

Extended Data Tables

Table 1 | AlphaFold-related and non-AlphaFold publication counts by discipline and domain (2019-2025)

Discipline	Domain	AF work	Non-AF work
Biochemistry, Genetics and Molecular Biology	Molecular Biology	20597	1875678
Biochemistry, Genetics and Molecular Biology	Genetics	2022	516035
Biochemistry, Genetics and Molecular Biology	Cell Biology	1806	201648
Biochemistry, Genetics and Molecular Biology	Biotechnology	459	82641
Biochemistry, Genetics and Molecular Biology	Endocrinology	415	41620
Biochemistry, Genetics and Molecular Biology	Cancer Research	360	266849
Biochemistry, Genetics and Molecular Biology	Biochemistry	351	52485
Biochemistry, Genetics and Molecular Biology	Structural Biology	299	10188
Biochemistry, Genetics and Molecular Biology	Molecular Medicine	264	69576
Biochemistry, Genetics and Molecular Biology	Biophysics	261	135800
Biochemistry, Genetics and Molecular Biology	Aging	189	18996
Biochemistry, Genetics and Molecular Biology	Physiology	137	27523
Biochemistry, Genetics and Molecular Biology	Clinical Biochemistry	96	45469
Biochemistry, Genetics and Molecular Biology	Developmental Biology	7	17106
Immunology and Microbiology	Immunology	978	336588
Immunology and Microbiology	Microbiology	439	64652
Immunology and Microbiology	Virology	243	39203
Immunology and Microbiology	Applied Microbiology & Biotechnology	9	29649
Pharmacology, Toxicology and Pharmaceutics	Pharmacology	137	111206
Pharmacology, Toxicology and Pharmaceutics	Toxicology	28	24137
Pharmacology, Toxicology and Pharmaceutics	Pharmaceutical Science	24	67690
Pharmacology, Toxicology and Pharmaceutics	Drug Discovery	0	1715

Table 2 | Country rankings by pre-AlphaFold R&D strength (2015-2018 R&D expenditure and pre-AlphaFold life-science output)

R&D Rank	ISO Code	Country	R&D expenditure (% of GDP)	Pre-AF life-science output	Composite R&D-strength index	R&D-strength group
1	IL	Israel	4.637	7385.9	2.386	High
2	KR	South Korea	3.98	33968.2	2.361	High
3	US	United States of America	2.871	334354.5	2.259	High
4	JP	Japan	3.183	58992.2	2.063	High
5	DE	Germany	2.95	62301.1	1.954	High
6	SE	Sweden	3.309	10818.9	1.779	High
7	CN	China	2.064	192517.0	1.728	High
8	CH	Switzerland	3.046	13828.1	1.693	High
9	GB	United Kingdom	2.408	59334.9	1.663	High
10	DK	Denmark	3.02	9305.5	1.598	High
11	AT	Austria	3.096	7674.7	1.598	High
12	BE	Belgium	2.627	9766.2	1.405	High
13	FI	Finland	2.79	4553.6	1.332	High
14	NL	Netherlands	2.119	16743.5	1.254	High
15	AU	Australia	1.9	23909.6	1.214	High
16	CA	Canada	1.712	31716.3	1.175	High
17	IT	Italy	1.369	33143.2	1.006	High
18	BR	Brazil	1.187	28555.4	0.882	High
19	CZ	Czechia	1.795	6178.9	0.881	High
20	ES	Spain	1.207	26607.1	0.877	High
21	IN	India	0.672	52155.5	0.74	High
22	RU	Russia	1.076	18860.3	0.739	High
23	SI	Slovenia	2.023	1550.3	0.713	High
24	TR	Turkey	1.134	12891.6	0.69	High
25	PL	Poland	1.046	13850.5	0.66	High
26	PT	Portugal	1.3	6466.2	0.634	High
27	MY	Malaysia	1.245	5493.8	0.572	High
28	HU	Hungary	1.333	3922.5	0.548	High
29	NZ	New Zealand	1.287	3674.0	0.511	High
30	IR	Iran	0.577	19166.5	0.484	High
31	IE	Ireland	1.145	4250.2	0.468	High
32	IS	Iceland	2.094	335.1	0.435	High
33	GR	Greece	1.083	4122.6	0.429	High
34	EG	Egypt	0.69	8170.1	0.367	High
35	TH	Thailand	0.877	4825.9	0.355	High
36	ZA	South Africa	0.732	4158.3	0.25	High
37	EE	Estonia	1.324	702.0	0.189	High
38	MX	Mexico	0.352	7971.7	0.187	Middle
39	AR	Argentina	0.556	4768.6	0.187	Middle
40	SK	Slovakia	0.913	1638.7	0.151	Middle
41	RS	Serbia	0.827	1878.7	0.135	Middle
42	HR	Croatia	0.865	1630.6	0.125	Middle
43	ID	Indonesia	0.237	7423.1	0.113	Middle
44	UA	Ukraine	0.505	3398.5	0.09	Middle
45	LU	Luxembourg	1.232	515.5	0.078	Middle
46	BG	Bulgaria	0.804	1410.7	0.064	Middle
47	TN	Tunisia	0.644	1811.6	0.033	Middle
48	AE	United Arab Emirates	1.02	694.5	0.03	Middle
49	RO	Romania	0.495	2564.9	0.028	Middle
50	LT	Lithuania	0.927	750.9	-0.002	Middle
51	CL	Chile	0.37	2998.0	-0.005	Middle
52	PK	Pakistan	0.217	4128.8	-0.018	Middle
53	CO	Colombia	0.302	3083.1	-0.034	Middle
54	VN	Vietnam	0.388	1596.0	-0.126	Middle
55	JO	Jordan	0.695	631.7	-0.157	Middle
56	DZ	Algeria	0.479	929.1	-0.19	Middle
57	CU	Cuba	0.435	988.3	-0.2	Middle
58	QA	Qatar	0.525	643.5	-0.242	Middle
59	BY	Belarus	0.547	568.9	-0.255	Middle
60	ET	Ethiopia	0.274	961.1	-0.289	Middle
61	IQ	Iraq	0.042	1655.5	-0.297	Middle
62	UY	Uruguay	0.418	599.0	-0.312	Middle
63	PR	Puerto Rico	0.429	572.4	-0.315	Middle
64	LV	Latvia	0.571	399.2	-0.316	Middle

65	CY	Cyprus	0.537	417.4	-0.324	Middle
66	PH	Philippines	0.24	822.4	-0.339	Middle
67	CR	Costa Rica	0.419	488.6	-0.353	Middle
68	PE	Peru	0.121	947.2	-0.371	Middle
69	PA	Panama	0.124	685.6	-0.436	Middle
70	LK	Sri Lanka	0.115	653.9	-0.45	Middle
71	KZ	Kazakhstan	0.139	466.9	-0.507	Middle
72	BF	Burkina Faso	0.614	122.8	-0.536	Middle
73	MK	North Macedonia	0.4	210.4	-0.536	Middle
74	SN	Senegal	0.577	134.0	-0.537	Middle
75	OM	Oman	0.209	322.7	-0.547	Low
76	BA	Bosnia and Herz.	0.205	304.6	-0.561	Low
77	AM	Armenia	0.225	279.7	-0.568	Low
78	GE	Georgia	0.279	208.2	-0.601	Low
79	KW	Kuwait	0.08	279.0	-0.643	Low
80	CI	Côte d'Ivoire	0.07	274.1	-0.652	Low
81	AZ	Azerbaijan	0.199	190.8	-0.66	Low
82	MN	Mongolia	0.144	215.4	-0.663	Low
83	RW	Rwanda	0.649	57.2	-0.673	Low
84	CD	Dem. Rep. Congo	0.406	92.7	-0.7	Low
85	ML	Mali	0.255	117.8	-0.73	Low
86	TJ	Tajikistan	0.103	170.2	-0.733	Low
87	UZ	Uzbekistan	0.145	151.7	-0.735	Low
88	PY	Paraguay	0.127	156.9	-0.737	Low
89	MD	Moldova	0.275	99.8	-0.753	Low
90	BO	Bolivia	0.076	141.6	-0.784	Low
91	ME	Montenegro	0.388	56.7	-0.81	Low
92	MZ	Mozambique	0.308	65.8	-0.821	Low
93	MM	Myanmar	0.045	126.3	-0.824	Low
94	SY	Syria	0.019	119.7	-0.848	Low
95	BN	Brunei	0.278	57.2	-0.865	Low
96	BI	Burundi	0.213	60.1	-0.888	Low
97	KH	Cambodia	0.088	81.2	-0.892	Low
98	GT	Guatemala	0.028	81.7	-0.922	Low
99	MG	Madagascar	0.013	81.8	-0.929	Low
100	TT	Trinidad and Tobago	0.084	67.3	-0.932	Low
101	KG	Kyrgyzstan	0.11	51.0	-0.975	Low
102	NI	Nicaragua	0.107	47.3	-0.992	Low
103	HN	Honduras	0.04	54.5	-0.998	Low
104	GM	Gambia	0.069	33.4	-1.081	Low
105	SV	El Salvador	0.159	25.3	-1.09	Low
106	PG	Papua New Guinea	0.032	29.8	-1.123	Low
107	AO	Angola	0.032	29.1	-1.127	Low
108	SZ	eSwatini	0.278	7.0	-1.273	Low
109	TD	Chad	0.233	7.0	-1.297	Low
110	LS	Lesotho	0.051	4.3	-1.475	Low
111	MR	Mauritania	0.01	4.2	-1.501	Low
112	TM	Turkmenistan	0.11	2.0	-1.564	Low

Note: R&D strength is a composite index combining each country's average R&D expenditure as a share of GDP (2015–2018) and its pre-2019 life-science publication output. Countries are ranked by this index and grouped into high- (30%), middle-(40%), and low-R&D-strength (30%) tiers used throughout the analysis. Pre-AlphaFold life-science output is measured using fractional publication counts and is rounded to one decimal place for presentation.

Table 3 | Collaboration and authorship indicators and their operational definitions.

Indicator	Operational definition	Unit/Scale
International co-authorship rate	A paper is classified as internationally co-authored when author affiliations span at least two countries or regions. The indicator reports, by publication quarter, the share of AlphaFold-related and non-AlphaFold life-science papers that are internationally co-authored.	% of papers
Mean team size	Team size is the number of authors listed on a publication. The indicator tracks the mean team size for AlphaFold-related and non-AlphaFold papers by publication year.	authors per paper
Large team share	Publications are grouped into author-count bins. The indicator reports, by year, the share of AlphaFold-related and non-AlphaFold papers falling into large-team categories (for example, 10–19 and ≥ 20 authors).	% of papers in a team-size bin
Group-level collaboration matrix	Countries are assigned to low, middle, and high R&D-strength groups. AlphaFold-related country–country co-authorships are aggregated into a weighted matrix by source and partner group, and each cell records the row-normalized share of collaboration weight from a source group to a partner group.	% of collaboration weight within source group
Collaboration centrality	Country position in the AlphaFold international co-authorship network is measured using eigenvector centrality. The plotted values are \log_{10} -transformed eigenvector centrality scores.	\log_{10} (eigenvector centrality)
First-author share	The share of total AlphaFold-related first-author country credit captured by each R&D-strength group, where first-author country credit is aggregated from affiliation-based first-author country assignments.	% of total AF first-author credit
Last-author share	The share of total AlphaFold-related last-author country credit captured by each R&D-strength group, where last-author country credit is aggregated from affiliation-based last-author country assignments.	% of total AF last-author credit
First-author ratio (country level)	For each country, the first-author ratio is defined as (fractional first-author AlphaFold output) / (fractional total AlphaFold output). First-author output is fractionalized across first-author countries only, whereas total output is fractionalized across all participating countries.	% ratio
Last-author ratio (country level)	For each country, the last-author ratio is defined as $100 \times$ (fractional last-author AlphaFold output) / (fractional total AlphaFold output). Last-author output is fractionalized across last-author countries only, whereas total AlphaFold output is fractionalized across all participating countries.	% ratio

Table 4 | Country rankings by AlphaFold-related and non-AlphaFold life-science output.

Rank	ISO Code	Country	AF output	Non-AF output
1	US	United States of America	7929.2	586756.3
2	CN	China	4429.5	594931.0
3	DE	Germany	1857.3	109068.1
4	GB	United Kingdom	1832.0	109590.6
5	JP	Japan	1017.4	99730.8
6	FR	FR	975.7	73471.4
7	IN	India	853.6	142386.5
8	CA	Canada	813.5	57445.8
9	IT	Italy	559.5	69196.2
10	ES	Spain	551.1	52979.7
11	KR	South Korea	542.0	57706.5
12	CH	Switzerland	510.5	27100.0
13	AU	Australia	476.0	43313.4
14	NL	Netherlands	408.1	31238.6
15	SE	Sweden	354.0	20038.7
16	RU	Russia	332.2	49222.6
17	DK	Denmark	323.8	16640.6
18	PL	Poland	281.5	27063.8
19	IL	Israel	262.4	14281.0
20	AT	Austria	221.6	13463.0
21	BR	Brazil	220.7	54192.6
22	BE	Belgium	216.5	18150.8
23	CZ	Czechia	216.4	12517.7
24	TW	Taiwan	148.2	21411.0
25	MX	Mexico	145.0	18221.5
26	SG	SG	139.6	9689.3
27	TR	Turkey	130.4	34799.2
28	AR	Argentina	106.7	8642.0
29	SA	Saudi Arabia	105.5	15749.7
30	HK	Hong Kong S.A.R.	96.7	6864.8

31	HU	Hungary	91.7	8063.8
32	NO	NO	91.4	8921.0
33	IR	Iran	87.9	40503.2
34	FI	Finland	87.5	8469.9
35	PK	Pakistan	79.4	15592.4
36	PT	Portugal	75.2	13812.8
37	NZ	New Zealand	74.4	6891.0
38	TH	Thailand	69.5	12272.5
39	GR	Greece	63.1	9379.0
40	ZA	South Africa	56.5	9155.1
41	CL	Chile	56.2	6125.8
42	EG	Egypt	54.6	24153.1
43	IE	Ireland	51.9	8222.2
44	BD	Bangladesh	51.5	6860.3
45	MY	Malaysia	46.7	11960.1
46	SI	Slovenia	41.0	3202.9
47	MO	MO	40.7	1947.8
48	LT	Lithuania	40.0	1764.5
49	ID	Indonesia	38.3	27307.1
50	AE	United Arab Emirates	36.5	3339.1
51	SK	Slovakia	25.0	3170.8
52	UA	Ukraine	24.3	7731.8
53	VN	Vietnam	24.1	6425.3
54	EE	Estonia	22.0	1438.9
55	PH	Philippines	21.8	2886.0
56	RO	Romania	21.1	6448.4
57	CO	Colombia	18.8	6861.0
58	BG	Bulgaria	18.5	3386.5
59	HR	Croatia	16.6	3433.1
60	ET	Ethiopia	14.0	3765.0
61	NG	Nigeria	13.7	11701.6
62	BY	Belarus	13.6	1674.9
63	PE	Peru	13.4	2662.1
64	SS	S. Sudan	11.7	507.9

65	UY	Uruguay	11.6	1342.7
66	PR	Puerto Rico	11.6	1367.7
67	QA	Qatar	11.0	1940.8
68	RS	Serbia	10.9	3641.2
69	EC	Ecuador	10.7	2275.2
70	LK	Sri Lanka	9.6	1849.8
71	AM	Armenia	9.2	753.7
72	KZ	Kazakhstan	9.0	2093.6
73	CY	Cyprus	8.8	1310.5
74	MA	Morocco	8.7	3554.5
75	KP	North Korea	8.5	87.3
76	NP	Nepal	8.3	2515.8
77	IS	Iceland	8.0	660.7
78	IQ	Iraq	7.7	10041.7
79	TJ	Tajikistan	7.0	609.0
80	LU	Luxembourg	6.9	1010.3
81	TN	Tunisia	6.5	3241.9
82	KW	Kuwait	6.5	776.5
83	LB	Lebanon	6.4	1673.7
84	JO	Jordan	6.2	2302.6
85	YE	Yemen	6.1	586.7
86	LA	Laos	5.8	201.2
87	LV	Latvia	5.7	1397.7
88	CU	Cuba	5.6	1101.4
89	BI	Burundi	5.6	177.3
90	CR	Costa Rica	4.6	1127.5
91	KN	KN	4.1	263.9
92	OM	Oman	3.7	795.8
93	UZ	Uzbekistan	3.5	1499.9
94	KE	Kenya	3.4	1890.6
95	SD	Sudan	3.4	984.6
96	AZ	Azerbaijan	3.2	731.2
97	RW	Rwanda	3.1	288.2
98	DZ	Algeria	3.0	1928.1

99	GH	Ghana	2.8	1592.2
100	RE	RE	2.7	196.4
101	MK	North Macedonia	2.5	537.0
102	ME	Montenegro	2.5	244.3
103	BW	Botswana	2.3	296.7
104	PS	Palestine	2.3	579.2
105	MT	MT	2.1	267.4
106	VE	Venezuela	2.0	561.1
107	UG	Uganda	1.9	1208.2
108	MN	Mongolia	1.8	571.4
109	BA	Bosnia and Herz.	1.8	676.3
110	MD	Moldova	1.8	369.5
111	NI	Nicaragua	1.7	153.7
112	DO	Dominican Rep.	1.7	201.6
113	GE	Georgia	1.6	808.1
114	MG	Madagascar	1.6	270.5
115	ZM	Zambia	1.4	1041.2
116	CM	Cameroon	1.4	1297.3
117	BS	Bahamas	1.4	21.2
118	PA	Panama	1.3	2160.0
119	FJ	Fiji	1.3	115.2
120	PY	Paraguay	1.2	409.0
121	BO	Bolivia	1.2	385.1
122	MU	MU	1.0	134.2
123	MV	MV	1.0	89.6
124	MW	Malawi	0.9	242.2
125	KY	KY	0.8	16.3
126	PG	Papua New Guinea	0.7	79.3
127	GT	Guatemala	0.6	241.7
128	SN	Senegal	0.6	397.6
129	HT	Haiti	0.5	38.6
130	KH	Cambodia	0.5	530.0
131	SV	El Salvador	0.5	74.4
132	VI	VI	0.5	16.0

133	TZ	Tanzania	0.5	962.0
134	ML	Mali	0.5	255.8
135	JM	Jamaica	0.4	121.0
136	BF	Burkina Faso	0.3	418.9
137	HN	Honduras	0.3	123.3
138	MZ	Mozambique	0.3	166.8
139	NE	Niger	0.3	144.9
140	SY	Syria	0.3	552.3
141	BJ	Benin	0.3	375.4
142	LI	LI	0.3	31.8
143	AL	Albania	0.3	267.1
144	GM	Gambia	0.3	91.0
145	GU	GU	0.3	30.4
146	TG	Togo	0.3	132.3
147	WS	WS	0.2	15.0
148	ZW	Zimbabwe	0.2	351.7
149	BM	BM	0.1	9.0
150	GD	GD	0.1	115.5
151	CI	Côte d'Ivoire	0.1	635.0
152	AG	AG	0.0	314.8

Note: AF output and non-AF output denote fractional counts of AlphaFold-related and other life-science publications, respectively, aggregated by country and rounded to one decimal place for presentation.

Table 5 | Definitions and indicator composition of the AI4S capacity dimensions.

Dimension	Conceptual focus	Underlying indicators
Adoption speed	Captures both the timing of initial AlphaFold uptake and the subsequent pace of diffusion within national life-science research systems.	(i) The year of each country’s first AlphaFold-related publication over 2019–2025.
		(ii) The relative timing score comparing each country’s first-use year to the earliest adopter; and
		(iii) The country-specific growth rate in cumulative AlphaFold-related publications estimated over 2019–2025.
Production output	Captures the scale and citation impact of a country’s AlphaFold-related life-science research output.	(i) Fractional counts of AlphaFold-related publications over 2019–2025, assigning each country a share when a paper lists country affiliations.
		(ii) Field- and year-normalized citation scores for AlphaFold-related papers, averaged for each country using fractional-count weights.
Network influence	Captures how strongly a country shapes and occupies central positions in AlphaFold-related international collaboration networks, including its tendency to take on leading authorship roles.	(i) Eigenvector centrality in the weighted country–country AlphaFold co-authorship network, based on fractional co-authorship counts.
		(ii) The ratio of fractional first-author positions to total fractional participation in AlphaFold-related publications; and
		(iii) The ratio of fractional last-author positions to total fractional participation.
Composite AI4S capacity index	Overall AI4S capacity of national research systems, combining adoption, production, and network dimensions.	The three standardized AI4S capacity dimensions: adoption speed, production output (scale and impact), and network influence.
PCA-based AI4S capacity index (robustness measure)	Data-driven summary of the shared variation across the AI4S capacity dimensions.	The same three standardized dimensions as above: adoption speed, production output (scale and impact), and network influence.

Note: The AI4S capacity measure is constructed for the common sample of 77 countries that have non-missing values on all three dimensions—adoption speed, production scale and impact, and network influence. Network influence combines a country’s eigenvector centrality in the AlphaFold co-authorship network with first- and last-author leadership ratios; all components are transformed and standardized to z-scores before aggregation. The composite AI4S capacity index takes the equal-weight average of the three-dimension scores, while a PCA-based index using the same inputs is reported as a robustness check in Extended Data Figure 19.

Table 6 | Composite AI4S capacity scores and country rankings.

Rank	Country	Composite AI4S capacity score	Adoption speed	Production output	Network influence	R&D-strength group
1	United States of America	3.217	4.622	2.576	1.069	High
2	United Kingdom	2.324	2.958	2.098	0.917	High
3	China	2.039	1.929	2.208	1.104	High
4	South Korea	1.847	2.499	1.577	0.67	High
5	Canada	1.522	1.763	1.374	0.774	High
6	Germany	1.329	0.596	1.85	0.968	High
7	Japan	1.319	1.183	1.521	0.686	High
8	Brazil	1.215	1.763	0.689	0.672	High
9	Italy	1.037	0.596	1.23	0.839	High
10	Denmark	1.012	0.933	1.017	0.652	High
11	Switzerland	1.0	0.596	1.253	0.722	High
12	Australia	0.948	0.596	1.094	0.746	High
13	Israel	0.896	0.493	0.972	0.839	High
14	Spain	0.867	0.204	1.184	0.839	High
15	Sweden	0.863	0.393	1.072	0.754	High
16	Russia	0.859	0.596	0.916	0.695	High
17	Mexico	0.8	1.183	0.36	0.513	Middle
18	Austria	0.793	0.596	0.811	0.632	High
19	India	0.78	0.026	1.227	0.75	High
20	Netherlands	0.756	0.026	1.147	0.769	High
21	Belgium	0.708	0.204	0.76	0.855	High
22	Finland	0.626	0.393	0.53	0.685	High
23	Chile	0.571	1.183	-0.032	0.316	Middle
24	Poland	0.57	0.026	0.862	0.577	High
25	Portugal	0.412	0.026	0.197	0.835	High
26	Greece	0.36	0.114	0.138	0.673	High

27	Czechia	0.325	-0.22	0.691	0.365	High
28	Turkey	0.318	-0.058	0.35	0.525	High
29	Hungary	0.314	-0.058	0.347	0.519	High
30	Argentina	0.287	-0.058	0.386	0.411	Middle
31	Pakistan	0.211	-0.14	0.175	0.507	Middle
32	Lithuania	0.154	0.114	0.094	0.189	Middle
33	Iran	0.127	-0.372	0.143	0.555	High
34	Ireland	0.096	0.026	0.089	0.132	High
35	New Zealand	0.083	-0.14	0.254	0.099	High
36	South Africa	0.06	0.204	0.019	-0.069	High
37	Thailand	0.026	-0.586	0.046	0.607	High
38	Malaysia	-0.065	-0.058	0.008	-0.118	High
39	Estonia	-0.071	-0.14	-0.329	0.286	High
40	Ukraine	-0.077	0.393	-0.271	-0.32	Middle
41	Indonesia	-0.133	-0.445	-0.187	0.29	Middle
42	Egypt	-0.17	-0.14	-0.002	-0.294	High
43	Iceland	-0.19	-0.445	-0.78	0.736	High
44	United Arab Emirates	-0.234	-0.297	-0.022	-0.283	Middle
45	Serbia	-0.245	-0.22	-0.789	0.38	Middle
46	Slovenia	-0.27	-0.445	-0.131	-0.117	High
47	Croatia	-0.288	-0.297	-0.566	0.124	Middle
48	Colombia	-0.325	-0.372	-0.623	0.16	Middle
49	Slovakia	-0.388	-0.445	-0.333	-0.219	Middle
50	Romania	-0.434	-0.22	-0.414	-0.482	Middle
51	Luxembourg	-0.486	-0.517	-0.997	0.264	Middle
52	Qatar	-0.491	-1.087	-0.779	0.605	Middle
53	Armenia	-0.5	-0.445	-0.367	-0.473	Low
54	Vietnam	-0.583	-0.97	-0.52	-0.009	Middle
55	Tunisia	-0.652	-0.445	-1.101	-0.129	Middle
56	Philippines	-0.673	-0.848	-0.47	-0.411	Middle
57	Peru	-0.725	-0.372	-0.629	-0.863	Middle

58	Latvia	-0.731	-0.14	-1.119	-0.62	Middle
59	Bulgaria	-0.762	-0.445	-0.702	-0.811	Middle
60	Uruguay	-0.796	-0.445	-0.915	-0.685	Middle
61	Cyprus	-0.816	-0.22	-0.711	-1.167	Middle
62	Belarus	-0.839	-0.517	-0.782	-0.859	Middle
63	Kazakhstan	-0.853	-1.199	-0.849	-0.143	Middle
64	Ethiopia	-0.896	-0.785	-0.725	-0.793	Middle
65	Jordan	-0.964	-0.909	-1.271	-0.296	Middle
66	Kuwait	-0.981	-0.97	-0.851	-0.702	Low
67	Puerto Rico	-0.982	-1.029	-0.288	-1.208	Middle
68	Sri Lanka	-1.018	-0.22	-0.974	-1.423	Middle
69	Burundi	-1.1	-1.306	-1.044	-0.478	Low
70	Panama	-1.224	-0.445	-1.734	-0.968	Middle
71	Tajikistan	-1.301	-0.445	-1.241	-1.658	Low
72	Cuba	-1.464	-0.909	-1.2	-1.653	Middle
73	Bosnia and Herz.	-1.542	-1.029	-1.754	-1.181	Low
74	Montenegro	-1.581	-0.909	-1.477	-1.676	Low
75	Rwanda	-1.809	-1.359	-1.446	-1.846	Low
76	Oman	-1.962	-1.653	-1.413	-1.977	Low
77	North Macedonia	-2.048	-1.46	-1.428	-2.375	Middle

Note: the table reports composite AI4S capacity scores and country rankings for the common 77-country sample. The composite score is the equal-weight average of the three standardized dimension scores – adoption speed, production output, and network influence – such that higher values indicate stronger AI4S capacity. Countries are ranked in descending order of the composite score.

Table 7 | Threshold (piecewise) regression results for AI4S outcomes.

	Adoption speed	Production output
Threshold $\hat{\tau}$	0.716	0.510
Pre-threshold slope	0.765	0.734
Slope change at $\hat{\tau}$	6.453	2.905
Post-threshold slope	7.128	3.639
p-value for slope change	<0.001	<0.001
Weighted SSE	893.375	130.796
n below $\hat{\tau}$	61	46
n above $\hat{\tau}$	16	31
Total n	77	77

Note: the table reports threshold (piecewise) regression estimates for the relationship between network influence and two AI4S outcomes: adoption speed, and production output (scale and impact). $\hat{\tau}$ denotes the estimated breakpoint in network influence. The pre-threshold slope gives the estimated slope below $\hat{\tau}$, the slope change gives the increase in slope above $\hat{\tau}$, and the post-threshold slope gives the resulting slope above the threshold. p-values test whether the change in slope differs from zero. All results are based on the common 77-country sample.