

Hard data: 1-inflation rate

Rank	Country/ Region	Unit	Index
1	U.A.E.	1.02	100.00
2	Panama	1.02	96.31
3	Greece	1.01	94.21
4	Malaysia	1.01	93.45
5	Oman	1.01	91.81
6	Thailand	1.01	91.41
7	Switzerland	1.01	90.57
8	Israel	1.01	89.62
9	Spain	1.00	87.77
10	Singapore	1.00	86.78
11	Italy	1.00	86.48
12	Slovenia	1.00	85.90
13	Japan	1.00	85.63
14	Finland	1.00	83.49
15	Hong Kong SAR	1.00	83.25
16	Jordan	1.00	83.20
17	Denmark	1.00	82.59
18	France	1.00	82.20
19	Sweden	1.00	82.05
20	Germany	0.99	81.99
21	Korea	0.99	81.78
22	Kuwait	0.99	81.74
23	Morocco	0.99	80.60
24	Canada	0.99	80.52
25	Belgium	0.99	80.36
26	Australia	0.99	79.62
27	United Kingdom	0.99	78.63
28	United States	0.99	76.93
29	Netherlands	0.99	76.66
30	Austria	0.99	75.89
31	Croatia	0.98	75.07
32	New Zealand	0.98	73.58
33	Peru	0.98	72.80
34	Indonesia	0.98	72.14
35	Slovak Republic	0.98	72.03
36	China	0.98	68.67
37	Cambodia	0.98	68.39
38	Colombia	0.97	67.93
39	Philippines	0.97	67.16
40	Ukraine	0.97	66.49
41	Chile	0.97	64.31
42	Czech Republic	0.97	63.50
43	Brazil	0.97	63.15
44	Guatemala	0.97	63.13
45	Vietnam	0.97	63.09
46	South Africa	0.97	63.06
47	Hungary	0.97	62.35
48	Poland	0.97	62.02
49	Russia	0.97	61.97
50	Mexico	0.97	61.86
51	Saudi Arabia	0.97	61.52
52	Dominican Republic	0.96	59.18
53	Taiwan, China	0.96	55.43
54	Egypt	0.95	50.38
55	Kenya	0.95	47.88
56	Bangladesh	0.94	45.88
57	Sri Lanka	0.94	42.66
58	India	0.93	39.39
59	Pakistan	0.90	17.68
60	Nigeria	0.88	1.28
61	Türkiye	0.88	0.00
-	Argentina	-	-

##### 3.1.8 Capital accessibility (2020)

Hard data: 1-interest rate

Rank	Country/ Region	Unit	Index
1	Austria	0.99	100.00
1	France	0.99	100.00
1	Germany	0.99	100.00
1	Japan	0.99	100.00
1	Netherlands	0.99	100.00
6	Belgium	0.98	97.11
6	Finland	0.98	97.11
6	Poland	0.98	97.11
6	Slovak Republic	0.98	97.11
6	Slovenia	0.98	97.11
6	Spain	0.98	97.11
6	Sweden	0.98	97.11
13	Italy	0.98	97.03
14	Switzerland	0.97	95.25
15	Korea	0.97	94.55
16	Hungary	0.97	94.32
17	Canada	0.97	94.21
17	Croatia	0.97	94.21
17	Denmark	0.97	94.21
17	Taiwan, China	0.97	94.21
21	Thailand	0.97	94.03
22	Israel	0.97	93.92
23	Czech Republic	0.97	93.63
24	United States	0.97	93.49
25	Malaysia	0.97	92.93
26	Kuwait	0.96	92.17
27	Chile	0.96	91.32
27	United Kingdom	0.96	91.32
29	China	0.96	90.31
30	Mexico	0.95	88.74
31	Greece	0.95	88.43
31	Hong Kong SAR	0.95	88.43
31	New Zealand	0.95	88.43
34	Australia	0.95	88.13
35	Singapore	0.95	87.70
36	Oman	0.95	86.98
37	Morocco	0.94	85.53
37	U.A.E.	0.94	85.53
39	Panama	0.93	82.82
40	Jordan	0.93	82.56
41	South Africa	0.93	82.52
42	Philippines	0.93	82.36
43	Russia	0.93	82.11
44	Bangladesh	0.93	81.70
45	Vietnam	0.92	80.29
46	Saudi Arabia	0.92	79.74
47	Pakistan	0.91	77.82
48	India	0.91	77.72
49	Indonesia	0.91	77.07
50	Colombia	0.91	75.87
51	Egypt	0.91	75.62
52	Dominican Republic	0.90	75.09
53	Peru	0.89	71.12
54	Cambodia	0.89	71.06
55	Sri Lanka	0.89	70.36
56	Nigeria	0.89	69.67
57	Kenya	0.88	67.94
58	Guatemala	0.88	67.63
59	Ukraine	0.87	64.43
60	Türkiye	0.74	27.66
61	Brazil	0.70	16.04
62	Argentina	0.64	0.00

### 3. Related Industries

#### 3.1 Industrial Infrastructure

##### 3.1.9 Scientists & engineers (2018)

Hard data: total R&D personnel per million inhabitants.

Rank	Country/ Region	Unit	Index
1	Saudi Arabia	63.42	100.00
2	Denmark	30.61	48.06
3	Austria	28.63	44.91
4	Taiwan, China	27.17	42.60
5	Finland	26.80	42.02
6	Belgium	25.50	39.95
7	Switzerland	25.40	39.79
8	Sweden	25.08	39.29
9	Korea	24.65	38.61
10	New Zealand	24.20	37.90
11	Germany	22.44	35.11
12	Slovenia	21.27	33.25
13	France	21.11	33.00
14	Netherlands	21.09	32.98
15	Czech Republic	20.72	32.39
16	United Kingdom	20.38	31.85
17	Greece	19.98	31.21
18	Italy	18.53	28.92
19	Japan	17.60	27.44
20	Spain	15.35	23.89
21	Singapore	13.86	21.52
22	Hungary	13.00	20.16
23	Poland	12.98	20.13
24	Slovak Republic	12.97	20.12
25	U.A.E.	11.02	17.03
26	Croatia	10.62	16.39
27	Hong Kong SAR	10.10	15.56
28	Malaysia	9.81	15.11
29	Russia	9.17	14.09
30	Türkiye	8.34	12.78
31	China	8.18	12.53
32	Egypt	8.05	12.33
33	Thailand	5.64	8.51
34	Argentina	5.48	8.25
35	Ukraine	4.54	6.77
36	Morocco	4.50	6.70
37	Jordan	4.23	6.27
38	South Africa	3.71	5.45
39	Vietnam	3.05	4.41
40	Chile	2.71	3.86
41	Pakistan	2.68	3.83
42	Kuwait	2.66	3.79
43	Oman	2.29	3.20
44	Mexico	1.65	2.19
45	Indonesia	1.47	1.90
46	Sri Lanka	1.45	1.87
47	Philippines	0.89	0.98
48	Panama	0.73	0.73
49	Peru	0.31	0.07
50	Guatemala	0.27	0.00
-	Australia	-	-
-	Bangladesh	-	-
-	Brazil	-	-
-	Cambodia	-	-
-	Canada	-	-
-	Colombia	-	-
-	Dominican Republic	-	-
-	India	-	-
-	Israel	-	-
-	Kenya	-	-
-	Nigeria	-	-
-	United States	-	-

##### 3.1.10 Scientific research institutions (2021)

Survey: scientific research institutions are good by global standard

Rank	Country/ Region	Unit	Index
1	United States	8.82	100.00
2	Canada	8.05	79.50
3	Israel	8.04	79.05
4	Belgium	8.00	78.09
5	Guatemala	7.97	77.20
6	Netherlands	7.95	76.68
7	Sweden	7.94	76.52
8	Singapore	7.90	75.54
9	France	7.77	71.97
10	Austria	7.74	71.24
11	Taiwan, China	7.73	70.88
12	Switzerland	7.72	70.56
13	Philippines	7.71	70.44
14	Germany	7.65	68.83
15	Denmark	7.62	67.94
16	Greece	7.57	66.62
17	Japan	7.48	64.12
18	Australia	7.47	63.87
19	Peru	7.45	63.49
20	Hong Kong SAR	7.45	63.32
21	India	7.41	62.30
22	Panama	7.39	61.68
23	Finland	7.36	60.88
24	United Kingdom	7.31	59.69
25	Korea	7.30	59.41
26	Nigeria	7.30	59.35
27	Spain	7.21	56.96
28	Chile	7.19	56.47
29	Indonesia	7.18	56.25
30	South Africa	7.14	55.14
31	Slovenia	7.11	54.19
32	Italy	7.06	52.99
33	Colombia	7.00	51.32
33	Poland	7.00	51.32
35	New Zealand	6.97	50.55
36	U.A.E.	6.88	47.97
37	Cambodia	6.86	47.49
38	China	6.85	47.25
39	Egypt	6.80	45.96
40	Hungary	6.79	45.58
40	Mexico	6.79	45.58
42	Türkiye	6.77	45.14
43	Argentina	6.73	44.18
44	Vietnam	6.65	41.82
45	Croatia	6.63	41.40
46	Thailand	6.58	40.11
47	Saudi Arabia	6.44	36.44
48	Brazil	6.43	36.02
49	Kuwait	6.35	33.86
50	Sri Lanka	6.23	30.77
51	Kenya	6.22	30.36
52	Malaysia	6.15	28.66
53	Ukraine	6.09	26.91
54	Pakistan	6.05	25.95
55	Jordan	5.97	23.84
56	Russia	5.94	22.97
57	Slovak Republic	5.91	22.11
58	Morocco	5.08	0.00
-	Bangladesh	-	-
-	Czech Republic	-	-
-	Dominican Republic	-	-
-	Oman	-	-

### 3. Related Industries

#### 3.1 Industrial Infrastructure

##### 3.1.11 Total expenditure on R&D (2019)

Hard data: % of GDP

Rank	Country/ Region	Unit	Index
1	Israel	5.14	100.00
2	Korea	4.63	90.02
3	Sweden	3.39	65.91
4	Japan	3.20	62.24
5	Germany	3.17	61.63
6	United States	3.17	61.60
7	Belgium	3.16	61.48
8	Switzerland	3.15	61.22
9	Austria	3.13	60.89
10	Denmark	2.89	56.19
11	Finland	2.80	54.41
12	China	2.24	43.67
13	France	2.19	42.64
14	Netherlands	2.18	42.50
15	Slovenia	2.05	39.83
16	Czech Republic	1.93	37.51
17	Singapore	1.89	36.78
18	Australia	1.83	35.59
19	United Kingdom	1.71	33.23
20	Canada	1.59	30.97
21	Hungary	1.48	28.74
22	Italy	1.46	28.46
23	New Zealand	1.41	27.39
24	Poland	1.32	25.69
25	U.A.E.	1.31	25.55
26	Greece	1.28	24.82
27	Spain	1.25	24.35
28	Brazil	1.21	23.50
29	Thailand	1.14	22.23
30	Croatia	1.08	21.03
31	Türkiye	1.06	20.71
32	Malaysia	1.04	20.24
33	Russia	1.04	20.21
34	Hong Kong SAR	0.93	18.01
35	Egypt	0.84	16.29
36	Slovak Republic	0.83	16.07
37	South Africa	0.62	11.97
38	Vietnam	0.53	10.35
39	Argentina	0.46	8.89
40	Ukraine	0.43	8.44
41	Chile	0.34	6.63
42	Philippines	0.32	6.27
43	Colombia	0.32	6.26
44	Oman	0.31	6.12
45	Mexico	0.28	5.52
46	Indonesia	0.27	5.28
47	Pakistan	0.20	3.91
48	Kuwait	0.19	3.73
49	Peru	0.16	3.05
50	Panama	0.15	2.86
51	Guatemala	0.03	0.51
52	India	0.00	0.00
52	Sri Lanka	0.00	0.00
-	Bangladesh	-	-
-	Cambodia	-	-
-	Dominican Republic	-	-
-	Jordan	-	-
-	Kenya	-	-
-	Morocco	-	-
-	Nigeria	-	-
-	Saudi Arabia	-	-
-	Taiwan, China	-	-

##### 3.1.12 Patent applications (2019)

Hard data: patents issued by USPTO (number)

Rank	Country/ Region	Unit	Index
1	United States	399,055.00	100.00
2	Japan	55,899.00	14.01
3	China	26,176.00	6.56
4	Korea	24,218.00	6.07
5	Germany	19,799.00	4.96
6	Taiwan, China	13,390.00	3.36
7	United Kingdom	8,834.00	2.21
8	Canada	8,179.00	2.05
9	France	7,981.00	2.00
10	India	5,888.00	1.48
11	Israel	5,011.00	1.26
12	Italy	3,913.00	0.98
13	Netherlands	3,552.00	0.89
14	Sweden	3,495.00	0.88
15	Switzerland	3,394.00	0.85
16	Australia	2,298.00	0.58
17	Austria	1,650.00	0.41
18	Finland	1,641.00	0.41
19	Belgium	1,537.00	0.39
20	Denmark	1,425.00	0.36
21	Singapore	1,191.00	0.30
22	Spain	1,187.00	0.30
23	Hong Kong SAR	1,071.00	0.27
24	Saudi Arabia	1,007.00	0.25
25	Russia	711.00	0.18
26	Brazil	547.00	0.14
27	New Zealand	494.00	0.12
28	Poland	439.00	0.11
29	Mexico	394.00	0.10
30	Czech Republic	380.00	0.10
31	Malaysia	310.00	0.08
32	Türkiye	223.00	0.06
33	South Africa	221.00	0.06
34	Hungary	182.00	0.05
35	Thailand	138.00	0.03
36	Greece	137.00	0.03
37	U.A.E.	135.00	0.03
38	Argentina	111.00	0.03
39	Ukraine	100.00	0.03
40	Slovenia	91.00	0.02
41	Chile	83.00	0.02
42	Philippines	71.00	0.02
43	Slovak Republic	57.00	0.01
44	Colombia	51.00	0.01
45	Vietnam	41.00	0.01
46	Egypt	38.00	0.01
46	Kuwait	38.00	0.01
48	Kenya	26.00	0.01
49	Croatia	21.00	0.01
50	Pakistan	19.00	0.00
51	Indonesia	17.00	0.00
52	Jordan	15.00	0.00
53	Peru	14.00	0.00
54	Sri Lanka	11.00	0.00
55	Dominican Republic	5.00	0.00
55	Guatemala	5.00	0.00
55	Panama	5.00	0.00
58	Bangladesh	3.00	0.00
58	Morocco	3.00	0.00
60	Nigeria	2.00	0.00
61	Cambodia	1.00	0.00
-	Oman	-	-