

3 Related Industries

3.1 Industrial Infrastructure

3.1.1 Vehicles (2015)

Hard data: motor vehicles per 1000 people

RANK	COUNTRY	UNIT	INDEX
1	United States	821.00	100.00
2	New Zealand	819.00	99.76
3	Australia	718.00	87.39
4	Italy	706.00	85.92
5	Canada	646.00	78.58
6	Poland	628.00	76.38
7	Austria	609.00	74.05
7	Japan	609.00	74.05
9	France	598.00	72.71
10	Spain	595.00	72.34
11	Germany	593.00	72.09
11	Switzerland	593.00	72.09
13	United Kingdom	587.00	71.36
14	Belgium	569.00	69.16
15	Greece	566.00	68.79
16	Czech Republic	559.00	67.93
17	Netherlands	555.00	67.44
18	Sweden	540.00	65.61
19	Slovenia	527.10	64.03
20	Denmark	501.00	60.83
21	Finland	492.00	59.73
22	Kuwait	482.00	58.51
23	Malaysia	439.00	53.24
24	Korea	417.00	50.55
25	Croatia	392.00	47.49
26	Hungary	377.00	45.65
27	Slovak Republic	375.71	45.50
28	Israel	367.00	44.43
29	Russia	358.00	43.33
30	Taiwan	327.00	39.53
31	Argentina	316.00	38.19
32	Mexico	294.00	35.50
33	Chile	248.00	29.87
34	U.A.E.	234.00	28.15
35	Thailand	228.00	27.42
36	Saudi Arabia	209.00	25.09
37	Brazil	206.00	24.72
38	Ukraine	203.00	24.36
39	Turkey	195.00	23.38
40	Iran	179.00	21.42
41	South Africa	176.00	21.05
42	Panama	172.00	20.56
43	Dominican Republic	153.00	18.24
44	Jordan	149.00	17.75
45	Singapore	145.00	17.26
46	China	118.00	13.95
47	Guatemala	114.00	13.46
48	Colombia	111.00	13.10
49	Morocco	104.00	12.24
50	Hong Kong	93.00	10.89
51	Indonesia	87.00	10.16
52	Peru	78.00	9.06
53	Sri Lanka	68.00	7.83
54	Egypt	63.00	7.22
55	Philippines	38.00	4.16
56	Kenya	30.00	3.18
57	Vietnam	23.00	2.33
58	India	22.00	2.20
59	Cambodia	21.00	2.08
59	Nigeria	21.00	2.08
61	Pakistan	17.00	1.59
62	Bangladesh	4.00	0.00

3.1.2 Civil aviation (2021)

Hard data: passengers per 1000 people

RANK	COUNTRY	UNIT	INDEX
1	U.A.E.	9,919.37	100.00
2	Singapore	7,165.07	72.23
3	Hong Kong	6,321.54	63.72
4	New Zealand	3,530.66	35.58
5	Switzerland	3,388.46	34.15
6	Hungary	3,196.59	32.22
7	Panama	3,097.86	31.22
8	Australia	3,027.63	30.51
9	Taiwan	2,921.02	29.44
10	United States	2,717.33	27.38
11	Netherlands	2,553.31	25.73
12	United Kingdom	2,487.46	25.07
13	Finland	2,422.02	24.41
14	Canada	2,411.84	24.30
15	Malaysia	1,918.32	19.33
16	Spain	1,726.58	17.39
17	Korea	1,707.31	17.20
18	Kuwait	1,562.57	15.74
19	Austria	1,462.13	14.73
20	Greece	1,409.99	14.20
21	Turkey	1,404.23	14.14
22	Germany	1,324.00	13.33
23	Belgium	1,194.13	12.03
24	Saudi Arabia	1,161.48	11.70
25	Thailand	1,095.41	11.03
26	France	1,047.78	10.55
27	Chile	1,042.07	10.49
28	Japan	998.88	10.06
29	Israel	833.47	8.39
30	Russia	687.49	6.92
31	Colombia	678.85	6.83
32	Peru	555.14	5.58
33	Czech Republic	539.00	5.42
34	Slovenia	529.54	5.32
35	Croatia	511.95	5.15
36	Mexico	511.68	5.14
37	Vietnam	492.46	4.95
38	Brazil	487.47	4.90
39	Italy	457.22	4.60
40	China	439.02	4.41
41	Indonesia	430.22	4.32
42	South Africa	414.02	4.16
43	Argentina	406.39	4.08
44	Philippines	403.93	4.06
45	Jordan	339.88	3.41
46	Iran	313.02	3.14
47	Sri Lanka	271.45	2.72
48	Poland	244.28	2.45
49	Morocco	225.73	2.26
50	Ukraine	176.03	1.76
51	Egypt	125.38	1.25
52	India	121.27	1.21
53	Kenya	115.50	1.15
54	Cambodia	86.84	0.86
55	Nigeria	41.71	0.41
56	Bangladesh	37.09	0.36
57	Pakistan	32.42	0.31
58	Guatemala	8.45	0.07
59	Slovak Republic	1.46	0.00
-	Denmark	-	-
-	Dominican Republic	-	-
-	Sweden	-	-

3 Related Industries

3.1 Industrial Infrastructure

3.1.3 Maritime transport (2021)

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

RANK	COUNTRY	UNIT	INDEX
1	Singapore	6,490.89	100.00
2	Hong Kong	2,636.02	40.55
3	U.A.E.	1,978.41	30.41
4	Panama	1,645.35	25.28
5	Belgium	1,110.32	17.03
6	Netherlands	860.42	13.17
7	Malaysia	791.54	12.11
8	Kuwait	749.12	11.46
9	New Zealand	681.34	10.41
10	Korea	560.57	8.55
11	Greece	496.29	7.56
12	Slovenia	478.14	7.28
13	Spain	367.90	5.58
14	Australia	349.99	5.30
15	Israel	331.61	5.02
16	Sri Lanka	323.03	4.89
17	Denmark	289.08	4.36
18	Finland	288.52	4.35
19	Saudi Arabia	257.27	3.87
20	Chile	248.97	3.74
21	Germany	236.32	3.55
22	Dominican Republic	180.87	2.69
23	Canada	179.81	2.68
24	Japan	177.30	2.64
25	United Kingdom	175.90	2.62
26	Italy	174.53	2.60
27	Vietnam	171.39	2.55
28	United States	167.16	2.48
29	China	162.15	2.41
30	Thailand	161.10	2.39
31	Sweden	156.44	2.32
32	Morocco	132.21	1.94
33	Turkey	120.79	1.77
34	France	95.08	1.37
35	Guatemala	88.74	1.27
36	South Africa	84.67	1.21
37	Peru	83.40	1.19
38	Colombia	83.09	1.19
39	Jordan	81.89	1.17
40	Philippines	80.99	1.15
41	Poland	74.63	1.06
42	Croatia	64.68	0.90
43	Egypt	62.50	0.87
44	Mexico	55.32	0.76
45	Brazil	49.23	0.66
46	Indonesia	48.02	0.65
47	Cambodia	45.67	0.61
48	Russia	43.85	0.58
49	Argentina	40.48	0.53
50	Austria	32.50	0.41
51	Iran	29.08	0.35
52	Ukraine	26.42	0.31
53	Kenya	25.30	0.29
54	Bangladesh	17.52	0.17
55	Pakistan	15.43	0.14
56	India	12.11	0.09
57	Switzerland	12.08	0.09
58	Nigeria	6.18	0.00
-	Czech Republic	-	-
-	Hungary	-	-
-	Slovak Republic	-	-
-	Taiwan	-	-

3.1.4 International travel (2017)

Hard data: travellers per 1000 people

RANK	COUNTRY	UNIT	INDEX
1	Hong Kong	16,124.57	100.00
2	Austria	4,654.81	28.82
3	Croatia	4,246.79	26.29
4	Singapore	4,239.30	26.24
5	Denmark	3,442.34	21.30
6	Greece	3,243.15	20.06
7	Slovenia	3,193.50	19.75
8	Switzerland	2,982.43	18.44
9	Sweden	2,812.37	17.39
10	Hungary	2,650.91	16.39
11	Finland	2,271.15	14.03
12	Spain	2,120.84	13.10
13	Belgium	1,805.51	11.14
14	France	1,733.58	10.69
15	Poland	1,710.55	10.55
16	United Kingdom	1,693.04	10.44
17	Czech Republic	1,598.48	9.86
18	Germany	1,571.00	9.69
19	Italy	1,487.66	9.17
20	Canada	1,473.94	9.08
21	New Zealand	1,336.70	8.23
22	Israel	1,286.54	7.92
23	Saudi Arabia	1,123.29	6.91
24	Slovak Republic	1,108.98	6.82
25	Netherlands	1,046.27	6.43
26	Ukraine	907.12	5.57
27	Malaysia	834.21	5.11
28	Australia	802.66	4.92
29	Korea	773.94	4.74
30	Panama	672.06	4.11
31	Thailand	643.77	3.93
32	Dominican Republic	638.25	3.90
33	Turkey	573.20	3.49
34	Jordan	555.82	3.39
35	Chile	545.20	3.32
36	United States	506.37	3.08
37	Mexico	467.70	2.84
38	Cambodia	459.35	2.79
39	Russia	443.05	2.69
40	Argentina	430.88	2.61
41	Morocco	370.93	2.24
42	Japan	367.39	2.22
43	Peru	219.66	1.30
44	Guatemala	203.43	1.20
45	Iran	191.02	1.12
46	South Africa	180.44	1.06
47	Colombia	166.25	0.97
48	Sri Lanka	165.80	0.97
49	China	146.98	0.85
50	Vietnam	136.60	0.78
51	Indonesia	86.52	0.47
52	Egypt	84.58	0.46
53	Brazil	77.21	0.42
54	Philippines	62.95	0.33
55	India	29.50	0.12
56	Kenya	27.16	0.11
57	Nigeria	10.16	0.00
-	Bangladesh	-	-
-	Kuwait	-	-
-	Pakistan	-	-
-	Taiwan	-	-
-	U.A.E.	-	-

3 Related Industries

3.1 Industrial Infrastructure

3.1.5 Mobile phone subscribers (2021)

Hard data: per 100 people

RANK	COUNTRY	UNIT	INDEX
1	Hong Kong	259.43	100.00
2	U.A.E.	208.50	72.75
3	Thailand	180.18	57.59
4	Kuwait	178.59	56.74
5	Russia	157.43	45.42
6	South Africa	153.25	43.18
7	Vietnam	147.20	39.94
8	Singapore	145.71	39.15
9	Japan	139.20	35.66
10	Italy	137.47	34.74
11	New Zealand	134.93	33.38
12	Poland	134.75	33.28
13	Malaysia	134.53	33.16
14	Chile	134.44	33.11
15	Slovak Republic	132.80	32.24
16	Finland	132.18	31.91
17	Argentina	132.09	31.86
18	Panama	130.07	30.78
19	Colombia	129.91	30.69
20	Korea	129.67	30.56
21	Switzerland	129.61	30.53
22	Germany	129.32	30.38
23	Israel	127.66	29.49
24	Sweden	125.12	28.13
25	Denmark	125.12	28.13
26	Netherlands	124.27	27.67
27	Morocco	124.17	27.62
28	Taiwan	123.95	27.50
29	United States	123.69	27.36
30	Austria	123.54	27.28
31	Saudi Arabia	122.57	26.77
32	Ukraine	122.55	26.75
33	Indonesia	119.84	25.30
34	Cambodia	119.49	25.12
35	Czech Republic	119.17	24.95
36	Slovenia	118.67	24.68
37	Guatemala	118.67	24.68
38	United Kingdom	117.55	24.08
39	Spain	115.87	23.18
40	Greece	115.67	23.07
41	Sri Lanka	115.06	22.75
42	China	114.95	22.69
43	Australia	113.58	21.95
44	Iran	108.46	19.21
45	France	108.41	19.19
46	Croatia	105.58	17.67
47	Hungary	103.45	16.53
48	Belgium	103.44	16.53
49	Brazil	98.84	14.07
50	Turkey	97.30	13.24
51	Bangladesh	97.28	13.23
52	Kenya	96.32	12.72
53	Egypt	95.29	12.16
54	Mexico	93.01	10.94
55	Canada	89.23	8.92
56	Nigeria	88.18	8.36
57	Jordan	87.62	8.06
58	India	86.94	7.70
59	Dominican Republic	84.10	6.18
60	Pakistan	72.56	0.00
-	Peru	-	-
-	Philippines	-	-

3.1.6 Internet users (broad band) (2017)

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

RANK	COUNTRY	UNIT	INDEX
1	Kuwait	99.60	100.00
2	U.A.E.	98.45	98.64
3	Denmark	97.64	97.69
4	Korea	95.90	95.62
5	United Kingdom	94.90	94.44
6	Netherlands	94.71	94.22
7	Saudi Arabia	93.31	92.57
8	Sweden	92.14	91.18
9	Canada	91.00	89.83
10	New Zealand	90.81	89.61
11	Germany	89.74	88.34
12	Switzerland	89.69	88.28
13	Hong Kong	89.42	87.96
14	Finland	88.89	87.34
15	Belgium	88.66	87.06
16	Singapore	88.17	86.48
17	Austria	87.71	85.95
18	United States	87.27	85.42
19	Australia	86.55	84.57
20	Spain	86.11	84.05
21	Japan	84.59	82.26
22	Chile	82.33	79.58
23	France	82.04	79.25
24	Israel	81.58	78.70
25	Malaysia	81.20	78.25
26	Russia	80.86	77.85
27	Czech Republic	80.69	77.65
28	Slovak Republic	80.66	77.61
29	Slovenia	79.75	76.54
30	Poland	77.54	73.93
31	Hungary	76.07	72.19
32	Dominican Republic	74.82	70.71
33	Italy	74.39	70.20
34	Argentina	74.29	70.09
35	Greece	72.95	68.50
36	Croatia	72.69	68.19
37	Turkey	71.04	66.24
38	Vietnam	70.35	65.43
39	Iran	70.00	65.02
40	Brazil	67.47	62.02
41	Jordan	66.79	61.22
42	Mexico	65.77	60.01
43	Guatemala	65.00	59.10
44	Morocco	64.80	58.87
45	Colombia	62.26	55.86
46	Philippines	60.05	53.26
47	Ukraine	58.89	51.88
48	Panama	57.87	50.67
49	Thailand	56.82	49.43
50	South Africa	56.17	48.66
51	China	54.30	46.45
52	Peru	52.54	44.37
53	Egypt	46.92	37.74
54	Nigeria	42.00	31.91
55	Cambodia	40.00	29.55
56	Indonesia	39.79	29.30
57	India	34.45	22.99
58	Sri Lanka	34.11	22.59
59	Kenya	17.83	3.34
60	Pakistan	15.51	0.60
61	Bangladesh	15.00	0.00
-	Taiwan	-	-

3 Related Industries

3.1 Industrial Infrastructure

3.1.7 Capital value (2021)

Hard data: 1-inflation rate

RANK	COUNTRY	UNIT	INDEX
1	Singapore	1.00	100.00
2	Greece	0.99	99.36
3	Panama	0.99	98.89
4	Denmark	0.99	98.71
5	Israel	0.99	98.71
6	Malaysia	0.99	98.46
7	Switzerland	0.99	98.29
8	Japan	0.99	98.14
9	Thailand	0.99	97.85
10	Finland	0.99	97.78
11	Italy	0.99	97.60
12	Peru	0.99	96.98
13	Taiwan	0.99	96.69
14	Korea	0.99	96.43
15	Croatia	0.98	96.35
16	New Zealand	0.98	96.01
17	Spain	0.98	95.75
18	Netherlands	0.98	95.65
19	Germany	0.98	95.55
20	Slovenia	0.98	95.53
21	Poland	0.98	95.27
22	France	0.98	95.14
23	Australia	0.98	94.93
24	Morocco	0.98	94.93
25	Sweden	0.98	94.79
26	Austria	0.98	94.63
27	Belgium	0.98	94.44
28	China	0.98	94.37
29	Sri Lanka	0.98	94.16
30	Czech Republic	0.98	94.11
31	Kuwait	0.98	94.04
32	Canada	0.98	93.70
33	United Kingdom	0.98	93.62
34	Hong Kong	0.98	93.22
35	Chile	0.98	93.13
36	United States	0.98	93.10
37	Saudi Arabia	0.98	93.02
38	Slovak Republic	0.97	92.86
39	Hungary	0.97	91.70
40	Russia	0.97	91.61
41	Cambodia	0.97	91.56
42	U.A.E.	0.97	90.95
43	Indonesia	0.97	90.50
44	Colombia	0.97	90.36
45	Vietnam	0.96	89.33
46	Dominican Republic	0.96	89.24
47	Brazil	0.96	88.90
48	Guatemala	0.96	88.60
49	Jordan	0.96	86.16
50	South Africa	0.95	86.01
51	Kenya	0.95	85.37
52	India	0.95	84.78
53	Mexico	0.95	84.65
54	Pakistan	0.95	84.04
55	Philippines	0.95	83.58
56	Bangladesh	0.94	82.43
57	Iran	0.90	67.15
58	Ukraine	0.89	63.83
59	Nigeria	0.88	59.89
60	Turkey	0.84	45.31
61	Egypt	0.70	0.00
-	Argentina	-	-

3.1.8 Capital accessibility (2021)

Hard data: 1-interest rate

RANK	COUNTRY	UNIT	INDEX
1	Japan	0.99	100.00
2	France	0.99	99.22
3	Netherlands	0.99	99.12
4	Hungary	0.99	98.75
5	Austria	0.98	98.49
6	Finland	0.98	98.38
7	Germany	0.98	98.23
8	Sweden	0.98	97.54
9	Spain	0.98	97.28
10	Belgium	0.98	97.15
11	Slovak Republic	0.98	96.20
12	Taiwan	0.97	95.84
13	Slovenia	0.97	95.81
14	Switzerland	0.97	95.71
15	Italy	0.97	95.57
16	Canada	0.97	95.52
17	Denmark	0.97	95.15
18	Israel	0.97	93.48
19	Czech Republic	0.96	93.31
20	Korea	0.96	92.99
21	Thailand	0.96	91.72
22	Chile	0.96	91.64
23	Croatia	0.96	91.50
24	China	0.96	91.19
25	United Kingdom	0.96	91.11
26	New Zealand	0.95	90.11
27	Poland	0.95	90.01
28	Kuwait	0.95	89.94
29	United States	0.95	89.73
30	Malaysia	0.95	89.67
31	Hong Kong	0.95	89.37
32	Greece	0.95	88.83
33	Australia	0.95	88.80
34	Singapore	0.95	88.62
35	Morocco	0.94	87.91
36	U.A.E.	0.94	86.86
37	Philippines	0.94	86.55
38	Vietnam	0.93	83.17
39	Panama	0.92	82.88
40	Mexico	0.92	81.39
41	Saudi Arabia	0.92	80.82
42	Pakistan	0.91	80.21
43	Jordan	0.91	79.87
44	Russia	0.91	79.33
45	India	0.91	77.79
46	Bangladesh	0.90	77.27
47	South Africa	0.90	76.14
48	Indonesia	0.89	74.95
49	Cambodia	0.89	73.94
50	Sri Lanka	0.88	72.28
51	Colombia	0.88	70.80
52	Guatemala	0.87	68.68
53	Kenya	0.87	68.32
54	Dominican Republic	0.85	62.14
55	Turkey	0.84	61.21
56	Peru	0.83	59.03
57	Nigeria	0.83	58.23
58	Iran	0.82	55.35
59	Egypt	0.82	54.52
60	Ukraine	0.81	52.71
61	Argentina	0.63	4.44
62	Brazil	0.61	0.00

3 Related Industries

3.1 Industrial Infrastructure

3.1.9 Scientists & engineers (2017)

Hard data: total R&D personnel per million inhabitants

RANK	COUNTRY	UNIT	INDEX
1	Saudi Arabia	63.42	100.00
2	Denmark	29.01	45.50
3	Austria	28.17	44.16
4	Finland	26.89	42.13
5	Taiwan	26.88	42.11
6	Sweden	26.82	42.03
7	Switzerland	25.70	40.24
8	Korea	23.43	36.66
9	Belgium	22.66	35.43
10	Germany	21.40	33.43
11	Netherlands	20.80	32.49
12	France	20.64	32.24
13	United Kingdom	20.58	32.13
14	Slovenia	19.95	31.14
15	Czech Republic	19.82	30.93
16	Greece	18.86	29.42
17	New Zealand	18.51	28.87
18	Japan	17.73	27.62
19	Italy	17.34	27.00
20	Singapore	15.32	23.80
21	Spain	14.89	23.13
22	Slovak Republic	12.00	18.54
23	Hungary	11.72	18.10
24	Croatia	10.07	15.48
25	Malaysia	9.64	14.81
26	Russia	9.56	14.68
27	Poland	9.26	14.21
28	Hong Kong	9.00	13.80
29	Turkey	8.36	12.78
30	China	7.74	11.79
31	Egypt	7.61	11.59
32	Brazil	5.87	8.84
33	Argentina	5.50	8.25
34	Iran	5.28	7.90
35	Jordan	5.17	7.73
36	Ukraine	4.85	7.21
37	Thailand	4.81	7.15
38	Morocco	4.48	6.63
39	South Africa	3.69	5.38
40	Vietnam	3.03	4.34
41	Chile	2.83	4.01
42	Pakistan	2.77	3.93
43	Kuwait	2.61	3.67
44	Panama	2.06	2.80
45	Sri Lanka	1.45	1.83
46	Mexico	1.42	1.79
47	Indonesia	1.38	1.73
48	Philippines	0.89	0.94
49	Cambodia	0.33	0.05
50	Peru	0.31	0.03
51	Guatemala	0.29	0.00
-	Australia	-	-
-	Bangladesh	-	-
-	Canada	-	-
-	Colombia	-	-
-	Dominican Republic	-	-
-	India	-	-
-	Israel	-	-
-	Kenya	-	-
-	Nigeria	-	-
-	U.A.E.	-	-
-	United States	-	-

3.1.10 Scientific research institutions (2019)

Survey: scientific research institutions are good by global standard.

RANK	COUNTRY	UNIT	INDEX
1	Israel	9.40	100.00
2	Switzerland	9.04	94.41
3	Belgium	8.21	81.79
4	United States	8.07	79.63
5	Sweden	8.05	79.27
6	Denmark	7.83	75.94
7	Hong Kong	7.75	74.66
8	France	7.71	74.05
9	Germany	7.70	73.89
10	Singapore	7.70	73.84
11	Netherlands	7.67	73.38
12	Slovenia	7.65	73.14
13	Canada	7.62	72.59
14	Japan	7.60	72.35
15	Hungary	7.55	71.56
16	Korea	7.47	70.41
17	China	7.43	69.79
18	New Zealand	7.43	69.72
19	Italy	7.42	69.61
20	Kuwait	7.38	69.05
21	Nigeria	7.21	66.32
22	Thailand	7.16	65.60
23	Spain	7.09	64.54
24	Austria	7.08	64.37
25	Australia	7.05	63.87
26	India	7.03	63.63
27	U.A.E.	6.90	61.68
28	Taiwan	6.87	61.16
29	Argentina	6.82	60.35
30	Colombia	6.67	58.02
31	Bangladesh	6.60	57.00
32	Brazil	6.58	56.74
33	Czech Republic	6.52	55.71
34	Guatemala	6.47	54.98
35	Russia	6.47	54.95
36	Peru	6.45	54.72
37	Malaysia	6.44	54.61
38	Panama	6.44	54.50
39	Mexico	6.40	53.92
40	Poland	6.37	53.50
41	Greece	6.35	53.10
42	Croatia	6.34	53.06
43	Philippines	6.33	52.90
44	Turkey	6.29	52.30
45	Egypt	6.21	51.01
46	Indonesia	6.14	49.98
47	Saudi Arabia	6.04	48.45
48	South Africa	6.03	48.25
49	Jordan	5.89	46.14
50	Kenya	5.86	45.69
51	Vietnam	5.82	44.99
52	Slovak Republic	5.80	44.71
53	Iran	5.26	36.49
54	Morocco	4.71	28.04
55	Pakistan	4.55	25.54
56	Dominican Republic	4.43	23.72
57	Cambodia	2.89	0.00
-	Chile	-	-
-	Finland	-	-
-	Sri Lanka	-	-
-	Ukraine	-	-
-	United Kingdom	-	-

3 Related Industries

3.1 Industrial Infrastructure

3.1.11 Total expenditure on R&D (2017)

Hard data: % of GDP

RANK	COUNTRY	UNIT	INDEX
1	Korea	4.55	100.00
2	Israel	4.54	99.78
3	Sweden	3.40	74.56
4	Switzerland	3.37	73.89
5	Taiwan	3.30	72.35
6	Japan	3.21	70.35
7	Austria	3.16	69.25
8	Denmark	3.05	66.82
9	Germany	3.04	66.59
10	United States	2.79	61.06
11	Finland	2.76	60.40
12	Belgium	2.70	59.07
13	France	2.19	47.79
14	China	2.15	46.90
15	Netherlands	1.99	43.36
16	Singapore	1.95	42.48
17	Australia	1.92	41.88
18	Slovenia	1.86	40.49
19	Czech Republic	1.79	38.94
20	United Kingdom	1.66	36.06
21	Canada	1.53	33.18
22	New Zealand	1.37	29.65
23	Hungary	1.35	29.21
23	Italy	1.35	29.21
25	Malaysia	1.30	28.11
26	Brazil	1.27	27.34
27	Spain	1.21	26.11
28	Greece	1.13	24.34
29	Russia	1.11	23.90
30	Poland	1.03	22.13
31	U.A.E.	0.96	20.66
32	Turkey	0.88	18.84
33	Slovak Republic	0.88	18.81
34	Croatia	0.85	18.05
35	South Africa	0.82	17.48
36	Saudi Arabia	0.82	17.37
37	Hong Kong	0.80	17.03
38	Thailand	0.78	16.62
39	India	0.62	13.05
40	Egypt	0.61	12.74
41	Argentina	0.54	11.29
42	Mexico	0.49	10.10
43	Ukraine	0.45	9.26
44	Vietnam	0.44	9.10
45	Chile	0.36	7.30
46	Jordan	0.33	6.68
47	Iran	0.25	4.93
48	Pakistan	0.25	4.78
49	Colombia	0.24	4.74
50	Philippines	0.14	2.39
51	Peru	0.12	2.01
52	Cambodia	0.12	1.95
53	Sri Lanka	0.11	1.74
54	Indonesia	0.08	1.21
55	Kuwait	0.08	1.13
56	Panama	0.06	0.71
57	Guatemala	0.03	0.00
-	Bangladesh	-	-
-	Dominican Republic	-	-
-	Kenya	-	-
-	Morocco	-	-
-	Nigeria	-	-

3.1.12 International patents granted (2019)

Hard data: patents issued by USPTO (number)

RANK	COUNTRY	UNIT	INDEX
1	United States	177,053.00	100.00
2	Japan	53,176.00	30.03
3	Korea	22,427.00	12.67
4	Germany	18,761.00	10.60
5	Taiwan	11,857.00	6.70
6	United Kingdom	8,493.00	4.80
7	Canada	7,793.00	4.40
8	France	7,532.00	4.25
9	India	5,075.00	2.87
10	Israel	4,630.00	2.61
11	Italy	3,718.00	2.10
12	Netherlands	3,340.00	1.89
13	Sweden	3,321.00	1.88
14	Switzerland	3,198.00	1.81
15	Australia	2,136.00	1.21
16	Austria	1,618.00	0.91
17	Finland	1,545.00	0.87
18	Belgium	1,447.00	0.82
19	Denmark	1,320.00	0.74
20	Singapore	1,102.00	0.62
21	Hong Kong	1,073.00	0.61
22	Spain	1,058.00	0.60
23	Saudi Arabia	871.00	0.49
24	Russia	615.00	0.35
25	New Zealand	435.00	0.25
26	Brazil	432.00	0.24
27	Mexico	411.00	0.23
28	Czech Republic	383.00	0.22
29	Poland	337.00	0.19
30	Malaysia	296.00	0.17
31	Turkey	252.00	0.14
32	South Africa	202.00	0.11
33	Hungary	145.00	0.08
34	Greece	133.00	0.07
35	Thailand	128.00	0.07
36	Argentina	115.00	0.06
37	U.A.E.	98.00	0.05
38	Philippines	88.00	0.05
39	Iran	86.00	0.05
40	Slovenia	79.00	0.04
41	Ukraine	71.00	0.04
42	Slovak Republic	58.00	0.03
43	Vietnam	57.00	0.03
44	Colombia	46.00	0.03
45	Egypt	45.00	0.02
46	Kuwait	44.00	0.02
47	Chile	41.00	0.02
48	China	27.00	0.01
49	Pakistan	26.00	0.01
50	Croatia	22.00	0.01
51	Jordan	19.00	0.01
52	Indonesia	13.00	0.01
53	Kenya	12.00	0.01
54	Bangladesh	10.00	0.01
54	Peru	10.00	0.01
54	Sri Lanka	10.00	0.01
57	Morocco	7.00	0.00
58	Panama	6.00	0.00
59	Guatemala	5.00	0.00
60	Dominican Republic	4.00	0.00
61	Cambodia	1.00	0.00
61	Nigeria	1.00	0.00