



3: Statistical annex

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Table S1: Socio-economic indicators, various years

	Population	Population	Life expectancy	Unemployment,	GDP in current prices		GDP per capita	
	(000's)	growth (annual %)	at birth, total (years)	total (% of total labour force)	(current PPP\$ – millions)		(current PPP\$)	
	2014	2014	2013	2013	2007	2013	2007	2013
North America								
Canada	35 525	0.97	81.40	7.10	1 290 073	1 502 939	39 226	42 753
United States of America	322 583	0.79	78.84	7.40	14 477 600	16 768 100	48 061	53 042
Latin America								
Argentina	41 803	0.86	76.19	7.50	–	–	–	–
Belize	340	2.34	73.90	14.60	2 222	2 817	7 763	8 487
Bolivia	10 848	1.64	67.22	2.60	44 218	65 426	4 570	6 131
Brazil	202 034	0.83	73.89	5.90	2 291 377	3 012 934	12 060	15 037
Chile	17 773	0.87	79.84	6.00	277 331	386 614	16 638	21 942
Colombia	48 930	1.25	73.98	10.50	430 916	600 341	9 684	12 424
Costa Rica	4 938	1.34	79.92	7.60	50 798	67 605	11 382	13 876
Ecuador	15 983	1.54	76.47	4.20	118 844	171 385	8 329	10 890
El Salvador	6 384	0.68	72.34	6.30	42 637	49 228	6 963	7 764
Guatemala	15 860	2.50	71.99	2.80	86 653	112 865	6 506	7 297
Guyana	804	0.51	66.21	11.10	3 733	5 234	4 845	6 546
Honduras	8 261	1.99	73.80	4.20	29 065	37 189	4 049	4 593
Mexico	123 799	1.19	77.35	4.90	1 551 985	2 002 543	13 670	16 370
Nicaragua	6 169	1.45	74.79	7.20	21 474	28 230	3 838	4 643
Panama	3 926	1.59	77.58	4.10	43 045	75 028	12 330	19 416
Paraguay	6 918	1.68	72.27	5.20	36 921	55 049	6 028	8 093
Peru	30 769	1.29	74.81	3.90	228 549	357 648	8 068	11 774
Suriname	544	0.86	71.03	7.80	6 280	8 667	12 304	16 071
Uruguay	3 419	0.34	77.05	6.60	44 067	66 759	13 200	19 594
Venezuela	30 851	1.46	74.64	7.50	450 739	553 325	16 298	18 198
Caribbean								
Antigua and Barbuda	91	1.02	75.83	–	2 068	1 892	24 504	21 028
Bahamas	383	1.37	75.07	13.60	8 196	8 779	23 960	23 264
Barbados	286	0.50	75.30	12.20	4 201	4 411 ⁻¹	15 206	15 574 ⁻¹
Cuba	11 259	-0.06	79.24	3.20	179 772	211 947 ⁻²	15 907	18 796 ⁻²
Dominica	72	0.47	76.60 ¹¹	–	648	745	9 151	10 343
Dominican Rep.	10 529	1.20	73.45	14.90	92 793	126 784	9 651	12 186
Grenada	106	0.38	72.74	–	1 175	1 233	11 347	11 645
Haiti	10 461	1.39	63.06	7.00	14 405	17 571	1 514	1 703
Jamaica	2 799	0.54	73.47	15.00	22 696	24 141	8 524	8 893
St Kitts and Nevis	55	1.10	71.34 ¹¹	–	1 062	1 159	21 036	21 396
St Lucia	184	0.72	74.79	–	1 705	1 912	10 021	10 488
St Vincent and the Grenadines	109	0.00	72.50	–	1 063	1 147	9 749	10 491
Trinidad and Tobago	1 344	0.23	69.93	5.80	37 038	40 833	28 272	30 446
European Union								
Austria	8 526	0.37	80.89	4.90	325 501	382 263	39 238	45 079
Belgium	11 144	0.36	80.39	8.40	389 125	464 923	36 621	41 575
Bulgaria	7 168	-0.76	74.47	12.90	97 975	114 292	12 985	15 732
Croatia	4 272	-0.41	77.13	17.70	83 945	90 861	18 924	21 351
Cyprus	1 153	1.04	79.80	15.80	22 334	24 494	28 488	28 224
Czech Rep.	10 740	0.36	78.28	6.90	274 806	305 101	26 683	29 018
Denmark	5 640	0.37	80.30	7.00	211 218	245 834	38 674	43 782
Estonia	1 284	-0.27	76.42	8.80	29 269	34 035	21 831	25 823
Finland	5 443	0.32	80.83	8.20	198 374	216 146	37 509	39 740
France	64 641	0.54	81.97	10.40	2 178 975	2 474 881	34 040	37 532
Germany	82 652	-0.09	81.04	5.30	3 022 124	3 539 320	36 736	43 884
Greece	11 128	0.00	80.63	27.30	324 007	283 041	29 025	25 667
Hungary	9 933	-0.22	75.27	10.20	193 771	230 867	19 270	23 334
Ireland	4 677	1.08	81.04	13.10	205 290	210 037	46 668	45 684
Italy	61 070	0.13	82.29	12.20	1 971 193	2 125 098	33 731	35 281
Latvia	2 041	-0.45	73.98	11.10	39 032	45 422	17 739	22 569
Lithuania	3 008	-0.29	74.16	11.80	61 649	75 284	19 079	25 454
Luxembourg	537	1.20	81.80	5.90	38 890	49 472	81 023	91 048
Malta	430	0.27	80.75	6.50	9 607	12 332	23 621	29 127
Netherlands	16 802	0.26	81.10	6.70	709 976	775 728	43 340	46 162
Poland	38 221	0.01	76.85	10.40	643 934	912 404	16 892	23 690
Portugal	10 610	-0.02	80.37	16.50	265 937	290 756	25 224	27 804
Romania	21 640	-0.27	74.46	7.30	275 071	379 134	13 172	18 974
Slovakia	5 454	0.07	76.26	14.20	115 184	143 437	21 431	26 497
Slovenia	2 076	0.17	80.28	10.20	55 863	59 448	27 681	28 859
Spain	47 066	0.30	82.43	26.60	1 483 742	1 542 768	32 807	33 094
Sweden	9 631	0.63	81.70	8.10	371 092	428 736	40 565	44 658
United Kingdom	63 489	0.56	80.96	7.50	2 294 882	2 452 672	37 423	38 259
South-East Europe								
Albania	3 185	0.38	77.54	16.00	22 748	28 774	7 659	9 931
Bosnia and Herzegovina	3 825	-0.12	76.28	28.40	30 167	36 515	7 798	9 536
Macedonia, FYR	2 108	0.06	75.19	29.00	19 422	24 468	9 264	11 612
Montenegro	622	0.03	74.76	19.80	7 689	8 781	12 446	14 132
Serbia	9 468	-0.44	75.14	22.20	77 164	93 276	10 454	13 020

	GDP growth (annual %)				GDP per economic sector (share of GDP)				Inflation, consumer prices (annual %)	Internet users per 100 inhabitants	Mobile phone subscriptions per 100 inhabitants	Human Development Index (rank)	Global Innovation Index (rank)
					Agriculture	Services	Industry	Manufacturing (subset of industry)					
	2007	2009	2011	2013	2013				2014	2013	2013	2013	2015
	2.01	-2.71	2.53	2.02	1.52 ³	70.79 ³	27.69 ³	10.68 ³	1.91	85.80	80.61	8	16
	1.77	-2.80	1.60	2.22	1.31 ⁻¹	77.71 ⁻¹	20.98 ⁻¹	12.96 ⁻¹	1.62	84.20	95.53	5	5
	8.00	0.05	8.55	2.93	6.98	64.56	28.46	15.27	-	59.90	162.53	49	72
	1.11	0.71	2.10	1.53	15.34	65.55	19.11	11.47	0.65 ⁻¹	31.70	52.61	84	-
	4.56	3.36	5.17	6.78	13.32	48.56	38.12	13.27	5.78	39.50	97.70	113	104
	6.10	-0.33	2.73	2.49	5.71	69.32	24.98	13.13	6.33	51.60	135.31	79	70
	5.16	-1.04	5.84	4.07	3.44	61.28	35.29	11.48	4.40	66.50	134.29	41	42
	6.90	1.65	6.59	4.68	6.12	56.67	37.21	12.31	2.88	51.70	104.08	98	67
	7.94	-1.02	4.51	3.50	5.64	69.16	25.20	16.06	4.53	45.96	145.97	68	51
	2.19	0.57	7.87	4.64	9.37	51.97	38.66	13.05	3.57	40.35	111.46	98	119
	3.84	-3.13	2.22	1.68	10.84	62.20	26.95	20.17	1.11	23.11	136.19	115	99
	6.30	0.53	4.16	3.69	11.31	59.68	29.01	20.24	3.42	19.70	140.39	125	101
	7.02	3.32	5.44	5.22	21.92	45.30	32.78	3.71	1.83 ⁻¹	33.00	69.41	121	86
	6.19	-2.43	3.84	2.56	13.39	59.32	27.29	18.81	6.13	17.80	95.92	129	113
	3.15	-4.70	4.04	1.07	3.48	61.71	34.81	17.76	4.02	43.46	85.84	71	57
	5.29	-2.76	5.69	4.61	16.92	52.21	30.87	19.33	6.02	15.50	111.98	132	130
	12.11	3.97	10.77	8.35	3.47 ⁻¹	74.41 ⁻¹	22.11 ⁻¹	5.75 ⁻¹	2.64	42.90	162.97	65	62
	5.42	-3.97	4.34	14.22	21.59	50.00	28.41	11.63	5.03	36.90	103.69	111	88
	8.52	1.05	6.45	5.79	7.31 ⁻⁶	51.58 ⁻⁶	41.11 ⁻⁶	18.01 ⁻⁶	3.23	39.20	98.08	82	71
	5.11	3.01	5.27	2.88	7.01	44.37	48.62	16.41	3.35	37.40	161.07	100	-
	6.54	2.35	7.34	4.40	9.96	64.65	25.40	12.61	8.88	58.10	154.62	50	68
	8.75	-3.20	4.18	1.34	5.79 ⁻³	42.05 ⁻³	52.16 ⁻³	13.92 ⁻³	40.64 ⁻¹	54.90	101.61	67	132
	9.50	-12.04	-1.79	-0.07	2.28	79.66	18.05	2.95	1.06 ⁻¹	63.40	127.09	61	-
	1.45	-4.18	1.06	0.67	1.98	79.74	18.28	4.32	1.18	72.00	76.05	51	-
	1.67	-4.14	0.76	0.01 ⁻¹	1.47 ⁻¹	82.86 ⁻¹	15.67 ⁻¹	6.94 ⁻¹	1.80 ⁻¹	75.00	108.10	59	37
	7.26	1.45	2.71	-	5.00 ⁻²	74.48 ⁻²	20.53 ⁻²	10.72 ⁻²	-	25.71	17.71	44	-
	6.05	-1.14	-0.08	-0.91	17.17	68.78	14.04	3.47	-0.05 ⁻¹	59.00	129.96	93	-
	8.47	0.94	2.93	4.58	6.32	66.75	26.93	15.92	3.00	45.90	88.43	102	89
	6.12	-6.61	0.76	2.42	5.61	79.19	15.20	3.65	-0.04 ⁻¹	35.00	125.59	79	-
	3.34	3.08	5.52	4.30	-	-	-	-	4.57	10.60	69.40	168	-
	1.40	-4.41	1.70	1.27	6.72 ⁻¹	72.46 ⁻¹	20.82 ⁻¹	9.22 ⁻¹	8.29	37.80	102.24	96	96
	2.83	-5.60	1.70	4.21	1.68	72.78	25.54	11.01	0.72 ⁻¹	80.00	142.09	73	-
	-0.47	0.65	1.24	-0.43	3.06	82.56	14.38	3.07	1.47 ⁻¹	35.20	116.31	97	-
	3.31	-2.10	-0.48	1.66	7.12	75.15	17.73	4.72	0.81 ⁻¹	52.00	114.63	91	-
	4.75	-4.39	-1.60	1.60	0.62	42.86	56.53	6.38	5.20 ⁻¹	63.80	144.94	64	80
	3.62	-3.80	3.07	0.23	1.44	70.34	28.22	18.50	1.61	80.62	156.23	21	18
	3.00	-2.62	1.64	0.27	0.83	76.67	22.50	14.22	0.34	82.17	110.90	21	25
	6.91	-5.01	1.98	1.07	5.47	66.60	27.94	-	-1.42	53.06	145.19	58	39
	5.15	-7.38	-0.28	-0.94	4.25	68.57	27.18	13.97	-0.21	66.75	114.51	47	40
	5.13	-1.67	0.40	-5.40	2.08 ⁻⁵	78.33 ⁻⁵	19.59 ⁻⁵	7.56 ⁻⁵	-1.35	65.45	96.36	32	34
	5.53	-4.84	1.96	-0.70	2.61	60.70	36.69	24.89	0.34	74.11	127.73	28	24
	0.82	-5.09	1.15	-0.49	1.36	75.78	22.85	13.73	0.56	94.63	127.12	10	10
	7.90	-14.74	8.28	1.63	3.59	67.46	28.95	15.86	-0.14	80.00	159.66	33	23
	5.18	-8.27	2.57	-1.21	2.68	70.45	26.87	16.62	1.04	91.51	171.57	24	6
	2.36	-2.94	2.08	0.29	1.69	78.49	19.82	11.34	0.51	81.92	98.50	20	21
	3.27	-5.64	3.59	0.11	0.86	68.43	30.71	22.22	0.91	83.96	120.92	6	12
	3.54	-4.39	-8.86	-3.32	3.80	82.41	13.79	8.48	-1.31	59.87	116.82	29	45
	0.51	-6.55	1.81	1.53	4.37	65.41	30.22	22.76	-0.24	72.64	116.43	43	35
	4.93	-6.37	2.77	0.17	1.56	74.34	24.10	19.44	0.20	78.25	102.76	11	8
	1.47	-5.48	0.59	-1.93	2.31	74.42	23.27	14.86	0.24	58.46	158.82	26	31
	9.98	-17.95	5.30	4.11	4.14 ⁻³	74.05 ⁻³	21.81 ⁻³	12.18 ⁻³	0.63	75.23	228.40	48	33
	9.84	-14.74	6.00	3.25	3.46 ⁻³	68.72 ⁻³	27.81 ⁻³	-	0.08	68.45	151.34	35	38
	6.46	-5.33	2.61	1.99	0.34	87.47	12.19	5.18	0.63	93.78	148.64	21	9
	4.28	-2.80	1.40	2.90	1.92 ⁻³	65.38 ⁻³	32.70 ⁻³	13.41 ⁻³	0.31	68.91	129.75	39	26
	4.20	-3.30	1.66	-0.73	1.97	75.88	22.16	12.11	0.99	93.96	113.73	4	4
	7.20	2.63	4.76	1.67	3.30	63.45	33.25	18.84	0.11	62.85	149.08	35	46
	2.49	-2.98	-1.83	-1.36	2.29	76.65	21.05	12.67	-0.28	62.10	113.04	41	30
	6.26	-6.80	2.31	3.50	6.35	50.40	43.25	-	1.07	49.76	105.58	54	54
	10.68	-5.29	2.70	1.42	4.04	62.73	33.23	20.24	-0.08	77.88	113.91	37	36
	6.94	-7.80	0.61	-1.00	2.14	65.85	32.02	22.32	0.20	72.68	110.21	25	28
	3.77	-3.57	-0.62	-1.23	2.77	73.89	23.34	-	-0.15	71.57	106.89	27	27
	3.40	-5.18	2.66	1.50	1.44	72.71	25.85	16.47	-0.18	94.78	124.40	12	3
	2.56	-4.31	1.65	1.73	0.65	79.16	20.19	9.70	1.46	89.84	124.61	14	2
	5.90	3.35	2.55	1.42	22.24	62.49	15.27	8.94	1.63	60.10	116.16	95	87
	6.84	-2.91	0.96	2.48	8.46	64.43	27.10	13.24	-0.93	67.90	91.10	86	79
	6.15	-0.92	2.80	3.10	10.45	63.38	26.17	11.63	-0.28	61.20	106.17	84	56
	10.66	-5.66	3.23	3.34	9.80	71.36	18.84	5.03	-0.71	56.80	159.95	51	41
	5.89	-3.12	1.40	2.60	8.99 ⁻¹	60.72 ⁻¹	30.29 ⁻¹	18.07 ⁻¹	2.08	51.50	119.39	77	63

Table S1: Socio-economic indicators, various years

	Population	Population	Life expectancy	Unemployment,	GDP in current prices		GDP per capita	
	(000's)	growth	at birth, total	total (% of total	(current PPP\$ – millions)		(current PPP\$)	
	2014	2014	2013	labour force)	2007	2013	2007	2013
Other Europe and West Asia								
Armenia	2 984	0.25	74.54	16.20	19 373	23 147	6 480	7 776
Azerbaijan	9 515	1.07	70.69	5.50	107 072	161 433	12 477	17 143
Belarus	9 308	-0.53	72.47	5.80	118 019	166 789	12 345	17 620
Georgia	4 323	-0.42	74.08	14.30	23 816	32 128	5 427	7 160
Iran, Islamic Rep. of	78 470	1.31	74.07	13.20	995 290	1 207 413	13 860	15 590
Israel	7 822	1.14	82.06	6.30	195 303	261 858	27 201	32 491
Moldova, Rep. of	3 461	-0.74	68.81	5.10	12 094	16 622	3 381	4 671
Russian Federation	142 468	-0.26	71.07	5.60	2 377 503	3 623 076	16 729	25 248
Turkey	75 837	1.20	75.18	10.00	975 733	1 407 448	14 040	18 783
Ukraine	44 941	-0.66	71.16	7.90	373 877	399 853	8 039	8 790
European Free Trade Assoc.								
Iceland	333	1.09	83.12	5.60	12 147	13 552	38 986	41 859
Liechtenstein	37 ²	0.99 ²	82.38	-	-	-	-	-
Norway	5 092	0.97	81.45	3.50	262 828	327 192	55 812	64 406
Switzerland	8 158	0.99	82.75	4.40	357 994	460 605	47 409	56 950
Sub-Saharan Africa								
Angola	22 137	3.05	51.87	6.80	107 683	166 108	6 079	7 736
Benin	10 600	2.64	59.29	1.00	13 255	18 487	1 522	1 791
Botswana	2 039	0.86	47.41	18.40	23 820	31 837	12 437	15 752
Burkina Faso	17 420	2.82	56.28	3.10	17 783	28 526	1 249	1 684
Burundi	10 483	3.10	54.10	6.90	5 593	7 843	672	772
Cabo Verde	504	0.95	74.87	7.00	2 582	3 201	5 338	6 416
Cameroon	22 819	2.51	55.04	4.00	46 126	62 982	2 415	2 830
Central African Rep.	4 709	1.99	50.14	7.60	3 061	2 787	745	604
Chad	13 211	2.96	51.16	7.00	17 680	26 787	1 653	2 089
Comoros	752	2.36	60.86	6.50	847	1 063	1 339	1 446
Congo	4 559	2.46	58.77	6.50	17 372	26 101	4 622	5 868
Congo, Dem. Rep. of	69 360	2.70	49.94	8.00	34 290	54 633	600	809
Côte d'Ivoire	20 805	2.38	50.76	4.00	47 874	65 224	2 667	3 210
Djibouti	886	1.52	61.79	-	1 805	2 618	2 260	2 999
Equatorial Guinea	778	2.74	53.11	8.00	22 192	25 563	34 696	33 768
Eritrea	6 536	3.16	62.75	7.20	6 118	7 572	1 174	1 196
Ethiopia	96 506	2.52	63.62	5.70	65 402	129 859	813	1 380
Gabon	1 711	2.34	63.44	19.60	23 436	32 204	16 192	19 264
Gambia	1 909	3.18	58.83	7.00	2 202	3 072	1 440	1 661
Ghana	26 442	2.05	61.10	4.60	57 529	103 413	2 554	3 992
Guinea	12 044	2.51	56.09	1.80	11 388	14 718	1 133	1 253
Guinea-Bissau	1 746	2.41	54.27	7.10	1 836	2 398	1 237	1 407
Kenya	45 546	2.65	61.68	9.20	85 923	123 968	2 276	2 795
Lesotho	2 098	1.10	49.33	24.70	3 604	5 344	1 843	2 576
Liberia	4 397	2.37	60.53	3.70	1 841	3 770	523	878
Madagascar	23 572	2.78	64.69	3.60	26 784	32 416	1 383	1 414
Malawi	16 829	2.81	55.23	7.60	8 287	12 763	604	780
Mali	15 768	3.00	55.01	8.20	18 892	25 123	1 485	1 642
Mauritius	1 249	0.38	74.46	8.30	16 243	22 296	13 103	17 714
Mozambique	26 473	2.44	50.17	8.30	17 459	28 548	787	1 105
Namibia	2 348	1.92	64.34	16.90	15 868	22 073	7 626	9 583
Niger	18 535	3.87	58.44	5.10	10 683	16 337	752	916
Nigeria	178 517	2.78	52.50	7.50	627 891	972 664	4 266	5 602
Rwanda	12 100	2.71	63.99	0.60	10 164	17 354	1 024	1 474
Sao Tome and Principe	198	2.50	66.26	-	388	573	2 378	2 971
Senegal	14 548	2.89	63.35	10.30	24 042	31 687	2 019	2 242
Seychelles	93	0.50	74.23	-	1 670	2 193	19 636	24 587
Sierra Leone	6 205	1.84	45.55	3.20	6 376	9 407	1 177	1 544
Somalia	10 806	2.91	55.02	6.90	-	-	-	-
South Africa	53 140	0.69	56.74	24.90	552 487	683 974	11 355	12 867
South Sudan	11 739	3.84	55.24	-	-	22 928	-	2 030
Swaziland	1 268	1.45	48.94	22.50	6 933	8 353	6 108	6 685
Tanzania	50 757	3.01	61.49	3.50	73 946	116 832	1 852	2 443
Togo	6 993	2.55	56.49	6.90	6 727	9 479	1 153	1 391
Uganda	38 845	3.31	59.19	3.80	39 569	62 918	1 288	1 674
Zambia	15 021	3.26	58.09	13.30	33 098	57 071	2 733	3 925
Zimbabwe	14 599	3.13	59.77	5.40	18 817	25 923	1 477	1 832
Arab States								
Algeria	39 929	1.82	71.01	9.80	406 365	522 262	11 578	13 320
Bahrain	1 344	0.89	76.67	7.40	42 068	58 417	40 750	43 851
Egypt	83 387	1.61	71.13	12.70	662 430	909 941	8 924	11 089
Iraq	34 769	2.93	69.47	16.00	302 127	499 627	10 512	14 951
Jordan	7 505	3.13	73.90	12.60	55 395	76 116	9 785	11 783
Kuwait	3 479	3.24	74.46	3.10	227 278	272 521 ⁻¹	88 957	83 840 ⁻¹
Lebanon	4 966	2.94	80.13	6.50	51 183	76 722	12 364	17 174
Libya	6 253	0.83	75.36	19.60	154 764	130 519	26 766	21 046

	GDP growth (annual %)				GDP per economic sector (share of GDP)				Inflation, consumer prices (annual %)	Internet users per 100 inhabitants	Mobile phone subscriptions per 100 inhabitants	Human Development Index (rank)	Global Innovation Index (rank)
					Agriculture	Services	Industry	Manufacturing (subset of industry)					
	2007	2009	2011	2013	2013								
13.75	-14.15	4.70	3.50	21.94	46.58	31.48	11.41	2.98	46.30	112.42	87	61	
25.05	9.41	0.07	5.80	5.66	32.27	62.07	4.52	2.42 ⁻¹	58.70	107.61	76	93	
8.60	0.20	5.54	0.89	9.11	48.65	42.24	26.84	18.12	54.17	118.79	53	53	
12.34	-3.78	7.20	3.32	9.41	66.57	24.02	13.40	3.07	43.10	115.03	79	73	
7.82	3.94	3.00	-5.80	10.22 ⁻⁶	45.31 ⁻⁶	44.47 ⁻⁶	10.55 ⁻⁶	17.24	31.40	84.25	75	106	
6.27	1.90	4.19	3.25	-	-	-	-	0.48	70.80	122.85	19	22	
3.00	-6.00	6.80	8.90	15.04	68.39	16.57	13.64	5.09	48.80	106.01	114	44	
8.54	-7.82	4.26	1.32	3.95	59.78	36.27	14.82	7.83	61.40	152.84	57	48	
4.67	-4.83	8.77	4.12	8.49	64.44	27.07	17.63	8.85	46.25	92.96	69	58	
7.90	-14.80	5.20	1.88	10.43	62.64	26.94	13.71	12.21	41.80	138.06	83	64	
9.72	-5.15	2.13	3.46	7.73 ⁻¹	67.81 ⁻¹	24.47 ⁻¹	13.48 ⁻¹	2.03	96.55	108.11	13	13	
3.33	-1.16	-	-	-	-	-	-	-	93.80	104.07	18	-	
2.65	-1.63	1.34	0.65	1.55	57.66	40.79	7.29	2.03	95.05	116.27	1	20	
4.14	-2.13	1.80	1.92	0.71	73.56	25.73	18.69	-0.01	86.70	136.78	3	1	
22.59	2.41	3.92	6.80	10.06	32.14	57.80	7.21	7.28	19.10	61.87	149	120	
4.63	2.66	3.26	5.64	36.52	49.46	14.01	8.17	-1.10	4.90	93.26	165	-	
8.68	-7.84	6.18	5.83	2.54	60.54	36.92	5.68	4.40	15.00	160.64	109	90	
4.11	2.87	6.63	6.65	22.87	47.76	29.38	6.42	-0.26	4.40	66.38	181	102	
4.79	3.47	4.19	4.59	39.83	42.44	17.73	9.46	4.38	1.30	24.96	180	136	
15.17	-1.27	3.97	0.54	8.10 ⁻¹	74.87 ⁻¹	17.03 ⁻¹	-	-0.24	37.50	100.11	123	103	
3.26	1.93	4.14	5.56	22.89	47.24	29.87	14.39	1.95 ⁻¹	6.40	70.39	152	110	
8.12	8.91	3.30	-36.00	54.32 ⁻¹	31.95 ⁻¹	13.73 ⁻¹	6.48 ⁻¹	1.50 ⁻¹	3.50	29.47	185	-	
3.27	4.22	0.08	3.97	51.50	33.09	15.41	2.70	0.15 ⁻¹	2.30	35.56	184	-	
0.80	1.95	2.60	3.50	37.08	50.40	12.52	7.02	2.30 ⁻¹	6.50	47.28	159	-	
-1.58	7.47	3.42	3.44	4.36	23.62	72.02	4.30	5.97 ⁻¹	6.60	104.77	140	-	
6.26	2.86	6.87	8.48	20.79	40.97	38.24	16.55	1.63 ⁻¹	2.20	41.82	186	-	
1.77	3.25	-4.39	8.70	22.28	55.45	22.27	12.75	0.46	2.60	95.45	171	116	
5.10	5.00	5.39	5.00	3.86 ⁻⁶	79.26 ⁻⁶	16.89 ⁻⁶	2.45 ⁻⁶	2.42 ⁻¹	9.50	27.97	170	-	
13.14	-8.07	5.00	-4.84	-	6.44	-	-	6.35 ⁻¹	16.40	67.47	144	-	
1.43	3.88	8.68	1.33	14.53 ⁻⁴	63.03 ⁻⁴	22.44 ⁻⁴	5.65 ⁻⁴	-	0.90	5.60	182	-	
11.46	8.80	11.18	10.49	45.03	43.02	11.95	4.04	7.39	1.90	27.25	173	127	
5.55	-2.90	7.10	5.89	4.02 ⁻¹	31.96 ⁻¹	64.02 ⁻¹	-	0.48 ⁻¹	9.20	214.75	112	-	
3.63	6.45	-4.33	4.80	-	-	-	-	5.95	14.00	99.98	172	112	
6.46	3.99	15.01	7.59	21.86	49.61	28.53	5.78	15.49	12.30	108.19	138	108	
1.76	-0.28	3.91	2.30	20.24	42.09	37.67	6.48	11.89 ⁻¹	1.60	63.32	179	139	
3.20	3.31	9.03	0.33	43.68	42.65	13.67	-	-1.02	3.10	74.09	177	-	
6.99	3.31	6.12	5.74	29.51	50.67	19.81	11.72	6.88	39.00	71.76	147	92	
4.73	3.36	2.84	5.49	8.30 ⁻¹	59.88 ⁻¹	31.82 ⁻¹	11.65 ⁻¹	5.34	5.00	86.30	162	118	
15.69	13.76	9.13	11.31	38.84 ⁻¹	44.75 ⁻¹	16.41 ⁻¹	3.32 ⁻¹	7.57 ⁻¹	4.60	59.40	175	-	
6.24	-4.01	1.45	2.41	26.37	57.48	16.15	-	6.08	2.20	36.91	155	125	
9.49	9.04	4.35	4.97	26.96	54.25	18.79	10.74	24.43	5.40	32.33	174	98	
4.30	4.46	2.73	2.15	42.26 ⁻¹	35.01 ⁻¹	22.73 ⁻¹	-	0.89	2.30	129.07	176	105	
5.90	3.00	3.90	3.20	3.22	72.49	24.29	17.04	3.22	39.00	123.24	63	49	
7.28	6.48	7.44	7.44	28.99	50.22	20.79	10.86	4.26 ⁻¹	5.40	48.00	178	95	
6.62	0.30	5.12	5.12	6.14	60.49	33.36	13.16	5.35	13.90	118.43	127	107	
3.15	-0.71	2.31	4.10	37.20	43.36	19.44	6.11	-0.92	1.70	39.29	187	134	
6.83	6.93	4.89	5.39	21.00	57.01	21.99	9.03	8.06	38.00	73.29	152	128	
7.61	6.27	7.85	4.68	33.39	51.73	14.88	5.20	1.27	8.70	56.80	151	94	
2.00	4.02	4.94	4.00	19.78 ⁻²	64.29 ⁻²	15.93 ⁻²	6.41 ⁻²	6.43	23.00	64.94	142	-	
4.94	2.42	2.07	2.80	17.52	58.44	24.03	13.56	-1.08	20.90	92.93	163	84	
10.06	-1.11	7.92	5.28	2.37	86.28	11.34	6.27	1.39	50.40	147.34	71	65	
8.04	3.15	5.77	5.52	59.47	32.57	7.96	2.04	7.33	1.70	65.66	183	-	
-	-	-	-	-	-	-	-	-	1.50	49.38	-	-	
5.36	-1.54	3.21	2.21	2.32	67.79	29.90	13.23	5.56	48.90	145.64	118	60	
-	5.04	-4.64	13.13	-	-	-	-	47.28 ⁻³	-	25.26	-	-	
3.50	1.25	-0.66	2.78	7.48 ⁻²	44.83 ⁻²	47.69 ⁻²	43.83 ⁻²	5.62 ⁻¹	24.70	71.47	148	123	
7.15	5.40	7.92	7.28	33.85	42.97	23.18	7.36	6.13	4.40	55.72	159	117	
2.29	3.51	4.88	5.12	30.76 ⁻²	53.70 ⁻²	15.54 ⁻²	8.09 ⁻²	0.01	4.50	62.53	166	140	
8.41	7.25	9.67	3.27	25.26	53.98	20.76	10.01	4.29	16.20	44.09	164	111	
8.35	9.22	6.34	6.71	9.64	56.50	33.85	8.18	7.81	15.40	71.50	141	124	
-3.65	5.98	11.91	4.48	12.00	56.90	31.10	12.82	1.63 ⁻¹	18.50	96.35	156	133	
3.40	1.60	2.80	2.80	10.54	41.85	47.61	-	2.92	16.50	100.79	93	126	
8.29	2.54	2.10	5.34	-	-	-	-	2.77	90.00	165.91	44	59	
7.09	4.67	1.76	2.10	14.51	46.32	39.17	15.65	10.20	49.56	121.51	110	100	
1.38	5.81	10.21	4.21	-	-	-	-	1.88 ⁻¹	9.20	96.10	120	-	
8.18	5.48	2.56	2.83	3.40	66.91	29.69	19.42	2.81	44.20	141.80	77	75	
5.99	-7.08	10.21	8.31 ⁻¹	0.35	26.34	73.31	6.77	2.53	75.46	190.29	46	77	
9.40	10.30	2.00	0.90	7.18	73.07	19.76	8.63	3.99 ⁻⁴	70.50	80.56	65	74	
6.00	2.10	-62.08	-10.88	1.87 ⁻⁵	19.94 ⁻⁵	78.20 ⁻⁵	4.49 ⁻⁵	2.61 ⁻¹	16.50	165.04	55	-	

Table S1: Socio-economic indicators, various years

	Population (000's)	Population growth (annual %)	Life expectancy at birth, total (years)	Unemployment, total (% of total labour force)	GDP in current prices (current PPP\$ – millions)		GDP per capita (current PPP\$)	
	2014	2014	2013	2013	2007	2013	2007	2013
Mauritania	3 984	2.40	61.51	31.00	8 523	11 836	2 560	3 043
Morocco	33 493	1.46	70.87	9.20	170 875	241 682	5 489	7 198
Oman	3 926	7.78	76.85	7.90	108 310	150 236 ¹	42 148	45 334 ⁻¹
Palestine	4 436	2.51	73.20	23.40	13 218	19 916 ⁻¹	3 782	4 921 ⁻¹
Qatar	2 268	4.47	78.61	0.50	138 537	296 517	120 210	136 727
Saudi Arabia	29 369	1.86	75.70	5.70	999 859	1 546 500	38 581	53 644
Sudan	38 764	2.08	62.04	15.20	129 873	128 053	3 096	3 373
Syrian Arab Rep.	21 987	0.40	74.72	10.80	–	–	–	–
Tunisia	11 117	1.09	73.65	13.30	92 335	121 107	9 030	11 124
United Arab Emirates	9 446	1.06	77.13	3.80	453 316	550 915 ⁻¹	78 194	59 845 ⁻¹
Yemen	24 969	2.27	63.09	17.40	86 896	96 636	4 102	3 959
Central Asia								
Kazakhstan	16 607	1.01	70.45	5.20	268 714	395 463	17 354	23 214
Kyrgyzstan	5 625	1.39	70.20	8.00	12 902	18 376	2 449	3 213
Mongolia	2 881	1.48	67.55	4.90	14 472	26 787	5 577	9 435
Tajikistan	8 409	2.42	67.37	10.70	12 714	20 620	1 788	2 512
Turkmenistan	5 307	1.27	65.46	10.60	35 860	73 383	7 381	14 004
Uzbekistan	29 325	1.34	68.23	10.70	88 095	156 295	3 279	5 168
South Asia								
Afghanistan	31 281	2.36	60.93	8.00	32 219	59 459	1 223	1 946
Bangladesh	158 513	1.22	70.69	4.30	297 842	461 644	2 034	2 948
Bhutan	766	1.53	68.30	2.10	3 525	5 583	5 189	7 405
India	1 267 402	1.21	66.46	3.60	4 156 058	6 783 778	3 586	5 418
Maldives	352	1.88	77.94	11.60	2 832	4 022	9 186	11 657
Nepal	28 121	1.16	68.40	2.70	43 493	62 400	1 676	2 245
Pakistan	185 133	1.63	66.59	5.10	647 797	838 164	3 952	4 602
Sri Lanka	21 446	0.81	74.24	4.20	124 345	199 466	6 205	9 738
South-East Asia								
Brunei Darussalam	423	1.29	78.57	3.80	26 973	29 987	70 714	71 777
Cambodia	15 408	1.79	71.75	0.30	30 059	46 027	2 187	3 041
China	1 393 784	0.59	75.35	4.60	8 796 899	16 161 655	6 675	11 907
China, Hong Kong SAR	7 260	0.77	83.83	3.30	299 425	382 490	43 293	53 216
China, Macao SAR	575	1.59	80.34	1.80	37 088	80 765	75 197	142 599
Indonesia	252 812	1.17	70.82	6.30	1 544 770	2 388 997	6 688	9 561
Japan	127 000	-0.11	83.33	4.00	4 264 207	4 612 630	33 314	36 223
Korea, DPR	25 027	0.53	69.81	4.60	–	–	–	–
Korea, Rep. of	49 512	0.50	81.46	3.10	1 354 518	1 660 385	27 872	33 062
Lao PDR	6 894	1.82	68.25	1.40	18 685	32 644	3 107	4 822
Malaysia	30 188	1.57	75.02	3.20	489 960	693 535	18 273	23 338
Myanmar	53 719	0.86	65.10	3.40	–	–	–	–
Philippines	100 096	1.72	68.71	7.10	435 875	643 088	4 904	6 536
Singapore	5 517	1.93	82.35	2.80	294 619	425 259	64 207	78 763
Thailand	67 223	0.32	74.37	0.70	743 320	964 518	11 249	14 394
Timor-Leste	1 152	1.71	67.52	4.40	1 266	2 386 ⁻¹	1 246	2 076 ⁻¹
Viet Nam	92 548	0.94	75.76	2.00	310 033	474 958	3 681	5 294
Oceania								
Australia	23 630	1.22	82.20	5.70	761 369	999 241	36 556	43 202
New Zealand	4 551	1.01	81.41	6.20	121 926	154 281	28 866	34 732
Cook Islands	16	0.27	–	–	–	–	–	–
Fiji	887	0.67	69.92	8.10	5 610	6 829	6 716	7 750
Kiribati	104	1.54	68.85	–	157	190	1 679	1 856
Marshall Islands	53	0.26	65.24 ¹³	–	170	205	3 255	3 901
Micronesia	104	0.34	68.96	–	323	352	3 073	3 395
Nauru	11	1.91	–	–	–	–	–	–
Niue	1	-2.12	–	–	–	–	–	–
Palau	21	0.63	69.13 ⁸	–	298	316	14 811	15 096
Papua New Guinea	7 476	2.09	62.43	2.10	11 472	19 349	1 793	2 643
Samoa	192	0.76	73.26	–	983	1 098	5 393	5 769
Solomon Islands	573	2.05	67.72	3.80	805	1 161	1 637	2 069
Tonga	106	0.43	72.64	–	454	559	4 438	5 304
Tuvalu	11	0.53	–	–	30	36	3 044	3 645
Vanuatu	258	2.17	71.69	–	587	756	2 670	2 991

Source:

Population: United Nations, Department of Economic and Social Affairs, Population Division, 2013; World Population Prospects: The 2012 Revision
Human Development Index (rank): Human Development Report 2014: Sustaining Human Progress: Reducing Vulnerabilities and Building Resilience,
Human Development Report Office (HDRO), United Nations Development Programme (UNDP)
Global Innovation Index (rank): Cornell University, INSEAD, and WIPO (2015): The Global Innovation Index 2015: Effective Innovation Policies for
Development, Fontainebleau, Ithaca, and Geneva. GDP related data and all the other data not specified under above sources: World Bank; World
Development Indicators, as of April 2015

	GDP growth (annual %)				GDP per economic sector (share of GDP)				Inflation, consumer prices (annual %)	Internet users per 100 inhabitants	Mobile phone subscriptions per 100 inhabitants	Human Development Index (rank)	Global Innovation Index (rank)
					Agriculture	Services	Industry	Manufacturing (subset of industry)					
	2007	2009	2011	2013	2013								
1.02	-1.22	3.99	6.72	15.46	43.02	41.53	4.14	4.13 ¹	6.20	102.53	161	-	
2.71	4.76	4.99	4.38	16.57	54.90	28.53	15.44	0.44	56.00	128.53	129	78	
4.45	6.11	0.88	5.76 ¹	1.27	31.39	67.34	10.67	1.01	66.45	154.65	56	69	
-1.77	20.94	7.89	-4.43	5.33 ¹	69.60 ¹	25.07 ¹	16.24 ¹	2.75 ⁵	46.60	73.74	107	-	
17.99	11.96	13.02	6.32	0.09	30.28	69.62	9.94	2.99	85.30	152.64	31	50	
5.99	1.83	8.57	3.95	1.84	37.59	60.57	10.09	2.67	60.50	184.20	34	43	
11.52	3.23	-3.29	-6.00	28.15	50.17	21.68	8.19	29.96 ¹	22.70	72.85	166	141	
5.70	-	-	-	17.94 ⁶	49.09 ⁶	32.97 ⁶	-	36.70 ²	26.20	56.13	118	-	
6.23	3.61	-0.51	2.52	8.61	61.41	29.98	16.97	4.94	43.80	115.60	90	76	
3.18	-5.24	4.89	5.20	0.66	40.33	59.02	8.53	2.34	88.00	171.87	40	47	
3.34	4.13	-15.09	4.16	10.15 ⁷	40.61 ⁷	49.25 ⁷	7.76 ⁷	10.97 ¹	20.00	69.01	154	137	
8.90	1.20	7.50	6.00	4.93	58.18	36.89	11.64	6.72	54.00	184.69	70	82	
8.54	2.89	5.96	10.53	17.73	55.59	26.67	15.59	7.53	23.40	121.45	125	109	
10.25	-1.27	17.51	11.74	16.47	50.26	33.27	7.17	13.02	17.70	124.18	103	66	
7.80	3.80	7.40	7.40	27.41	50.84	21.75	11.19	6.10	16.00	91.83	133	114	
11.06	6.10	14.70	10.20	14.55 ¹	37.01 ¹	48.44 ¹	-	-	9.60	116.89	103	-	
9.50	8.10	8.30	8.00	19.14	54.59	26.27	10.51	-	38.20	74.31	116	122	
13.74	21.02	6.11	1.93	23.97	54.84	21.19	12.10	4.62	5.90	70.66	169	-	
7.06	5.05	6.46	6.01	16.28	56.09	27.64	17.27	6.99	6.50	74.43	142	129	
17.93	6.66	7.89	2.04	17.08	38.27	44.65	8.98	8.21	29.90	72.20	136	121	
9.80	8.48	6.64	6.90	17.95	51.31	30.73	17.26	6.35	15.10	70.78	135	81	
10.56	-3.64	6.48	3.71	4.20 ¹	73.28 ¹	22.52 ¹	7.08 ¹	2.12	44.10	181.19	103	-	
3.41	4.53	3.42	3.78	35.10	49.19	15.71	6.59	8.37	13.30	76.85	145	135	
4.83	2.83	2.75	4.41	25.11	53.81	21.08	14.01	7.19	10.90	70.13	146	131	
6.80	3.54	8.25	7.25	10.76	56.78	32.46	17.71	3.28	21.90	95.50	73	85	
0.15	-1.76	3.43	-1.75	0.73	31.03	68.24	12.35	-0.19	64.50	112.21	30	-	
10.21	0.09	7.07	7.41	33.52	40.83	25.65	16.44	3.86	6.00	133.89	136	91	
14.16	9.21	9.30	7.67	10.01	46.09	43.89	31.83	1.99	45.80	88.71	91	29	
6.46	-2.46	4.79	2.93	0.06	92.74	7.20	1.46	4.43	74.20	237.35	15	11	
14.33	1.71	21.29	11.89	0.00 ¹	93.76 ¹	6.24 ¹	0.71 ¹	6.04	65.80	304.08	-	-	
6.35	4.63	6.49	5.78	14.43	39.87	45.69	23.70	6.39	15.82	125.36	108	97	
2.19	-5.53	-0.45	1.61	1.22 ¹	73.18 ¹	25.60 ¹	18.17 ¹	2.74	86.25	117.63	17	19	
-	-	-	-	-	-	-	-	-	0.00 ¹	9.72	-	-	
5.46	0.71	3.68	2.97	2.34	59.11	38.55	31.10	1.27	84.77	111.00	15	14	
7.60	7.50	8.04	8.52	26.51	40.43	33.06	8.25	6.36 ¹	12.50	68.14	139	-	
6.30	-1.51	5.19	4.73	9.31	50.18	40.51	23.92	3.14	66.97	144.69	62	32	
13.64 ³	-	-	-	48.35 ⁹	35.44 ⁹	16.21 ⁹	11.57 ⁹	5.52 ¹	1.20	12.83	150	138	
6.62	1.15	3.66	7.18	11.23	57.65	31.12	20.40	4.13	37.00	104.50	117	83	
9.11	-0.60	6.06	3.85	0.03	74.86	25.11	18.76	1.04	73.00	155.92	9	7	
5.04	-2.33	0.08	1.77	11.98	45.47	42.55	32.94	1.90	28.94	140.05	89	55	
11.45	12.96	14.67	7.84 ¹	18.42 ¹	61.83 ¹	19.75 ¹	0.86 ¹	0.44	1.10	57.38	128	-	
7.13	5.40	6.24	5.42	18.38	43.31	38.31	17.49	4.09	43.90	130.89	121	52	
3.76	1.73	2.32	2.51	2.45	70.73	26.82	7.13	2.49	83.00	106.84	2	17	
3.54	2.21	2.33	2.50	7.18 ³	69.07 ³	23.75 ³	12.18 ³	0.84	82.78	105.78	7	15	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-0.85	-1.39	2.71	3.47	12.22	67.63	20.15	14.50	0.54	37.10	105.60	88	115	
7.52	-0.67	2.74	2.97	25.28 ³	66.51 ³	8.21 ³	5.55 ³	-	11.50	16.61	133	-	
3.77	-1.66	0.02	2.99	-	-	-	-	-	11.70	1.27 ⁸	-	-	
-2.06	0.96	2.05	-4.00	28.21 ²	62.65 ²	9.22 ²	0.49 ²	-	27.80	30.32	124	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	
1.85	-10.75	5.33	-0.33	5.33	86.42	8.25	1.11	-	26.97 ⁹	85.79	60	-	
7.15	6.14	10.67	5.54	37.80 ⁹	23.33 ⁹	38.87 ⁹	7.05 ⁹	4.96 ¹	6.50	40.98	157	-	
6.32	-4.81	5.15	-1.14	-	-	-	-	-0.41	15.30	47.19 ⁶	106	-	
7.32	-4.73	10.70	2.95	35.65 ⁷	57.59 ⁷	6.75 ⁷	4.85 ⁷	5.39 ¹	8.00	57.57	157	-	
-4.14	3.24	2.88	0.50	19.17 ¹	59.34 ¹	21.49 ¹	6.43 ¹	2.51	35.00	54.59	100	-	
6.35	-4.43	8.45	1.30	22.16	69.11	8.73	-	-	37.00	34.43	-	-	
5.18	3.31	1.21	1.97	27.98	63.22	8.80	3.61	0.80	11.30	50.34	131	-	

Abbreviations:

GDP: gross domestic product

PPP\$: purchasing power parity dollars

NB: See Key To All Tables at the end of Table S10.

Table S2: R&D expenditure by sector of performance and source of funds, 2009 and 2013 (%)

	R&D expenditure by sector of performance (%)									
	2009					2013				
	Business enterprise	Government	Higher education	Private non-profit	Not elsewhere classified	Business enterprise	Government	Higher education	Private non-profit	Not elsewhere classified
North America										
Canada	53.23	10.45	35.91	0.41	-	50.52	9.15 ^v	39.80 ^v	0.52	-
United States of America	69.55 ^o	11.93	14.03 ^o	4.48 ^{o,r}	-	69.83 ^{-1,o,v}	12.31 ^{-1,v}	13.83 ^{-1,o,v}	4.03 ^{-1,o,r}	- ⁻¹
Latin America										
Argentina	22.26	44.73	31.32	1.69	-	21.47 ⁻¹	45.59 ⁻¹	31.17 ⁻¹	1.76 ⁻¹	- ⁻¹
Belize	-	-	-	-	-	-	-	-	-	-
Bolivia	25.00 ⁷	21.00 ⁷	41.00 ⁷	13.00 ⁷	- ⁷	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Chile	29.32	3.34	39.81	27.53	-	34.43 ⁻¹	4.08 ⁻¹	34.27 ⁻¹	27.23 ⁻¹	- ⁻¹
Colombia	19.77	4.62	49.83	25.79	-	23.12	7.57	42.32	26.99	-
Costa Rica	25.71	23.49	48.99	1.82	-	15.85 ⁻²	36.59 ⁻²	45.23 ⁻²	2.32 ⁻²	0.02 ⁻²
Ecuador	40.85	42.04	12.97	4.14	-	58.12 ⁻²	24.52 ⁻²	14.19 ⁻²	3.17 ⁻²	- ⁻²
El Salvador	-	-	100.00	-	-	- ⁻¹	- ⁻¹	100.00 ⁻¹	- ⁻¹	- ⁻¹
Guatemala	2.00 ^q	11.16 ^q	84.67 ^q	2.17 ^q	-	0.17 ^{-1,q}	16.54 ^{-1,q}	82.32 ^{-1,q}	0.96 ^{-1,q}	- ⁻¹
Guyana	-	-	-	-	-	-	-	-	-	-
Honduras	-	-	-	-	-	-	-	-	-	-
Mexico	41.07	26.81	29.21	2.91	-	37.97	31.39	29.10	1.55	-
Nicaragua	-	-	-	-	-	-	-	-	-	-
Panama	1.75	51.71	2.44	44.08	0.01	2.00 ⁻²	64.30 ⁻²	2.46 ⁻²	31.30 ⁻²	- ⁻²
Paraguay	- ⁻¹	28.32 ⁻¹	59.86 ⁻¹	11.82 ⁻¹	0.00 ⁻¹	- ⁻¹	31.62 ⁻¹	59.92 ⁻¹	8.46 ⁻¹	- ⁻¹
Peru	29.17 ⁻⁵	25.63 ⁻⁵	38.11 ⁻⁵	7.08 ⁻⁵	0.00 ⁻⁵	-	-	-	-	-
Suriname	-	-	-	-	-	-	-	-	-	-
Uruguay	34.44	27.12	34.60	2.73	1.11	17.99 ⁻¹	34.01 ⁻¹	43.44 ⁻¹	4.56 ⁻¹	- ⁻¹
Venezuela	-	-	-	-	-	-	-	-	-	-
Caribbean										
Antigua and Barbuda	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Barbados	-	-	-	-	-	-	-	-	-	-
Cuba	-	-	-	-	-	-	-	-	-	-
Dominica	-	-	-	-	-	-	-	-	-	-
Dominican Rep.	-	-	-	-	-	-	-	-	-	-
Grenada	-	-	-	-	-	-	-	-	-	-
Haiti	-	-	-	-	-	-	-	-	-	-
Jamaica	-	-	-	-	-	-	-	-	-	-
St Kitts and Nevis	-	-	-	-	-	-	-	-	-	-
St Lucia	-	-	-	-	-	-	-	-	-	-
St Vincent and the Grenadines	86.67 ⁻⁷	13.33 ⁻⁷	- ⁻⁷	- ⁻⁷	- ⁻⁷	-	-	-	-	-
Trinidad and Tobago	2.18	61.27	36.54	-	-	- ⁻¹	63.29 ⁻¹	36.69 ⁻¹	- ⁻¹	0.01 ⁻¹
European Union										
Austria	68.09	5.34	26.10	0.48	-	68.78 ^{iv}	5.14 ^{iv}	25.59 ^{iv}	0.49 ^{iv}	-
Belgium	66.26	8.94	23.79	1.00	-	69.10 ^v	8.80 ^v	21.68 ^v	0.43 ^v	-
Bulgaria	29.96	55.24	14.04	0.76	-	61.08	29.67	8.65	0.60	-
Croatia	40.42	27.16	32.31	0.12	-	50.10	25.53	24.36	-	-
Cyprus	19.80	20.42	46.12	13.66	-	15.45 ^v	14.40 ^v	57.26 ^v	12.89 ^v	-
Czech Rep.	56.50	23.26	19.70	0.54	-	54.12	18.31	27.23	0.34	-
Denmark	69.78	2.07	27.72	0.42	-	65.43 ^{iv}	2.39 ^{iv}	31.77 ^{iv}	0.40 ^{iv}	-
Estonia	44.69	10.99	42.16	2.17	-	47.72	8.93	42.30	1.06	-
Finland	71.42	9.10	18.90	0.58	-	68.86	8.92	21.52	0.71	-
France	61.69	16.31	20.80	1.20	-	64.75 ^v	13.15 ^{sv}	20.75 ^v	1.35 ^v	-
Germany	67.56	14.82 ^c	17.62	- ^g	-	66.91 ^{iv}	15.09 ^{c,iv}	18.00 ^{iv}	- ^g	-
Greece	28.59 ⁻²	20.92 ^{-2,r}	49.23 ^{-2,r}	1.26 ^{-2,r}	- ⁻²	33.34 ^s	27.98 ^s	37.43 ^s	1.25	-
Hungary	57.24 ⁱ	20.06 ⁱ	20.94 ⁱ	-	-	69.43 ^t	14.89 ^t	14.39 ^t	-	-
Ireland	68.30	5.05	26.65 ⁱ	-	-	72.03 ^{-1,r}	4.85 ⁻¹	23.12 ^{-1,r}	- ⁻¹	- ⁻¹
Italy	53.30	13.14	30.26	3.30	-	53.98 ^v	14.92 ^v	28.21 ^v	2.88 ^v	-
Latvia	36.39	24.71	38.90	-	-	28.24	28.89	42.87	-	-
Lithuania	24.39	23.41	52.20	-	-	25.46	19.83	54.71	-	-
Luxembourg	75.89	16.10	8.01	-	-	61.38 ^{sv}	23.30 ^{iv}	15.32 ^{iv}	-	-
Malta	63.36	4.73	31.91	-	-	54.26	10.18 ^v	35.56 ^v	-	-
Netherlands	47.08	12.75 ^c	40.17	- ^g	-	57.54 ^{sv}	10.68 ^{c,v}	31.78 ^v	- ^g	-
Poland	28.50	34.31	37.07	0.13	-	43.62	26.83	29.26	0.29	-
Portugal	47.30	7.31	36.58	8.81	-	47.57 ^v	5.79 ^v	37.84 ^v	8.80 ^v	-
Romania	40.18	34.91	24.74	0.17	-	30.66 ^s	49.23 ^s	19.72 ^s	0.40 ^s	-
Slovakia	41.05	33.89 ^p	25.01	0.05	-	46.26	20.48 ^p	33.10	0.15	-
Slovenia	64.61	20.76	14.56	0.07	-	76.53 ^s	13.01 ^s	10.42 ^s	0.04 ^s	-
Spain	51.90	20.07	27.83	0.20	-	53.08	18.72	28.03	0.17	-
Sweden	70.64	4.42	24.87	0.07 ^q	-	68.95	3.68 ^q	27.14	0.22 ^s	-
United Kingdom	60.41	9.16	27.95	2.48 ^r	-	64.51 ^{iv}	7.31 ^{iv}	26.30 ^{iv}	1.88 ^{iv}	-
South-East Europe										
Albania	0.00 ⁻¹	52.10 ^{-1,q}	47.90 ^{-1,q}	0.00 ⁻¹	- ⁻¹	-	-	-	-	-
Bosnia and Herzegovina	- ⁻²	12.60 ^{-2,q}	68.75 ^{-2,q}	1.06 ^{-2,q}	17.59 ^{-2,q}	58.42 ^s	5.81 ^s	35.64 ^s	0.12 ^s	-
Macedonia, FYR	21.14	46.41	32.45	-	-	11.50 ⁻³	43.78 ⁻³	44.72 ⁻³	- ⁻³	- ⁻³
Montenegro	5.15 ⁻²	14.87 ⁻²	79.98 ⁻²	0.00 ⁻²	- ⁻²	49.31 ^s	16.00 ^s	32.02 ^s	2.68 ^s	- ⁻⁵
Serbia	14.32	30.87	54.78	0.03	-	13.27	33.36	53.34	0.03	-

R&D expenditure by source of funds (%)													
2009						2013							
Business enterprise	Government	Higher education	Private non-profit	Abroad	Not elsewhere classified	Business enterprise	Government	Higher education	Private non-profit	Abroad	Not elsewhere classified		
North America													
48.52	34.56 ^r	6.73 ^r	3.13	7.07	-	46.45 ^v	34.86 ^{iv}	8.85 ^{iv}	3.88 ^v	5.95 ^v	-	Canada	
60.90 ^o	32.65 ^o	2.94 ^o	3.51 ^o	- ⁹	-	59.13 ^{-1,ov}	30.79 ^{-1,ov}	2.98 ^{-1,ov}	3.30 ^{-1,ov}	3.80 ^{-1g}	- ¹	United States of America	
Latin America													
21.44	73.18	3.84	0.87	0.67	0.00	21.34 ⁻¹	74.01 ⁻¹	3.11 ⁻¹	0.96 ⁻¹	0.58 ⁻¹	- ¹	Argentina	
-	-	-	-	-	-	-	-	-	-	-	-	Belize	
5.20	51.19	26.55	2.05	1.86	13.15	-	-	-	-	-	-	Bolivia	
45.54	52.29	2.16	-	-	-	43.07 ⁻¹	54.93 ⁻¹	2.00 ⁻¹	- ⁻¹	- ⁻¹	- ⁻¹	Brazil	
26.96	38.32	13.96	1.70	19.05	-	34.95 ⁻¹	35.96 ⁻¹	9.42 ⁻¹	2.13 ⁻¹	17.54 ⁻¹	- ⁻¹	Chile	
18.68	56.12	16.70	5.10	3.40	-	29.02	45.77	14.83	8.00	2.38	-	Colombia	
28.73	53.04	-	2.82	1.66	13.74	18.85 ⁻²	61.98 ⁻²	- ⁻²	0.74 ⁻²	6.54 ⁻²	11.89 ⁻²	Costa Rica	
0.19 ^h	41.21 ^h	7.45 ^h	0.51 ^h	9.80 ^h	40.84 ^h	0.42 ^{-2,h}	28.45 ^{-2,h}	8.09 ^{-2,h}	0.47 ^{-2,h}	4.46 ^{-2,h}	58.12 ^{-2,h}	Ecuador	
23.13	64.58	0.63	0.12	11.25	0.30	2.75 ⁻¹	11.73 ⁻¹	74.33 ⁻¹	2.63 ⁻¹	9.15 ⁻¹	- ⁻¹	El Salvador	
-	22.78 ^q	29.48 ^q	-	47.74 ^q	-	- ⁻¹	23.51 ^{-1q}	27.48 ^{-1q}	- ⁻¹	49.01 ^{-1q}	- ⁻¹	Guatemala	
-	-	-	-	-	-	-	-	-	-	-	-	Guyana	
-	-	-	-	-	-	-	-	-	-	-	-	Honduras	
39.06	53.17	5.75	0.27	1.75	-	31.65	65.50	1.52	0.67	0.66	-	Mexico	
-	-	-	-	-	-	-	-	-	-	-	-	Nicaragua	
3.61	50.00	4.99	16.43	24.95	0.01	18.86 ⁻²	46.73 ⁻²	5.00 ⁻²	8.66 ⁻²	20.73 ⁻²	0.02 ⁻²	Panama	
0.25 ⁻¹	76.20 ⁻¹	9.20 ⁻¹	2.10 ⁻¹	12.25 ⁻¹	- ⁻¹	0.85 ⁻¹	82.55 ⁻¹	3.71 ⁻¹	2.86 ⁻¹	7.71 ⁻¹	2.32 ⁻¹	Paraguay	
-	-	-	-	-	-	-	-	-	-	-	-	Peru	
-	-	-	-	-	-	-	-	-	-	-	-	Suriname	
38.86	32.99	24.62	0.59	1.83	1.11	15.03 ⁻¹	32.97 ⁻¹	43.43 ⁻¹	0.92 ⁻¹	7.65 ⁻¹	- ⁻¹	Uruguay	
-	-	-	-	-	-	-	-	-	-	-	-	Venezuela	
Caribbean													
-	-	-	-	-	-	-	-	-	-	-	-	Antigua and Barbuda	
-	-	-	-	-	-	-	-	-	-	-	-	Bahamas	
-	-	-	-	-	-	-	-	-	-	-	-	Barbados	
15.01	75.01	-	-	9.98	-	19.99	69.99	-	-	10.02	-	Cuba	
-	-	-	-	-	-	-	-	-	-	-	-	Dominica	
-	-	-	-	-	-	-	-	-	-	-	-	Dominican Rep.	
-	-	-	-	-	-	-	-	-	-	-	-	Grenada	
-	-	-	-	-	-	-	-	-	-	-	-	Haiti	
-	-	-	-	-	-	-	-	-	-	-	-	Jamaica	
-	-	-	-	-	-	-	-	-	-	-	-	St Kitts and Nevis	
-	-	-	-	-	-	-	-	-	-	-	-	St Lucia	
-	-	-	-	-	-	-	-	-	-	-	-	St Vincent and the Grenadines	
-	-	-	-	-	-	-	-	-	-	-	-	Trinidad and Tobago	
European Union													
47.06	34.91	0.67	0.56	16.79	-	44.12 ^{iv}	39.07 ^{iv}	- ⁹	0.46 ^{iv}	16.36 ^{iv}	-	Austria	
58.62	25.31	3.21	0.75	12.11	-	60.15 ⁻²	23.42 ⁻²	2.87 ⁻²	0.60 ⁻²	12.96 ⁻²	- ⁻²	Belgium	
30.23	60.47	0.74	0.18	8.38	-	19.51	31.62	0.13	0.46	48.27	-	Bulgaria	
39.79	51.19	1.95	0.12	6.96	-	42.79	39.74	1.68	0.31	15.50	-	Croatia	
15.73	69.00	2.76	0.45	12.06	-	10.86 ⁻¹	66.38 ⁻¹	4.59 ⁻¹	0.69 ⁻¹	17.48 ⁻¹	- ⁻¹	Cyprus	
39.76	47.77	1.18	0.02	11.28	-	37.60	34.74	0.45	0.06	27.15	-	Czech Rep.	
62.14	26.14	- ⁹	3.12	8.61	-	59.78 ^{iv}	29.27 ^{iv}	- ⁹	3.78 ^{iv}	7.18 ^{iv}	-	Denmark	
38.49	48.82	0.69	0.68	11.33	-	42.05	47.22	0.27	0.11	10.34	-	Estonia	
68.10	24.00	0.14	1.15	6.61	-	60.84	26.03 ^s	0.23	1.36	11.54	-	Finland	
52.27	38.71	1.20	0.79	7.03	-	55.38 ^{-1s}	34.97 ^{-1s}	1.22 ^{-1s}	0.82 ^{-1s}	7.62 ^{-1s}	- ⁻¹	France	
66.13	29.77	-	0.26	3.85	-	66.07 ⁻¹	29.21 ⁻¹	- ⁻¹	0.39 ⁻¹	4.32 ⁻¹	- ⁻¹	Germany	
33.48 ^r	54.75 ^r	2.12 ^r	0.94 ^r	8.71 ^r	-	30.28	52.27	2.60	0.86	13.98	-	Greece	
46.43	41.98	-	0.69	10.90	-	46.80	35.88	-	0.75	16.57	-	Hungary	
52.09 ^r	29.80 ^r	1.11 ^r	0.50 ^r	16.51 ^r	-	50.34 ^{-1r}	27.26 ^{-1r}	0.64 ^{-1r}	0.41 ^{-1r}	21.36 ^{-1r}	- ⁻¹	Ireland	
44.16	42.15	1.26	3.01	9.42	-	44.29 ⁻¹	42.55 ⁻¹	0.94 ⁻¹	2.78 ⁻¹	9.45 ⁻¹	- ⁻¹	Italy	
36.90	44.74	3.00	-	15.36	-	21.79	23.94	2.65	-	51.61	-	Latvia	
30.81	52.68	3.21	0.29	13.01	-	27.47	34.54	0.13	0.75	37.11	-	Lithuania	
70.27	24.26	0.04	0.07	5.37	-	47.81 ⁻²	30.52 ⁻²	0.06 ⁻²	1.20 ⁻²	20.41 ⁻²	- ⁻²	Luxembourg	
51.57	30.01	0.00	0.05	18.37	-	44.35 ^v	33.86 ^v	1.29 ^v	0.18 ^v	20.33 ^v	-	Malta	
45.15	40.89	0.29	2.82	10.85	-	47.10 ^{sv}	34.33 ^{sv}	0.39 ^{sv}	3.91 ^{sv}	14.27 ^{sv}	-	Netherlands	
27.10	60.44	6.70	0.26	5.50	-	37.33	47.24	2.13	0.18	13.12	-	Poland	
43.87	45.46	2.85	3.73	4.09	-	46.04 ⁻¹	43.13 ⁻¹	3.58 ⁻¹	2.08 ⁻¹	5.17 ⁻¹	- ⁻¹	Portugal	
34.75	54.92	1.91	0.08	8.34	-	31.02 ^s	52.29 ^s	1.15 ^s	0.05 ^s	15.50 ^s	-	Romania	
35.11	50.56 ^q	0.59	0.96	12.78	-	40.19	38.90 ^q	2.74	0.20	17.97	-	Slovakia	
57.98	35.66	0.29	0.03	6.04	-	63.85 ^s	26.87 ^s	0.35 ^s	0.02 ^s	8.91 ^s	-	Slovenia	
43.36	47.10	3.45	0.63	5.46	-	46.30	41.63	4.08	0.63	7.36	-	Spain	
59.14	27.26	0.63	2.58	10.39	-	60.95 ^q	28.20 ^q	0.99 ^q	3.05 ^q	6.80 ^q	-	Sweden	
44.54 ^r	32.55	1.28 ^r	4.99 ^r	16.64 ^r	-	46.55 ^{iv}	26.99 ^{iv}	1.09 ^{iv}	4.73 ^{iv}	20.65 ^{iv}	-	United Kingdom	
South-East Europe													
3.26 ^{-1q}	80.80 ^{-1q}	8.57 ^{-1q}	0.00 ⁻¹	7.37 ^{-1q}	- ⁻¹	-	-	-	-	-	-	Albania	
-	-	-	-	-	-	1.83	25.35	0.00	0.00	53.90	18.92	Bosnia and Herzegovina	
7.79 ^{-7r}	76.31 ^{-7r}	7.33 ^{-7r}	0.02 ^{-7r}	8.55 ^{-7r}	- ⁻⁷	-	-	-	-	-	-	Macedonia, FYR	
-	-	-	-	-	-	42.32	31.66	3.50	0.02	22.52	-	Montenegro	
8.33	62.87	20.86	0.76	7.18	-	7.53	59.51	25.12	0.03	7.81	-	Serbia	

Table S2: R&D expenditure by sector of performance and source of funds, 2009 and 2013 (%)

	R&D expenditure by sector of performance (%)									
	2009					2013				
	Business enterprise	Government	Higher education	Private non-profit	Not elsewhere classified	Business enterprise	Government	Higher education	Private non-profit	Not elsewhere classified
Other Europe and West Asia										
Armenia	–	89.65 ^a	10.35 ^a	–	–	–	88.63 ^a	11.37 ^a	–	–
Azerbaijan	22.00	71.73	6.27	0.00	–	10.33	85.49	4.02	0.16	–
Belarus	56.39	29.96	13.62	0.03	–	65.32	23.82	10.84	0.02	–
Georgia	– ⁴	73.18 ⁴	26.82 ⁴	– ⁴	– ⁴	–	72.31 ^{5u}	27.69 ^{5u}	–	–
Iran, Islamic Rep. of	10.61 ¹	56.07 ¹	33.32 ¹	– ¹	– ¹	–	–	–	–	–
Israel	83.53 ^p	1.85 ^p	13.32 ^p	1.30 ^p	–	82.74 ^p	2.13 ^p	14.07 ^p	1.05 ^p	–
Moldova, Rep. of	11.30	77.08	11.62	–	–	19.86	69.78	10.37	–	–
Russian Federation	62.38	30.26	7.13	0.23	–	60.60	30.26	9.01	0.13	–
Turkey	40.00	12.57	47.43	–	–	47.49	10.42	42.09	–	–
Ukraine	54.77	38.68	6.54	0.00	–	55.26	38.58	6.17	–	–
European Free Trade Assoc.										
Iceland	50.32	22.09	25.13	2.46	–	53.14 ²	17.74 ^{2s}	26.37 ²	2.75 ^{2s}	– ²
Liechtenstein	–	–	–	–	–	–	–	–	–	–
Norway	51.57	16.38	32.04	–	–	52.54	15.97	31.50	–	–
Switzerland	73.50 ¹	0.74 ¹	24.17 ¹	1.60 ¹	– ¹	69.26 ¹	0.76 ¹	28.15 ¹	1.84 ¹	– ¹
Sub-Saharan Africa										
Angola	–	–	–	–	–	–	–	–	–	–
Benin	–	–	–	–	–	–	–	–	–	–
Botswana	15.57 ⁴	79.40 ⁴	1.21 ⁴	3.83 ⁴	– ⁴	10.71 ^{1s}	41.63 ^{1s}	22.95 ^{1s}	24.71 ^{1s}	– ¹
Burkina Faso	– ²	72.22 ²	– ²	21.12 ²	6.67 ²	–	–	–	–	–
Burundi	– ¹	92.83 ^{1q}	6.96 ^{1q}	0.21 ^{1q}	– ¹	– ³	87.15 ^{3q}	4.81 ^{3q}	8.04 ^{3q}	– ³
Cabo Verde	–	–	–	–	–	– ²	– ²	100.00 ²	– ²	– ²
Cameroon	–	–	–	–	–	–	–	–	–	–
Central African Rep.	–	–	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–	–
Comoros	–	–	–	–	–	–	–	–	–	–
Congo	–	–	–	–	–	–	–	–	–	–
Congo, Dem. Rep. of	–	100.00	–	–	–	–	–	–	–	–
Côte d'Ivoire	–	–	–	–	–	–	–	–	–	–
Djibouti	–	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–	–
Eritrea	–	–	–	–	–	–	–	–	–	–
Ethiopia	– ²	84.41 ²	14.60 ²	0.99 ²	– ²	1.17	24.49	74.10	0.23	–
Gabon	–	–	–	–	–	–	–	–	–	–
Gambia	–	–	–	–	–	– ²	54.44 ^{2b}	– ²	45.56 ^{2b}	– ²
Ghana	4.94 ²	92.76 ²	2.30 ²	– ²	– ²	0.15 ^{3s}	96.05 ^{3s}	3.80 ³	0.01 ³	– ³
Guinea	–	–	–	–	–	–	–	–	–	–
Guinea-Bissau	–	–	–	–	–	–	–	–	–	–
Kenya	11.68 ²	35.36 ²	29.84 ²	23.12 ²	– ²	8.66 ^{3s}	40.64 ^{3s}	39.05 ^{3s}	11.65 ^{3s}	– ³
Lesotho	–	7.67 ^a	92.33 ^a	–	–	– ²	– ²	100.00 ^{2q}	– ²	– ²
Liberia	–	–	–	–	–	–	–	–	–	–
Madagascar	–	34.50	65.50	–	–	– ²	56.39 ^{2s}	43.61 ^{2s}	– ²	– ²
Malawi	–	–	–	–	–	–	–	–	–	–
Mali	2.97 ^{2q}	– ²	97.03 ^{2q}	– ²	– ²	– ³	82.58 ³	17.42 ³	– ³	– ³
Mauritius	–	–	–	–	–	– ¹	73.36 ¹	24.76 ¹	1.86 ¹	– ¹
Mozambique	– ¹	95.45 ¹	– ¹	4.55 ¹	– ¹	– ³	54.88 ³	35.99 ³	9.13 ³	– ³
Namibia	–	–	–	–	–	12.82 ³	– ³	87.18 ³	– ³	– ³
Niger	–	–	–	–	–	–	–	–	–	–
Nigeria	– ²	35.19 ²	64.81 ²	– ²	– ²	–	–	–	–	–
Rwanda	–	–	–	–	–	–	–	–	–	–
Sao Tome and Principe	–	–	–	–	–	–	–	–	–	–
Senegal	0.86 ¹	33.48 ¹	40.66 ¹	25.00 ¹	– ¹	0.34 ³	52.05 ³	31.43 ³	16.18 ³	– ³
Seychelles	– ⁴	97.05 ⁴	– ⁴	2.95 ⁴	– ⁴	–	–	–	–	–
Sierra Leone	–	–	–	–	–	–	–	–	–	–
Somalia	–	–	–	–	–	–	–	–	–	–
South Africa	53.16	21.60	24.34	0.90	–	44.28 ¹	22.89 ¹	30.72 ¹	2.11 ¹	– ¹
South Sudan	–	–	–	–	–	–	–	–	–	–
Swaziland	–	–	–	–	–	–	–	–	–	–
Tanzania	– ²	42.10 ²	54.12 ²	3.79 ²	– ²	– ³	13.75 ³	86.25 ³	– ³	– ³
Togo	–	–	–	–	–	– ¹	39.83 ¹	60.17 ¹	– ¹	– ¹
Uganda	8.23	64.35	17.56	9.85	–	34.77 ^{3s}	38.58 ³	25.41 ³	1.25 ³	– ³
Zambia	2.02 ¹	19.32 ¹	78.17 ¹	0.48 ¹	– ¹	–	–	–	–	–
Zimbabwe	–	–	–	–	–	–	–	–	–	–
Arab states										
Algeria	–	–	–	–	–	–	–	–	–	–
Bahrain	–	–	–	–	–	–	–	100.00 ⁴	–	–
Egypt	–	45.41	54.72	–	–	–	44.54	55.46	–	–
Iraq	–	93.84	6.16	–	–	– ²	91.96 ²	8.04 ²	– ²	– ²
Jordan	–	–	–	–	–	–	–	–	–	–
Kuwait	–	100.00	–	–	–	–	38.91	60.85	–	0.25
Lebanon	–	–	–	–	–	–	–	–	–	–

R&D expenditure by source of funds (%)												
2009						2013						
Business enterprise	Government	Higher education	Private non-profit	Abroad	Not elsewhere classified	Business enterprise	Government	Higher education	Private non-profit	Abroad	Not elsewhere classified	
Other Europe and West Asia												
–	55.57 ^q	0.00	–	3.91 ^q	40.51 ^q	–	66.31 ^q	–	–	2.79 ^q	30.90 ^q	Armenia
24.76	74.35	0.00 ^g	0.82	0.07	–	30.49 ^s	68.20 ^s	0.82 ^s	0.33	0.16	–	Azerbaijan
28.82	62.56	0.00	0.13	8.49	–	43.79	48.26	–	–	7.95	–	Belarus
–	–	–	–	–	–	–	–	–	–	–	–	Georgia
30.92 ⁻¹	61.64 ⁻¹	7.45 ⁻¹	– ⁻¹	– ⁻¹	– ⁻¹	–	–	–	–	–	–	Iran, Islamic Rep. of
37.53 ^p	12.84 ^p	1.29 ^p	1.65 ^p	46.70 ^p	–	35.60 ^{-1,p}	12.13 ^{-1,p}	1.75 ^{-1,p}	1.74 ^{-1,p}	48.77 ^{-1,p}	– ⁻¹	Israel
– ⁻⁹	– ⁻⁹	– ⁻⁹	– ⁻⁹	6.49	93.51	– ⁻⁹	– ⁻⁹	– ⁻⁹	– ⁻⁹	11.80	88.20	Moldova, Rep. of
26.59	66.46	0.39	0.10	6.46	–	28.16	67.64	1.04	0.12	3.03	–	Russian Federation
40.97	33.96	20.29	3.66	1.13	–	48.87	26.55	20.44	3.30	0.83	–	Turkey
25.90	49.77	0.31	0.08	22.29	1.65	28.99	47.73	0.18	0.14	21.61	1.34	Ukraine
European Free Trade Assoc.												
47.81	40.24	0.00	0.58	11.38	–	49.85 ^{-2,s}	39.99 ^{-2,s}	1.36 ^{-2,s}	0.58 ^{-2,s}	8.22 ^{-2,s}	– ⁻²	Iceland
–	–	–	–	–	–	–	–	–	–	–	–	Liechtenstein
43.61	46.77	0.43	0.99	8.20	–	43.15	45.79	0.53	1.02	9.51	–	Norway
68.19 ⁻¹	22.84 ⁻¹	2.33 ⁻¹	0.69 ⁻¹	5.95 ⁻¹	– ⁻¹	60.78 ⁻¹	25.42 ⁻¹	1.16 ⁻¹	0.57 ⁻¹	12.07 ⁻¹	– ⁻¹	Switzerland
Sub-Saharan Africa												
–	–	–	–	–	–	–	–	–	–	–	–	Angola
–	–	–	–	–	–	–	–	–	–	–	–	Benin
–	–	–	–	–	–	5.81 ⁻¹	73.88 ⁻¹	12.56 ⁻¹	0.74 ⁻¹	6.81 ⁻¹	0.20 ⁻¹	Botswana
11.93	9.05	12.22	1.27	59.61	5.92	–	–	–	–	–	–	Burkina Faso
– ⁻¹	59.87 ^{-1,q}	0.21 ^{-1,q}	– ⁻¹	39.92 ^{-1,q}	– ⁻¹	–	–	–	–	–	–	Burundi
–	–	–	–	–	–	– ⁻²	100.00 ^{-2,l,q}	– ⁻²	– ⁻²	– ⁻²	– ⁻²	Cabo Verde
–	–	–	–	–	–	–	–	–	–	–	–	Cameroon
–	–	–	–	–	–	–	–	–	–	–	–	Central African Rep.
–	–	–	–	–	–	–	–	–	–	–	–	Chad
–	–	–	–	–	–	–	–	–	–	–	–	Comoros
–	100.00	–	–	–	–	–	–	–	–	–	–	Congo
–	–	–	–	–	–	–	–	–	–	–	–	Congo, Dem. Rep. of
–	–	–	–	–	–	–	–	–	–	–	–	Côte d'Ivoire
–	–	–	–	–	–	–	–	–	–	–	–	Djibouti
–	–	–	–	–	–	–	–	–	–	–	–	Equatorial Guinea
–	–	–	–	–	–	–	–	–	–	–	–	Eritrea
– ⁻²	71.74 ⁻²	0.00 ^{-2,g}	0.73 ⁻²	27.00 ⁻²	0.53 ⁻²	0.75	79.07	1.80	0.23	2.15	16.01	Ethiopia
29.26	58.09	9.55	–	3.09	0.01	–	–	–	–	–	–	Gabon
–	–	–	–	–	–	– ⁻²	38.54 ^{-2,b}	– ⁻²	45.56 ^{-2,b}	15.90 ^{-2,b}	– ⁻²	Gambia
50.86 ⁻²	36.55 ⁻²	0.65 ⁻²	– ⁻²	11.95 ⁻²	– ⁻²	0.10 ^{-3,s}	68.30 ^{-3,s}	0.27 ⁻³	0.11 ⁻³	31.22 ⁻³	– ⁻³	Ghana
–	–	–	–	–	–	–	–	–	–	–	–	Guinea
–	–	–	–	–	–	–	–	–	–	–	–	Guinea-Bissau
16.83 ⁻²	26.15 ⁻²	26.16 ⁻²	13.24 ⁻²	17.62 ⁻²	– ⁻²	4.34 ^{-3,s}	25.96 ^{-3,s}	19.03 ^{-3,s}	3.53 ^{-3,s}	47.14 ^{-3,s}	– ⁻³	Kenya
3.38 ^q	14.96 ^q	2.80 ^q	–	–	78.86 ^q	– ⁻²	– ⁻²	44.66 ^{-2,c,q}	– ⁻²	3.45 ^{-2,q}	51.89 ^{-2,q}	Lesotho
–	–	–	–	–	–	–	–	–	–	–	–	Liberia
–	89.42 ^e	– ⁿ	–	10.58	–	– ⁻²	100.00 ^{-2,e,s}	– ^{-2,n}	– ⁻²	– ⁻²	– ⁻²	Madagascar
–	–	–	–	–	–	–	–	–	–	–	–	Malawi
10.10 ^{-2,q}	40.86 ^{-2,q}	– ⁻²	– ⁻²	49.04 ^{-2,q}	– ⁻²	– ⁻³	91.19 ^{-3,s}	– ⁻³	– ⁻³	8.81 ⁻³	– ⁻³	Mali
– ⁻⁴	100.00 ^{-4,b,u}	– ⁻⁴	– ⁻⁴	– ⁻⁴	– ⁻⁴	0.27 ^{-1,h}	72.43 ^{-1,h}	20.73 ^{-1,h}	0.11 ^{-1,h}	6.43 ^{-1,h}	– ⁻¹	Mauritius
– ⁻¹	31.13 ⁻¹	– ⁻¹	4.55 ⁻¹	64.32 ⁻¹	– ⁻¹	– ⁻³	18.84 ^{-3,e}	– ⁻³	3.02 ⁻³	78.14 ⁻³	– ⁻³	Mozambique
–	–	–	–	–	–	19.83 ⁻³	78.64 ⁻³	– ⁻³	– ⁻³	1.53 ⁻³	– ⁻³	Namibia
–	–	–	–	–	–	–	–	–	–	–	–	Niger
0.16 ⁻²	96.36 ⁻²	0.08 ⁻²	1.73 ⁻²	1.04 ⁻²	0.64 ⁻²	–	–	–	–	–	–	Nigeria
–	–	–	–	–	–	–	–	–	–	–	–	Rwanda
–	–	–	–	–	–	–	–	–	–	–	–	Sao Tome and Principe
4.04 ⁻¹	57.06 ⁻¹	0.30 ⁻¹	0.27 ⁻¹	38.27 ⁻¹	0.05 ⁻¹	4.10 ⁻³	47.62 ⁻³	0.03 ⁻³	3.23 ⁻³	40.53 ⁻³	4.49 ⁻³	Senegal
–	–	–	–	–	–	–	–	–	–	–	–	Seychelles
–	–	–	–	–	–	–	–	–	–	–	–	Sierra Leone
–	–	–	–	–	–	–	–	–	–	–	–	Somalia
42.51	44.44	0.05	0.88	12.11	–	38.34 ⁻¹	45.38 ⁻¹	0.77 ⁻¹	2.46 ⁻¹	13.06 ⁻¹	– ⁻¹	South Africa
–	–	–	–	–	–	–	–	–	–	–	–	South Sudan
–	–	–	–	–	–	–	–	–	–	–	–	Swaziland
– ⁻²	60.58 ⁻²	0.00 ⁻²	1.06 ⁻²	38.36 ⁻²	– ⁻²	0.08 ⁻³	57.53 ⁻³	0.33 ⁻³	0.05 ⁻³	42.00 ⁻³	– ⁻³	Tanzania
–	–	–	–	–	–	– ⁻¹	84.87 ⁻¹	– ⁻¹	3.08 ⁻¹	12.06 ⁻¹	– ⁻¹	Togo
8.23	48.07	17.56	0.08	26.06	–	13.67 ⁻³	21.94 ⁻³	1.04 ⁻³	6.05 ⁻³	57.30 ⁻³	– ⁻³	Uganda
3.23 ⁻¹	94.83 ⁻¹	– ⁻¹	0.32 ⁻¹	1.62 ⁻¹	– ⁻¹	–	–	–	–	–	–	Zambia
–	–	–	–	–	–	–	–	–	–	–	–	Zimbabwe
Arab states												
–	–	–	–	–	–	–	–	–	–	–	–	Algeria
–	–	–	–	–	–	0.00 ^{l,q}	68.40 ^{l,q}	0.00 ^{l,q}	1.16 ^{l,q}	30.44 ^{l,q}	– ^{l,q}	Bahrain
–	–	–	–	–	–	–	–	–	–	–	–	Egypt
–	100.00 ^e	– ⁿ	–	–	–	0.00 ⁻²	100.00 ^{-2,e}	– ^{-2,n}	0.00 ⁻²	0.00 ⁻²	– ⁻²	Iraq
–	–	–	–	–	–	–	–	–	–	–	–	Jordan
2.33 ^k	96.49 ^k	–	–	1.18 ^k	–	1.41 ^h	92.95 ^h	0.17 ^h	5.47 ^h	0.00 ^h	– ^h	Kuwait
–	–	–	–	–	–	–	–	–	–	–	–	Lebanon

Table S2: R&D expenditure by sector of performance and source of funds, 2009 and 2013 (%)

	R&D expenditure by sector of performance (%)									
	2009					2013				
	Business enterprise	Government	Higher education	Private non-profit	Not elsewhere classified	Business enterprise	Government	Higher education	Private non-profit	Not elsewhere classified
Libya	-	-	-	-	-	-	-	-	-	-
Mauritania	-	-	-	-	-	-	-	-	-	-
Morocco	22.05 ³	25.60 ³	52.35 ³	- ³	- ³	29.94 ³	23.07 ³	47.00 ³	- ³	- ³
Oman	-	-	-	-	-	24.08	41.58	34.33	0.01	-
Palestine	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	25.84 ¹	32.28 ¹	41.88 ¹	- ¹	- ¹
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
Sudan	33.71 ^{4,r}	39.20 ^{4,r}	27.09 ^{4,r}	- ⁴	- ⁴	-	-	-	-	-
Syrian Arab Rep.	-	-	-	-	-	-	-	-	-	-
Tunisia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	28.62 ^{2,r}	39.65 ^{2,r}	29.33 ^{2,r}	2.40 ^{2,r}	- ^{2,r}
Yemen	-	-	-	-	-	-	-	-	-	-
Central Asia										
Kazakhstan	32.75	38.51	15.19	13.55	-	29.43	29.68	30.69	10.20	-
Kyrgyzstan	23.36	65.18	11.46	0.00	-	23.33 ²	62.04 ²	14.63 ²	0.00 ²	- ²
Mongolia	5.52 ^q	64.37	9.69 ^q	0.00 ^q	20.41 ^q	5.45 ^q	84.30 ^q	10.25 ^q	-	-
Tajikistan	-	86.22	13.78	-	-	-	88.26	11.74	-	-
Turkmenistan	-	-	-	-	-	-	-	-	-	-
Uzbekistan	-	-	-	-	-	-	-	-	-	-
South Asia										
Afghanistan	-	-	-	-	-	-	-	-	-	-
Bangladesh	-	-	-	-	-	-	-	-	-	-
Bhutan	-	-	-	-	-	-	-	-	-	-
India	34.16 ^f	61.69	4.15	0.00 ^m	-	35.46 ^{2,f}	60.48 ²	4.06 ²	0.00 ^{2,m}	- ²
Maldives	-	-	-	-	-	-	-	-	-	-
Nepal	-	100.00 ^u	-	-	-	- ³	100.00 ^{3,u}	- ³	- ³	- ³
Pakistan	-	74.99	25.01	-	-	-	67.06	32.94	-	-
Sri Lanka	18.32 ^{1,f}	56.91 ¹	24.78 ¹	0.00 ^{1,m}	- ¹	43.75 ^{3,s}	44.75 ³	11.49 ³	0.02 ^{3,q,s}	- ³
South-East Asia										
Brunei Darussalam	- ⁵	91.59 ⁵	8.41 ⁵	0.00 ⁵	- ⁵	-	-	-	-	-
Cambodia	12.08 ^{7,q,r}	25.33 ^{7,q,r}	11.80 ^{7,q,r}	50.79 ^{7,q,r}	- ^{7,r}	-	-	-	-	-
China	73.23	18.71	8.07	-	-	76.61	16.16	7.23	-	-
China, Hong Kong SAR	42.65 ^f	4.08	53.26	0.00 ^m	-	44.87 ^{1,f}	4.00 ¹	51.14 ¹	- ^{1,m}	- ¹
China, Macao SAR	0.00 ¹	0.00 ¹	98.63 ¹	1.37 ¹	- ¹	0.37	-	96.24	2.87	0.51
Indonesia	18.85 ^f	43.22 ^f	37.93 ^f	-	-	25.68 ^f	39.39 ^f	34.93 ^f	-	- ^f
Japan	75.76	9.21	13.41	1.61	-	76.09	9.17	13.47	1.28	-
Korea, DPR	-	-	-	-	-	-	-	-	-	-
Korea, Rep. of	74.26	13.02	11.08	1.64	-	78.51	10.91	9.24	1.33	-
Lao PDR	36.89 ^{7,q}	50.91 ^{7,q}	12.20 ^{7,q}	0.00 ⁷	- ⁷	-	-	-	-	-
Malaysia	69.86	6.38	23.77	0.00	-	64.45 ¹	6.88 ¹	28.67 ¹	0.01 ¹	- ¹
Myanmar	-	-	-	-	-	-	-	-	-	-
Philippines	56.95 ²	17.65 ²	23.25 ²	2.15 ²	- ²	-	-	-	-	-
Singapore	61.63	11.30	27.06	-	-	60.94 ¹	10.01 ¹	29.05 ¹	- ¹	- ¹
Thailand	41.21	32.75	24.94	1.11	-	50.61 ²	18.87 ²	30.14 ²	0.38 ²	- ²
Timor-Leste	-	-	-	-	-	-	-	-	-	-
Viet Nam	14.55 ⁷	66.43 ⁷	17.91 ⁷	1.12 ⁷	- ⁷	26.01 ²	58.32 ²	14.37 ²	1.29 ²	- ²
Oceania										
Australia	61.10 ¹	12.09 ¹	24.18 ¹	2.63 ¹	- ¹	57.86 ²	11.21 ^{2,r}	28.06 ^{2,r}	2.98 ^{2,r}	- ²
New Zealand	41.76	25.28	32.96	-	-	45.45 ²	22.70 ²	31.85 ²	- ²	- ²
Cook Islands	-	-	-	-	-	-	-	-	-	-
Fiji	-	-	-	-	-	-	-	-	-	-
Kiribati	-	-	-	-	-	-	-	-	-	-
Marshall Islands	-	-	-	-	-	-	-	-	-	-
Micronesia	-	-	-	-	-	-	-	-	-	-
Nauru	-	-	-	-	-	-	-	-	-	-
Niue	-	-	-	-	-	-	-	-	-	-
Palau	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Samoa	-	-	-	-	-	-	-	-	-	-
Solomon Islands	-	-	-	-	-	-	-	-	-	-
Tonga	-	-	-	-	-	-	-	-	-	-
Tuvalu	-	-	-	-	-	-	-	-	-	-
Vanuatu	-	-	-	-	-	-	-	-	-	-

Source: UNESCO Institute for Statistics (UIS), August, 2015

N.B.: See Key To All Tables at the end of Table S10.

R&D expenditure by source of funds (%)													
2009						2013							
Business enterprise	Government	Higher education	Private non-profit	Abroad	Not elsewhere classified	Business enterprise	Government	Higher education	Private non-profit	Abroad	Not elsewhere classified		
-	-	-	-	-	-	-	-	-	-	-	-	Libya	
22.70 ⁻³	26.12 ⁻³	48.56 ⁻³	- ⁻³	2.61 ⁻³	- ⁻³	29.94 ⁻³	23.07 ⁻³	45.28 ⁻³	- ⁻³	1.71 ⁻³	- ⁻³	Mauritania	
-	-	-	-	-	-	24.55	48.60	24.44	0.07	0.00	2.34 ^f	Morocco	
-	-	-	-	-	-	-	-	-	-	-	-	Oman	
-	-	-	-	-	-	24.18 ¹	31.18 ⁻¹	36.56 ⁻¹	5.60 ⁻¹	2.42 ⁻¹	0.05 ⁻¹	Palestine	
-	-	-	-	-	-	-	-	-	-	-	-	Qatar	
-	-	-	-	-	-	-	-	-	-	-	-	Saudi Arabia	
-	-	-	-	-	-	-	-	-	-	-	-	Sudan	
16.00	79.00 ^e	- ⁿ	0.00	5.10	-	18.70 ⁻¹	76.90 ^{-1,e}	- ^{-1,n}	0.00 ⁻¹	4.40 ⁻¹	- ⁻¹	Syrian Arab Rep.	
-	-	-	-	-	-	-	-	-	-	-	-	Tunisia	
-	-	-	-	-	-	-	-	-	-	-	-	United Arab Emirates	
-	-	-	-	-	-	-	-	-	-	-	-	Yemen	
Central Asia													
50.74 ⁻¹	31.37 ⁻¹	14.74 ⁻¹	2.20 ⁻¹	0.96 ⁻¹	- ⁻¹	28.92	63.68	-	-	0.76	6.64	Kazakhstan	
36.38 ⁻⁴	63.62 ⁻⁴	0.00 ⁻⁴	0.00 ⁻⁴	0.01 ⁻⁴	- ⁻⁴	38.58 ^{-2,s}	57.66 ^{-2,s}	1.43 ^{-2,s}	0.00 ⁻²	0.87 ^{-2,s}	1.45 ^{-2,s}	Kyrgyzstan	
2.90 ^q	61.52 ^q	1.96 ^q	0.00	1.44 ^q	32.17 ^q	8.31 ^q	73.95 ^q	1.83 ^q	-	4.90 ^q	11.02 ^q	Mongolia	
1.08 ^t	82.07 ^t	0.64 ^t	-	-	16.14 ^t	-	92.45	0.21	-	0.21	7.13	Tajikistan	
-	-	-	-	-	-	-	-	-	-	-	-	Turkmenistan	
-	-	-	-	-	-	-	-	-	-	-	-	Uzbekistan	
South Asia													
-	-	-	-	-	-	-	-	-	-	-	-	Afghanistan	
-	-	-	-	-	-	-	-	-	-	-	-	Bangladesh	
-	-	-	-	-	-	-	-	-	-	-	-	Bhutan	
-	-	-	-	-	-	-	-	-	-	-	-	India	
-	-	-	-	-	-	-	-	-	-	-	-	Maldives	
-	-	-	-	-	-	-	-	-	-	-	-	Nepal	
-	84.03	12.11	1.66	0.92	1.28	-	75.26 ^h	20.00 ^h	1.71 ^h	1.31 ^h	1.71 ^h	Pakistan	
19.89 ^{-1,f}	71.80 ^{-1,e}	0.00 ^{1,n}	0.00 ^{1,m}	4.27 ⁻¹	4.04 ⁻¹	40.93 ^{-3,s}	55.90 ⁻³	0.19 ⁻³	0.00 ⁻³	2.72 ⁻³	0.26 ⁻³	Sri Lanka	
South-East Asia													
1.58 ⁻⁵	91.01 ⁻⁵	7.41 ⁻⁵	0.00 ⁻⁵	0.00 ⁻⁵	- ⁻⁵	-	-	-	-	-	-	Brunei Darussalam	
- ⁻⁷	17.93 ^{-7,q,r}	- ⁻⁷	43.00 ^{-7,q,r}	28.44 ^{-7,q,r}	10.62 ^{-7,q,r}	-	-	-	-	-	-	Cambodia	
71.74 ^t	23.41 ^t	-	-	1.35 ^t	-	74.60 ^t	21.11 ^t	-	-	0.89 ^t	-	China	
45.83 ^f	47.96	0.12	0.00 ^m	6.09	-	49.73 ^{-1,f}	45.60 ⁻¹	0.02 ⁻¹	- ^{-1,m}	4.65 ⁻¹	- ⁻¹	China, Hong Kong SAR	
0.18 ⁻¹	91.74 ⁻¹	6.42 ⁻¹	1.37 ⁻¹	0.00 ⁻¹	0.28 ⁻¹	-	90.55	8.13	1.32	0.00	-	China, Macao SAR	
14.69 ^{-8,f,q}	84.51 ⁻⁸	0.15 ⁻⁸	0.00 ^{-8,m}	- ⁻⁸	0.65 ⁻⁸	-	-	-	-	-	-	Indonesia	
75.27	17.67 ^r	5.91 ^r	0.74	0.42	-	75.48	17.30 ^r	5.86 ^r	0.83	0.52	-	Japan	
-	-	-	-	-	-	-	-	-	-	-	-	Korea, DPR	
71.08	27.40	0.90	0.41	0.21	-	75.68	22.83	0.73	0.46	0.30	-	Korea, Rep. of	
36.01 ^{-7,q}	8.00 ^{-7,q}	2.00 ^{-7,q}	0.00 ^{-7,g}	53.99 ^{-7,q}	- ⁻⁷	-	-	-	-	-	-	Lao PDR	
68.52	27.12	4.08	0.00	0.23	0.05	60.20 ⁻¹	29.68 ⁻¹	2.50 ⁻¹	0.00 ⁻¹	4.59 ⁻¹	3.03 ⁻¹	Malaysia	
-	-	-	-	-	-	-	-	-	-	-	-	Myanmar	
61.96 ⁻²	26.08 ⁻²	6.38 ⁻²	0.91 ⁻²	4.12 ⁻²	0.55 ⁻²	-	-	-	-	-	-	Philippines	
52.14	40.38	1.54	-	5.95	-	53.37 ⁻¹	38.54 ⁻¹	2.18 ⁻¹	- ⁻¹	5.91 ⁻¹	- ⁻¹	Singapore	
41.43	37.89	17.80	0.32	1.00	1.57	51.74 ⁻²	30.48 ⁻²	13.48 ⁻²	0.46 ⁻²	2.50 ⁻²	1.34 ⁻²	Thailand	
-	-	-	-	-	-	-	-	-	-	-	-	Timor-Leste	
18.06 ⁻⁷	74.11 ⁻⁷	0.66 ^{-7,f}	0.00 ^{-7,g}	6.33 ⁻⁷	0.84 ⁻⁷	28.40 ⁻²	64.47 ⁻²	3.13 ⁻²	0.00 ⁻²	3.99 ⁻²	- ⁻²	Viet Nam	
Oceania													
61.91 ⁻¹	34.60 ⁻¹	0.12 ⁻¹	1.77 ⁻¹	1.61 ⁻¹	- ⁻¹	-	-	-	-	-	-	Australia	
39.01	44.72	8.30	2.84	5.22	-	39.96 ⁻²	41.41 ⁻²	9.45 ⁻²	2.78 ⁻²	6.32 ⁻²	- ⁻²	New Zealand	
-	-	-	-	-	-	-	-	-	-	-	-	Cook Islands	
-	-	-	-	-	-	-	-	-	-	-	-	Fiji	
-	-	-	-	-	-	-	-	-	-	-	-	Kiribati	
-	-	-	-	-	-	-	-	-	-	-	-	Marshall Islands	
-	-	-	-	-	-	-	-	-	-	-	-	Micronesia	
-	-	-	-	-	-	-	-	-	-	-	-	Nauru	
-	-	-	-	-	-	-	-	-	-	-	-	Niue	
-	-	-	-	-	-	-	-	-	-	-	-	Palau	
-	-	-	-	-	-	-	-	-	-	-	-	Papua New Guinea	
-	-	-	-	-	-	-	-	-	-	-	-	Samoa	
-	-	-	-	-	-	-	-	-	-	-	-	Solomon Islands	
-	-	-	-	-	-	-	-	-	-	-	-	Tonga	
-	-	-	-	-	-	-	-	-	-	-	-	Tuvalu	
-	-	-	-	-	-	-	-	-	-	-	-	Vanuatu	

Table S3: R&D expenditure as a share of GDP and in purchasing power parity (PPP) dollars, 2009-2013

	R&D expenditure as percentage of GDP					R&D expenditure in current PPP\$ (000s)		R&D expenditure per capita (current PPP\$)	
	2009	2010	2011	2012	2013	2009	2013	2009	2013
North America									
Canada	1.92	1.84	1.79	1.72	1.63 ^v	25 027 663	24 565 364 ^v	741.5	698.2 ^v
United States of America	2.82 ^o	2.74 ^o	2.77 ^o	2.81 ^{ov}	–	406 000 000 ^o	453 544 000 ^{1,ov}	1 311.8 ^o	1 428.5 ^{1,ov}
Latin America									
Argentina	0.48	0.49	0.52	0.58	–	3 418 556	5 159 124 ¹	85.4	125.6 ¹
Belize	–	–	–	–	–	–	–	–	–
Bolivia	0.16	–	–	–	–	78 248	–	7.8	–
Brazil	1.15	1.20	1.20	1.24	–	28 401 334	35 780 779 ¹	146.8	180.1 ¹
Chile	0.35	0.33	0.35	0.36	–	963 991	1 343 656 ¹	56.7	76.9 ¹
Colombia	0.21	0.21	0.22	0.22	0.23	973 270	1 365 135	21.2	28.3
Costa Rica	0.54	0.48	0.47	–	–	287 185	285 072 ²	62.4	60.2 ²
Ecuador	0.39	0.40	0.34	–	–	515 346	512 117 ²	34.9	33.6 ²
El Salvador	0.08	0.07	0.03	0.03	–	33 277	14 554 ¹	5.4	2.3 ¹
Guatemala	0.06 ^q	0.04 ^q	0.05 ^q	0.04 ^q	–	51 110 ^q	47 958 ^{1,q}	3.7 ^q	3.2 ^{1,q}
Guyana	–	–	–	–	–	–	–	–	–
Honduras	0.04 ⁵	–	–	–	–	9 214 ⁵	–	1.4 ⁵	–
Mexico	0.43	0.45	0.42	0.43	0.50	7 008 035	9 984 730	60.2	81.6
Nicaragua	0.03 ⁷	–	–	–	–	5 307 ⁷	–	1.0 ⁷	–
Panama	0.14	0.15	0.18	–	–	69 339	109 671 ²	19.2	29.3 ²
Paraguay	0.05 ¹	–	0.06	0.09	–	21 903 ¹	41 865 ¹	3.5 ¹	6.3 ¹
Peru	0.16 ⁵	–	–	–	–	263 109 ⁵	–	9.6 ⁵	–
Suriname	–	–	–	–	–	–	–	–	–
Uruguay	0.44	0.41	0.42	0.24	–	218 160	151 748 ¹	64.9	44.7 ¹
Venezuela	–	–	–	–	–	–	–	–	–
Caribbean									
Antigua and Barbuda	–	–	–	–	–	–	–	–	–
Bahamas	–	–	–	–	–	–	–	–	–
Barbados	–	–	–	–	–	–	–	–	–
Cuba	0.61	0.61	0.27 ^s	0.41 ^s	0.47	1 199 443	582 720 ^{2,s}	106.3	51.7 ^{2,s}
Dominica	–	–	–	–	–	–	–	–	–
Dominican Rep.	–	–	–	–	–	–	–	–	–
Grenada	–	–	–	–	–	–	–	–	–
Haiti	–	–	–	–	–	–	–	–	–
Jamaica	0.06 ⁷	–	–	–	–	8 586 ⁸	–	3.3 ⁸	–
St Kitts and Nevis	–	–	–	–	–	–	–	–	–
St Lucia	–	–	–	–	–	–	–	–	–
St Vincent and the Grenadines	0.12 ⁷	–	–	–	–	874 ⁷	–	8.1 ⁷	–
Trinidad and Tobago	0.06	0.05	0.04	0.05	–	21 309	19 232 ¹	16.1	14.4 ¹
European Union									
Austria	2.61	2.74 ^f	2.68	2.81 ^f	2.81 ^{fv}	8 860 472	10 752 629 ^{fv}	1 058.4	1 265.7 ^{fv}
Belgium	1.97	2.05	2.15	2.24 ^f	2.28 ^v	8 044 797	10 603 427 ^f	740.6	954.9 ^v
Bulgaria	0.51	0.59	0.55	0.62	0.65	548 901	742 690	73.7	102.8
Croatia	0.84	0.74	0.75	0.75	0.81	725 389	739 806	166.8	172.5
Cyprus	0.49	0.49	0.50	0.47	0.52 ^v	124 114	127 783 ^v	113.8	112.0 ^v
Czech Rep.	1.30	1.34	1.56	1.79	1.91	3 660 339	5 812 939	349.1	543.2
Denmark	3.07	2.94	2.97	3.02	3.06 ^{fv}	6 717 152	7 513 404 ^{fv}	1 215.9	1 337.1 ^{fv}
Estonia	1.40	1.58	2.34	2.16	1.74	376 400	592 193	288.9	460.0
Finland	3.75	3.73	3.64	3.43	3.32	7 514 757	7 175 592	1 406.2	1 322.4 ^{fv}
France	2.21	2.18 ^s	2.19	2.23	2.23 ^v	49 757 013	55 218 177 ^{sv}	791.2	858.9 ^{sv}
Germany	2.73	2.72	2.80	2.88	2.85 ^{fv}	82 822 155	100 991 319 ^{fv}	995.7	1 220.8 ^{fv}
Greece	0.63 ^r	0.60 ^r	0.67	0.69	0.80	2 130 452 ^r	2 273 861	192.0 ^r	204.3
Hungary	1.14	1.15	1.20	1.27	1.41	2 382 736	3 249 569	237.5	326.4
Ireland	1.63 ^r	1.62 ^r	1.53 ^r	1.58 ^r	–	3 066 688 ^r	3 271 465 ^{1,r}	695.3 ^r	714.9 ^{1,r}
Italy	1.22	1.22	1.21	1.26	1.25 ^v	24 648 791	26 520 408 ^v	409.3	434.8 ^v
Latvia	0.46	0.60	0.70	0.66	0.60	165 357	271 937	78.3	132.6
Lithuania	0.84	0.79	0.91	0.91	0.96	479 801	723 289	154.7	239.7
Luxembourg	1.72	1.50	1.41	1.16 ^s	1.16 ^v	683 894	571 469 ^{sv}	1 373.0	1 077.5 ^{sv}
Malta	0.54	0.68	0.72	0.90	0.89 ^v	58 056	109 275 ^v	137.3	254.7 ^v
Netherlands	1.69	1.72	1.89 ^s	1.97	1.98 ^v	12 370 154	15 376 725 ^{sv}	746.9	917.5 ^{sv}
Poland	0.67	0.72	0.75	0.89	0.87	4 864 696	7 918 126	127.4	207.2
Portugal	1.58	1.53	1.46	1.37	1.36 ^v	4 376 952	3 942 649 ^v	413.7	371.7 ^v
Romania	0.47	0.46	0.50 ^s	0.49	0.39	1 487 584	1 480 720 ^s	67.9	68.2 ^s
Slovakia	0.47	0.62	0.67	0.81	0.83	592 782	1 190 627	109.3	218.5
Slovenia	1.82	2.06	2.43 ^s	2.58	2.59	1 019 332	1 537 841 ^v	498.6	742.2 ^s
Spain	1.35	1.35	1.32	1.27	1.24	20 554 768	19 133 196	449.2	407.7
Sweden	3.42	3.22 ^f	3.22	3.28 ^r	3.30 ^q	12 599 701	14 151 281 ^q	1 353.3	1 478.5 ^q
United Kingdom	1.75 ^r	1.69 ^r	1.69	1.63 ^r	1.63 ^{fv}	39 432 832 ^r	39 858 849 ^{fv}	639.1 ^r	631.3 ^{fv}
South-East Europe									
Albania	0.15 ^{1,q}	–	–	–	–	39 832 ^{1,q}	–	12.6 ^{1,q}	–
Bosnia and Herzegovina	0.02 ^q	–	–	0.27 ^s	0.33	7 027 ^q	119 480 ^s	1.8 ^q	31.2 ^s
Macedonia, FYR	0.20	0.22	0.22	0.33	0.47	45 820	113 957	21.8	54.1
Montenegro	1.15 ²	–	0.41 ^s	–	0.38 ^s	88 338 ²	33 218 ^s	143.0 ²	53.5 ^s
Serbia	0.87	0.74	0.72	0.91	0.73	748 598	677 967	77.2	71.3
Other Europe and West Asia									
Armenia	0.29 ^q	0.24 ^q	0.27 ^q	0.25 ^q	0.24 ^q	53 140 ^q	54 826 ^q	17.9 ^q	18.4 ^q
Azerbaijan	0.25	0.22	0.21	0.22	0.21	332 970	341 284	37.1	36.3
Belarus	0.64	0.69	0.70	0.67	0.69	860 424	1 145 209	90.3	122.4
Georgia	0.18 ⁴	–	–	–	0.13 ^{su}	32 338 ⁴	42 214 ^{su}	7.2 ⁴	9.7 ^{su}

	R&D expenditure as percentage of GDP					R&D expenditure in current PPP\$ (000s)		R&D expenditure per capita (current PPP\$)	
	2009	2010	2011	2012	2013	2009	2013	2009	2013
Iran, Islamic Rep. of	0.31 ¹	0.31 ¹	–	–	–	3 345 394 ¹	3 521 024 ^{-3,i}	45.5 ¹	47.3 ^{-3,i}
Israel	4.15 ^p	3.96 ^p	4.10 ^p	4.25 ^p	4.21 ^p	8 506 846 ^p	11 032 853 ^p	1 169.5 ^p	1 426.7 ^p
Moldova, Rep. of	0.53	0.44	0.40	0.42	0.35	66 168	58 989	18.4	16.9
Russian Federation	1.25	1.13	1.09	1.12	1.12	34 654 585	40 694 501	241.2	284.9
Turkey	0.85	0.84	0.86	0.92	0.95	8 867 131	13 315 099	124.5	177.7
Ukraine	0.86	0.83	0.74	0.75	0.77	2 867 129	3 067 360	62.0	67.8
European Free Trade Assoc.									
Iceland	2.66	–	2.49 ^s	–	–	337 939	314 837 ^{-2,s}	1 076.9	977.6 ^{-2,s}
Liechtenstein	–	–	–	–	–	–	–	–	–
Norway	1.76	1.68	1.65	1.65	1.69	4 676 887	5 519 606	967.2	1 094.6
Switzerland	2.73 ⁻¹	–	–	2.96	–	10 525 201 ⁻¹	13 251 396 ⁻¹	1 375.3 ⁻¹	1 657.0 ⁻¹
Sub-Saharan Africa									
Angola	–	–	–	–	–	–	–	–	–
Benin	–	–	–	–	–	–	–	–	–
Botswana	0.53 ⁻⁴	–	–	0.26 ^s	–	102 226 ⁻⁴	76 096 ^{-1,s}	54.5 ⁻⁴	38.0 ^{-1,s}
Burkina Faso	0.20	–	–	–	–	39 877	–	2.6	–
Burundi	0.14 ^q	0.14 ^q	0.12 ^q	–	–	9 014 ^q	8 460 ^{-2,q}	1.0 ^q	0.9 ^{-2,q}
Cabo Verde	–	–	0.07 ^{1,q}	–	–	–	2 211 ^{-2,i,q}	–	4.5 ^{-2,i,q}
Cameroon	–	–	–	–	–	–	–	–	–
Central African Rep.	–	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–	–
Comoros	–	–	–	–	–	–	–	–	–
Congo	–	–	–	–	–	–	–	–	–
Congo, Dem. Rep. of	0.08 ^{k,u}	–	–	–	–	30 743 ^{k,u}	–	0.5 ^{k,u}	–
Côte d'Ivoire	–	–	–	–	–	–	–	–	–
Djibouti	–	–	–	–	–	–	–	–	–
Equatorial Guinea	–	–	–	–	–	–	–	–	–
Eritrea	–	–	–	–	–	–	–	–	–
Ethiopia	0.17 ^{-2,q}	0.24 ^s	–	–	0.61	111 769 ^{-2,q}	787 350 ^s	1.4 ^{-2,q}	8.4 ^s
Gabon	0.58	–	–	–	–	137 154	–	90.3	–
Gambia	0.02 ^q	–	0.13 ^b	–	–	445 ^q	3 544 ^{-2,b}	0.3 ^q	2.0 ^{-2,b}
Ghana	0.23 ⁻²	0.38 ^s	–	–	–	133 220 ⁻²	274 351 ^{-3,s}	5.9 ⁻²	11.3 ^{-3,s}
Guinea	–	–	–	–	–	–	–	–	–
Guinea-Bissau	–	–	–	–	–	–	–	–	–
Kenya	0.36 ^{-2,q}	0.79 ^s	–	–	–	305 213 ^{-2,q}	788 126 ^{-3,s}	8.1 ^{-2,q}	19.3 ^{-3,s}
Lesotho	0.03 ^q	–	0.01 ^{1,q}	–	–	1 200 ^q	599 ^{-2,i,q}	0.6 ^q	0.3 ^{-2,i,q}
Liberia	–	–	–	–	–	–	–	–	–
Madagascar	0.15 ^q	0.11 ^{q,s}	0.11 ^q	–	–	41 544 ^q	31 484 ^{-2,q,s}	2.0 ^q	1.5 ^{-2,q,s}
Malawi	–	–	–	–	–	–	–	–	–
Mali	0.25 ^{-2,i,q}	0.66 ^h	–	–	–	47 068 ^{-2,i,q}	150 785 ^{-3,h}	3.7 ^{-2,i,q}	10.8 ^{-3,h}
Mauritius	0.37 ^{-4,b,u}	–	–	0.18 ^{h,s}	–	51 912 ^{-4,b,u}	38 584 ^{-1,h,s}	42.8 ^{-4,b,u}	31.1 ^{-1,h,s}
Mozambique	0.16 ^{-1,h,j,q}	0.42 ^{h,s}	–	–	–	30 012 ^{-1,h,j,q}	92 445 ^{-3,h,s}	1.3 ^{-1,h,j,q}	3.9 ^{-3,h,s}
Namibia	–	0.14 ^{1,q}	–	–	–	–	25 516 ^{-3,i,q}	–	11.7 ^{-3,i,q}
Niger	–	–	–	–	–	–	–	–	–
Nigeria	0.22 ^{-2,h}	–	–	–	–	1 374 841 ^{-2,h}	–	9.3 ^{-2,h}	–
Rwanda	–	–	–	–	–	–	–	–	–
Sao Tome and Principe	–	–	–	–	–	–	–	–	–
Senegal	0.37 ⁻¹	0.54	–	–	–	93 586 ⁻¹	149 726 ⁻³	7.6 ⁻¹	11.6 ⁻³
Seychelles	0.30 ⁻⁴	–	–	–	–	3 955 ⁻⁴	–	45.4 ⁻⁴	–
Sierra Leone	–	–	–	–	–	–	–	–	–
Somalia	–	–	–	–	–	–	–	–	–
South Africa	0.84	0.74	0.73	0.73	–	4 818 930	4 824 364 ⁻¹	94.7	92.1 ⁻¹
South Sudan	–	–	–	–	–	–	–	–	–
Swaziland	–	–	–	–	–	–	–	–	–
Tanzania	0.34 ^{-2,h,q}	0.38 ^{h,q}	–	–	–	251 377 ^{-2,h,q}	348 185 ^{-3,h,q}	6.1 ^{-2,h,q}	7.7 ^{-3,h,q}
Togo	–	0.25 ^h	–	0.22 ^h	–	–	19 622 ^{-1,h}	–	3.0 ^{-1,h}
Uganda	0.36	0.48	–	–	–	170 176	240 005 ⁻³	5.2	7.1 ⁻³
Zambia	0.28 ⁻¹	–	–	–	–	101 149 ⁻¹	–	8.1 ⁻¹	–
Zimbabwe	–	–	–	–	–	–	–	–	–
Arab states									
Algeria	0.07 ^{-4,q}	–	–	–	–	241 164 ^{-4,q}	–	7.1 ^{-4,q}	–
Bahrain	0.04 ^{1,q}	0.04 ^{1,q}	0.04 ^{1,q}	0.04 ^{1,q}	0.04 ^{1,q}	18 124 ^{1,q}	24 516 ^{1,q}	15.2 ^{1,q}	18.4 ^{1,q}
Egypt	0.43 ^h	0.43 ^h	0.53 ^h	0.54 ^h	0.68 ^h	3 306 085 ^h	6 169 203 ^h	43.1 ^h	75.2 ^h
Iraq	0.05 ^{h,u}	0.04 ^{h,u}	0.03 ^{h,u}	–	–	159 710 ^{h,u}	146 269 ^{-2,h,u}	5.3 ^{h,u}	4.6 ^{-2,h,u}
Jordan	0.43 ⁻¹	–	–	–	–	263 201 ⁻¹	–	44.5 ⁻¹	–
Kuwait	0.11 ^{k,q}	0.10 ^{k,q}	0.10 ^{k,q}	0.10 ^{k,q}	0.30 ^{h,s}	249 477 ^{k,q}	264 911 ^{-1,k,q}	87.5 ^{k,q}	81.5 ^{-1,k,q}
Lebanon	–	–	–	–	–	–	–	–	–
Libya	–	–	–	–	–	–	–	–	–
Mauritania	–	–	–	–	–	–	–	–	–
Morocco	0.64 ⁻³	0.73	–	–	–	1 030 143 ⁻³	1 494 848 ⁻³	33.9 ⁻³	47.2 ⁻³
Oman	–	–	0.13 ^r	0.21	0.17	–	309 780 ⁻¹	–	93.5 ⁻¹
Palestine	–	–	–	–	–	–	–	–	–
Qatar	–	–	–	0.47	–	–	1 296 303 ⁻¹	–	632.2 ⁻¹
Saudi Arabia	0.07 ^q	–	–	–	–	832 203 ^q	–	31.1 ^q	–
Sudan	0.30 ^{-4,b,r}	–	–	–	–	298 413 ^{-4,b,r}	–	9.4 ^{-4,b,r}	–
Syrian Arab Rep.	–	–	–	–	–	–	–	–	–
Tunisia	0.71	0.68	0.71	0.68	–	728 030	790 712 ⁻¹	69.3	72.7 ⁻¹
United Arab Emirates	–	–	0.49 ^r	–	–	–	2 461 027 ^{-2,r}	–	275.7 ^{-2,r}
Yemen	–	–	–	–	–	–	–	–	–

Table S3: R&D expenditure as a share of GDP and in purchasing power parity (PPP) dollars, 2009-2013

	R&D expenditure as percentage of GDP					R&D expenditure in current PPP\$ (000s)		R&D expenditure per capita (current PPP\$)	
	2009	2010	2011	2012	2013	2009	2013	2009	2013
Central Asia									
Kazakhstan	0.23	0.15	0.16	0.17	0.17	661 567	691 400	42.0	42.1
Kyrgyzstan	0.16	0.16	0.16	-	-	23 648	25 179 ²	4.5	4.7 ²
Mongolia	0.30 ^q	0.28 ^q	0.27 ^q	0.28 ^q	0.25 ^q	48 720 ^q	68 029 ^q	18.2 ^q	24.0 ^q
Tajikistan	0.09 ^h	0.09 ^h	0.12 ^h	0.11 ^h	0.12 ^h	12 546 ^h	24 269 ^h	1.7 ^h	3.0 ^h
Turkmenistan	-	-	-	-	-	-	-	-	-
Uzbekistan	-	-	-	-	-	-	-	-	-
South Asia									
Afghanistan	-	-	-	-	-	-	-	-	-
Bangladesh	-	-	-	-	-	-	-	-	-
Bhutan	-	-	-	-	-	-	-	-	-
India	0.82	0.80 ^r	0.82 ^r	-	-	39 400 485	48 062 976 ^{2,r}	33.1	39.4 ^{2,r}
Maldives	-	-	-	-	-	-	-	-	-
Nepal	0.26 ^{qu}	0.30 ^{qu}	-	-	-	128 477 ^{qu}	158 906 ^{3,qu}	4.8 ^{qu}	5.9 ^{3,qu}
Pakistan	0.45 ^h	-	0.33 ^h	-	0.29 ^h	3 118 457 ^h	2 443 292 ^h	18.3 ^h	13.4 ^h
Sri Lanka	0.11 ¹	0.16	-	-	-	153 681 ¹	240 005 ³	7.5 ¹	11.6 ³
South-East Asia									
Brunei Darussalam	0.04 ^{5,q}	-	-	-	-	8 708 ^{5,q}	-	24.1 ^{5,q}	-
Cambodia	0.05 ^{7,q,r}	-	-	-	-	7 901 ^{7,q,r}	-	0.6 ^{7,q,r}	-
China	1.70	1.76	1.84	1.98	2.08	184 170 641	336 577 729	136.3	242.9
China, Hong Kong SAR	0.77	0.75	0.72	0.73	-	2 369 983	2 663 088 ¹	338.2	372.5 ¹
China, Macao SAR	0.05 ^q	0.05 ^q	0.04 ^q	0.05 ^q	0.05 ^q	21 945 ^q	41 151 ^q	42.1 ^q	72.7 ^q
Indonesia	0.08 ^{q,r}	-	-	-	0.09 ^r	1 466 763 ^{q,r}	2 126 345 ^r	6.2 ^{q,r}	8.5 ^r
Japan	3.36	3.25	3.38	3.34	3.47	136 953 957	160 246 832	1 075.4	1 260.4
Korea, DPR	-	-	-	-	-	-	-	-	-
Korea, Rep. of	3.29	3.47	3.74	4.03	4.15	45 987 242	68 937 037	954.8	1 399.4
Lao PDR	0.04 ^{7,q}	-	-	-	-	4 289 ^{7,q}	-	0.8 ^{7,q}	-
Malaysia	1.01	1.07	1.06	1.13	-	5 248 826	7 351 372 ¹	188.9	251.4 ¹
Myanmar	0.16 ^{7,q}	-	-	-	-	-	-	-	-
Philippines	0.11 ²	-	-	-	-	477 841 ²	-	5.4 ²	-
Singapore	2.16	2.01	2.16	2.02	-	6 612 088	8 152 867 ¹	1 331.9	1 537.3 ¹
Thailand	0.25	-	0.39	-	-	1 915 168	3 303 858 ²	28.9	49.6 ²
Timor-Leste	-	-	-	-	-	-	-	-	-
Viet Nam	0.18 ⁷	-	0.19	-	-	340 429 ⁷	789 059 ²	4.1 ⁷	8.8 ²
Oceania									
Australia	2.40 ¹	2.39 ^r	2.25 ^r	-	-	19 132 997 ¹	20 955 599 ^{2,r}	883.9 ¹	921.5 ^{2,r}
New Zealand	1.28	-	1.27	-	-	1 655 439	1 766 588 ²	382.9	400.2 ²
Cook Islands	-	-	-	-	-	-	-	-	-
Fiji	-	-	-	-	-	-	-	-	-
Kiribati	-	-	-	-	-	-	-	-	-
Marshall Islands	-	-	-	-	-	-	-	-	-
Micronesia	-	-	-	-	-	-	-	-	-
Nauru	-	-	-	-	-	-	-	-	-
Niue	-	-	-	-	-	-	-	-	-
Palau	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-
Samoa	-	-	-	-	-	-	-	-	-
Solomon Islands	-	-	-	-	-	-	-	-	-
Tonga	-	-	-	-	-	-	-	-	-
Tuvalu	-	-	-	-	-	-	-	-	-
Vanuatu	-	-	-	-	-	-	-	-	-

Note: UNESCO Institute for Statistics (UIS), August, 2015

Sources for background data:

GDP and PPP conversion factor (local currency per international \$): World Bank; World Development Indicators, as of April 2015.

Population: United Nations, Department of Economic and Social Affairs, Population Division, 2013; *World Population Prospects: The 2012 Revision*

N.B.: See Key To All Tables at the end of Table S10.

Table S4: Public expenditure on tertiary education, 2008 and 2013

	Public expenditure on tertiary education as % of GDP		Public expenditure per tertiary student as % of GDP per capita		Public expenditure on tertiary education as % of total public expenditure on education	
	2008	2013	2008	2013	2008	2013
North America						
Canada	1.61	1.88 ²	–	–	34.44	35.60 ²
United States of America	1.24	1.36 ²	20.43	20.08 ²	23.33	26.11 ²
Latin America						
Argentina	0.77	1.02 ¹	13.29	15.44 ¹	17.66	19.94 ¹
Belize	0.52	0.59 ¹	25.90	22.66 ¹	9.19	–
Bolivia	2.05	1.61 ¹	–	–	29.09	25.00 ¹
Brazil	0.86	1.04 ¹	27.67	28.49 ¹	15.91	16.37 ¹
Chile	0.55	0.96 ¹	11.51	15.01 ¹	14.51	21.12 ¹
Colombia	0.86	0.87	26.17	20.01	22.05	17.73
Costa Rica	–	1.43	–	33.83	–	20.75
Ecuador	1.08 ⁺²	1.11 ¹	–	–	26.58 ⁺²	26.66 ¹
El Salvador	0.42 ⁺¹	0.29 ²	17.85 ⁺¹	11.18 ²	10.46 ⁺¹	8.39 ²
Guatemala	0.34	0.35	–	18.43	10.80	12.30
Guyana	0.25 ⁺¹	0.16 ¹	27.06 ⁺¹	14.52 ¹	7.34 ⁺¹	5.06 ¹
Honduras	0.89 ⁺²	1.08	39.92 ⁺²	47.74	–	18.49
Mexico	0.92	0.93 ²	40.16	37.34 ²	18.86	18.13 ²
Nicaragua	1.14 ⁺²	1.14 ³	–	–	26.05 ⁺²	26.05 ³
Panama	–	0.74 ¹	–	20.13 ¹	–	–
Paraguay	0.70 ⁺²	1.11 ¹	20.03 ⁺²	–	18.54 ⁺²	22.40 ¹
Peru	0.45	0.55	–	–	15.71	16.82
Suriname	–	–	–	–	–	–
Uruguay	–	1.19 ²	–	–	–	26.83 ²
Venezuela	1.55 ⁺¹	–	20.92 ⁺¹	–	22.60 ⁺¹	–
Caribbean						
Antigua and Barbuda	0.19 ⁺¹	–	15.63 ⁺¹	–	7.35 ⁺¹	–
Bahamas	–	–	–	–	–	–
Barbados	1.53	2.08	–	–	30.09	–
Cuba	5.34	4.47 ³	61.10	62.99 ³	37.98	34.83 ³
Dominica	–	–	–	–	–	–
Dominican Rep.	–	– ¹	–	– ¹	–	– ¹
Grenada	–	–	–	–	–	–
Haiti	–	–	–	–	–	–
Jamaica	0.97	1.10	42.38	40.09	15.71	17.61
St Kitts and Nevis	–	–	–	–	–	–
St Lucia	0.24 ⁺¹	0.21 ²	14.66 ⁺¹	14.54 ²	6.30 ⁺¹	5.01 ²
St Vincent and the Grenadines	0.31 ⁺¹	0.36 ³	–	–	5.42 ⁺¹	7.01 ³
Trinidad and Tobago	–	–	–	–	–	–
European Union						
Austria	1.44	1.51 ²	42.09	35.00 ²	27.19	26.86 ²
Belgium	1.34	1.43 ¹	35.66	33.33 ¹	21.32	22.00 ²
Bulgaria	0.84	0.62 ²	23.70	16.04 ²	19.40	16.98 ²
Croatia	0.94	0.92 ²	28.99	25.61 ²	21.96	22.16 ²
Cyprus	1.85	1.48 ²	57.03	39.23 ²	24.99	20.45 ²
Czech Rep.	0.89	1.11 ²	23.54	26.00 ²	23.71	25.79 ²
Denmark	2.12	2.39 ²	50.50	51.31 ²	28.30	27.90 ²
Estonia	1.10	1.28 ²	21.51	24.56 ²	19.87	25.09 ²
Finland	1.81	2.06 ¹	31.11	36.14 ¹	31.00	28.56 ¹
France	1.21	1.23 ¹	35.94	35.28 ¹	22.20	22.34 ¹
Germany	1.18	1.35 ²	–	–	26.65	28.13 ²
Greece	–	–	–	–	–	–
Hungary	1.01	0.80 ¹	24.39	20.93 ¹	20.01	23.39 ²
Ireland	1.27	1.27 ²	32.00	29.64 ²	23.26	21.73 ²
Italy	0.81	0.80 ²	23.56	24.19 ²	18.33	19.36 ²
Latvia	0.99	0.95 ¹	16.88	19.93 ¹	17.33	20.72 ¹
Lithuania	1.03	1.47 ²	16.15	23.82 ²	21.20	28.45 ²
Luxembourg	–	–	–	–	–	–
Malta	1.03	1.50 ¹	44.71	51.52 ¹	17.69	22.17 ¹
Netherlands	1.42	1.59 ¹	38.82	33.51 ¹	27.77	28.79 ¹
Poland	1.04	1.11 ²	18.35	20.55 ²	20.54	22.82 ²
Portugal	0.91	1.01 ²	25.47	26.88 ²	19.34	19.70 ²
Romania	1.20 ⁺¹	0.78 ¹	22.24 ⁺¹	–	28.28 ⁺¹	26.16 ¹
Slovakia	0.76	0.94 ¹	17.89	23.08 ¹	21.53	23.98 ¹
Slovenia	1.19	1.35 ²	20.83	25.83 ²	23.30	24.20 ²
Spain	1.04	0.97 ¹	26.80	23.18 ¹	23.08	22.31 ¹
Sweden	1.73	1.89 ²	39.11	38.47 ²	27.01	29.08 ²
United Kingdom	0.80	1.27 ²	21.18	32.01 ²	15.71	22.10 ²
South-East Europe						
Albania	–	–	–	–	–	–
Bosnia and Herzegovina	–	–	–	–	–	–
Macedonia, FYR	–	–	–	–	–	–
Montenegro	–	–	–	–	–	–
Serbia	1.29	1.29 ¹	39.75	40.06 ¹	27.30	29.12 ¹
Other Europe and West Asia						
Armenia	0.36	0.20	7.54	5.07	11.29	8.72
Azerbaijan	0.28	0.36 ²	13.45	18.05 ²	11.34	14.63 ²
Belarus	0.91 ⁺¹	0.93	15.56 ⁺¹	15.62	20.07 ⁺¹	17.58
Georgia	0.34	0.38 ¹	11.40	17.18 ¹	11.58	19.17 ¹

Table S4: Public expenditure on tertiary education, 2008 and 2013

	Public expenditure on tertiary education as % of GDP		Public expenditure per tertiary student as % of GDP per capita		Public expenditure on tertiary education as % of total public expenditure on education	
	2008	2013	2008	2013	2008	2013
Iran, Islamic Rep. of	0.99	0.84	20.95	14.77	20.67	22.94
Israel	0.89	0.91 ⁻²	20.10	19.41 ⁻²	16.00	16.22 ⁻²
Moldova, Rep. of	1.54	1.47 ⁻¹	38.18	41.83 ⁻¹	18.65	17.56 ⁻¹
Russian Federation	0.95	–	14.25	–	23.11	–
Turkey	–	–	–	–	–	–
Ukraine	2.03	2.16 ⁻¹	32.93	41.17 ⁻¹	31.53	32.41 ⁻¹
European Free Trade Assoc.						
Iceland	1.42	1.37 ⁻²	27.17	23.17 ⁻²	19.70	19.42 ⁻²
Liechtenstein	–	–	–	–	–	–
Norway	2.05	1.96 ⁻²	45.91	42.23 ⁻²	31.99	29.89 ⁻²
Switzerland	1.27 ⁺¹	1.33 ⁻¹	42.19 ⁺¹	39.40 ⁻¹	25.14 ⁺¹	26.31 ⁻¹
Sub-Saharan Africa						
Angola	–	–	–	–	–	–
Benin	0.72	1.05	102.67	–	17.64	21.04
Botswana	3.94 ⁺¹	–	159.02 ⁺¹	–	41.51 ⁺¹	–
Burkina Faso	0.74 ⁺²	0.93	225.08 ⁺²	210.92	18.84 ⁺²	21.72
Burundi	1.10	1.31	434.66	297.08	21.21	24.23
Cabo Verde	0.62	0.78	45.28	29.76	11.27	15.82
Cameroon	0.26	0.23 ⁻¹	34.74	–	8.85	7.77 ⁻¹
Central African Rep.	0.23	0.34 ⁻²	99.63	111.93 ⁻²	17.48	27.29 ⁻²
Chad	0.29 ⁺¹	0.37 ⁻²	159.53 ⁺¹	182.41 ⁻²	12.38 ⁺¹	16.28 ⁻²
Comoros	1.14	–	–	–	14.61	–
Congo	0.68 ⁺²	0.71	–	84.71	10.87 ⁺²	–
Congo, Dem. Rep. of	0.37 ⁺²	0.37 ⁻³	–	–	24.00 ⁺²	24.00 ⁻³
Côte d'Ivoire	–	–	–	–	–	–
Djibouti	0.74 ⁺²	0.74 ⁻³	191.60 ⁺²	191.60 ⁻³	16.50 ⁺²	16.50 ⁻³
Equatorial Guinea	–	–	–	–	–	–
Eritrea	–	–	–	–	–	–
Ethiopia	0.16 ⁺²	0.16 ⁻³	24.21 ⁺²	24.21 ⁻³	3.54 ⁺²	3.54 ⁻³
Gabon	–	–	–	–	–	–
Gambia	0.32	0.30 ⁻¹	–	–	9.03	7.36 ⁻¹
Ghana	1.49	1.07 ⁻²	180.80	92.78 ⁻²	25.85	13.13 ⁻²
Guinea	0.84	1.23	107.93	131.61	34.42	34.64
Guinea-Bissau	–	–	–	–	–	–
Kenya	–	–	–	–	–	–
Lesotho	4.72	–	–	–	36.38	–
Liberia	–	0.10 ⁻¹	–	9.34 ⁻¹	–	3.56 ⁻¹
Madagascar	0.45	0.29	143.53	67.49	15.36	13.74
Malawi	1.30 ⁺²	2.18	–	–	29.80 ⁺²	28.36
Mali	0.61	0.85 ⁻¹	118.71	130.04 ⁻¹	16.06	20.34 ⁻¹
Mauritius	0.33	0.29	15.85	8.92	10.21	8.02
Mozambique	–	0.91	–	183.43	–	13.69
Namibia	0.64	1.93 ⁻³	–	–	9.91	23.09 ⁻³
Niger	0.34	0.80 ⁻¹	396.20	631.00 ⁻¹	9.41	17.61 ⁻¹
Nigeria	–	–	–	–	–	–
Rwanda	0.96	0.71	217.70	104.75	25.41	14.02
Sao Tome and Principe	–	–	–	–	–	–
Senegal	1.24	1.38 ⁻³	166.00	193.48 ⁻³	24.55	24.57 ⁻³
Seychelles	–	1.18 ⁻²	–	545.71 ⁻²	–	32.51 ⁻²
Sierra Leone	0.50	0.73	–	–	20.83	25.93
Somalia	–	–	–	–	–	–
South Africa	0.63	0.74	–	38.73	13.01	12.41
South Sudan	–	0.20 ⁻²	–	–	–	25.34 ⁻²
Swaziland	1.62	1.01 ⁻²	–	–	21.55	12.84 ⁻²
Tanzania	1.27	0.76 ⁺¹	–	–	29.85	21.40 ⁺¹
Togo	0.69	0.98	–	102.75	20.10	22.21
Uganda	0.37 ⁺¹	0.30	108.51 ⁺¹	–	11.30 ⁺¹	13.76
Zambia	–	–	–	–	–	–
Zimbabwe	0.27 ⁺¹	0.45 ⁻³	–	62.00 ⁻³	–	22.82 ⁻³
Arab states						
Algeria	1.17	–	–	–	26.97	–
Bahrain	–	0.60	–	–	–	–
Egypt	–	–	–	–	–	–
Iraq	–	–	–	–	–	–
Jordan	–	–	–	–	–	–
Kuwait	–	–	–	–	–	–
Lebanon	0.59	0.74	12.55	15.55	28.98	28.74
Libya	–	–	–	–	–	–
Mauritania	0.67	0.46	190.41	93.30	16.72	11.58
Morocco	0.90	1.11	70.73	–	16.23	17.70
Oman	1.13 ⁺¹	–	39.60 ⁺¹	–	26.88 ⁺¹	–
Palestine	–	–	–	–	–	–
Qatar	–	–	–	–	–	–
Saudi Arabia	–	–	–	–	–	–
Sudan	–	–	–	–	–	–
Syrian Arab Rep.	1.15	1.24 ⁻⁴	44.77	49.00 ⁻⁴	24.94	24.22 ⁻⁴
Tunisia	1.57	1.75	–	56.59	25.00	–
United Arab Emirates	–	–	–	–	–	–
Yemen	–	–	–	–	–	–

	Public expenditure on tertiary education as % of GDP		Public expenditure per tertiary student as % of GDP per capita		Public expenditure on tertiary education as % of total public expenditure on education	
	2008	2013	2008	2013	2008	2013
Central Asia						
Kazakhstan	0.36	0.40 ⁴	–	–	13.90	13.13 ⁴
Kyrgyzstan	0.97	0.89 ¹	19.04	–	16.44	12.03 ¹
Mongolia	0.36 ⁺²	0.21 ⁻²	5.89 ⁺²	3.37 ⁻²	6.68 ⁺²	3.83 ⁻²
Tajikistan	0.49	0.46	18.93	19.33	14.25	–
Turkmenistan	–	0.28 ¹	–	–	–	9.23 ¹
Uzbekistan	–	–	–	–	–	–
South Asia						
Afghanistan	–	–	–	–	–	–
Bangladesh	0.27	0.23 ⁻²	30.83	17.44 ⁻²	13.26	–
Bhutan	0.93	1.02	150.89	102.12	19.40	18.23
India	1.17 ⁺¹	1.28 ¹	74.31 ⁺¹	54.88 ⁻¹	36.45 ⁺¹	33.19 ⁻¹
Maldives	–	0.58 ⁻¹	–	–	–	9.35 ⁻¹
Nepal	0.51	0.50 ⁻³	46.63	35.39 ⁻³	13.46	10.65 ⁻³
Pakistan	–	0.80	–	75.18	–	32.23
Sri Lanka	0.37 ⁺¹	0.32 ⁻¹	–	24.19 ⁻¹	18.19 ⁺¹	18.73 ⁻¹
South-East Asia						
Brunei Darussalam	0.50 ⁺²	1.20 ⁺¹	32.22 ⁺²	57.09 ⁺¹	24.38 ⁺²	31.92 ⁺¹
Cambodia	0.38 ⁺²	0.38 ⁻³	27.83 ⁺²	27.83 ⁻³	14.54 ⁺²	14.54 ⁻³
China	–	–	–	–	–	–
China, Hong Kong SAR	1.02	1.16 ⁻¹	27.81	30.37 ⁻¹	31.16	33.02 ⁻¹
China, Macao SAR	0.82	2.28 ⁻¹	16.30	49.03 ⁻¹	36.64	68.14 ⁻¹
Indonesia	0.32	0.61 ⁻¹	16.89	24.27 ⁻¹	10.98	17.18 ⁻¹
Japan	0.65	0.76	21.09	–	18.86	20.00
Korea, DPR	–	–	–	–	–	–
Korea, Rep. of	0.62	0.86	9.49	–	13.92	–
Lao PDR	–	–	–	–	–	–
Malaysia	2.15 ⁺¹	2.19 ⁻²	59.63 ⁺¹	60.88 ⁻²	35.94 ⁺¹	36.97 ⁻²
Myanmar	–	–	–	–	–	–
Philippines	0.28	0.32 ⁻⁴	9.66	10.51 ⁻⁴	10.42	11.96 ⁻⁴
Singapore	0.91	1.04	–	22.59	32.59	35.28
Thailand	0.79	0.71 ⁻¹	21.63	19.52 ⁻¹	21.18	14.42 ⁻¹
Timor-Leste	0.93 ⁺¹	1.87 ⁻²	58.52 ⁺¹	–	8.14 ⁺¹	19.79 ⁻²
Viet Nam	1.08	1.05 ⁻¹	55.71	41.24 ⁻¹	22.16	16.67 ⁻¹
Oceania						
Australia	1.04	1.18 ⁻²	19.78	19.99 ⁻²	22.46	23.20 ⁻²
New Zealand	1.62	1.86 ⁻¹	27.94	31.46 ⁻¹	28.92	25.33 ⁻¹
Cook Islands	–	a ⁻	–	a ⁻	–	a ⁻
Fiji	–	0.56 ⁻²	–	–	–	12.96 ⁻²
Kiribati	–	–	–	–	–	–
Marshall Islands	–	–	–	–	–	–
Micronesia	–	–	–	–	–	–
Nauru	–	–	–	–	–	–
Niue	–	–	–	–	–	–
Palau	–	–	–	–	–	–
Papua New Guinea	–	–	–	–	–	–
Samoa	–	–	–	–	–	–
Solomon Islands	–	–	–	–	–	–
Tonga	–	–	–	–	–	–
Tuvalu	–	–	–	–	–	–
Vanuatu	0.34	–	–	–	5.86	–

Source: UNESCO Institute for Statistics

N.B.: See key to all tables at the end of Table S10.

Table S5: Tertiary graduates in 2008 and 2013 and graduates in science, engineering, agriculture and health in 2013

	2008		2013					
	Tertiary graduates		Tertiary graduates		Science			
	MF (000s)	Females (%)	MF (000s)	Females (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)
North America								
Canada	-	-	-	-	-	-	-	-
United States of America	2 782.27	58.5	3 308.49 ¹	58.4 ¹	41.14 ¹	235.23 ¹	16.67 ¹	40.94 ¹
Latin America								
Argentina	235.86	65.7	123.24 ¹	60.8 ¹	9.07 ²	5.65 ²	0.73 ²	-
Belize	-	-	-	-	0.30	-	a	a
Bolivia	-	-	-	-	-	-	-	-
Brazil	917.11	60.3	1 111.46 ¹	60.8 ¹	18.30 ¹	40.10 ¹	-	-
Chile	92.23	54.0	147.55 ¹	56.0 ¹	4.29 ¹	2.82 ¹	0.24 ¹	40.00 ¹
Colombia	134.92	42.6	344.07	55.3	9.06	5.36	0.08	35.44
Costa Rica	38.16 ⁺²	63.3 ⁺²	44.58	63.2	0.28	2.34	0.01	42.86
Ecuador	70.19	58.8	79.19 ¹	58.5 ¹	1.54 ¹	-	0 ¹	a ¹
El Salvador	15.80	58.2	23.62	56.6	0	0.24	0	a
Guatemala	-	-	20.83	58.3	-	-	-	-
Guyana	1.75	70.0	1.84 ¹	74.9 ¹	0 ¹	0.11 ¹	a ¹	a ¹
Honduras	15.41 ⁺²	-	18.67	63.1	0.01	0.52	a	a
Mexico	420.48	54.3	533.87 ¹	53.5 ¹	0.50 ¹	28.29 ¹	0.79 ¹	46.56 ¹
Nicaragua	-	-	-	-	-	-	-	-
Panama	21.06	66.0	22.79 ¹	65.4 ¹	0.27 ¹	-	0 ¹	a ¹
Paraguay	-	-	-	-	0.18 ¹	-	-	-
Peru	-	-	-	-	14.00 ¹	-	-	-
Suriname	-	-	-	-	-	-	-	-
Uruguay	9.47	65.1	-	-	0.02 ³	0.55 ³	0.03 ³	66.67 ³
Venezuela	-	-	-	-	-	-	-	-
Caribbean								
Antigua and Barbuda	0.15 ⁺¹	77.0 ⁺¹	0.25 ¹	87.8 ¹	0.01 ¹	0.00 ¹	0 ¹	a ¹
Bahamas	-	-	-	-	-	-	-	-
Barbados	2.26 ⁺²	-	2.39 ²	68.4 ²	0.13 ²	0.18 ²	0.00 ²	100.00 ²
Cuba	103.76	47.9	133.29	62.6	a	3.57	0.08	39.74
Dominica	-	-	-	-	-	-	-	-
Dominican Rep.	-	-	41.11 ¹	64.1 ¹	0.00 ¹	-	a ¹	a ¹
Grenada	-	-	-	-	-	-	-	-
Haiti	-	-	-	-	-	-	-	-
Jamaica	-	-	-	-	-	-	-	-
St Kitts and Nevis	-	-	-	-	-	-	-	-
St Lucia	-	-	0.58	-	0	-	a	a
St Vincent and the Grenadines	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-
European Union								
Austria	43.65	51.6	85.28	56.0	1.12	5.97	0.60	35.93
Belgium	97.25	58.7	110.42 ¹	59.3 ¹	1.55 ¹	3.82 ¹	0.52 ¹	34.87 ¹
Bulgaria	54.91	61.4	64.09 ¹	60.8 ¹	0.06 ¹	2.91 ¹	0.16 ¹	52.90 ¹
Croatia	26.94	58.4	39.82 ¹	59.3 ¹	0.73 ¹	2.38 ¹	0.24 ¹	60.25 ¹
Cyprus	4.23	61.6	6.17 ¹	60.3 ¹	0.09 ¹	0.41 ¹	0.02 ¹	52.63 ¹
Czech Rep.	88.98	58.1	107.77 ¹	62.2 ¹	0.30 ¹	9.07 ¹	0.72 ¹	39.97 ¹
Denmark	49.75	57.8	66.47	57.5	0.46	4.70	0.34	35.22
Estonia	11.35	69.3	11.44 ¹	67.5 ¹	0.19 ¹	0.90 ¹	0.08 ¹	52.63 ¹
Finland	43.01 ⁺¹	62.8 ⁺¹	52.73	60.1	0	3.42	0.34	39.35
France	628.09	54.9	726.54	56.1	6.22	55.64	6.50	40.01
Germany	-	-	-	-	-	-	-	-
Greece	66.96	59.3	66.33 ¹	59.1 ¹	1.64 ¹	6.24 ¹	0.29 ¹	33.33 ¹
Hungary	63.33	66.8	69.92 ¹	64.0 ¹	0.60 ¹	3.47 ¹	0.29 ¹	37.54 ¹
Ireland	60.07	56.3	60.02 ¹	54.5 ¹	1.40 ¹	5.23 ¹	0.51 ¹	45.12 ¹
Italy	398.19	59.5	374.99 ¹	62.3 ¹	0 ¹	24.97 ¹	2.69 ¹	52.58 ¹
Latvia	24.17	71.5	21.61	69.0	0.18	1.04	0.07	54.41
Lithuania	42.55	66.7	39.27	63.3	a	2.05	0.08	49.35
Luxembourg	0.34	49.4	1.57	53.6	0.00	0.13	0.03	32.00
Malta	2.79	59.4	3.46 ¹	57.4 ¹	0.15 ¹	0.22 ¹	0.00 ¹	0 ¹
Netherlands	124.23	56.7	152.05 ¹	56.5 ¹	0.01 ¹	8.64 ¹	0.83 ¹	33.41 ¹
Poland	558.02	65.8	638.96 ¹	66.0 ¹	a	38.20	-	-
Portugal	84.01	59.6	94.87	59.8	a	6.57	0.93	54.03
Romania	311.48	63.7	259.63 ²	61.6 ²	a ²	12.56 ²	0.52 ²	53.74 ²
Slovakia	65.03	64.2	70.03	63.6	0.01	4.81	0.34	53.35
Slovenia	17.22	62.8	20.60 ¹	60.3 ¹	0.23 ¹	1.29 ¹	0.15 ¹	38.96 ¹
Spain	291.04	58.4	391.96 ¹	56.2 ¹	4.10 ¹	23.27 ¹	3.48 ¹	47.42 ¹
Sweden	60.43	63.5	69.14 ¹	61.6 ¹	0.66 ¹	4.24 ¹	0.87 ¹	41.64 ¹
United Kingdom	676.20	57.9	791.95	57.1	14.70	105.01	8.49	45.59
South-East Europe								
Albania	15.65	64.4	30.37	65.0	a	2.13	0.04	44.19
Bosnia and Herzegovina	15.77	58.7	21.21	60.0	a	1.41	0.01	25.00
Macedonia, FYR	11.20	59.7	11.36	56.3	a	1.15	0.02	56.25
Montenegro	-	-	-	-	-	-	-	-
Serbia	36.33	60.4	47.80	58.4	a	4.73	0.12	58.33

2013												
Engineering, manufacturing and construction				Agriculture				Health and welfare				
Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	
-	-	-	-	-	-	-	-	-	-	-	-	
66.85 ⁻¹	161.86 ⁻¹	9.11 ⁻¹	23.33 ⁻¹	8.52 ⁻¹	25.05 ⁻¹	0.99 ⁻¹	44.31 ⁻¹	227.17 ⁻¹	330.11 ⁻¹	16.09 ⁻¹	72.64 ⁻¹	
5.72 ⁻²	8.68 ⁻²	0.09 ⁻²	45.45 ⁻²	1.50 ⁻²	3.27 ⁻²	0.08 ⁻²	-	20.66 ⁻²	18.68 ⁻²	0.12 ⁻²	55.65 ⁻²	
0	-	a	a	0.02	-	a	a	0	-	a	a	
-	-	-	-	-	-	-	-	-	-	-	-	
13.60 ⁻¹	60.94 ⁻¹	-	-	2.09 ⁻¹	16.75 ⁻¹	-	-	2.76 ⁻¹	158.82 ⁻¹	-	-	
11.99 ⁻¹	9.22 ⁻¹	0.08 ⁻¹	37.18 ⁻¹	1.28 ⁻¹	2.31 ⁻¹	0.04 ⁻¹	34.09 ⁻¹	17.22 ⁻¹	14.34 ⁻¹	0.03 ⁻¹	34.38 ⁻¹	
21.16	38.50	0.07	17.57	3.84	2.48	0.02	47.06	6.23	19.35	0.03	67.65	
0.14	2.78	0	a	0.10	0.60	0.00	0	0.07	6.32	0	a	
1.53 ⁻¹	-	0 ⁻¹	a ⁻¹	0.32 ⁻¹	-	0 ⁻¹	a ⁻¹	1.17 ⁻¹	-	0 ⁻¹	a ⁻¹	
2.70	2.31	0	a	0.14	0.19	0	a	1.66	2.36	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
0.14 ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	0.03 ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	0.25 ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	
0.04	2.11	a	a	0.05	0.59	a	a	0.08	1.29	a	a	
18.11 ⁻¹	95.23 ⁻¹	0.60 ⁻¹	39.53 ⁻¹	0.08 ⁻¹	8.70 ⁻¹	0.22 ⁻¹	46.33 ⁻¹	1.72 ⁻¹	46.32 ⁻¹	0.09 ⁻¹	61.29 ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
0.60 ⁻¹	-	0.00 ⁻¹	75.00 ⁻¹	0.04 ⁻¹	-	0 ⁻¹	a ⁻¹	0.47 ⁻¹	-	0 ⁻¹	a ⁻¹	
0.01 ⁻¹	-	-	-	0.02 ⁻¹	-	-	-	0.21 ⁻¹	-	-	-	
10.58 ⁻¹	-	-	-	3.71 ⁻¹	-	-	-	20.90 ⁻¹	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
0.02 ⁻³	0.57 ⁻³	0.00 ⁻³	33.33 ⁻³	0.06 ⁻³	0.33 ⁻³	0 ⁻³	a ⁻³	0.10 ⁻³	1.99 ⁻³	0.00 ⁻³	50.00 ⁻³	
-	-	-	-	-	-	-	-	-	-	-	-	
0 ⁻¹	0 ⁻¹	0 ⁻¹	a ⁻¹	0 ⁻¹	0 ⁻¹	0 ⁻¹	a ⁻¹	0.02 ⁻¹	0 ⁻¹	0 ⁻¹	a ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
0.04 ⁻²	0 ⁻²	a ⁻²	a ⁻²	0.00 ⁻²	0 ⁻²	a ⁻²	a ⁻²	0.17 ⁻²	0.03 ⁻²	0.00 ⁻²	100.00 ⁻²	
a	1.87	0.06	40.35	a	2.70	0.05	40.38	a	43.21	0.07	39.44	
-	-	-	-	-	-	-	-	-	-	-	-	
0.13 ⁻¹	-	a ⁻¹	a ⁻¹	0.04 ⁻¹	-	a ⁻¹	a ⁻¹	0.06 ⁻¹	-	a ⁻¹	a ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	a	a	0.03	-	a	a	0.05	-	a	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
8.59	7.05	0.43	26.30	0.68	0.53	0.07	59.15	0.52	4.92	0.22	59.00	
3.05 ⁻¹	8.67 ⁻¹	0.56 ⁻¹	30.59 ⁻¹	0.76 ⁻¹	1.57 ⁻¹	0.12 ⁻¹	46.96 ⁻¹	12.28 ⁻¹	10.16 ⁻¹	0.51 ⁻¹	59.49 ⁻¹	
0.64 ⁻¹	8.98 ⁻¹	0.15 ⁻¹	32.41 ⁻¹	0.01 ⁻¹	1.00 ⁻¹	0.03 ⁻¹	40.63 ⁻¹	0.55 ⁻¹	3.62 ⁻¹	0.09 ⁻¹	50.55 ⁻¹	
1.42 ⁻¹	4.56 ⁻¹	0.16 ⁻¹	34.16 ⁻¹	0.32 ⁻¹	1.11 ⁻¹	0.10 ⁻¹	36.89 ⁻¹	1.46 ⁻¹	1.44 ⁻¹	0.24 ⁻¹	53.36 ⁻¹	
0.04 ⁻¹	0.76 ⁻¹	0.01 ⁻¹	37.50 ⁻¹	0.01 ⁻¹	0.03 ⁻¹	0 ⁻¹	a ⁻¹	0.07 ⁻¹	0.17 ⁻¹	0 ⁻¹	a ⁻¹	
0.44 ⁻¹	12.21 ⁻¹	0.55 ⁻¹	22.57 ⁻¹	0.08 ⁻¹	3.70 ⁻¹	0.18 ⁻¹	51.37 ⁻¹	3.02 ⁻¹	7.21 ⁻¹	0.20 ⁻¹	48.04 ⁻¹	
1.93	5.63	0.48	28.84	0.20	0.49	0.21	53.81	0.36	13.09	0.50	60.92	
0.39 ⁻¹	0.94 ⁻¹	0.03 ⁻¹	27.27 ⁻¹	0.01 ⁻¹	0.25 ⁻¹	0.01 ⁻¹	88.89 ⁻¹	0.97 ⁻¹	0.38 ⁻¹	0.01 ⁻¹	50.00 ⁻¹	
0	10.48	0.45	30.38	0	1.03	0.06	61.82	0	10.41	0.33	66.36	
46.05	61.59	1.80	31.81	4.31	4.59	0	a	31.78	81.81	0.38	55.97	
-	-	-	-	-	-	-	-	-	-	-	-	
5.24 ⁻¹	5.32 ⁻¹	0.28 ⁻¹	27.14 ⁻¹	1.30 ⁻¹	1.49 ⁻¹	0.08 ⁻¹	41.77 ⁻¹	3.85 ⁻¹	3.27 ⁻¹	0.57 ⁻¹	50.62 ⁻¹	
0.19 ⁻¹	7.18 ⁻¹	0.10 ⁻¹	22.22 ⁻¹	0.16 ⁻¹	1.17 ⁻¹	0.10 ⁻¹	58.76 ⁻¹	1.07 ⁻¹	4.69 ⁻¹	0.20 ⁻¹	51.78 ⁻¹	
2.90 ⁻¹	4.02 ⁻¹	0.20 ⁻¹	23.53 ⁻¹	0.45 ⁻¹	0.34 ⁻¹	0.02 ⁻¹	46.67 ⁻¹	2.44 ⁻¹	7.13 ⁻¹	0.21 ⁻¹	54.93 ⁻¹	
0 ⁻¹	45.82 ⁻¹	2.04 ⁻¹	35.46 ⁻¹	0 ⁻¹	6.60 ⁻¹	0.69 ⁻¹	53.78 ⁻¹	0 ⁻¹	59.25 ⁻¹	1.24 ⁻¹	100.00 ⁻¹	
0.36	2.16	0.06	32.76	0.03	0.20	0.01	30.00	1.51	2.40	0.03	80.00	
a	6.47	0.12	38.84	a	0.68	0.02	61.90	a	4.40	0.05	80.77	
0.01	79.00	0.01	22.22	0	0.00	0	a	0.04	-	0	a	
0.10 ⁻¹	0.19 ⁻¹	0.00 ⁻¹	0 ⁻¹	0.01 ⁻¹	0 ⁻¹	0 ⁻¹	a ⁻¹	0.01 ⁻¹	0.66 ⁻¹	0.00 ⁻¹	50.00 ⁻¹	
0.08 ⁻¹	11.50 ⁻¹	1.02 ⁻¹	25.71 ⁻¹	0.02 ⁻¹	1.53 ⁻¹	0.21 ⁻¹	58.69 ⁻¹	0.22 ⁻¹	25.54 ⁻¹	0.73 ⁻¹	66.62 ⁻¹	
a	65.99	-	-	a	8.16	-	-	0.37	71.17	-	-	
a	16.40	0.86	39.09	a	1.37	0.05	59.18	a	15.93	0.39	66.33	
0.01 ⁻²	37.12 ⁻²	2.18 ⁻²	38.63 ⁻²	a ⁻²	3.99 ⁻²	0.30 ⁻²	52.96 ⁻²	0.14 ⁻²	27.37 ⁻²	0.77 ⁻²	62.84 ⁻²	
0.02	8.65	0.52	33.40	0	1.18	0.06	53.57	0.22	12.79	0.22	65.02	
1.55 ⁻¹	1.77 ⁻¹	0.10 ⁻¹	28.28 ⁻¹	0.17 ⁻¹	0.35 ⁻¹	0.06 ⁻¹	67.86 ⁻¹	0.31 ⁻¹	0.99 ⁻¹	0.05 ⁻¹	60.87 ⁻¹	
13.92 ⁻¹	41.54 ⁻¹	0.80 ⁻¹	30.30 ⁻¹	0.83 ⁻¹	4.47 ⁻¹	0.30 ⁻¹	56.38 ⁻¹	16.32 ⁻¹	40.43 ⁻¹	1.51 ⁻¹	56.42 ⁻¹	
2.39 ⁻¹	10.88 ⁻¹	0.83 ⁻¹	25.93 ⁻¹	0.35 ⁻¹	0.40 ⁻¹	0.06 ⁻¹	53.45 ⁻¹	0.91 ⁻¹	15.38 ⁻¹	0.97 ⁻¹	62.37 ⁻¹	
10.32	57.31	3.59	24.41	2.10	5.00	0.31	54.89	35.96	84.04	4.30	57.03	
-	-	-	-	-	-	-	-	-	-	-	-	
a	2.24	0.01	20.00	a	0.97	0.02	31.25	a	4.40	0.01	91.67	
a	1.75	0.03	14.71	a	0.82	0.01	50.00	a	2.37	0.06	63.33	
a	1.21	0.03	36.36	a	0.29	0.01	80.00	a	0.93	0.03	54.84	
-	-	-	-	-	-	-	-	-	-	-	-	
a	7.31	0.16	37.50	a	1.08	0.06	32.20	a	4.40	0.23	59.05	

Table S5: Tertiary graduates in 2008 and 2013 and graduates in science, engineering, agriculture and health in 2013

	2008		2013					
	Tertiary graduates		Tertiary graduates		Science			
	MF (000s)	Females (%)	MF (000s)	Females (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)
Other Europe and West Asia								
Armenia	35.00 ⁺²	61.5 ⁺²	–	–	0 ³	2.52 ³	0.11 ⁻³	22.52 ³
Azerbaijan	49.20	53.5	47.04 ⁻¹	52.1 ⁻¹	0.19 ⁻¹	4.27 ⁻¹	0.10 ⁻¹	27.00 ⁻¹
Belarus	112.88	–	137.46	60.8	0	2.43	0.21	50.48
Georgia	17.73 ⁺²	60.4 ⁺²	17.68	56.8	0.43	1.64	0.06	55.56
Iran, Islamic Rep. of	457.57 ⁺¹	52.0 ⁺¹	716.10	45.6	1.19	53.83	0.77	40.08
Israel	–	–	–	–	–	–	–	–
Moldova, Rep. of	27.06	58.4	34.81	59.6	0.48	1.28	0.05	55.56
Russian Federation	2 064.47 ⁺¹	–	–	–	30.32 ⁻²	97.20 ⁻²	–	–
Turkey	444.76	46.0	607.98 ⁻¹	47.1 ⁻¹	17.01 ⁻¹	34.19 ⁻¹	1.16 ⁻¹	50.73 ⁻¹
Ukraine	610.23	–	621.79	55.0	7.54	30.83	1.27	50.90
European Free Trade Assoc.								
Iceland	3.63	66.2	4.10 ⁻¹	64.5 ⁻¹	0.01 ⁻¹	0.31 ⁻¹	0.01 ⁻¹	35.71 ⁻¹
Liechtenstein	0.18	30.1	0.31 ⁻¹	30.2 ⁻¹	a ⁻¹	0 ⁻¹	0 ⁻¹	a ⁻¹
Norway	35.21	60.6	44.75	58.7	0.11	2.74	0.49	39.84
Switzerland	67.33	48.6	81.91	48.3	0.02	5.56	1.07	35.21
Sub-Saharan Africa								
Angola	–	–	13.55	48.0	–	–	–	–
Benin	14.64 ⁺¹	31.2 ⁺¹	16.71 ⁻²	29.7 ⁻²	–	–	–	–
Botswana	–	–	6.55	–	0.26	0.52	0	–
Burkina Faso	9.48 ⁺²	–	16.15	31.8	–	–	–	–
Burundi	2.79 ⁺²	28.4 ⁺²	7.31 ⁻¹	30.7 ⁻¹	0 ⁻¹	–	0 ⁻¹	a ⁻¹
Cabo Verde	–	–	–	–	–	0.12	0	a
Cameroon	33.99	–	36.31 ⁻²	–	–	–	–	–
Central African Rep.	–	–	–	–	–	–	–	–
Chad	–	–	–	–	–	–	–	–
Comoros	–	–	–	–	–	0.09	–	–
Congo	–	–	–	–	–	–	–	–
Congo, Dem. Rep. of	–	–	–	–	–	–	–	–
Côte d'Ivoire	–	–	–	–	–	–	–	–
Djibouti	0.64 ⁺¹	–	–	–	a ⁻²	–	a ⁻²	a ⁻²
Equatorial Guinea	–	–	–	–	–	–	–	–
Eritrea	3.02 ⁺²	–	2.71 ⁺¹	26.3 ⁺¹	0.03 ⁺¹	–	a ⁺¹	a ⁺¹
Ethiopia	65.37	24.1	–	–	0 ³	10.62 ³	0.01 ⁻³	0 ³
Gabon	–	–	–	–	–	–	–	–
Gambia	–	–	–	–	–	–	–	–
Ghana	–	–	79.74	40.7	1.12	6.46	0.01	12.50
Guinea	–	–	–	–	–	1.03	–	–
Guinea-Bissau	–	–	–	–	–	–	–	–
Kenya	–	–	–	–	–	–	–	–
Lesotho	–	–	4.75	65.2	0.04	0.07	0	a
Liberia	3.16 ⁺²	30.0 ⁺²	4.39 ⁻¹	38.2 ⁻¹	–	–	–	–
Madagascar	16.40	47.5	25.26	47.9	0.36	2.24	0.02	34.78
Malawi	–	–	–	–	–	–	–	–
Mali	–	–	–	–	–	–	–	–
Mauritius	–	–	–	–	–	–	–	–
Mozambique	7.05	44.6	10.26	44.9	a	0.21	0	a
Namibia	5.53	58.4	–	–	–	–	–	–
Niger	1.87	–	–	–	–	–	–	–
Nigeria	–	–	–	–	–	–	–	–
Rwanda	–	–	16.05 ⁻¹	42.7 ⁻¹	–	–	–	–
Sao Tome and Principe	a	a	–	–	a ⁻¹	–	a ⁻¹	a ⁻¹
Senegal	–	–	–	–	–	–	–	–
Seychelles	a	a	0.08	85.9	0	–	a	a
Sierra Leone	–	–	–	–	–	–	–	–
Somalia	–	–	–	–	–	–	–	–
South Africa	–	–	183.86 ⁻¹	59.8 ⁻¹	6.44 ⁻¹	–	0.57 ⁻¹	40.53 ⁻¹
South Sudan	–	–	–	–	–	–	–	–
Swaziland	–	–	2.53	38.8	0	0.28	0.01	37.50
Tanzania	–	–	–	–	–	–	–	–
Togo	–	–	–	–	–	–	–	–
Uganda	–	–	–	–	–	–	–	–
Zambia	–	–	–	–	–	–	–	–
Zimbabwe	30.51 ⁺²	45.2 ⁺²	13.64	47.6	0.85	0.46	0	a
Arab states								
Algeria	154.84 ⁺¹	62.5 ⁺¹	255.44	62.1	–	23.47	–	–
Bahrain	–	–	5.28 ⁺¹	60.5 ⁺¹	0.17 ⁺¹	0.23 ⁺¹	0.00 ⁺¹	50.00 ⁺¹
Egypt	–	–	510.36	52.1	0	20.85	0.60	45.13
Iraq	–	–	–	–	–	–	–	–
Jordan	–	–	60.69 ⁻²	48.4 ⁻²	0.44 ⁻²	2.79 ⁻²	0.03 ⁻²	52.00 ⁻²
Kuwait	–	–	12.72	58.3	a	0.23	a	a
Lebanon	32.30	55.3	54.21	55.8	0 ⁻²	3.74 ⁻²	0.00 ⁻²	100.00 ⁻²
Libya	–	–	–	–	–	–	–	–
Mauritania	–	–	–	–	–	–	a	a
Morocco	62.73	32.0	–	–	–	–	–	–

2013												
Engineering, manufacturing and construction				Agriculture				Health and welfare				
Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	
0.20 ⁻³	2.68 ⁻³	0.06 ⁻³	10.17 ⁻³	0.17 ⁻³	1.09 ⁻³	0.02 ⁻³	43.75 ⁻³	3.74 ⁻³	0.89 ⁻³	0.03 ⁻³	17.24 ⁻³	
0.90 ⁻¹	2.11 ⁻¹	0.05 ⁻¹	13.33 ⁻¹	0.03 ⁻¹	0.08 ⁻¹	0.02 ⁻¹	31.58 ⁻¹	2.03 ⁻¹	1.57 ⁻¹	0.02 ⁻¹	39.13 ⁻¹	
17.02	15.98	0.22	37.05	5.98	4.73	0.09	50.00	3.17	3.56	0.18	51.67	
0.23	1.03	0.07	40.00	0.08	0.44	0.01	36.36	0.17	2.09	0.03	63.64	
102.68	155.87	0.62	17.10	4.77	20.98	0.29	27.59	2.98	18.05	2.31	42.73	
-	-	-	-	-	-	-	-	-	-	-	-	
2.61	4.50	0.04	45.95	0.14	0.47	0.01	30.77	1.23	-	0.06	43.86	
179.08 ⁻²	246.39 ⁻²	-	-	8.43 ⁻²	20.49 ⁻²	-	-	64.30 ⁻²	48.11 ⁻²	-	-	
43.18 ⁻¹	30.96 ⁻¹	0.63 ⁻¹	34.39 ⁻¹	11.39 ⁻¹	7.82 ⁻¹	0.25 ⁻¹	38.15 ⁻¹	12.85 ⁻¹	21.43 ⁻¹	4.61 ⁻¹	46.33 ⁻¹	
40.49	84.38	1.58	35.47	5.67	14.52	0.41	51.09	22.45	15.27	0.46	59.35	
0 ⁻¹	0.41 ⁻¹	0.00 ⁻¹	33.33 ⁻¹	0.00 ⁻¹	0.03 ⁻¹	0 ⁻¹	a ⁻¹	0 ⁻¹	0.58 ⁻¹	0.01 ⁻¹	76.92 ⁻¹	
a ⁻¹	0.04 ⁻¹	0.00 ⁻¹	0 ⁻¹	a ⁻¹	0 ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	0 ⁻¹	0.01 ⁻¹	100.00 ⁻¹	
1.71	3.74	0.15	22.88	0.02	0.29	0.02	42.86	0.05	9.04	0.47	58.51	
0.04	10.90	0.47	25.75	0	1.32	0.11	81.13	0.27	9.61	0.85	53.72	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
0.26	0.20	0	-	0.03	0.14	0	-	0.57	0.11	0	-	
-	-	-	-	-	-	-	-	-	-	-	-	
0 ⁻¹	-	0 ⁻¹	a ⁻¹	0 ⁻¹	-	0 ⁻¹	a ⁻¹	0 ⁻¹	-	0.15 ⁻¹	20.95 ⁻¹	
-	-	0	a	-	-	0	a	-	-	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
a ⁻²	0 ⁻²	a ⁻²	a ⁻²	a ⁻²	0 ⁻²	a ⁻²	a ⁻²	a ⁻²	0 ⁻²	a ⁻²	a ⁻²	
-	-	-	-	-	-	-	-	-	-	-	-	
0.51 ⁺¹	-	a ⁺¹	a ⁺¹	0.07 ⁺¹	-	a ⁺¹	a ⁺¹	0.11 ⁺¹	-	a ⁺¹	a ⁺¹	
0 ⁻³	5.01 ⁻³	0 ⁻³	a ⁻³	0 ⁻³	7.87 ⁻³	0.01 ⁻³	0 ⁻³	0 ⁻³	5.40 ⁻³	0.10 ⁻³	17.71 ⁻³	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
2.47	3.09	0.00	0	0.91	1.59	0.02	25.00	1.55	2.68	0.01	16.67	
-	2.18	-	-	-	0.90	-	-	-	2.89	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
0.13	-	0	a	0.10	0.05	0	a	0.51	0.10	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
0.40	2.08	0.02	0	0.01	0.29	0.00	50.00	0.27	0.61	0.24	57.87	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
a	0.38	0.01	0	a	0.47	0	a	a	0.56	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
a ⁻¹	-	a ⁻¹	a ⁻¹	a ⁻¹	-	a ⁻¹	a ⁻¹	a ⁻¹	-	a ⁻¹	a ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
0	-	a	a	0	-	a	a	0	-	a	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
5.73 ⁻¹	-	0.15 ⁻¹	17.57 ⁻¹	1.37 ⁻¹	-	0.09 ⁻¹	39.78 ⁻¹	2.07 ⁻¹	-	0.17 ⁻¹	62.72 ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
0	0.13	0	a	0	0.15	0.01	42.86	0	0.33	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
2.70	0.00	0	a	0.02	0.26	0	a	0.18	-	0	a	
-	30.68	-	-	-	3.65	-	-	-	5.96	-	-	
0.21 ⁺¹	0.42 ⁺¹	0 ⁺¹	a ⁺¹	0 ⁺¹	0.00 ⁺¹	0 ⁺¹	a ⁺¹	0.04 ⁺¹	0.27 ⁺¹	0 ⁺¹	a ⁺¹	
0	38.42	0.31	27.01	0	10.86	0.72	42.82	0	65.58	1.29	50.54	
-	-	-	-	-	-	-	-	-	-	-	-	
0.20 ⁻²	1.95 ⁻²	0.00 ⁻²	0 ⁻²	0.01 ⁻²	1.80 ⁻²	0.01 ⁻²	37.50 ⁻²	0 ⁻²	1.00 ⁻²	0 ⁻²	a ⁻²	
2.41	0.77	a	a	a	-	a	a	0.66	0.39	a	a	
0.88 ⁻²	3.31 ⁻²	0.00 ⁻²	25.00 ⁻²	0 ⁻²	0.17 ⁻²	0 ⁻²	a ⁻²	0.97 ⁻²	2.84 ⁻²	0 ⁻²	a ⁻²	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	a	a	-	-	a	a	-	-	a	a	
-	-	-	-	-	-	-	-	-	-	-	-	

Table S5: Tertiary graduates in 2008 and 2013 and graduates in science, engineering, agriculture and health in 2013

	2008		2013					
	Tertiary graduates		Tertiary graduates		Science			
	MF (000s)	Females (%)	MF (000s)	Females (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)
Oman	11.54 ⁺¹	58.7 ⁺¹	16.68	56.1	0.53	1.56	0.00	100.00
Palestine	25.28	57.7	35.28	59.5	0.48	2.35	0	a
Qatar	1.79	66.7	2.28	60.8	0.04	0.08	a	a
Saudi Arabia	112.13	57.4	141.20	51.1	6.52	19.13	0.03	32.00
Sudan	-	-	124.49	51.2	3.46	8.76	0.13	31.25
Syrian Arab Rep.	51.32	51.5	58.69	56.2	-	-	-	-
Tunisia	-	-	65.42	65.9	a	16.92	0.31	60.33
United Arab Emirates	14.32	60.8	25.68	55.6	0.59	1.50	0	a
Yemen	-	-	-	-	-	-	-	-
Central Asia								
Kazakhstan	-	-	238.22	56.3	0.63	4.38	0.07	60.27
Kyrgyzstan	35.58	60.8	50.23	60.1	0.15	1.63	0.11	56.36
Mongolia	29.60	65.6	37.75	64.5	0.02	2.00	0.01	55.56
Tajikistan	-	-	46.80	37.9	0.28	-	0.07	-
Turkmenistan	-	-	-	-	0 ⁺¹	0.39 ⁺¹	-	-
Uzbekistan	73.73	38.7	77.22 ⁻²	44.3 ⁻²	a ⁻²	5.71 ⁻²	0.15 ⁻²	29.61 ⁻²
South Asia								
Afghanistan	9.27	16.7	-	-	-	-	-	-
Bangladesh	184.91	-	316.02 ⁻¹	41.8 ⁻¹	0 ⁻¹	35.02 ⁻¹	0.13 ⁻¹	43.75 ⁻¹
Bhutan	-	-	1.63	34.2	0	-	a	a
India	-	-	-	-	-	-	-	-
Maldives	-	-	-	-	-	-	-	-
Nepal	44.46	-	61.52	48.3	a	2.36	0.00	25.00
Pakistan	-	-	-	-	-	-	-	-
Sri Lanka	27.91 ⁺²	58.5 ⁺²	34.92	57.6	0.24 ⁻¹	2.66 ⁻¹	0.05 ⁻¹	54.17 ⁻¹
South-East Asia								
Brunei Darussalam	1.54	66.5	1.91	64.1	0.09	0.10	0	a
Cambodia	16.71	27.5	-	-	-	-	-	-
China	7 071.05	47.9	9 366.20	50.7	-	-	-	-
China, Hong Kong SAR	-	-	-	-	-	-	-	-
China, Macao SAR	6.79	48.6	6.07	59.9	0.00	0.20	0.02	21.05
Indonesia	799.37 ⁺¹	-	-	-	13.41 ⁻⁴	30.81 ⁻⁴	-	-
Japan	1 033.77	48.5	980.90 ⁻¹	48.3 ⁻¹	0 ⁻¹	28.07 ⁻¹	2.42 ⁻¹	23.65 ⁻¹
Korea, DPR	-	-	-	-	-	-	-	-
Korea, Rep. of	605.28	49.0	618.28	50.5	5.21	37.36	1.63	29.53
Lao PDR	18.99 ⁺¹	42.3 ⁺¹	37.38	45.4	0.78	0.68	0	a
Malaysia	206.59	58.6	261.82 ⁻¹	56.6 ⁻¹	12.98 ⁻¹	11.44 ⁻¹	0.55 ⁻¹	40.44 ⁻¹
Myanmar	-	-	295.94 ⁻¹	64.6 ⁻¹	5.13 ⁻¹	122.78 ⁻¹	0.20 ⁻¹	89.00 ⁻¹
Philippines	481.33 ⁺²	56.0 ⁺²	564.77	56.8	18.83	63.86	0.21	62.15
Singapore	-	-	-	-	-	-	-	-
Thailand	541.89	55.0	-	-	-	-	-	-
Timor-Leste	-	-	-	-	-	-	-	-
Viet Nam	243.52	43.1	406.07	43.0	0	0.00	0	a
Oceania								
Australia	306.90	55.9	386.63 ⁻²	57.3 ⁻²	4.65 ⁻²	26.36 ⁻²	1.74 ⁻²	44.83 ⁻²
New Zealand	54.45	60.9	71.93 ⁻¹	59.4 ⁻¹	2.80 ⁻¹	6.36 ⁻¹	0.36 ⁻¹	47.21 ⁻¹
Cook Islands	a	a	-	-	-	-	-	-
Fiji	-	-	-	-	-	-	-	-
Kiribati	a	a	a ⁻¹	a ⁻¹	a ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹
Marshall Islands	-	-	-	-	-	-	-	-
Micronesia	-	-	-	-	-	-	-	-
Nauru	a	a	-	-	-	-	-	-
Niue	a	a	-	-	-	-	-	-
Palau	-	-	0.09	57.4	a	0.00	a	a
Papua New Guinea	-	-	-	-	-	-	-	-
Samoa	-	-	-	-	-	-	-	-
Solomon Islands	a	a	-	-	-	-	-	-
Tonga	-	-	-	-	-	-	-	-
Tuvalu	a	a	-	-	-	-	-	-
Vanuatu	-	-	-	-	-	-	-	-

Source: UNESCO Institute for Statistics (UIS)

N.B.: See Key To All Tables at the end of Table S10.

2013												
Engineering, manufacturing and construction				Agriculture				Health and welfare				
Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	Post-secondary diploma MF (000s)	Bachelor's and master's degrees MF (000s)	PhDs MF (000s)	Female PhDs (%)	
0.64	2.52	0.00	0	0.45	0.05	0.00	0	2.42	0.47	0	a	
0.48	2.09	0	a	0	0.17	0	a	1.30	1.77	0	a	
0.27	0.29	a	a	a	-	a	a	0.03	0.22	a	a	
7.87	5.30	0.02	5.88	0.02	0.43	0.00	0	2.45	7.38	0.14	25.17	
2.91	4.96	0.03	21.43	0.02	3.00	0.03	34.48	0.97	13.75	0.06	37.70	
-	-	-	-	-	-	-	-	-	-	-	-	
a	11.02	0.12	49.18	a	0.90	0.01	50.00	a	5.81	0	a	
0.22	3.52	0	a	0	-	0	a	0.07	1.71	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
14.66	31.80	0.04	37.84	3.55	-	0.01	18.18	4.18	-	0	a	
1.05	6.17	0.08	40.74	0.15	-	0.01	10.00	1.94	-	0.05	66.00	
0.07	4.22	0.01	36.36	0.01	0.81	0.01	91.67	0.62	2.34	0.02	78.95	
0.97	-	0.02	-	0.23	-	0.03	-	5.90	-	0.02	-	
1.16 ⁺¹	0.93 ⁺¹	-	-	0.30 ⁺¹	0.13 ⁺¹	-	-	0.30 ⁺¹	0.30 ⁺¹	-	-	
a ²	10.34 ²	0.12 ²	22.88 ²	a ²	2.70 ²	0.06 ²	29.31 ²	a ²	3.53 ²	0.13 ²	55.30 ²	
-	-	-	-	-	-	-	-	-	-	-	-	
0 ¹	14.12 ¹	0.09 ¹	14.94 ¹	0 ¹	3.87 ¹	0.07 ¹	43.24 ¹	0 ¹	5.00 ¹	0.27 ¹	39.26 ¹	
0.17	-	a	a	0.07	-	a	a	0.06	-	a	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
a	0.14	0.00	0	a	-	0	a	a	1.30	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
0.48 ⁻¹	1.07 ⁻¹	0.01 ⁻¹	60.00 ⁻¹	0.34 ⁻¹	0.75 ⁻¹	0.03 ⁻¹	64.52 ⁻¹	0.26 ⁻¹	1.19 ⁻¹	0.23 ⁻¹	44.21 ⁻¹	
0.18	0.04	0	a	0	-	0	a	0.04	0.04	0	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
0	0.11	0.00	33.33	0	0.00	0	a	0.01	0.36	0.01	14.29	
41.29 ⁴	87.82 ⁴	-	-	14.39 ⁴	33.06 ⁴	-	-	13.94 ⁴	32.05 ⁴	-	-	
41.67 ⁻¹	122.98 ⁻¹	3.56 ⁻¹	14.35 ⁻¹	3.04 ⁻¹	21.83 ⁻¹	1.00 ⁻¹	31.27 ⁻¹	69.74 ⁻¹	52.26 ⁻¹	5.26 ⁻¹	31.23 ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
54.09	90.63	3.14	14.37	1.78	5.36	0.32	25.55	46.58	39.77	2.52	46.79	
1.59	-	0	a	1.25	-	0	a	0.47	-	0	a	
32.23 ⁻¹	23.09 ⁻¹	0.63 ⁻¹	26.34 ⁻¹	2.42 ⁻¹	2.43 ⁻¹	0.07 ⁻¹	32.86 ⁻¹	12.23 ⁻¹	18.02 ⁻¹	0.20 ⁻¹	46.80 ⁻¹	
5.73 ⁻¹	5.61 ⁻¹	0.06 ⁻¹	72.41 ⁻¹	0 ⁻¹	1.54 ⁻¹	0 ⁻¹	a ⁻¹	2.14 ⁻¹	1.71 ⁻¹	0.06 ⁻¹	83.33 ⁻¹	
15.24	47.10	0.06	48.28	4.07	9.65	0.07	55.41	4.39	53.11	0.16	69.14	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
61.27	36.72	0.09	13.98	8.17	13.27	0.01	0	7.46	7.33	0.01	41.67	
8.10 ⁻²	21.07 ⁻²	0.88 ⁻²	25.51 ⁻²	1.96 ⁻²	1.79 ⁻²	0.28 ⁻²	49.64 ⁻²	19.15 ⁻²	45.82 ⁻²	0.99 ⁻²	63.44 ⁻²	
1.41 ⁻¹	3.60 ⁻¹	0.13 ⁻¹	29.77 ⁻¹	0.57 ⁻¹	0.38 ⁻¹	0.02 ⁻¹	73.33 ⁻¹	2.01 ⁻¹	9.19 ⁻¹	0.15 ⁻¹	58.39 ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
a ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	a ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	a ⁻¹	0 ⁻¹	a ⁻¹	a ⁻¹	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
a	0.01	a	a	a	0.01	a	a	a	0.01	a	a	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	

Table S6: Total researchers and researchers per million inhabitants, 2009 and 2013

	Researchers in full-time equivalents					
	2009			2013		
	Total researchers	Female researchers (%) *	Researchers per million inhabitants	Total researchers	Female researchers (%) *	Researchers per million inhabitants
North America						
Canada	150 220	-	4 451	156 550 ⁻¹	-	4 494 ⁻¹
United States of America	1 250 984 ^r	-	4 042 ^r	1 265 064 ^{-1,r}	-	3 984 ^{-1,r}
Latin America						
Argentina	43 717	50.52	1 092	51 598 ⁻¹	51.61 ⁻¹	1 256 ⁻¹
Belize	-	-	-	-	-	-
Bolivia	1 422	-	142	1 646 ⁻³	-	162 ⁻³
Brazil	129 102	-	667	138 653 ⁻³	-	710 ⁻³
Chile	4 859 ^q	31.41 ^q	286 ^q	6 798 ^{-1,q}	31.66 ^{-1,q}	389 ^{-1,q}
Colombia	7 500	36.54	164	7 702 ⁻¹	37.15 ⁻¹	161 ⁻¹
Costa Rica	4 479 ^b	51.33 ⁻¹	973 ^b	6 107 ^{-2,b}	45.04 ^{-2,h}	1 289 ^{-2,b}
Ecuador	1 739	39.81	118	2 736 ⁻²	39.30 ⁻²	179 ⁻²
El Salvador	-	-	-	-	-	-
Guatemala	554 ^q	35.20 ^q	40 ^q	411 ^{-1,q}	41.85 ^{-1,q}	27 ^{-1,q}
Guyana	-	-	-	-	-	-
Honduras	-	-	-	-	-	-
Mexico	42 973	-	369	46 125 ⁻²	-	386 ⁻²
Nicaragua	-	-	-	-	-	-
Panama	394	-	109	438 ⁻²	30.59 ⁻²	117 ⁻²
Paraguay	466 ⁻¹	-	75 ⁻¹	1 081 ⁻¹	-	162 ⁻¹
Peru	-	-	-	-	-	-
Suriname	-	-	-	-	-	-
Uruguay	1 617	-	481	1 803	47.48	529
Venezuela	5 209 ^q	53.41 ^q	182 ^q	8 686 ^{-1,q}	-	290 ^{-1,q}
Caribbean						
Antigua and Barbuda	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-
Barbados	-	-	-	-	-	-
Cuba	-	-	-	-	-	-
Dominica	-	-	-	-	-	-
Dominican Rep.	-	-	-	-	-	-
Grenada	-	-	-	-	-	-
Haiti	-	-	-	-	-	-
Jamaica	-	-	-	-	-	-
St Kitts and Nevis	-	-	-	-	-	-
St Lucia	-	-	-	-	-	-
St Vincent and the Grenadines	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-
European Union						
Austria	34 664	22.40	4 141	39 923 ^{iv}	22.80 ⁻²	4 699 ^{iv}
Belgium	38 225	31.56	3 519	44 649 ^v	31.73 ⁻²	4 021 ^v
Bulgaria	11 968	48.43	1 607	12 275	49.61 ⁻¹	1 699
Croatia	6 931	48.82	1 593	6 529	49.82 ⁻¹	1 522
Cyprus	873	37.57	801	885 ^v	37.51 ⁻¹	776 ^v
Czech Rep.	28 759	26.04	2 743	34 271	24.72 ⁻¹	3 202
Denmark	36 789	29.77	6 659	40 858 ^{iv}	31.59 ⁻²	7 271 ^{iv}
Estonia	4 314	41.63	3 311	4 407	42.84 ⁻¹	3 424
Finland	40 849	-	7 644	39 196 ^s	-	7 223 ^s
France	234 366 ^p	-	3 727 ^p	265 177 ^{sv}	26.05 ^{-1,q}	4 125 ^{sv}
Germany	317 307	20.57	3 815	360 310 ^{iv}	22.08 ⁻²	4 355 ^{iv}
Greece	21 014 ^{-2,r}	31.71 ⁻⁴	1 899 ^{-2,r}	29 055 ^s	38.92 ^{-2,s}	2 611 ^s
Hungary	20 064	30.42	2 000	25 038	28.41 ⁻¹	2 515
Ireland	14 189 ^r	32.79 ^r	3 217 ^r	15 732 ^{-1,r}	30.27 ^{-2,r}	3 438 ^{-1,r}
Italy	101 840	34.19	1 691	117 973 ^v	35.75 ⁻¹	1 934 ^v
Latvia	3 621	50.35	1 714	3 625	50.85 ⁻¹	1 768
Lithuania	8 490	50.45	2 737	8 557	50.18 ⁻¹	2 836
Luxembourg	2 396	22.30	4 811	2 615 ^{sv}	24.18 ⁻²	4 931 ^{sv}
Malta	494	29.15	1 168	878 ^v	28.18 ⁻¹	2 047 ^v
Netherlands	46 958	-	2 835	72 325 ^{sv}	26.56 ⁻¹	4 316 ^{sv}
Poland	61 105	38.15	1 600	71 472	36.73 ⁻¹	1 870
Portugal	39 834	44.66	3 765	43 321 ^v	44.49 ⁻¹	4 084 ^v
Romania	19 271	44.85	879	18 704 ^s	44.78 ^{-1,s}	862 ^s
Slovakia	13 290	42.19	2 450	14 727	41.79	2 702
Slovenia	7 446	33.75	3 642	8 707 ^s	33.99 ^{-1,s}	4 202 ^s
Spain	133 803	38.51	2 924	123 225	38.47 ⁻¹	2 626
Sweden	47 160 ^q	29.70 ^q	5 065 ^q	62 294 ^{qs}	30.19 ^{-2,qs}	6 509 ^{qs}
United Kingdom	256 124 ^r	-	4 151 ^r	259 347 ^{iv}	-	4 108 ^{iv}
South-East Europe						
Albania	467 ^{-1,q}	44.33 ^{-1,q}	148 ^{-1,q}	-	-	-
Bosnia and Herzegovina	745 ^{-2,q}	-	193 ^{-2,q}	829 ^s	36.50	216 ^s
Macedonia, FYR	893	53.86	425	1 402	51.04	665
Montenegro	-	-	-	404	48.68 ^{-2,r}	650
Serbia	10 444	47.72	1 076	12 342	50.00 ⁻¹	1 298

Researchers in head counts							
2009			2013				
Total researchers	Female researchers (%) *	Researchers per million inhabitants	Total researchers	Female researchers (%) *	Researchers per million inhabitants		
North America							
-	-	-	-	-	-	Canada	
-	-	-	-	-	-	United States of America	
Latin America							
67 245	51.91	1 680	81 748 ¹	52.66 ¹	1 990 ¹	Argentina	
-	-	-	-	-	-	Belize	
1 947	63.23	195	2 153 ³	62.75 ³	212 ³	Bolivia	
216 672	-	1 120	234 797 ³	-	1 203 ³	Brazil	
8 770 ^a	32.30 ^a	516 ^a	10 447 ^{1,q}	30.97 ^{1,q}	598 ^{1,q}	Chile	
16 201	37.19	354	16 127 ¹	37.75 ¹	338 ¹	Colombia	
7 223 ^b	43.26 ^b	1 570 ^b	8 848 ^{2,b}	42.65 ^{2,h}	1 868 ^{2,b}	Costa Rica	
2 413	38.96	164	4 027 ²	37.37 ²	264 ²	Ecuador	
455	35.16	74	662	38.82	104	El Salvador	
756 ^a	35.19 ^a	54 ^a	666 ^{1,q}	44.74 ^{1,q}	44 ^{1,q}	Guatemala	
-	-	-	-	-	-	Guyana	
539 ⁶	26.53 ⁶	81 ⁶	-	-	-	Honduras	
42 973	31.57 ^{6,r}	369	46 125 ²	-	386 ²	Mexico	
326 ⁵	42.48 ^{7,q}	61 ⁵	-	-	-	Nicaragua	
482	41.12 ⁵	133	552 ^{2,s}	-	148 ^{2,s}	Panama	
850 ¹	51.76 ¹	136 ¹	1 704 ¹	51.68 ¹	255 ¹	Paraguay	
4 965 ⁵	-	181 ⁵	-	-	-	Peru	
-	-	-	-	-	-	Suriname	
2 596	51.58	773	2 403	49.11	705	Uruguay	
6 829 ^a	54.52 ^a	239 ^a	10 256 ^{1,q}	56.29 ^{1,q}	342 ^{1,q}	Venezuela	
Caribbean							
-	-	-	-	-	-	Antigua and Barbuda	
-	-	-	-	-	-	Bahamas	
-	-	-	-	-	-	Barbados	
5 448	46.64	483	4 477	46.59	397	Cuba	
-	-	-	-	-	-	Dominica	
-	-	-	-	-	-	Dominican Rep.	
-	-	-	-	-	-	Grenada	
-	-	-	-	-	-	Haiti	
-	-	-	-	-	-	Jamaica	
-	-	-	-	-	-	St Kitts and Nevis	
-	-	-	-	-	-	St Lucia	
21 ⁷	-	194 ⁷	-	-	-	St Vincent and the Grenadines	
787	52.86	595	914 ¹	43.76 ¹	683 ¹	Trinidad and Tobago	
European Union							
59 341	28.44	7 088	65 609 ²	28.99 ²	7 780 ²	Austria	
55 858	32.71	5 142	63 207 ²	33.47 ²	5 743 ²	Belgium	
14 699	47.62	1 974	15 219 ¹	48.61 ¹	2 091 ¹	Bulgaria	
12 108	46.42	2 783	11 402 ¹	47.71 ¹	2 647 ¹	Croatia	
1 696	35.55	1 555	1 914 ¹	37.30 ¹	1 695 ¹	Cyprus	
43 092	28.86	4 109	47 651 ¹	27.50 ¹	4 470 ¹	Czech Rep.	
54 049	31.75	9 784	58 568 ¹	34.78 ^{1,r}	10 463 ¹	Denmark	
7 453	42.48	5 720	7 634 ¹	43.99 ¹	5 914 ¹	Estonia	
55 797	31.42	10 441	56 704 ¹	32.25 ¹	10 484 ¹	Finland	
296 093	26.92 ^p	4 708	356 469 ^{1,s}	25.59 ^{1,q,s}	5 575 ^{1,s}	France	
487 242	24.96	5 857	522 010 ²	26.80 ²	6 297 ²	Germany	
33 396 ⁴	36.37 ⁴	3 025 ⁴	45 239 ^{2,s}	36.71 ^{2,s}	4 069 ^{2,s}	Greece	
35 267	32.11	3 516	37 019 ¹	30.94 ¹	3 711 ¹	Hungary	
20 901 ¹	34.23 ^r	4 739 ^r	22 131 ²	32.43 ²	4 893 ²	Ireland	
149 314	33.84	2 479	157 960 ¹	35.50 ¹	2 594 ¹	Italy	
6 324	52.37	2 994	7 995 ¹	52.81 ¹	3 880 ¹	Latvia	
13 882	51.01	4 475	17 677 ¹	52.36 ¹	5 839 ¹	Lithuania	
2 951	21.21	5 924	3 267 ²	24.00 ²	6 327 ²	Luxembourg	
945	29.42	2 235	1 451 ¹	29.50 ¹	3 392 ¹	Malta	
54 505	25.88	3 291	104 265 ^{1,s}	26.31 ^{1,s}	6 238 ^{1,s}	Netherlands	
98 165	39.52	2 570	103 627 ¹	38.29 ¹	2 712 ¹	Poland	
75 206	44.33	7 108	81 750 ¹	45.02 ¹	7 709 ¹	Portugal	
30 645	44.73	1 398	27 838 ^{1,s}	45.14 ^{1,s}	1 280 ^{1,s}	Romania	
21 832	42.47	4 024	24 441	42.70	4 484	Slovakia	
10 444	35.66	5 109	12 362 ^{1,s}	35.80 ^{1,s}	5 979 ^{1,s}	Slovenia	
221 314	38.11	4 837	215 544 ¹	38.81 ¹	4 610 ¹	Spain	
72 864	35.68	7 826	80 039 ²	37.22 ²	8 471 ²	Sweden	
385 489 ^r	37.93 ^r	6 248 ^r	442 385 ^{1,r}	37.83 ^{1,r}	7 046 ^{1,r}	United Kingdom	
South-East Europe							
1 721 ^{1,q}	44.33 ^{1,q}	545 ^{1,q}	-	-	-	Albania	
2 953 ^{2,q}	-	763 ^{2,q}	1 245 ^s	38.88	325 ^s	Bosnia and Herzegovina	
1 795	51.25	855	2 867	49.15	1 361	Macedonia, FYR	
671 ²	41.28 ²	1 086 ²	1 546 ^{2,s}	49.87 ²	2 491 ^{2,s}	Montenegro	
12 006	47.44	1 237	13 249 ¹	49.64 ¹	1 387 ¹	Serbia	

Table S6: Total researchers and researchers per million inhabitants, 2009 and 2013

	Researchers in full-time equivalents					
	2009			2013		
	Total researchers	Female researchers (%) *	Researchers per million inhabitants	Total researchers	Female researchers (%) *	Researchers per million inhabitants
Other Europe and West Asia						
Armenia	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-
Belarus	-	-	-	-	-	-
Georgia	-	-	-	-	-	-
Iran, Islamic Rep. of	52 256 ^l	24.21 ^l	711 ^l	54 813 ^{-3,i}	26.96 ^{3,i}	736 ^{-3,i}
Israel	-	-	-	63 728 ^{-1,p,r}	21.19 ^{-2,p}	8 337 ^{-1,p,r}
Moldova, Rep. of	2 861	48.03	794	2 623	47.85	752
Russian Federation	442 263	-	3 078	440 581	-	3 085
Turkey	57 759	33.37	811	89 075	32.96	1 189
Ukraine	61 858 ^q	43.89 ⁻²	1 337 ^q	52 626 ^q	-	1 163 ^q
European Free Trade Assoc.						
Iceland	2 505	39.93	7 983	2 258 ^{-2,s}	35.96 ^{-2,s}	7 012 ^{-2,s}
Liechtenstein	-	-	-	-	-	-
Norway	26 273	-	5 433	28 343	-	5 621
Switzerland	25 142 ⁻¹	-	3 285 ⁻¹	35 950 ⁻¹	-	4 495 ⁻¹
Sub-Saharan Africa						
Angola	-	-	-	1 150 ⁻²	27.83 ⁻²	57 ⁻²
Benin	-	-	-	-	-	-
Botswana	-	-	-	352 ⁻¹	26.64 ⁻¹	176 ⁻¹
Burkina Faso	-	-	-	742 ⁻³	21.61 ⁻³	48 ⁻³
Burundi	-	-	-	-	-	-
Cabo Verde	60 ^{7,q}	-	131 ^{7,q}	25 ^{-2,l,q,s}	36.00 ^{-2,l,q}	51 ^{-2,l,q,s}
Cameroon	-	-	-	-	-	-
Central African Rep.	-	-	-	-	-	-
Chad	-	-	-	-	-	-
Comoros	-	-	-	-	-	-
Congo	102 ^{9,q}	12.78 ⁹	33 ^{9,q}	-	-	-
Congo, Dem. Rep. of	-	-	-	-	-	-
Côte d'Ivoire	1 269 ^{4,q}	16.55 ^{4,q}	73 ^{4,q}	-	-	-
Djibouti	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-
Eritrea	-	-	-	-	-	-
Ethiopia	1 615 ⁻²	7.74 ⁻²	20 ⁻²	4 267 ^s	13.04	45 ^s
Gabon	-	-	-	-	-	-
Gambia	179	20.00 ⁻¹	110	59 ^{-2,q,s}	20.48 ⁻²	34 ^{-2,q,s}
Ghana	392 ⁻²	17.59 ⁻²	17 ⁻²	941 ^{-3,s}	17.30 ⁻³	39 ^{-3,s}
Guinea	-	-	-	-	-	-
Guinea-Bissau	-	-	-	-	-	-
Kenya	2 105 ^{-2,q}	17.84 ^{-2,r}	56 ^{-2,q}	9 305 ^{-3,s}	20.00 ⁻³	227 ^{-3,s}
Lesotho	46 ^q	41.03 ^q	23 ^q	12 ^{-2,l,q}	32.77 ^{-2,q}	6 ^{-2,l,q}
Liberia	-	-	-	-	-	-
Madagascar	930 ^q	31.72	45 ^q	1 106 ^{-2,q,s}	34.18 ⁻²	51 ^{-2,q,s}
Malawi	406 ⁻²	21.86 ⁻²	30 ⁻²	732 ^{-3,h}	18.55 ⁻³	49 ^{-3,h}
Mali	513 ^{-3,q}	13.26 ^{-3,q}	42 ^{-3,q}	443 ⁻³	14.06 ⁻³	32 ⁻³
Mauritius	-	-	-	228 ^{-1,h}	41.44 ^{-1,h}	184 ^{-1,h}
Mozambique	273 ^{h,i,q}	33.72 ^q	12 ^{h,i,q}	912 ^{-3,h,s}	32.24 ⁻³	38 ^{-3,h,s}
Namibia	-	-	-	-	-	-
Niger	101 ^{-4,q}	-	8 ^{-4,q}	-	-	-
Nigeria	5 677 ^{-2,h,q}	23.35 ^{-2,q}	39 ^{-2,h,q}	-	-	-
Rwanda	123 ^{l,q}	34.17 ^l	12 ^{l,q}	-	-	-
Sao Tome and Principe	-	-	-	-	-	-
Senegal	4 527 ⁻¹	23.81 ⁻¹	370 ⁻¹	4 679 ⁻³	24.83 ⁻³	361 ⁻³
Seychelles	13 ^{4,q}	30.77 ^{4,q}	149 ^{4,q}	-	-	-
Sierra Leone	-	-	-	-	-	-
Somalia	-	-	-	-	-	-
South Africa	19 793	39.02	389	21 383 ⁻¹	43.42 ⁻¹	408 ⁻¹
South Sudan	-	-	-	-	-	-
Swaziland	-	-	-	-	-	-
Tanzania	-	-	-	1 600 ^{-3,h,q}	24.59 ⁻³	36 ^{-3,h,q}
Togo	216 ^{2,h}	12.21 ^{-2,q}	37 ^{2,h}	242 ^{-1,h,s}	9.45 ⁻¹	36 ^{-1,h,s}
Uganda	-	-	-	1 263 ⁻³	26.26 ⁻³	37 ⁻³
Zambia	536 ⁻¹	34.33 ⁻¹	43 ⁻¹	-	-	-
Zimbabwe	-	-	-	1 305 ^{-1,h}	25.45 ⁻¹	95 ^{-1,h}
Arab states						
Algeria	5 593 ^{4,q}	36.53 ^{4,q}	165 ^{4,q}	-	-	-
Bahrain	39 ^q	41.03 ^q	33 ^q	67 ^q	50.75 ^q	50 ^q
Egypt	35 158 ^q	36.00	458 ^q	47 652 ^h	43.69 ^h	581 ^h
Iraq	12 048 ^{b,h}	34.06 ^h	399 ^{b,h}	13 559 ^{-2,b,h}	33.94 ^{-2,h}	426 ^{-2,b,h}
Jordan	-	-	-	-	-	-
Kuwait	402 ^{k,q}	37.06 ^{k,q}	141 ^{k,q}	439 ^{-1,k,q}	36.22 ^{-1,k,q}	135 ^{-1,k,q}
Lebanon	-	-	-	-	-	-

Researchers in head counts							
2009			2013				
Total researchers	Female researchers (%) *	Researchers per million inhabitants	Total researchers	Female researchers (%) *	Researchers per million inhabitants		
						Other Europe and West Asia	
5 542 ^q	45.69 ^q	1 867 ^q	3 870 ^q	48.14 ^q	1 300 ^q	Armenia	
11 041	52.35	1 229	15 784	53.34	1 677	Azerbaijan	
20 543	42.72	2 157	18 353	41.06	1 961	Belarus	
8 112 ⁻⁴	52.70 ⁻⁴	1 813 ⁻⁴	-	-	-	Georgia	
101 144 ⁱ	23.69 ⁱ	1 375 ⁱ	115 762 ^{-3,j}	25.86 ^{-3,j}	1 555 ^{-3,j}	Iran, Islamic Rep. of	
-	-	-	-	-	-	Israel	
3 561	47.32	988	3 250	47.97	932	Moldova, Rep. of	
369 237 ^q	41.90 ^q	2 570 ^q	369 015 ^q	40.88 ^q	2 584 ^q	Russian Federation	
114 436	36.29	1 606	166 097	36.23	2 217	Turkey	
76 147	44.82	1 646	65 641	45.82	1 451	Ukraine	
						European Free Trade Assoc.	
3 754	42.59	11 963	3 270 ^{-2,s}	37.34 ^{-2,s}	10 154 ^{-2,s}	Iceland	
-	-	-	-	-	-	Liechtenstein	
44 762	35.23	9 257	46 747 ⁻¹	36.20 ⁻¹	9 361 ⁻¹	Norway	
45 874 ⁻¹	30.18 ⁻¹	5 994 ⁻¹	60 278 ⁻¹	32.41 ⁻¹	7 537 ⁻¹	Switzerland	
						Sub-Saharan Africa	
-	-	-	1 482 ⁻²	27.06 ⁻²	73 ⁻²	Angola	
1 000 ^{-2,q,r}	-	115 ^{-2,q,r}	-	-	-	Benin	
1 732 ^{-4,q}	30.77 ^{-4,q}	923 ^{-4,q}	690 ^{-1,s}	27.25 ^{-1,s}	344 ^{-1,s}	Botswana	
187 ^{-2,q}	13.37 ⁻²	13 ^{-2,q}	1 144 ^{-3,s}	23.08 ^{-3,s}	74 ^{-3,s}	Burkina Faso	
362 ^q	13.81	41 ^q	379 ^{-2,q}	14.51 ⁻²	40 ^{-2,q}	Burundi	
107 ^{-7,q}	52.34 ⁻⁷	233 ^{-7,q}	128 ^{-2,i,q,s}	39.84 ^{-2,i,q}	261 ^{-2,i,q,s}	Cabo Verde	
4 562 ⁻¹	21.79 ⁻¹	233 ⁻¹	-	-	-	Cameroon	
134 ^q	41.46 ^{-2,i}	31 ^q	-	-	-	Central African Rep.	
-	-	-	-	-	-	Chad	
-	-	-	-	-	-	Comoros	
-	-	-	-	-	-	Congo	
12 470 ^b	-	206 ^b	-	-	-	Congo, Dem. Rep. of	
2 397 ^{-4,q}	16.48 ^{-4,q}	138 ^{-4,q}	-	-	-	Côte d'Ivoire	
-	-	-	-	-	-	Djibouti	
-	-	-	-	-	-	Equatorial Guinea	
-	-	-	-	-	-	Eritrea	
2 377 ⁻²	7.40 ⁻²	30 ⁻²	8 221 ^s	13.30	87 ^s	Ethiopia	
531 ^q	22.39 ^q	350 ^q	-	-	-	Gabon	
179	20.00 ⁻¹	110	60 ^{-2,q,s}	20.00 ⁻²	35 ^{-2,q,s}	Gambia	
636 ⁻²	17.92 ⁻²	28 ⁻²	2 542 ^{-3,s}	18.29 ⁻³	105 ^{-3,s}	Ghana	
2 117 ^{-9,q}	5.76 ^{-9,q}	242 ^{-9,q}	-	-	-	Guinea	
-	-	-	-	-	-	Guinea-Bissau	
3 509 ^{-2,q}	17.84 ⁻²	93 ^{-2,q}	13 012 ^{-3,s}	25.65 ⁻³	318 ^{-3,s}	Kenya	
229 ^q	41.03 ^q	115 ^q	42 ^{-2,i,q}	30.95 ^{-2,q}	21 ^{-2,i,q}	Lesotho	
-	-	-	-	-	-	Liberia	
1 817 ^q	33.90	89 ^q	2 364 ^{-2,q,s}	35.36 ⁻²	109 ^{-2,q,s}	Madagascar	
733 ⁻²	23.19 ⁻²	53 ⁻²	1 843 ^{-3,h}	19.53 ⁻³	123 ^{-3,h}	Malawi	
877 ^{-2,i,q}	10.60 ^{-2,q}	69 ^{-2,i,q}	898 ⁻³	16.04 ⁻³	64 ⁻³	Mali	
-	-	-	353 ^{-1,h}	41.93 ^{-1,h}	285 ^{-1,h}	Mauritius	
771 ^{h,i,q}	33.72 ^q	33 ^{h,i,q}	1 588 ^{-3,h,s}	32.24 ⁻³	66 ^{-3,h,s}	Mozambique	
-	-	-	748 ⁻³	43.72 ⁻³	343 ⁻³	Namibia	
129 ^{-4,q}	-	10 ^{-4,q}	-	-	-	Niger	
17 624 ^{-2,h,q}	23.30 ^{-2,q}	120 ^{-2,h,q}	-	-	-	Nigeria	
564 ^q	21.81 ¹	54 ^q	-	-	-	Rwanda	
-	-	-	-	-	-	Sao Tome and Principe	
7 859 ⁻¹	24.05 ⁻¹	642 ⁻¹	8 170 ⁻³	24.86 ⁻³	631 ⁻³	Senegal	
14 ^{-4,q}	35.71 ^{-4,q}	161 ^{-4,q}	-	-	-	Seychelles	
-	-	-	-	-	-	Sierra Leone	
-	-	-	-	-	-	Somalia	
40 797	40.76	802	42 828 ⁻¹	43.72 ⁻¹	818 ⁻¹	South Africa	
-	-	-	-	-	-	South Sudan	
-	-	-	-	-	-	Swaziland	
2 755 ^{-2,h,q}	20.25 ⁻²	67 ^{-2,h,q}	3 102 ^{-3,h,q}	25.44 ⁻³	69 ^{-3,h,q}	Tanzania	
834 ^{-2,h}	12.02 ^{-2,q}	143 ^{-2,h}	639 ^{-1,h,s}	10.17 ⁻¹	96 ^{-1,h,s}	Togo	
1 703	40.40	52	2 823 ^{-3,s}	24.34 ⁻³	83 ^{-3,s}	Uganda	
612 ⁻¹	30.72 ⁻¹	49 ⁻¹	-	-	-	Zambia	
-	-	-	2 739 ^{-1,h}	25.26 ⁻¹	200 ^{-1,h}	Zimbabwe	
						Arab states	
13 805 ^{-4,q}	34.83 ^{-4,q}	406 ^{-4,q}	-	-	-	Algeria	
397 ^q	33.75 ^q	333 ^q	510 ^q	41.18 ^q	383 ^q	Bahrain	
89 114 ^q	37.34	1 161 ^q	110 772 ^h	42.77 ^h	1 350 ^h	Egypt	
36 470 ^{b,h}	34.16 ^h	1 209 ^{b,h}	40 521 ^{-2,b,h}	34.17 ^{-2,h}	1 273 ^{-2,b,h}	Iraq	
11 310 ^{-1,q}	22.54 ⁻¹	1 913 ^{-1,q}	-	-	-	Jordan	
402 ^{k,q}	37.06 ^{k,q}	141 ^{k,q}	4 025 ^{h,s}	37.34 ^{h,s}	1 195 ^{h,s}	Kuwait	
-	-	-	-	-	-	Lebanon	

Table S6: Total researchers and researchers per million inhabitants, 2009 and 2013

	Researchers in full-time equivalents					
	2009			2013		
	Total researchers	Female researchers (%) *	Researchers per million inhabitants	Total researchers	Female researchers (%) *	Researchers per million inhabitants
Libya	-	-	-	-	-	-
Mauritania	-	-	-	-	-	-
Morocco	20 703 ^{1,q}	29.49 ¹	669 ^{1,q}	27 714 ^{2,q}	31.79 ²	864 ^{2,q}
Oman	-	-	-	497 ^h	23.54 ^h	137 ^h
Palestine	567	33.57 ²	145	2 492 ^h	-	576 ^h
Qatar	-	-	-	1 203 ¹	20.23 ¹	587 ¹
Saudi Arabia	-	-	-	-	-	-
Sudan	-	-	-	-	-	-
Syrian Arab Rep.	-	-	-	-	-	-
Tunisia	13 300	-	1 265	15 159 ¹	-	1 394 ¹
United Arab Emirates	-	-	-	-	-	-
Yemen	-	-	-	-	-	-
Central Asia						
Kazakhstan	5 593	-	355	12 552 ^s	-	763 ^s
Kyrgyzstan	-	-	-	-	-	-
Mongolia	-	-	-	-	-	-
Tajikistan	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-
Uzbekistan	-	-	-	15 029 ^{2,b}	39.14 ²	534 ^{2,b}
South Asia						
Afghanistan	-	-	-	-	-	-
Bangladesh	-	-	-	-	-	-
Bhutan	-	-	-	-	-	-
India	154 827 ⁴	14.85 ^{4,q}	137 ⁴	192 819 ³	14.28 ³	160 ³
Maldives	-	-	-	-	-	-
Nepal	1 500 ^{7,r}	-	62 ^{7,r}	-	-	-
Pakistan	27 602 ^h	23.67	162 ^h	30 244 ^h	31.27 ^h	166 ^h
Sri Lanka	1 972 ¹	38.89 ¹	96 ¹	2 140 ³	39.35 ³	103 ³
South-East Asia						
Brunei Darussalam	102 ^{5,q}	-	282 ^{5,q}	-	-	-
Cambodia	223 ^{7,q,r}	22.60 ^{7,q,r}	18 ^{7,q,r}	-	-	-
China	1 152 311	-	853	1 484 040	-	1 071
China, Hong Kong SAR	19 283	-	2 752	21 236 ¹	-	2 971 ¹
China, Macao SAR	300 ^q	29.68 ^q	575 ^q	527 ^q	32.18 ^q	931 ^q
Indonesia	21 349 ^{9,r}	-	90 ^{9,r}	-	-	-
Japan	655 530	-	5 147	660 489	-	5 195
Korea, DPR	-	-	-	-	-	-
Korea, Rep. of	244 077	-	5 068	321 842	-	6 533
Lao PDR	87 ^{7,q}	-	16 ^{7,q}	-	-	-
Malaysia	29 608	47.69	1 065	52 052 ¹	47.01 ¹	1 780 ¹
Myanmar	837 ^{7,q}	-	17 ^{7,q}	-	-	-
Philippines	6 957 ²	50.81 ²	78 ²	-	-	-
Singapore	30 530	-	6 150	34 141 ¹	-	6 438 ¹
Thailand	22 000	50.29	332	36 360 ²	53.10 ²	546 ²
Timor-Leste	-	-	-	-	-	-
Viet Nam	9 328 ⁷	-	113 ⁷	-	-	-
Oceania						
Australia	92 649 ¹	-	4 280 ¹	-	-	-
New Zealand	16 100	-	3 724	16 300 ²	-	3 693 ²
Cook Islands	-	-	-	-	-	-
Fiji	-	-	-	-	-	-
Kiribati	-	-	-	-	-	-
Marshall Islands	-	-	-	-	-	-
Micronesia	-	-	-	-	-	-
Nauru	-	-	-	-	-	-
Niue	-	-	-	-	-	-
Palau	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-
Samoa	-	-	-	-	-	-
Solomon Islands	-	-	-	-	-	-
Tonga	-	-	-	-	-	-
Tuvalu	-	-	-	-	-	-
Vanuatu	-	-	-	-	-	-

Source:

UNESCO Institute for Statistics (UIS), August, 2015

Sources for background data:

Population: United Nations, Department of Economic and Social Affairs, Population Division, 2013; World Population Prospects: The 2012 Revision

Researchers in head counts							
2009			2013				
Total researchers	Female researchers (%) *	Researchers per million inhabitants	Total researchers	Female researchers (%) *	Researchers per million inhabitants		
460 ^q	24.75	77 ^q	-	-	-	Libya	
-	-	-	-	-	-	Mauritania	
29 276 ^{1,q}	27.60 ¹	946 ^{1,q}	36 732 ^{2,q}	30.19 ²	1 146 ^{2,q}	Morocco	
-	-	-	1 235 ^h	21.13 ^h	340 ^h	Oman	
1 550	18.77	396	4 533 ^h	22.59 ^h	1 048 ^h	Palestine	
-	-	-	1 725 ¹	21.86 ¹	841 ¹	Qatar	
1 271 ^{k,q}	1.42	47 ^{k,q}	-	-	-	Saudi Arabia	
11 208 ^{4,br}	40.00 ^{4,r}	355 ^{4,br}	-	-	-	Sudan	
-	-	-	-	-	-	Syrian Arab Rep.	
28 274	-	2 690	30 127 ¹	-	2 770 ¹	Tunisia	
-	-	-	-	-	-	United Arab Emirates	
-	-	-	-	-	-	Yemen	
Central Asia							
10 095	48.46	641	17 195 ^s	51.46 ^s	1 046 ^s	Kazakhstan	
2 290	43.45	435	2 224 ²	43.21 ²	412 ²	Kyrgyzstan	
1 748 ^q	48.11 ^q	654 ^q	1 912 ^q	48.90 ^q	673 ^q	Mongolia	
1 722	38.79 ³	231	2 152 ^h	33.83	262 ^h	Tajikistan	
-	-	-	-	-	-	Turkmenistan	
30 273	42.99	1 105	30 890 ²	40.92 ²	1 097 ²	Uzbekistan	
South Asia							
-	-	-	-	-	-	Afghanistan	
-	-	-	-	-	-	Bangladesh	
-	-	-	-	-	-	Bhutan	
-	-	-	-	-	-	India	
-	-	-	-	-	-	Maldives	
3 000 ^{7,r}	15.00 ^{7,r}	124 ^{7,r}	5 123 ^{3,q,s}	7.79 ³	191 ^{3,q,s}	Nepal	
54 689 ^h	26.97	322 ^h	60 699 ^h	29.78 ^h	333 ^h	Pakistan	
4 037 ¹	39.86 ¹	197 ¹	5 162 ³	36.92 ³	249 ³	Sri Lanka	
South-East Asia							
244 ^{5,q}	40.57 ⁵	676 ^{5,q}	-	-	-	Brunei Darussalam	
744 ^{7,q,r}	20.70 ^{7,q,r}	59 ^{7,q,r}	-	-	-	Cambodia	
-	-	-	2 069 650 ¹	-	1 503 ¹	China	
23 014	-	3 284	24 934 ¹	-	3 488 ¹	China, Hong Kong SAR	
658 ^q	32.37 ^q	1 261 ^q	1 110 ^q	34.50 ^q	1 960 ^q	China, Macao SAR	
41 143 ^r	30.58 ⁴	173 ^{q,r}	-	-	-	Indonesia	
889 341	13.62	6 983	892 406	14.63	7 019	Japan	
-	-	-	-	-	-	Korea, DPR	
323 175	15.80	6 710	410 333	18.18	8 329	Korea, Rep. of	
209 ^{7,q}	22.97 ^{7,r}	38 ^{7,q}	-	-	-	Lao PDR	
53 304	50.91	1 918	75 257 ¹	49.92 ¹	2 574 ¹	Malaysia	
4 725 ^{7,q}	85.46 ^{7,b}	96 ^{7,q}	-	-	-	Myanmar	
11 490 ²	52.25 ²	129 ²	-	-	-	Philippines	
34 387	28.49	6 927	38 432 ¹	29.57 ¹	7 247 ¹	Singapore	
38 506	51.08	581	51 178 ²	52.66 ²	769 ²	Thailand	
-	-	-	-	-	-	Timor-Leste	
41 117 ⁷	42.77 ⁷	498 ⁷	105 230 ^{2,s}	41.67 ^{2,s}	1 170 ^{2,s}	Viet Nam	
Oceania							
-	-	-	-	-	-	Australia	
27 000	51.99 ⁸	6 246	28 100 ²	-	6 366 ²	New Zealand	
-	-	-	-	-	-	Cook Islands	
-	-	-	-	-	-	Fiji	
-	-	-	-	-	-	Kiribati	
-	-	-	-	-	-	Marshall Islands	
-	-	-	-	-	-	Micronesia	
19 ^{6,q}	15.79 ^{6,q}	1 925 ^{6,q,r}	-	-	-	Nauru	
-	-	-	-	-	-	Niue	
-	-	-	-	-	-	Palau	
-	-	-	-	-	-	Papua New Guinea	
-	-	-	-	-	-	Samoa	
-	-	-	-	-	-	Solomon Islands	
-	-	-	-	-	-	Tonga	
-	-	-	-	-	-	Tuvalu	
-	-	-	-	-	-	Vanuatu	

Note:

* The year for the share of female researchers may not be the same as the year for total researchers for some countries.

N.B.: See Key To All Tables at the end of Table S10.

Table S7: Researchers by field of science, 2013 or closest year (%)

	Year	Researchers by field of science in head counts (%)								
		Natural sciences	Engineering and technology	Medical and health sciences	Agricultural sciences	Natural sciences and engineering	Social sciences	Humanities	Social sciences and humanities	Not elsewhere classified
North America										
Canada		-	-	-	-	-	-	-	-	-
United States of America		-	-	-	-	-	-	-	-	-
Latin America										
Argentina	2012	26.73	18.65	13.42	10.96	69.76	21.18	9.06	30.24	-
Belize		-	-	-	-	-	-	-	-	-
Bolivia	2010	25.41	21.32	15.84	15.23	77.80	16.54	5.67	22.20	-
Brazil		-	-	-	-	-	-	-	-	-
Chile	2008	21.36	25.91	16.94	12.31	76.52	18.20	5.26	23.48	-
Colombia	2012	18.72	11.38	15.67	6.42	52.19	36.83	7.66	44.49	3.32
Costa Rica	2011	8.07 ^h	8.36 ^h	7.59 ^h	7.29 ^h	31.32 ^h	8.91 ^h	1.82 ^h	10.73 ^h	57.96 ^d
Ecuador	2011	14.63	20.14	11.27	11.37	57.41	35.09	7.50	42.59	-
El Salvador	2013	39.27	19.64	15.56	4.68	79.15	17.52	3.32	20.85	-
Guatemala	2012	20.42 ^q	16.22 ^q	19.82 ^q	18.32 ^q	74.77 ^q	18.77 ^q	6.46 ^q	25.23 ^q	-
Guyana		-	-	-	-	-	-	-	-	-
Honduras		-	-	-	-	-	-	-	-	-
Mexico	2003	16.71	35.43	12.34	9.58	74.07	17.40	8.53	25.93	-
Nicaragua		-	-	-	-	-	-	-	-	-
Panama	2008	19.65	8.21	14.69	5.62	48.16	17.93	-	17.93 ^q	33.91
Paraguay	2008	13.18	15.06	12.24	20.94	61.41	23.29	9.88	33.18	5.41
Peru		-	-	-	-	-	-	-	-	-
Suriname		-	-	-	-	-	-	-	-	-
Uruguay	2013	28.80	10.45	12.78	15.36	67.37	23.26	9.28	32.54	0.08
Venezuela	2009	11.76 ^q	13.11 ^q	22.16 ^q	16.75 ^q	63.77 ^q	36.23 ^q	-	36.23 ^q	-
Caribbean										
Antigua and Barbuda		-	-	-	-	-	-	-	-	-
Bahamas		-	-	-	-	-	-	-	-	-
Barbados		-	-	-	-	-	-	-	-	-
Cuba		-	-	-	-	-	-	-	-	-
Dominica		-	-	-	-	-	-	-	-	-
Dominican Rep.		-	-	-	-	-	-	-	-	-
Grenada		-	-	-	-	-	-	-	-	-
Haiti		-	-	-	-	-	-	-	-	-
Jamaica		-	-	-	-	-	-	-	-	-
St Kitts and Nevis		-	-	-	-	-	-	-	-	-
St Lucia		-	-	-	-	-	-	-	-	-
St Vincent and the Grenadines		-	-	-	-	-	-	-	-	-
Trinidad and Tobago	2012	24.73	29.54	14.44	10.50	79.21	20.79	-	20.79 ^q	-
European Union										
Austria		-	-	-	-	-	-	-	-	-
Belgium		-	-	-	-	-	-	-	-	-
Bulgaria	2012	24.59	27.33	13.48	7.91	73.31	15.99	10.70	26.69	-
Croatia	2012	15.54	30.74	20.93	7.04	74.26	15.69	10.05	25.74	-
Cyprus	2012	28.32	24.45	4.96	2.98	60.71	25.34	13.95	39.29	-
Czech Rep.	2012	27.08	39.52	11.88	4.55	83.04	9.36	7.61	16.96	-
Denmark		-	-	-	-	-	-	-	-	-
Estonia	2012	24.88 ^{hr}	10.87 ^{hr}	6.75 ^{hr}	4.14 ^{hr}	46.63 ^{hr}	13.57 ^{hr}	13.09 ^{hr}	26.66 ^{hr}	26.71 ^{dr}
Finland		-	-	-	-	-	-	-	-	-
France		-	-	-	-	-	-	-	-	-
Germany		-	-	-	-	-	-	-	-	-
Greece	2011	14.98	34.49	21.23	5.22	75.91	12.12	11.97	24.09	-
Hungary	2012	26.87	33.35	10.85	5.18	76.24	13.23	10.54	23.76	-
Ireland		-	-	-	-	-	-	-	-	-
Italy		-	-	-	-	-	-	-	-	-
Latvia	2012	21.56 ^{hr}	19.01 ^{hr}	9.14 ^{hr}	5.90 ^{hr}	55.62 ^{hr}	19.34 ^{hr}	10.81 ^{hr}	30.14 ^{hr}	14.23 ^{dr}
Lithuania	2012	17.31 ^{hr}	14.73 ^{hr}	11.92 ^{hr}	2.74 ^{hr}	46.70 ^{hr}	26.77 ^{hr}	15.00 ^{hr}	41.77 ^{hr}	11.53 ^{dr}
Luxembourg		-	-	-	-	-	-	-	-	-
Malta	2012	23.57	27.98	14.40	2.89	68.85	16.47	9.44	25.91	5.24
Netherlands	2012	17.02	42.92	14.58	7.74	82.26	14.35	3.39	17.74	-
Poland	2012	18.35	32.15	14.66	5.89	71.05	16.45	12.50	28.95	-
Portugal	2012	21.92	29.62	16.51	2.72	70.77	18.13	11.10	29.23	-
Romania	2012	17.20	46.93	9.24	4.50	77.86	15.91	6.23	22.14	-
Slovakia	2013	16.55	32.74	12.33	4.11	65.73	20.29	13.98	34.27	-
Slovenia	2012	24.82	39.39	13.82	5.82	83.87	9.58	6.56	16.14	-
Spain		-	-	-	-	-	-	-	-	-
Sweden		-	-	-	-	-	-	-	-	-
United Kingdom		-	-	-	-	-	-	-	-	-
South-East Europe										
Albania	2008	8.66 ^q	13.83 ^q	9.06 ^q	19.17 ^q	50.73 ^q	13.71 ^q	35.56 ^q	49.27 ^q	-
Bosnia and Herzegovina	2013	16.55	40.48	2.49	14.30	73.82	19.68	5.46	25.14	1.04
Macedonia, FYR	2012	4.89	16.67	30.93	8.87	61.36	18.47	20.17	38.64	-
Montenegro	2011	6.73	21.67	28.53	4.27	61.19	18.82	19.99	38.81	-
Serbia	2012	20.58	23.95	9.37	13.37	67.27	19.02	13.71	32.73	-

	Year	Researchers by field of science in head counts (%)								
		Natural sciences	Engineering and technology	Medical and health sciences	Agricultural sciences	Natural sciences and engineering	Social sciences	Humanities	Social sciences and humanities	Not elsewhere classified
Other Europe and West Asia										
Armenia	2013	56.69 ^q	14.11 ^q	9.92 ^q	1.16 ^q	81.89 ^q	5.61 ^q	12.51 ^q	18.11 ^q	-
Azerbaijan	2013	32.78	16.09	11.11	6.65	66.63	13.36	20.01	33.37	-
Belarus	2013	18.59	61.00	4.77	5.76	90.12	7.52	2.36	9.88	-
Georgia	2005	29.34	14.95	9.90	11.33	65.52	9.38	19.08	28.46	6.02
Iran, Islamic Rep. of	2010	13.67 ⁱ	25.14 ⁱ	20.79 ⁱ	18.78 ⁱ	78.37 ⁱ	21.63 ^{cl}	- ^{gi}	21.63 ⁱ	- ⁱ
Israel		-	-	-	-	-	-	-	-	-
Moldova, Rep. of	2013	35.94	13.78	14.06	12.34	76.12	12.65	11.23	23.88	-
Russian Federation	2013	23.19 ^q	61.00 ^q	4.43 ^q	3.22 ^q	91.84 ^q	4.98 ^q	3.18 ^q	8.16 ^q	-
Turkey	2013	10.06	35.86	22.13	4.50	72.55	18.39	9.06	27.45	-
Ukraine	2013	25.16	42.00	6.40	8.06	81.61	7.07	3.17	10.24	8.15
European Free Trade Assoc.										
Iceland		-	-	-	-	-	-	-	-	-
Liechtenstein		-	-	-	-	-	-	-	-	-
Norway	2012	-	-	-	-	76.06	-	-	23.70	0.24
Switzerland		-	-	-	-	-	-	-	-	-
Sub-Saharan Africa										
Angola	2011	23.14	18.62	9.24	12.96	63.97	30.97	5.06	36.03	-
Benin		-	-	-	-	-	-	-	-	-
Botswana	2012	37.54	11.01	22.61	20.00	91.16	2.17	0.14	2.32	6.52
Burkina Faso	2010	13.90	16.52	42.05	10.58	83.04	9.18	4.46	13.64	3.32
Burundi	2011	-	-	-	19.79 ^j	19.79 ^j	1.06 ⁱ	-	1.06 ^q	79.16 ^e
Cabo Verde	2011	15.63 ^{lq}	35.94 ^{lq}	3.91 ^{lq}	1.56 ^{lq}	57.03 ^{lq}	22.66 ^{lq}	20.31 ^{lq}	42.97 ^{lq}	-
Cameroon		-	-	-	-	-	-	-	-	-
Central African Rep.	2009	36.57 ^q	2.99 ^q	13.43 ^q	9.70 ^q	62.69 ^q	8.96 ^q	24.63 ^q	33.58 ^q	3.73 ^q
Chad		-	-	-	-	-	-	-	-	-
Comoros		-	-	-	-	-	-	-	-	-
Congo		-	-	-	-	-	-	-	-	-
Congo, Dem. Rep. of		-	-	-	-	-	-	-	-	-
Côte d'Ivoire		-	-	-	-	-	-	-	-	-
Djibouti		-	-	-	-	-	-	-	-	-
Equatorial Guinea		-	-	-	-	-	-	-	-	-
Eritrea		-	-	-	-	-	-	-	-	-
Ethiopia	2013	15.29	9.48	18.48	30.26	73.51	16.81	7.21	24.02	2.47
Gabon	2009	13.18 ^q	4.71 ^q	4.52 ^q	8.10 ^q	30.51 ^q	22.41 ^q	12.99 ^q	35.40 ^q	34.09 ^q
Gambia	2011	-	-	40.00	60.00	100.00 ^q	-	-	-	-
Ghana	2010	17.19	11.41	17.98	14.20	60.78	21.01	15.11	36.11	3.11
Guinea		-	-	-	-	-	-	-	-	-
Guinea-Bissau		-	-	-	-	-	-	-	-	-
Kenya	2010	3.67	13.73	25.45	40.51	83.37	9.45	7.19	16.63	-
Lesotho	2011	23.81 ^{lq}	19.05 ^{lq}	-	54.76 ^{lq}	97.62 ^{lq}	2.38 ^{lq}	-	2.38 ^{lq}	-
Liberia		-	-	-	-	-	-	-	-	-
Madagascar	2011	37.18	10.62	9.52	7.15	64.47	19.37	9.73	29.10	6.43
Malawi	2010	15.63 ^h	20.18 ^h	18.61 ^h	16.93 ^h	71.35 ^h	18.45 ^h	10.20 ^h	28.65 ^h	-
Mali	2006	46.04 ^q	8.58 ^q	13.59 ^q	11.89 ^q	80.10	13.03 ^q	6.88 ^q	19.90	-
Mauritius	2012	21.81 ^r	10.20 ^r	10.20 ^r	33.71 ^r	75.92 ^r	16.43 ^r	5.95 ^r	22.38 ^r	1.70 ^r
Mozambique	2010	19.27	22.04	13.16	8.94	63.41	34.13	2.46	36.59	-
Namibia	2010	10.96	2.41	6.82	42.91	63.10	15.91	5.75	21.66	15.24
Niger		-	-	-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-	-	-
Rwanda		-	-	-	-	-	-	-	-	-
Sao Tome and Principe		-	-	-	-	-	-	-	-	-
Senegal	2010	18.00	1.98	19.60	1.60	41.19	50.67	6.40	57.07	1.74
Seychelles	2005	78.57	-	-	14.29	92.86 ^q	-	-	-	7.14
Sierra Leone		-	-	-	-	-	-	-	-	-
Somalia		-	-	-	-	-	-	-	-	-
South Africa		-	-	-	-	-	-	-	-	-
South Sudan		-	-	-	-	-	-	-	-	-
Swaziland		-	-	-	-	-	-	-	-	-
Tanzania		-	-	-	-	-	-	-	-	-
Togo	2012	15.65 ^h	6.10 ^h	18.78 ^h	14.71 ^h	55.24 ^h	2.35 ^h	41.94 ^h	44.29 ^h	0.47 ^h
Uganda	2010	17.43	12.15	10.06	11.52	51.17	37.38	11.45	48.83	-
Zambia		-	-	-	-	-	-	-	-	-
Zimbabwe	2012	30.05 ^h	13.33 ^h	0.18 ^h	13.91 ^h	57.47 ^h	22.16 ^h	15.48 ^h	37.64 ^h	4.89 ^h
Arab states										
Algeria	2005	24.27 ^{lq}	37.63 ^q	8.15 ^{lq}	8.40 ^q	78.44 ^q	9.40 ^{lq}	12.16 ^q	21.56 ^q	-
Bahrain	2013	8.24 ^{lq}	15.88 ^{lq}	43.53 ^{lq}	0.39 ^{lq}	68.04 ^{lq}	15.29 ^{lq}	5.69 ^{lq}	20.98 ^{lq}	10.98 ^{lq}
Egypt	2013	8.08 ^l	7.20 ^l	31.76 ^l	4.12 ^l	51.16 ^l	16.83 ^l	11.41 ^l	28.24 ^l	20.61 ^k
Iraq	2011	17.75 ^{bh}	18.86 ^{bh}	12.39 ^{bh}	9.36 ^{bh}	58.35 ^{bh}	32.33 ^{bh}	9.30 ^{bh}	41.63 ^{bh}	0.02 ^h
Jordan	2008	8.20	18.80	12.61	2.93	42.53	3.99	18.13	22.12	35.35
Kuwait	2013	14.34 ^h	13.37 ^h	11.85 ^h	5.17 ^h	44.72 ^h	8.77 ^h	13.34 ^h	22.11 ^h	33.17 ^h
Lebanon		-	-	-	-	-	-	-	-	-
Libya		-	-	-	-	-	-	-	-	-

Table S7: Researchers by field of science, 2013 or closest year (%)

	Year	Researchers by field of science in head counts (%)								
		Natural sciences	Engineering and technology	Medical and health sciences	Agricultural sciences	Natural sciences and engineering	Social sciences	Humanities	Social sciences and humanities	Not elsewhere classified
Mauritania		-	-	-	-	-	-	-	-	-
Morocco	2011	33.71	7.56	10.40	1.80	53.46	26.10	20.44	46.54	-
Oman	2013	15.55 ^h	13.04 ^h	6.48 ^h	25.26 ^h	60.32 ^h	24.29 ^h	13.20 ^h	37.49 ^h	2.19 ^h
Palestine	2013	16.55 ^h	10.90 ^h	5.85 ^h	4.83 ^h	38.12 ^h	27.69 ^h	34.19 ^h	61.88 ^h	- ^h
Qatar	2012	9.33	42.67	26.03	1.62	79.65	14.26	4.81	19.07	1.28
Saudi Arabia	2009	16.76 ^k	43.04 ^k	0.71 ^k	2.60 ^k	63.10 ^k	- ^k	0.47 ^k	0.47 ^k	36.43 ^k
Sudan	2005	17.86 ^r	27.18 ^r	22.29 ^r	6.00 ^r	73.32 ^r	16.06 ^r	8.10 ^r	24.16 ^r	2.52 ^r
Syrian Arab Rep.		-	-	-	-	-	-	-	-	-
Tunisia		-	-	-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-	-	-
Yemen		-	-	-	-	-	-	-	-	-
Central Asia										
Kazakhstan	2013	29.61	29.05	6.21	12.50	77.38	10.33	12.29	22.62	-
Kyrgyzstan	2011	26.66	25.49	17.67	9.53	79.36	6.92	11.65	18.57	2.07 ^r
Mongolia	2013	37.45 ^q	12.76 ^q	9.94 ^q	15.90 ^q	76.05 ^q	23.95 ^q	-	23.95 ^q	-
Tajikistan	2013	23.65	9.57	17.38	21.93	72.54	15.57	11.90	27.46	-
Turkmenistan		-	-	-	-	-	-	-	-	-
Uzbekistan	2011	22.37	16.13	11.85	6.06	56.40	22.07	21.53	43.60	-
South Asia										
Afghanistan		-	-	-	-	-	-	-	-	-
Bangladesh		-	-	-	-	-	-	-	-	-
Bhutan		-	-	-	-	-	-	-	-	-
India		-	-	-	-	-	-	-	-	-
Maldives		-	-	-	-	-	-	-	-	-
Nepal		-	-	-	-	-	-	-	-	-
Pakistan	2013	23.37 ^h	17.45 ^h	15.66 ^h	13.03 ^h	69.52 ^h	17.12 ^h	9.89 ^h	27.01 ^h	3.47 ^h
Sri Lanka	2010	28.30	22.22	16.35	20.34	87.21	7.81 ^c	- ^g	7.81	4.98
South-East Asia										
Brunei Darussalam		-	-	-	-	-	-	-	-	-
Cambodia		-	-	-	-	-	-	-	-	-
China		-	-	-	-	-	-	-	-	-
China, Hong Kong SAR		-	-	-	-	-	-	-	-	-
China, Macao SAR	2013	10.45	14.23	13.87	-	38.56 ^q	41.80 ^q	18.56 ^q	60.36 ^q	1.08 ^q
Indonesia	2005	11.07 ⁱ	11.12 ⁱ	7.28 ⁱ	13.39 ⁱ	42.86 ⁱ	18.16 ⁱ	7.34 ⁱ	25.50 ⁱ	31.64
Japan	2013	18.27	47.92	14.57	4.33	85.08	5.90	3.37	11.52	3.40
Korea, DPR		-	-	-	-	-	-	-	-	-
Korea, Rep. of	2013	12.55	68.09	5.68	2.46	88.78	6.15	5.08	11.22	-
Lao PDR		-	-	-	-	-	-	-	-	-
Malaysia	2012	27.61	42.78	3.89	6.61	80.89	16.09	3.02	19.11	-
Myanmar	2002	14.12	34.41	4.68	1.82	55.03	42.46	2.52	44.97	-
Philippines	2007	15.63	34.87	8.18	22.42	81.11	15.22	2.32	17.55	1.35
Singapore	2012	16.31	61.04	16.63	2.05	96.02	-	-	-	3.98
Thailand	2011	8.97 ^h	12.31 ^h	12.57 ^h	8.86 ^h	42.72 ^h	26.81 ^h	2.62 ^h	29.43 ^h	27.86
Timor-Leste		-	-	-	-	-	-	-	-	-
Viet Nam		-	-	-	-	-	-	-	-	-
Oceania										
Australia		-	-	-	-	-	-	-	-	-
New Zealand		-	-	-	-	-	-	-	-	-
Cook Islands		-	-	-	-	-	-	-	-	-
Fiji		-	-	-	-	-	-	-	-	-
Kiribati		-	-	-	-	-	-	-	-	-
Marshall Islands		-	-	-	-	-	-	-	-	-
Micronesia		-	-	-	-	-	-	-	-	-
Nauru		-	-	-	-	-	-	-	-	-
Niue		-	-	-	-	-	-	-	-	-
Palau		-	-	-	-	-	-	-	-	-
Papua New Guinea		-	-	-	-	-	-	-	-	-
Samoa		-	-	-	-	-	-	-	-	-
Solomon Islands		-	-	-	-	-	-	-	-	-
Tonga		-	-	-	-	-	-	-	-	-
Tuvalu		-	-	-	-	-	-	-	-	-
Vanuatu		-	-	-	-	-	-	-	-	-

Source: UNESCO Institute for Statistics (UIS), August, 2015

N.B.: See Key To All Tables at the end of Table S10.

Table S8: Scientific publications by country, 2005-2014

	Number of publications										Publications per million inhabitants	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2008	2014
Israel	9 884	10 395	10 351	10 576	10 371	10 541	10 853	10 665	11 066	11 196	1 488	1 431
Moldova,Rep. of	213	222	180	228	258	227	258	230	242	248	63	72
Russian Federation	24 694	24 068	25 606	27 418	27 861	26 869	28 285	26 183	28 649	29 099	191	204
Turkey	13 830	14 734	17 281	18 493	20 657	21 374	22 065	22 251	23 897	23 596	263	311
Ukraine	4 029	3 935	4 205	5 020	4 450	4 445	4 909	4 601	4 834	4 895	108	109
European Free Trade Assoc.												
Iceland	427	458	490	575	623	753	716	810	866	864	1 858	2 594
Liechtenstein	33	36	37	46	41	50	41	55	48	52	1 293	1 398
Norway	6 090	6 700	7 057	7 543	8 110	8 499	9 327	9 451	9 947	10 070	1 579	1 978
Switzerland	16 397	17 809	18 341	19 131	20 336	21 361	22 894	23 205	25 051	25 308	2 500	3 102
Sub-Saharan Africa												
Angola	17	13	15	15	32	29	28	36	40	45	1	2
Benin	86	121	132	166	174	194	221	228	253	270	18	25
Botswana	112	152	148	162	133	114	175	156	171	210	84	103
Burkina Faso	116	159	149	193	214	220	268	296	241	272	13	16
Burundi	8	5	14	8	9	20	19	16	17	18	1	2
Cabo Verde	1	6	1	3	10	15	2	11	19	25	6	50
Cameroon	303	395	431	482	497	561	579	553	652	706	25	31
Central African Rep.	20	20	21	17	24	22	23	29	29	32	4	7
Chad	21	25	12	14	18	11	20	13	14	26	1	2
Comoros	3	0	6	3	1	3	6	3	2	0	5	0
Congo	56	81	86	69	77	89	86	92	84	111	18	24
Congo, Dem. Rep. of	21	14	26	38	69	82	109	119	144	114	1	2
Côte d'Ivoire	110	128	155	183	201	205	216	238	194	208	10	10
Djibouti	2	2	3	2	6	6	9	7	6	15	2	17
Equatorial Guinea	1	2	2	2	5	4	5	5	2	4	3	5
Eritrea	26	29	29	15	19	11	13	3	17	22	3	3
Ethiopia	281	293	382	402	484	514	630	638	790	865	5	9
Gabon	70	78	79	82	88	86	117	94	113	137	55	80
Gambia	68	97	71	95	87	97	73	100	111	124	60	65
Ghana	208	227	276	293	333	427	421	477	546	579	13	22
Guinea	12	30	22	16	23	27	23	25	35	49	2	4
Guinea-Bissau	19	17	27	20	19	21	24	22	29	37	13	21
Kenya	571	690	763	855	892	1 035	1 196	1 131	1 244	1 374	22	30
Lesotho	5	14	11	12	21	18	23	26	19	16	6	8
Liberia	4	4	0	6	1	8	8	9	13	11	2	3
Madagascar	114	140	158	152	156	166	182	181	209	188	8	8
Malawi	116	129	183	218	199	244	280	296	296	322	15	19
Mali	71	97	82	93	112	126	149	170	142	141	7	9
Mauritius	49	51	42	44	49	70	61	85	90	89	36	71
Mozambique	55	60	79	84	95	100	157	134	137	158	4	6
Namibia	80	76	65	64	77	57	92	96	121	139	30	59
Niger	68	66	68	81	75	78	94	81	81	108	5	6
Nigeria	1 001	1 150	1 608	1 977	2 076	2 258	2 098	1 756	1 654	1 961	13	11
Rwanda	13	25	36	34	58	66	90	85	114	143	3	12
Sao Tome and Principe	0	2	1	1	1	3	1	1	1	3	6	15
Senegal	210	188	229	228	258	279	343	349	340	338	19	23
Seychelles	12	21	25	21	18	19	31	31	44	34	234	364
Sierra Leone	5	4	7	12	18	23	25	26	29	45	2	7
Somalia	0	2	0	1	3	2	2	2	3	7	0	1
South Africa	4 235	4 711	5 152	5 611	6 212	6 628	7 682	7 934	8 790	9 309	112	175
South Sudan	1	5	3	5	15	8	8	9	8	0	1	0
Swaziland	22	10	18	21	26	52	41	33	40	25	18	20
Tanzania	323	396	428	426	506	541	552	557	666	770	10	15
Togo	34	36	38	44	38	50	68	47	55	61	7	9
Uganda	244	294	406	403	485	577	644	625	702	757	13	19
Zambia	96	116	130	134	130	170	203	204	230	245	11	16
Zimbabwe	173	178	219	217	188	199	227	240	257	310	17	21
Arab states												
Algeria	795	977	1 190	1 339	1 597	1 658	1 758	1 842	2 081	2 302	37	58
Bahrain	93	117	121	114	135	129	130	122	166	155	102	115
Egypt	2 919	3 202	3 608	4 147	4 905	5 529	6 657	6 960	7 613	8 428	55	101
Iraq	89	124	180	195	253	279	352	482	735	841	7	24
Jordan	641	673	835	989	1 022	1 038	1 009	976	1 099	1 093	167	146
Kuwait	526	541	571	659	631	635	637	546	618	604	244	174
Lebanon	462	555	549	621	640	690	701	810	938	1 009	148	203
Libya	70	90	107	126	125	159	123	141	162	181	21	29
Mauritania	27	20	20	14	19	15	21	23	23	23	4	6
Morocco	990	1 009	1 088	1 214	1 236	1 355	1 474	1 496	1 579	1 574	39	47
Oman	283	277	323	327	365	383	447	444	505	591	126	151
Palestine	72	68	75	65	62	52	66	70	85	14	17	3
Qatar	109	128	168	217	238	339	407	517	817	1 242	160	548
Saudi Arabia	1 362	1 450	1 574	1 910	2 273	3 551	5 773	7 226	8 903	10 898	72	371
Sudan	120	110	147	150	215	282	283	244	274	309	4	8
Syrian Arab Rep.	168	153	192	218	211	318	340	304	304	229	11	10
Tunisia	1 214	1 503	1 749	2 068	2 439	2 607	2 900	2 739	2 866	3 068	199	276
United Arab Emirates	530	601	621	713	842	888	1 057	1 096	1 277	1 450	105	154
Yemen	41	52	57	64	106	114	164	162	175	202	3	8

	Number of publications										Publications per million inhabitants	
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2008	2014
Central Asia												
Kazakhstan	200	210	255	221	269	247	276	330	499	600	14	36
Kyrgyzstan	46	47	51	54	51	57	65	67	95	82	10	15
Mongolia	67	71	99	126	166	173	145	167	209	203	48	70
Tajikistan	32	32	45	49	39	51	53	61	67	46	7	5
Turkmenistan	5	6	8	3	6	9	12	19	13	24	1	5
Uzbekistan	296	289	335	306	350	328	363	284	313	323	11	11
South Asia												
Afghanistan	7	10	8	23	19	36	31	39	34	44	1	1
Bangladesh	511	584	669	797	881	995	1 079	1 216	1 302	1 394	5	9
Bhutan	8	23	5	8	16	27	28	23	35	36	12	47
India	24 703	27 785	32 610	37 228	38 967	41 983	45 961	46 106	50 691	53 733	32	42
Maldives	1	2	5	4	5	5	5	8	5	16	13	46
Nepal	158	212	218	253	295	349	336	365	457	455	10	16
Pakistan	1 142	1 553	2 534	3 089	3 614	4 522	5 629	5 522	6 392	6 778	18	37
Sri Lanka	283	279	322	430	432	419	461	475	489	599	21	28
South-East Asia												
Brunei Darussalam	29	31	37	43	48	49	46	64	79	106	111	250
Cambodia	54	70	92	86	126	139	136	168	191	206	6	13
China	66 151	79 740	89 068	102 368	118 749	131 028	153 446	170 189	205 268	256 834	76	184
China,Hong Kong SAR	7 220	7 592	7 440	7 660	8 141	8 527	9 258	9 133	9 725	852	1 099	117
China,Macao SAR	63	96	79	121	143	201	226	368	488	46	238	80
Indonesia	554	612	629	709	893	992	1 103	1 222	1 426	1 476	3	6
Japan	76 950	77 083	75 801	76 244	75 606	74 203	75 924	72 769	75 870	73 128	599	576
Korea,DPR	11	10	11	36	29	34	19	37	21	23	1	1
Korea,Rep. of	25 944	28 202	28 750	33 431	36 659	40 156	43 836	45 765	48 663	50 258	698	1 015
Lao PDR	36	55	47	58	60	95	114	133	126	129	9	19
Malaysia	1 559	1 813	2 225	2 852	4 266	5 777	7 607	7 738	8 925	9 998	104	331
Myanmar	41	41	42	39	43	47	56	52	59	70	1	1
Philippines	486	494	578	663	706	730	873	779	894	913	7	9
Singapore	6 111	6 493	6 457	7 075	7 669	8 459	9 032	9 430	10 280	10 553	1 459	1 913
Thailand	2 503	3 089	3 710	4 335	4 812	5 214	5 790	5 755	6 378	6 343	65	94
Timor-Leste	2	8	3	0	3	3	0	4	6	1	0	1
Viet Nam	570	656	750	943	963	1 207	1 387	1 669	2 105	2 298	11	25
Oceania												
Australia	24 755	27 049	28 649	30 922	33 284	35 228	38 505	39 899	44 926	46 639	1 429	1 974
New Zealand	4 942	5 119	5 373	5 681	5 854	6 453	6 811	6 917	7 303	7 375	1 328	1 620
Cook Islands	1	1	3	0	0	2	3	4	6	7	0	446
Fiji	61	67	67	65	62	59	74	83	98	106	77	120
Kiribati	0	2	2	0	0	0	1	0	3	5	0	48
Marshall Islands	1	5	0	1	6	1	1	5	1	5	19	95
Micronesia	4	7	7	3	9	9	3	7	6	12	29	115
Nauru	0	0	0	0	0	0	1	0	0	1	0	93
Niue	0	0	1	0	0	0	0	0	0	3	0	2 214
Palau	7	9	11	4	6	4	7	5	8	12	197	571
Papua New Guinea	44	51	84	78	76	81	100	112	89	110	12	15
Samoa	3	9	1	1	0	0	0	3	1	4	5	21
Solomon Islands	6	7	8	4	6	11	17	8	11	17	8	30
Tonga	0	4	5	4	2	3	6	2	1	6	39	57
Tuvalu	0	1	0	0	0	0	0	1	1	3	0	264
Vanuatu	12	9	7	9	16	12	21	18	19	19	40	74

Source: data from Thomson Reuters' Web of Science, Science Citation Index Expanded, compiled for UNESCO by Science-Metrix, May 2015

Sources for background data:

Population: United Nations, Department of Economic and Social Affairs, Population Division, 2013; *World Population Prospects: The 2012 Revision*

Table S9: Publications by major field of science, 2008 and 2014

	Publications by field of science													
	Total		Agricultural sciences		Astronomy		Biological sciences		Chemistry		Computer sciences		Engineering	
	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014
Georgia	338	527	0	6	15	27	32	38	30	19	3	1	12	20
Iran, Islamic Rep. of	11 244	25 588	544	839	23	106	1 154	2 142	1 965	3 603	266	855	1 740	5 474
Israel	10 576	11 196	165	154	152	240	2 162	1 974	751	765	442	413	639	646
Moldova, Rep. of	228	248	3	5	0	0	8	15	89	55	0	4	15	18
Russian Federation	27 418	29 099	190	186	636	747	2 341	2 440	5 671	5 159	143	154	2 171	2 755
Turkey	18 493	23 596	837	718	42	104	1 805	2 035	1 359	1 704	299	501	2 301	2 835
Ukraine	5 020	4 895	11	32	145	158	190	233	823	781	9	12	707	490
European Free Trade Assoc.														
Iceland	575	864	14	20	0	16	114	139	18	23	14	20	19	51
Liechtenstein	46	52	0	0	0	0	2	3	8	10	0	0	12	7
Norway	7 543	10 070	184	210	32	80	1 451	1 676	374	407	127	178	501	757
Switzerland	19 131	25 308	325	299	285	493	4 190	4 884	1 676	1 951	350	508	1 326	1 658
Sub-Saharan Africa														
Angola	15	45	0	0	0	0	2	9	0	0	0	0	0	3
Benin	166	270	19	36	0	0	65	71	0	0	0	0	0	1
Botswana	162	210	12	4	0	0	37	55	16	8	2	0	7	4
Burkina Faso	193	272	14	15	0	0	57	64	3	2	0	0	4	12
Burundi	8	18	0	0	0	0	2	2	1	1	0	0	0	0
Cabo Verde	3	25	0	0	0	0	1	3	0	1	0	0	1	1
Cameroon	482	706	47	31	0	2	132	180	30	20	4	3	20	37
Central African Rep.	17	32	0	0	0	0	9	7	0	0	0	0	0	0
Chad	14	26	0	0	0	1	3	5	0	0	0	0	0	0
Comoros	3	0	0	0	0	0	1	0	0	0	0	0	0	0
Congo	69	111	4	3	0	0	27	31	2	2	0	0	0	1
Congo, Dem. Rep. of	38	114	0	2	0	0	15	29	0	2	0	0	0	2
Côte d'Ivoire	183	208	6	10	0	1	55	60	12	9	0	0	1	3
Djibouti	2	15	0	0	0	0	1	1	1	2	0	0	0	0
Equatorial Guinea	2	4	0	0	0	0	0	1	0	0	0	0	0	0
Eritrea	15	22	2	2	0	0	3	5	0	2	0	0	0	1
Ethiopia	402	865	56	63	0	3	77	147	3	20	1	0	4	19
Gabon	82	137	0	2	0	0	45	49	0	0	0	0	1	3
Gambia	95	124	1	0	0	0	42	46	0	0	0	0	1	0
Ghana	293	579	31	45	0	0	92	91	6	15	0	3	7	20
Guinea	16	49	0	2	0	0	5	12	1	0	0	0	0	2
Guinea-Bissau	20	37	0	0	0	0	9	14	0	0	0	0	0	0
Kenya	855	1 374	91	85	0	0	351	403	6	9	0	4	8	22
Lesotho	12	16	1	3	0	0	1	2	1	0	1	0	0	3
Liberia	6	11	1	0	0	0	2	5	0	0	0	0	1	1
Madagascar	152	188	6	9	0	0	69	56	3	3	0	0	2	3
Malawi	218	322	8	9	0	0	54	91	0	0	0	0	0	3
Mali	93	141	6	15	0	0	37	36	1	2	0	0	0	4
Mauritius	44	89	0	4	0	0	9	30	4	7	0	2	5	2
Mozambique	84	158	3	4	0	0	20	29	1	3	0	0	0	1
Namibia	64	139	0	0	12	10	21	35	0	3	0	0	1	5
Niger	81	108	9	16	0	0	17	22	1	4	0	1	1	0
Nigeria	1 977	1 961	265	144	9	41	271	305	45	102	2	6	87	146
Rwanda	34	143	1	7	0	0	10	30	0	1	0	1	0	2
Sao Tome and Principe	1	3	0	0	0	0	1	2	0	0	0	0	0	0
Senegal	228	338	14	18	0	0	59	76	11	11	1	3	7	5
Seychelles	21	34	0	1	0	0	5	11	0	0	0	0	0	0
Sierra Leone	12	45	0	0	0	0	6	5	0	0	0	0	0	0
Somalia	1	7	0	0	0	0	1	1	0	0	0	0	0	0
South Africa	5 611	9 309	187	302	110	328	1 745	2 187	394	748	48	47	362	641
South Sudan	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Swaziland	21	25	3	1	0	0	6	10	2	2	0	0	0	0
Tanzania	426	770	26	28	0	1	131	172	0	12	0	0	11	22
Togo	44	61	4	5	0	0	10	19	1	2	0	0	4	4
Uganda	403	757	16	21	0	1	148	216	2	3	0	3	4	11
Zambia	134	245	4	10	0	0	46	72	0	1	0	0	1	3
Zimbabwe	217	310	27	35	0	0	64	98	0	2	0	1	3	2
Arab States														
Algeria	1 339	2 302	23	50	4	28	104	168	189	250	42	85	332	596
Bahrain	114	155	2	0	0	1	16	16	3	5	2	6	16	28
Egypt	4 147	8 428	121	254	12	49	579	1 351	874	1 246	75	120	545	1 107
Iraq	195	841	8	19	0	4	12	57	22	85	0	22	19	171
Jordan	989	1 093	66	53	2	5	101	117	116	82	36	50	165	129
Kuwait	659	604	7	6	1	2	84	77	54	40	19	35	110	99
Lebanon	621	1 009	9	24	2	3	94	136	37	63	20	35	62	118
Libya	126	181	0	5	0	0	15	21	19	20	1	2	22	28
Mauritania	14	23	0	0	0	0	3	4	6	0	0	0	0	1
Morocco	1 214	1 574	37	55	6	3	123	147	158	158	16	28	114	166
Oman	327	591	10	15	2	5	38	84	23	59	9	6	53	99
Palestine	65	14	1	0	0	0	9	0	13	1	2	0	6	5
Qatar	217	1 242	0	6	1	14	34	185	11	91	4	54	32	227
Saudi Arabia	1 910	10 898	25	152	2	79	208	1 364	176	1 573	39	356	235	1 469
Sudan	150	309	20	18	1	1	40	55	4	28	2	3	6	13
Syrian Arab Rep.	218	229	39	18	0	0	52	36	12	15	0	0	20	18

Publications by field of science																
Geosciences		Mathematics		Medical sciences		Other life sciences		Physics		Psychology		Social sciences		Unclassified articles		
2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	
20	26	65	69	17	38	1	3	105	222	1	0	3	2	34	56	
451	1 245	491	1 004	1 596	2 355	34	90	1 106	2 336	12	36	21	59	1 841	5 444	
405	473	635	630	2 697	2 918	47	52	1 540	1 280	122	106	91	76	728	1 469	
3	6	8	9	8	25	0	1	73	63	0	0	0	1	21	46	
2 612	3 015	1 524	1 573	1 773	1 352	9	8	7 977	7 941	14	31	21	34	2 336	3 704	
1 229	1 341	508	933	6 248	6 852	107	134	1 028	1 648	17	32	79	103	2 634	4 656	
172	205	379	334	144	205	0	4	1 476	1 510	1	1	2	8	961	922	
140	173	18	6	134	191	14	21	38	54	5	9	4	5	43	136	
1	0	0	0	15	13	0	0	5	9	0	0	0	0	3	10	
1 267	1 576	198	270	2 198	2 593	128	162	497	579	82	102	90	129	414	1 351	
1 345	1 830	391	527	5 444	6 603	87	123	2 498	2 736	156	188	120	163	938	3 345	
1	9	0	0	6	9	1	0	0	0	0	1	0	1	5	13	
11	24	3	2	25	47	0	0	11	23	0	0	1	0	31	66	
29	23	5	19	15	42	5	4	7	5	2	1	3	4	22	41	
5	14	1	4	63	67	0	0	3	6	0	0	1	4	42	84	
2	7	0	0	2	1	0	1	0	0	0	0	1	0	0	6	
0	13	0	3	0	1	0	0	0	0	0	0	0	1	1	2	
40	54	11	26	60	98	1	1	58	56	0	0	4	10	75	188	
2	2	0	0	4	8	0	0	0	0	1	0	0	0	1	15	
3	1	0	0	5	6	0	0	0	1	0	0	1	1	2	11	
0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
3	9	3	1	22	36	0	0	0	1	1	0	0	4	7	23	
2	10	0	0	18	35	1	0	0	0	0	0	0	2	2	32	
17	20	11	5	38	45	0	0	4	1	1	1	0	0	38	53	
0	5	0	0	0	3	0	0	0	1	0	0	0	0	0	3	
0	2	0	0	1	0	0	0	0	0	0	0	0	0	1	1	
1	4	1	0	3	3	0	0	1	0	0	0	0	1	4	4	
53	98	8	3	105	198	1	3	15	15	0	3	12	23	67	270	
4	11	1	1	21	30	0	0	1	1	2	1	1	0	6	39	
0	1	0	0	29	39	0	0	0	0	0	0	2	3	20	35	
34	56	3	3	64	157	2	7	2	7	0	1	8	20	44	154	
0	1	0	1	4	18	0	0	0	0	0	0	1	1	5	12	
0	1	0	0	9	12	0	0	0	0	0	0	0	0	2	10	
42	101	1	3	183	306	6	10	5	11	6	9	27	39	129	372	
2	1	0	1	2	2	0	0	1	0	0	0	0	0	3	4	
0	0	0	0	1	4	0	0	1	0	0	0	0	0	0	1	
9	26	7	1	34	25	0	0	3	0	3	4	1	1	15	60	
9	9	0	1	61	118	4	4	1	2	1	0	6	6	74	79	
4	7	0	0	19	43	0	2	1	0	0	0	0	0	25	32	
6	14	6	1	4	7	2	1	2	4	0	0	0	1	6	16	
16	22	1	1	33	48	0	1	0	1	0	0	4	2	6	46	
20	26	0	3	3	26	1	1	3	3	0	0	0	0	3	27	
16	12	2	2	18	18	0	1	1	1	0	0	0	1	16	30	
112	160	29	34	380	377	8	12	26	52	1	6	11	25	731	551	
5	8	0	1	12	49	0	3	0	2	0	1	0	1	6	37	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
26	28	11	17	56	78	0	2	8	10	0	2	3	6	32	82	
8	8	0	0	3	3	0	0	0	0	0	0	0	0	5	11	
2	0	0	0	2	23	0	1	0	0	1	0	0	3	1	13	
0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	1	
576	872	202	355	1 073	1 475	60	58	332	625	39	51	87	126	396	1 494	
0	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0	
1	0	0	2	3	2	1	0	0	1	0	0	0	0	5	7	
40	62	0	0	140	237	6	4	2	6	3	5	12	19	55	202	
1	3	2	1	16	6	0	0	1	1	0	1	0	2	5	17	
18	32	2	3	127	234	8	5	1	2	3	4	9	19	65	203	
6	12	0	0	54	83	1	6	2	1	0	2	5	9	15	46	
27	26	2	2	48	57	1	1	3	1	0	1	6	5	36	79	
79	184	120	162	41	71	1	1	262	374	0	0	2	8	140	325	
7	7	5	4	22	36	1	1	14	19	0	3	1	3	25	26	
212	443	138	222	721	1 453	5	11	456	680	2	3	5	9	402	1 480	
15	68	5	17	50	73	0	1	17	78	0	1	0	3	47	242	
75	71	57	55	145	202	19	56	82	77	1	1	9	7	115	188	
30	33	28	34	130	124	4	3	22	29	1	2	2	5	167	115	
37	62	17	29	247	322	6	13	38	59	0	3	6	8	46	134	
11	16	1	4	13	34	0	0	8	14	0	0	0	0	36	37	
3	7	1	1	0	5	0	0	0	1	0	0	0	0	1	4	
133	148	120	121	240	227	1	1	143	287	2	5	3	5	118	223	
39	67	18	17	50	95	0	7	38	37	0	1	3	0	44	99	
2	1	3	0	9	2	0	0	9	3	2	0	0	0	9	2	
3	26	9	30	59	222	0	13	33	167	0	0	0	12	31	195	
65	484	149	792	463	1 229	8	22	147	942	0	9	4	26	389	2 401	
4	14	1	2	46	67	0	2	5	9	0	0	0	3	21	94	
15	24	5	3	31	48	0	1	13	26	0	0	3	1	28	39	

Table S9: Publications by major field of science, 2008 and 2014

	Publications by field of science													
	Total		Agricultural sciences		Astronomy		Biological sciences		Chemistry		Computer sciences		Engineering	
	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014
Tunisia	2 068	3 068	91	167	3	10	429	514	194	302	39	95	281	455
United Arab Emirates	713	1 450	15	13	1	15	125	173	35	120	35	87	126	367
Yemen	64	202	0	2	0	2	7	19	7	25	0	3	5	17
Central Asia														
Kazakhstan	221	600	5	7	4	10	20	44	66	80	1	4	22	78
Kyrgyzstan	54	82	0	3	0	0	7	13	2	4	0	0	5	1
Mongolia	126	203	1	4	0	1	34	51	7	6	0	0	3	9
Tajikistan	49	46	0	1	4	2	5	4	13	6	0	0	3	3
Turkmenistan	3	24	0	0	0	0	0	1	0	0	0	0	0	2
Uzbekistan	306	323	8	8	11	10	28	27	60	49	0	1	22	30
South Asia														
Afghanistan	23	44	0	0	0	0	5	4	0	4	0	0	0	0
Bangladesh	797	1 394	40	82	1	19	196	255	65	84	16	27	70	143
Bhutan	8	36	1	1	0	0	3	10	0	1	0	0	1	0
India	37 228	53 733	1 711	1 604	327	590	5 891	7 529	6 628	9 437	492	1 041	4 875	7 827
Maldives	4	16	0	0	0	0	0	5	0	0	0	0	0	0
Nepal	253	455	6	19	3	0	55	86	2	15	0	0	5	19
Pakistan	3 089	6 778	143	253	4	74	632	1 120	511	438	32	202	240	645
Sri Lanka	430	599	39	44	0	3	70	90	20	29	2	2	26	29
South-East Asia														
Brunei Darussalam	43	106	0	0	0	0	8	18	1	10	1	2	1	13
Cambodia	86	206	4	7	0	0	25	55	3	1	0	0	1	1
China	102 368	256 834	1 795	4 510	581	1 298	12 870	30 991	21 536	34 956	1 997	7 759	15 109	41 835
China, Hong Kong SAR	7 660	852	51	9	21	5	867	75	631	67	524	74	1 360	185
China, Macao SAR	121	46	2	0	1	1	20	5	5	4	14	7	25	12
Indonesia	709	1 476	37	82	2	2	194	295	56	90	9	15	63	191
Japan	76 244	73 128	1 853	1 438	783	919	14 884	11 792	9 949	8 762	787	882	8 104	6 766
Korea, DPR	36	23	1	0	1	0	5	2	3	1	2	1	10	0
Korea, Rep. of	33 431	50 258	905	1 289	188	339	4 896	6 519	4 137	5 242	812	1 580	6 663	9 624
Lao PDR	58	129	6	11	0	0	14	29	1	1	0	0	1	2
Malaysia	2 852	9 998	120	324	1	7	316	914	582	945	71	391	484	2 231
Myanmar	39	70	3	1	0	0	13	18	1	0	0	0	0	3
Philippines	663	913	99	79	0	0	169	186	24	41	1	3	14	54
Singapore	7 075	10 553	33	62	1	3	981	1 482	859	1 332	344	527	1 541	1 752
Thailand	4 335	6 343	299	299	10	27	1 023	1 247	499	556	44	77	529	714
Timor-Leste	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Viet Nam	943	2 298	48	70	2	12	170	324	41	174	5	100	71	289
Oceania														
Australia	30 922	46 639	1 054	1 224	500	902	7 070	8 683	1 859	2 527	514	952	2 209	4 077
New Zealand	5 681	7 375	400	476	21	64	1 547	1 750	299	308	86	101	318	449
Cook Islands	0	7	0	0	0	0	0	1	0	0	0	0	0	0
Fiji	65	106	4	1	0	0	16	14	7	6	2	6	7	17
Kiribati	0	5	0	0	0	0	0	0	0	0	0	0	0	0
Marshall Islands	1	5	0	1	0	0	0	0	0	0	0	0	0	0
Micronesia	3	12	0	1	0	0	3	4	0	0	0	0	0	0
Nauru	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Niue	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Palau	4	12	1	0	0	0	0	3	0	0	0	0	0	1
Papua New Guinea	78	110	4	1	0	0	46	43	0	2	0	0	0	2
Samoa	1	4	0	1	0	0	0	1	0	0	0	0	0	0
Solomon Islands	4	17	0	0	0	0	1	2	0	0	0	0	0	0
Tonga	4	6	0	1	0	0	0	1	0	0	0	0	0	0
Tuvalu	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Vanuatu	9	19	3	1	0	0	3	3	0	0	0	0	0	0

Source: data from Thomson Reuters' Web of Science, Science Citation Index Expanded, compiled for UNESCO by Science-Metrix, May 2015

Publications by field of science																
Geosciences		Mathematics		Medical sciences		Other life sciences		Physics		Psychology		Social sciences		Unclassified articles		
2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	2008	2014	
137	296	131	184	381	292	0	1	175	311	3	4	5	22	199	415	
50	74	28	50	165	239	0	9	43	90	0	4	4	9	86	200	
5	14	3	6	9	29	0	0	8	25	0	0	0	1	20	59	
21	39	16	54	8	41	0	2	30	122	0	5	1	4	27	110	
17	23	1	3	8	6	0	0	9	11	0	0	0	0	5	18	
33	37	1	9	14	21	1	0	17	25	0	1	1	4	14	35	
1	5	4	8	3	2	0	0	9	7	0	0	0	0	7	8	
1	3	1	14	0	1	0	0	1	0	0	0	0	0	0	3	
6	11	19	41	15	12	0	0	110	105	0	1	1	0	26	28	
1	1	0	0	11	20	3	1	0	0	0	0	1	1	2	13	
87	82	8	20	115	201	3	0	77	107	1	3	13	12	105	359	
1	7	0	0	1	8	0	0	0	2	0	0	1	0	0	7	
1 759	2 777	886	1 040	4 805	5 442	32	40	4 910	6 338	22	52	77	107	4 813	9 909	
3	6	0	0	0	4	0	0	1	0	0	0	0	0	0	1	
28	55	1	1	65	106	0	4	2	12	0	0	5	8	81	130	
107	282	103	248	322	496	4	8	361	660	1	2	5	37	624	2 313	
43	56	2	2	100	109	4	3	13	86	1	2	4	8	106	136	
4	12	2	5	9	18	0	0	2	3	0	0	0	1	15	24	
16	19	0	0	27	45	0	3	0	1	0	0	1	6	9	68	
5 378	14 266	4 649	9 188	8 700	29 295	70	426	18 011	27 681	75	394	185	616	11 412	53 619	
506	37	396	49	1 548	161	88	9	1 081	79	44	6	46	9	497	87	
8	1	6	2	11	7	6	0	11	1	1	0	2	1	9	5	
114	180	14	16	102	164	1	10	39	62	3	13	10	19	65	337	
3 644	3 514	1 560	1 565	17 478	17 360	122	120	12 553	9 287	226	208	158	165	4 143	10 350	
2	1	0	2	3	3	0	0	4	5	0	0	0	0	5	8	
1 065	1 659	863	1 145	5 702	9 359	196	297	5 360	5 231	43	90	60	155	2 541	7 729	
2	19	0	1	22	25	0	0	2	0	0	0	0	3	10	38	
156	524	52	149	326	849	8	21	181	654	5	18	12	51	538	2 920	
4	9	0	0	13	18	0	0	0	2	0	0	1	2	4	17	
82	110	10	6	120	140	3	0	30	53	1	4	8	19	102	218	
158	354	203	251	1 032	1 518	18	73	1 272	1 210	21	46	33	57	579	1 886	
215	278	53	167	853	1 174	42	36	243	377	10	7	24	34	491	1 350	
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
82	195	131	257	120	174	1	5	184	306	1	2	11	9	76	381	
2 928	4 215	722	839	8 859	12 218	674	1 006	2 127	2 342	383	589	335	543	1 688	6 522	
704	896	148	175	1 396	1 661	82	100	268	302	88	97	81	93	243	903	
0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	16	3	1	9	15	1	0	0	0	0	0	1	12	7	18	
0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	2	
0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
2	7	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
1	10	0	0	16	26	0	0	0	0	0	0	0	1	11	25	
0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
0	3	0	0	3	8	0	0	0	0	0	0	0	0	0	4	
0	2	0	0	3	0	0	0	0	0	0	0	0	0	1	2	
0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	4	0	0	2	6	0	0	0	0	0	0	0	1	0	4	

Table S10: Scientific publications in international collaboration, 2008-2014

	Total number of publications	Number of publications with international co-authors	Publications with international co-authors (%)	Average citation rate	Percentage of papers in 10% most-cited papers
	2008–2014	2008–2014	2008–2014	2008–2012	2008–2012
North America					
Canada	357 500	180 314	50.4	1.25	13.1
United States of America	2 151 180	749 287	34.8	1.32	14.7
Latin America					
Argentina	51 685	23 847	46.1	0.93	7.1
Belize	86	77	89.5	1.20	14.6
Bolivia	1 309	1 230	94.0	1.40	11.6
Brazil	232 381	65 925	28.4	0.74	5.8
Chile	34 624	21 220	61.3	0.96	9.0
Colombia	18 558	11 308	60.9	0.99	9.0
Costa Rica	2 821	2 300	81.5	1.15	13.2
Ecuador	2 529	2 280	90.2	1.15	12.1
El Salvador	232	219	94.4	1.19	14.4
Guatemala	650	598	92.0	0.95	8.8
Guyana	121	89	73.6	0.90	3.1
Honduras	289	282	97.6	0.97	6.1
Mexico	68 383	30 721	44.9	0.82	6.4
Nicaragua	400	386	96.5	1.04	12.2
Panama	2 074	1 932	93.2	1.56	16.6
Paraguay	372	338	90.9	0.99	8.7
Peru	4 339	3 916	90.3	1.29	12.5
Suriname	81	68	84.0	0.77	7.5
Uruguay	4 728	3 330	70.4	1.09	9.8
Venezuela	7 450	4 183	56.1	0.69	5.6
Caribbean					
Antigua and Barbuda	21	20	95.2	–	–
Bahamas	132	119	90.2	1.01	6.6
Barbados	380	297	78.2	0.93	9.8
Cuba	5 481	3 964	72.3	0.67	5.5
Dominica	57	53	93.0	–	–
Dominican Rep.	308	292	94.8	0.97	9.6
Grenada	701	654	93.3	0.64	4.4
Haiti	257	251	97.7	1.62	14.8
Jamaica	1 108	557	50.3	0.48	4.0
St Kitts and Nevis	102	92	90.2	1.05	11.3
St Lucia	15	14	93.3	–	–
St Vincent and the Grenadines	12	11	91.7	–	–
Trinidad and Tobago	1 073	661	61.6	0.61	5.6
European Union					
Austria	81 174	53 248	65.6	1.30	14.0
Belgium	115 353	74 806	64.8	1.39	15.3
Bulgaria	15 476	8 480	54.8	0.91	7.1
Croatia	20 248	8 861	43.8	0.83	7.0
Cyprus	4 540	3 453	76.1	1.28	13.5
Czech Rep.	64 149	32 788	51.1	0.97	8.8
Denmark	85 311	52 635	61.7	1.50	16.6
Estonia	8 852	5 381	60.8	1.26	13.0
Finland	67 217	38 945	57.9	1.27	12.7
France	438 755	238 170	54.3	1.20	12.7
Germany	608 713	320 067	52.6	1.24	13.5
Greece	69 089	31 843	46.1	1.06	10.3
Hungary	39 242	22 322	56.9	1.01	9.4
Ireland	42 916	25 368	59.1	1.34	14.3
Italy	366 894	168 632	46.0	1.17	12.0
Latvia	3 482	1 942	55.8	0.74	6.7
Lithuania	12 329	4 676	37.9	0.75	5.8
Luxembourg	4 013	3 330	83.0	1.24	13.3
Malta	1 003	665	66.3	1.00	11.8
Netherlands	202 703	118 246	58.3	1.48	16.8
Poland	144 090	49 019	34.0	0.72	5.7
Portugal	69 026	37 997	55.0	1.12	11.2
Romania	45 236	17 192	38.0	0.81	7.5
Slovakia	19 974	11 493	57.5	0.83	7.0
Slovenia	21 836	10 979	50.3	1.04	9.4
Spain	309 076	147 698	47.8	1.16	11.8
Sweden	136 603	84 276	61.7	1.34	14.1
United Kingdom	582 678	325 807	55.9	1.36	15.1

Main foreign collaborators (2008–2014)

	First collaborator	Second collaborator	Third collaborator	Fourth collaborator	Fifth collaborator
	United States of America (85 069) China (119 594)	United Kingdom (25 879) United Kingdom (100 537)	China (19 522) Germany (94 322)	Germany (19 244) Canada (85 069)	France (18 956) France (62 636)
	United States of America (8 000) United States of America (60) United States of America (425) United States of America (24 964) United States of America (7 850) United States of America (4 386) United States of America (1 169) United States of America (1 070) United States of America (108) United States of America (388) United States of America (45) United States of America (179) United States of America (12 873) United States of America (157) United States of America (1 155) United States of America (142) United States of America (2 035)	Spain (5 246) United Kingdom (20) Brazil (193) France (8 938) Spain (4 475) Spain (3 220) Spain (365) Spain (492) Mexico (45) Mexico (116) Canada (20) Mexico (58) Spain (6 793) Sweden (86) Germany (311) Brazil (113) Brazil (719)	Brazil (4 237) Canada (9) France (192) United Kingdom (8 784) Germany (3 879) Brazil (2 555) Brazil (295) Brazil (490) Spain (38) Brazil (74) United Kingdom (13) Brazil (42) France (3 818) Mexico (52) United Kingdom (241) Argentina (88) United Kingdom (646)	Germany (3 285) Mexico (8) Spain (187) Germany (8 054) France (3 562) United Kingdom (1 943) Mexico (272) United Kingdom (475) Guatemala (34); Honduras (34) United Kingdom (63) France (12) Argentina (41) United Kingdom (3 525) Costa Rica (51) Canada (195) Spain (62) Spain (593)	France (3 093) Australia (7); France (7) United Kingdom (144) Spain (7 268) United Kingdom (3 443) France (1 854) France (260) France (468) Costa Rica (54) Netherlands (8) Colombia (40) Germany (3 345) Spain (48) Brazil (188) Uruguay (36); Peru (36) France (527) Germany (5); France (5); Ecuador (5) France (365) Brazil (506)
	Netherlands (38) United States of America (854) United States of America (1 417)	United States of America (16) Brazil (740) Spain (1093)	Canada (8) Argentina (722) France (525)	Brazil (6) Spain (630) Mexico (519)	Germany (5); France (5); Ecuador (5) France (365) Brazil (506)
	United States of America (11) United States of America (97) United States of America (139) Spain (1 235)	St Vincent and the Grenadines (4); France (4) Canada (37) United Kingdom (118) Mexico (806)	United Kingdom (34) Canada (86) Brazil (771)	United Kingdom (3); St Kitts and Nevis (3); Barbados (3) Germany (8) Germany (48) United States of America (412)	Australia (6) Belgium (43); Japan (43) Germany (392)
	United States of America (29) United States of America (168) United States of America (532) United States of America (208) United States of America (282) United States of America (46)	Canada (7) United Kingdom (52) Iran, Islamic Rep. of (91) France (38) United Kingdom (116) Canada (17)	United Kingdom (6); Trinidad and Tobago (6); Hungary (6) Mexico (49) United Kingdom (77) United Kingdom (18) Canada (77) South Africa (12)	Spain (45) Poland (63) South Africa (14) Trinidad and Tobago (43) United Kingdom (10)	Brazil (38) Turkey (46) Canada (13) South Africa (28) China (8)
	South Africa (4) United States of America (6) United States of America (251)	United States of America (3) Barbados (4); Antigua and Barbuda (4) United Kingdom (183)	St Kitts and Nevis (2); Costa Rica (2); Antigua and Barbuda (2); Barbados (2); United Kingdom (2); Canada (2) Canada (95)	Trinidad and Tobago (3); St Kitts and Nevis (3) India (63)	Jamaica (43)
	Germany (21 483) United States of America (18 047) Germany (2 632) Germany (2 383) Greece (1 426) Germany (8 265) United States of America (15 933) Finland (1 488) United States of America (10 756) United States of America (62 636) United States of America (94 322) United States of America (10 374) United States of America (6 367) United Kingdom (9 735) United States of America (53 913) Germany (500) Germany (1 214) France (969) United Kingdom (318) United States of America (36 295) United States of America (13 207) Spain (10 019) France (4 424) Czech Rep. (3 732) United States of America (2 479) United States of America (39 380) United States of America (24 023) United States of America (100 537)	United States of America (13 783) France (17 743) United States of America (1 614) United States of America (2 349) United States of America (1 170) United States of America (7 908) United Kingdom (12 176) United Kingdom (1 390) United Kingdom (8 507) Germany (42 178) United Kingdom (54 779) United Kingdom (8 905) Germany (6 099) United States of America (7 426) United Kingdom (34 639) United States of America (301) United States of America (1 065) Germany (870) Italy (197) Germany (29 922) Germany (12 591) United States of America (8 107) Germany (3 876) Germany (2 719) Germany (2 315) United Kingdom (28 979) United Kingdom (17 928) Germany (54 779)	United Kingdom (8 978) United Kingdom (15 109) Italy (1 566) Italy (1 900) United Kingdom (1 065) France (5 884) Germany (11 359) Germany (1 368) Germany (8 167) United Kingdom (40 595) France (42 178) Germany (7 438) United Kingdom (4 312) Germany (4 580) Germany (33 279) Lithuania (298) United Kingdom (982) Belgium (495) France (126) United Kingdom (29 606) United Kingdom (8 872) United Kingdom (7 524) United States of America (3 533) United States of America (2 249) Italy (2 195) Germany (26 056) Germany (16 731) France (40 595)	Italy (7 678) Germany (14 718) France (1 505) United Kingdom (1 771) Germany (829) United Kingdom (5 775) Sweden (8 906) United States of America (1 336) Sweden (7 244) Italy (32 099) Switzerland (34 164) Italy (6 184) France (3 740) France (3 541) France (32 099) Russian Federation (292) France (950) United Kingdom (488) Germany (120) France (17 549) France (8 795) France (6 054) Italy (3 268) United Kingdom (1 750) United Kingdom (1 889) France (25 977) France (10 561) Italy (34 639)	France (7 425) Netherlands (14 307) United Kingdom (1 396) France (1 573) Italy (776) Italy (4 456) France (6 978) Sweden (1 065) France (5 109) Spain (25 977) Italy (33 279) France (5 871) Italy (3 588) Italy (2 751) Spain (24 571) United Kingdom (289) Poland (927) United States of America (470) United States of America (109) Italy (15 190) Italy (6 944) Germany (5 798) United Kingdom (2 530) France (1 744) France (1 666) Italy (24 571) Italy (9 371) Netherlands (29 606)

Table S10: Scientific publications in international collaboration, 2008-2014

	Total number of publications	Number of publications with international co-authors	Publications with international co-authors (%)	Average citation rate	Percentage of papers in 10% most-cited papers
	2008–2014	2008–2014	2008–2014	2008–2012	2008–2012
South–East Europe					
Albania	782	471	60.2	0.56	4.0
Bosnia and Herzegovina	2 304	1 397	60.6	0.73	6.4
Macedonia, FYR	1 795	1 198	66.7	0.80	6.7
Montenegro	995	731	73.5	0.71	5.8
Serbia	28 782	10 635	37.0	0.89	7.5
Other Europe and West Asia					
Armenia	4 472	2 688	60.1	1.03	9.2
Azerbaijan	3 013	1 598	53.0	0.73	5.6
Belarus	7 318	4 274	58.4	0.79	6.6
Georgia	3 174	2 283	71.9	1.29	10.7
Iran, Islamic Rep. of	137 557	29 366	21.3	0.81	7.4
Israel	75 268	37 142	49.3	1.19	11.9
Moldova, Rep. of	1 691	1 204	71.2	0.77	7.9
Russian Federation	194 364	64 190	33.0	0.52	3.8
Turkey	152 333	28 643	18.8	0.71	5.8
Ukraine	33 154	15 761	47.5	0.59	4.4
European Free Trade Assoc.					
Iceland	5 207	4 029	77.4	1.71	18.3
Liechtenstein	333	302	90.7	1.12	12.3
Norway	62 947	38 581	61.3	1.29	13.4
Switzerland	157 286	108 371	68.9	1.56	18.0
Sub-Saharan Africa					
Angola	225	217	96.4	0.67	6.3
Benin	1 506	1 320	87.6	0.82	6.8
Botswana	1 121	894	79.8	1.14	7.6
Burkina Faso	1 704	1 557	91.4	0.96	8.0
Burundi	107	103	96.3	0.70	10.2
Cabo Verde	85	85	100.0	1.45	18.4
Cameroon	4 030	3 257	80.8	0.71	4.9
Central African Rep.	176	166	94.3	0.84	8.7
Chad	116	110	94.8	0.72	5.1
Comoros	18	18	100.0	–	–
Congo	608	555	91.3	0.90	8.2
Congo, Dem. Rep. of	675	628	93.0	1.00	10.3
Côte d'Ivoire	1 445	1 056	73.1	0.71	7.2
Djibouti	51	45	88.2	–	–
Equatorial Guinea	27	27	100.0	–	–
Eritrea	100	92	92.0	0.71	10.6
Ethiopia	4 323	3 069	71.0	0.82	6.3
Gabon	717	679	94.7	0.98	9.0
Gambia	687	655	95.3	1.24	15.4
Ghana	3 076	2 401	78.1	1.08	8.8
Guinea	198	193	97.5	0.96	7.6
Guinea-Bissau	172	172	100.0	1.09	14.9
Kenya	7 727	6 705	86.8	1.19	11.3
Lesotho	135	123	91.1	0.72	6.7
Liberia	56	56	100.0	–	–
Madagascar	1 234	1 136	92.1	0.89	8.8
Malawi	1 855	1 672	90.1	1.38	13.1
Mali	933	891	95.5	1.17	12.0
Mauritius	488	337	69.1	0.73	5.9
Mozambique	865	834	96.4	1.86	12.6
Namibia	646	583	90.2	0.93	10.0
Niger	598	560	93.6	0.93	9.3
Nigeria	13 780	5 109	37.1	0.60	4.1
Rwanda	590	562	95.3	1.05	9.0
Sao Tome and Principe	11	11	100.0	–	–
Senegal	2 135	1 841	86.2	0.85	8.1
Seychelles	198	190	96.0	0.99	8.1
Sierra Leone	178	171	96.1	0.85	9.1
Somalia	20	20	100.0	–	–
South Africa	52 166	29 473	56.5	1.04	9.8
South Sudan	53	52	98.1	–	–
Swaziland	238	205	86.1	0.91	9.7
Tanzania	4 018	3 588	89.3	1.17	13.0
Togo	363	302	83.2	0.52	2.8
Uganda	4 193	3 686	87.9	1.33	12.9
Zambia	1 316	1 263	96.0	1.25	12.6
Zimbabwe	1 638	1 356	82.8	1.21	11.9

Main foreign collaborators (2008–2014)

First collaborator	Second collaborator	Third collaborator	Fourth collaborator	Fifth collaborator
Italy (144)	Germany (68)	Greece (61)	France (52)	Serbia (46)
Serbia (555)	Croatia (383)	Slovenia (182)	Germany (165)	United States of America (141)
Serbia (243)	Germany (215)	United States of America (204)	Bulgaria (178)	Italy (151)
Serbia (411)	Italy (92)	Germany (91)	France (86)	Russian Federation (81)
Germany (2 240)	United States of America (2 149)	Italy (1 892)	United Kingdom (1 825)	France (1 518)
United States of America (1 346)	Germany (1 333)	France (1 247); Russian Federation (1 247)		Italy (1 191)
Turkey (866)	Russian Federation (573)	United States of America (476)	Germany (459)	United Kingdom (413)
Russian Federation (2 059)	Germany (1 419)	Poland (1 204)	United States of America (1 064)	France (985)
United States of America (1 153)	Germany (1 046)	Russian Federation (956)	United Kingdom (924)	Italy (909)
United States of America (6 377)	Canada (3 433)	United Kingdom (3 318)	Germany (2 761)	Malaysia (2 402)
United States of America (19 506)	Germany (7 219)	United Kingdom (4 895)	France (4 422)	Italy (4 082)
Germany (276)	United States of America (235)	Russian Federation (214)	Romania (197)	France (153)
Germany (17 797)	United States of America (17 189)	France (10 475)	United Kingdom (8 575)	Italy (6 888)
United States of America (10 591)	Germany (4 580)	United Kingdom (4 036)	Italy (3 314)	France (3 009)
Russian Federation (3 943)	Germany (3 882)	United States of America (3 546)	Poland (3 072)	France (2 451)
United States of America (1 514)	United Kingdom (1 095)	Sweden (1 078)	Denmark (750)	Germany (703)
Austria (121)	Germany (107)	Switzerland (100)	United States of America (68)	France (19)
United States of America (10 774)	United Kingdom (8 854)	Sweden (7 540)	Germany (7 034)	France (5 418)
Germany (34 164)	United States of America (33 638)	United Kingdom (20 732)	France (19 832)	Italy (15 618)
Portugal (73)	United States of America (34)	Brazil (32)	United Kingdom (31)	Spain (26); France (26)
France (529)	Belgium (206)	United States of America (155)	United Kingdom (133)	Netherlands (125)
United States of America (367)	South Africa (241)	United Kingdom (139)	Canada (58)	Germany (51)
France (676)	United States of America (261)	United Kingdom (254)	Belgium (198)	Germany (156)
Belgium (38)	China (22)	United States of America (18)	Kenya (16)	United Kingdom (13)
Portugal (42)	Spain (23)	United Kingdom (15)	United States of America (11)	Germany (8)
France (1 153)	United States of America (528)	Germany (429)	South Africa (340)	United Kingdom (339)
France (103)	United States of America (32)	Cameroon (30)	Gabon (29)	Senegal (23)
France (66)	Switzerland (28)	Cameroon (20)	United States of America (14); United Kingdom (14)	
France (7)	United Kingdom (4)	Morocco (3); Madagascar (3)		United States of America (2); Italy (2)
France (191)	United States of America (152)	Belgium (132)	United Kingdom (75)	Switzerland (68)
Belgium (286)	United States of America (189)	France (125)	United Kingdom (77)	Switzerland (65)
France (610)	United States of America (183)	Switzerland (162)	United Kingdom (109)	Burkina Faso (93)
France (31)	United States of America (6); United Kingdom (6)		Canada (5)	Spain (4)
United States of America (13)	Spain (11)	United Kingdom (10)	Cameroon (4); South Africa (4)	
United States of America (24)	India (20)	Italy (18)	Netherlands (13)	United Kingdom (11)
United States of America (776)	United Kingdom (538)	Germany (314)	India (306)	Belgium (280)
France (334)	Germany (231)	United States of America (142)	United Kingdom (113)	Netherlands (98)
United Kingdom (473)	United States of America (216)	Belgium (92)	Netherlands (69)	Kenya (67)
United States of America (830)	United Kingdom (636)	Germany (291)	South Africa (260)	Netherlands (256)
France (71)	United Kingdom (38)	United States of America (31)	China (27)	Senegal (26)
Denmark (112)	Sweden (50)	Gambia (40); United Kingdom (40)	–	United States of America (24)
United States of America (2 856)	United Kingdom (1 821)	South Africa (750)	Germany (665)	Netherlands (540)
South Africa (56)	United States of America (34)	United Kingdom (13)	Switzerland (10)	Australia (8)
United States of America (36)	United Kingdom (12)	France (11)	Ghana (6)	Canada (5)
France (530)	United States of America (401)	United Kingdom (180)	Germany (143)	South Africa (78)
United States of America (739)	United Kingdom (731)	South Africa (314)	Netherlands (129); Kenya (129)	
United States of America (358)	France (281)	United Kingdom (155)	Burkina Faso (120)	Senegal (97)
United Kingdom (101)	United States of America (80)	France (44)	India (43)	South Africa (40)
United States of America (239)	Spain (193)	South Africa (155)	United Kingdom (138)	Portugal (113)
South Africa (304)	United States of America (184)	Germany (177)	United Kingdom (161)	Australia (115)
France (238)	United States of America (145)	Nigeria (82)	United Kingdom (77)	Senegal (71)
United States of America (1 309)	South Africa (953)	United Kingdom (914)	Germany (434)	China (329)
United States of America (244)	Belgium (107)	Netherlands (86)	Kenya (83)	United Kingdom (82)
Portugal (5); United Kingdom (5)		United States of America (4)	Denmark (2); Angola (2)	
France (1 009)	United States of America (403)	United Kingdom (186)	Burkina Faso (154)	Belgium (139)
United Kingdom (69)	United States of America (64)	Switzerland (52)	France (41)	Australia (31)
United States of America (87)	United Kingdom (41)	Nigeria (20)	China (16); Germany (16)	
Kenya (9)	Egypt (8)	United Kingdom (6)	United States of America (5)	Switzerland (3)
United States of America (9 920)	United Kingdom (7 160)	Germany (4 089)	Australia (3 448)	France (3 445)
United States of America (33)	United Kingdom (22)	Uganda (16)	Kenya (8); Sudan (8)	
South Africa (104)	United States of America (59)	United Kingdom (45)	Tanzania (12); Switzerland (12)	
United States of America (1 212)	United Kingdom (1 129)	Kenya (398)	Switzerland (359)	South Africa (350)
France (146)	Benin (57)	United States of America (50)	Burkina Faso (47)	Côte d'Ivoire (31)
United States of America (1 709)	United Kingdom (1031)	Kenya (477)	South Africa (409)	Sweden (311)
United States of America (673)	United Kingdom (326)	South Africa (243)	Switzerland (101)	Kenya (100)
South Africa (526)	United States of America (395)	United Kingdom (371)	Netherlands (132)	Uganda (124)

Table S10: Scientific publications in international collaboration, 2008-2014

	Total number of publications	Number of publications with international co-authors	Publications with international co-authors (%)	Average citation rate	Percentage of papers in 10% most-cited papers
	2008–2014	2008–2014	2008–2014	2008–2012	2008–2012
Arab States					
Algeria	12 577	7 432	59.1	0.68	5.2
Bahrain	951	648	68.1	0.53	3.8
Egypt	44 239	22 568	51.0	0.77	6.5
Iraq	3 137	1 915	61.0	0.55	3.7
Jordan	7 226	3 747	51.9	0.80	5.9
Kuwait	4 330	2 115	48.8	0.73	6.1
Lebanon	5 409	3 583	66.2	0.85	7.9
Libya	1 017	810	79.6	0.65	4.7
Mauritania	138	133	96.4	0.87	7.5
Morocco	9 928	6 235	62.8	0.69	5.9
Oman	3 062	2 137	69.8	0.76	6.3
Palestine	414	232	56.0	0.54	3.8
Qatar	3 777	3 279	86.8	1.07	11.5
Saudi Arabia	40 534	29 271	72.2	1.09	10.8
Sudan	1 757	1 325	75.4	0.97	5.9
Syrian Arab Rep.	1 924	1 193	62.0	0.81	6.2
Tunisia	18 687	9 813	52.5	0.66	4.5
United Arab Emirates	7 323	5 272	72.0	0.85	7.7
Yemen	987	841	85.2	0.78	7.7
Central Asia					
Kazakhstan	2 442	1 496	61.3	0.51	4.5
Kyrgyzstan	471	373	79.2	0.67	6.2
Mongolia	1 189	1 134	95.4	0.73	6.2
Tajikistan	366	250	68.3	0.39	2.9
Turkmenistan	86	76	88.4	0.77	7.4
Uzbekistan	2 267	1 373	60.6	0.48	3.0
South Asia					
Afghanistan	226	218	96.5	0.74	9.7
Bangladesh	7 664	5 445	71.0	0.79	6.8
Bhutan	173	157	90.8	0.76	7.6
India	314 669	67 146	21.3	0.76	6.4
Maldives	48	47	97.9	–	–
Nepal	2 510	1 919	76.5	1.02	8.3
Pakistan	35 546	15 034	42.3	0.81	7.2
Sri Lanka	3 305	2 175	65.8	0.96	6.0
South–East Asia					
Brunei Darussalam	435	315	72.4	0.85	6.6
Cambodia	1 052	999	95.0	1.39	14.3
China	1 137 882	277 145	24.4	0.98	10.0
China, Hong Kong SAR	53 296	34 611	64.9	1.34	14.9
China, Macao SAR	1 593	1 264	79.3	1.24	12.4
Indonesia	7 821	6 712	85.8	0.96	8.4
Japan	523 744	142 163	27.1	0.88	7.8
Korea, DPR	199	175	87.9	0.65	3.1
Korea, Rep. of	298 768	82 513	27.6	0.89	7.9
Lao PDR	715	695	97.2	1.02	10.0
Malaysia	47 163	21 895	46.4	0.83	8.4
Myanmar	366	343	93.7	0.69	6.4
Philippines	5 558	3 864	69.5	1.15	12.1
Singapore	62 498	35 697	57.1	1.47	16.4
Thailand	38 627	19 058	49.3	0.95	8.2
Timor–Leste	17	16	94.1	–	–
Viet Nam	10 572	8 089	76.5	0.86	8.1
Oceania					
Australia	269 403	138 976	51.6	1.31	14.1
New Zealand	46 394	27 305	58.9	1.22	12.0
Cook Islands	22	22	100.0	–	–
Fiji	547	453	82.8	0.93	7.9
Kiribati	9	9	100.0	–	–
Marshall Islands	20	17	85.0	–	–
Micronesia	49	38	77.6	–	–

Main foreign collaborators (2008–2014)				
First collaborator	Second collaborator	Third collaborator	Fourth collaborator	Fifth collaborator
France (4 883)	Saudi Arabia (524)	Spain (440)	United States of America (383)	Italy (347)
Saudi Arabia (137)	Egypt (101)	United Kingdom (93)	United States of America (89)	Tunisia (75)
Saudi Arabia (7 803)	United States of America (4 725)	Germany (2 762)	United Kingdom (2 162)	Japan (1 755)
Malaysia (595)	United Kingdom (281)	United States of America (279)	China (133)	Germany (128)
United States of America (1 153)	Germany (586)	Saudi Arabia (490)	United Kingdom (450)	Canada (259)
United States of America (566)	Egypt (332)	United Kingdom (271)	Canada (198)	Saudi Arabia (185)
United States of America (1 307)	France (1 277)	Italy (412)	United Kingdom (337)	Canada (336)
United Kingdom (184)	Egypt (166)	India (99)	Malaysia (79)	France (78)
France (62)	Senegal (40)	United States of America (18)	Spain (16)	Tunisia (15)
France (3 465)	Spain (1 338)	United States of America (833)	Italy (777)	Germany (752)
United States of America (333)	United Kingdom (326)	India (309)	Germany (212)	Malaysia (200)
Egypt (50)	Germany (48)	United States of America (35)	Malaysia (26)	United Kingdom (23)
United States of America (1 168)	United Kingdom (586)	China (457)	France (397)	Germany (373)
Egypt (7 803)	United States of America (5 794)	United Kingdom (2 568)	China (2 469)	India (2 455)
Saudi Arabia (213)	Germany (193)	United Kingdom (191)	United States of America (185)	Malaysia (146)
France (193)	United Kingdom (179)	Germany (175)	United States of America (170)	Italy (92)
France (5 951)	Spain (833)	Italy (727)	Saudi Arabia (600)	United States of America (544)
United States of America (1505)	United Kingdom (697)	Canada (641)	Germany (389)	Egypt (370)
Malaysia (255)	Egypt (183)	Saudi Arabia (158)	United States of America (106)	Germany (72)
Russian Federation (565)	United States of America (329)	Germany (240)	United Kingdom (182)	Japan (150)
Russian Federation (99)	Turkey (74); Germany (74)		United States of America (56)	Kazakhstan (43)
Japan (301)	United States of America (247)	Russian Federation (242)	Germany (165)	Korea, Rep. of (142)
Pakistan (68)	Russian Federation (58)	United States of America (46)	Germany (26)	United Kingdom (20)
Turkey (50)	Russian Federation (11)	United States of America (6); Italy (6)		Germany (4); China (4)
Russian Federation (326)	Germany (258)	United States of America (198)	Italy (131)	Spain (101)
United States of America (97)	United Kingdom (52)	Pakistan (29)	Japan (26); Egypt (26)	
United States of America (1 394)	Japan (1 218)	United Kingdom (676)	Malaysia (626)	Korea, Rep. of (468)
United States of America (44)	Australia (40)	Thailand (37)	Japan (26)	India (18)
United States of America (21 684)	Germany (8 540)	United Kingdom (7 847)	Korea, Rep. of (6 477)	France (5 859)
India (14)	Italy (11)	United States of America (8)	Australia (6)	United Kingdom (5); Sweden (5); Japan (5)
United States of America (486)	India (411)	United Kingdom (272)	Japan (256)	Korea, Rep. of (181)
United States of America (3 074)	China (2 463)	United Kingdom (2 460)	Saudi Arabia (1 887)	Germany (1 684)
United Kingdom (548)	United States of America (516)	Australia (458)	India (332)	Japan (285)
Malaysia (68)	United Kingdom (47)	United States of America (46)	Australia (44)	Singapore (42)
United States of America (307)	Thailand (233)	France (230)	United Kingdom (188)	Japan (136)
United States of America (119 594)	Japan (26 053)	United Kingdom (25 151)	China, Hong Kong SAR (22 561)	Australia (21 058)
China (22 561)	United States of America (7 396)	Australia (2 768)	United Kingdom (2 675)	Canada (1 679)
China (809)	China, Hong Kong SAR (412)	United States of America (195)	United Kingdom (51)	Portugal (40)
Japan (1 848)	United States of America (1 147)	Australia (1 098)	Malaysia (950)	Netherlands (801)
United States of America (50 506)	China (26 053)	Germany (15 943)	United Kingdom (14 796)	Korea, Rep. of (12 108)
China (85)	Korea, Rep. of (41)	Germany (32)	United States of America (12)	Australia (9)
United States of America (42 004)	Japan (12 108)	China (11 993)	India (6 477)	Germany (6 341)
Thailand (191)	United Kingdom (161)	United States of America (136)	France (125)	Australia (117)
United Kingdom (3 076)	India (2 611)	Australia (2 425)	Iran, Islamic Rep. of (2 402)	United States of America (2 308)
Japan (102)	Thailand (91)	United States of America (75)	Australia (46)	United Kingdom (43)
United States of America (1 298)	Japan (909)	Australia (538)	China (500)	United Kingdom (410)
China (11 179)	United States of America (10 680)	Australia (4 166)	United Kingdom (4 055)	Japan (2 098)
United States of America (6 329)	Japan (4 108)	United Kingdom (2 749)	Australia (2 072)	China (1 668)
Australia (8)	Japan (3); Portugal (3); Czech Rep. (3)			China (2); United States of America (2)
United States of America (1 401)	Japan (1 384)	Korea, Rep. of (1 289)	France (1 126)	United Kingdom (906)
United States of America (43 225)	United Kingdom (29 324)	China (21 058)	Germany (15 493)	Canada (12 964)
United States of America (8 853)	Australia (7 861)	United Kingdom (6 385)	Germany (3 021)	Canada (2 500)
United States of America (17)	Australia (11); New Zealand (11)		France (4)	Brazil (3); Japan (3)
Australia (229)	United States of America (110)	New Zealand (94)	United Kingdom (81)	India (66)
Australia (7)	New Zealand (6)	United States of America (5); Fiji (5)		Papua New Guinea (4)
United States of America (11)	Micronesia (6)	Fiji (5); Australia (5)		New Zealand (3); Palau (3); Papua New Guinea (3)
United States of America (26)	Australia (9)	Fiji (8)	Marshall Islands (6)	New Zealand (5); Palau (5)

Table S10: Scientific publications in international collaboration, 2008-2014

	Total number of publications	Number of publications with international co-authors	Publications with international co-authors (%)	Average citation rate	Percentage of papers in 10% most-cited papers
	2008–2014	2008–2014	2008–2014	2008–2012	2008–2012
Nauru	2	2	100.0	–	–
Niue	3	3	100.0	–	–
Palau	46	40	87.0	–	–
Papua New Guinea	646	583	90.2	0.88	9.0
Samoa	9	8	88.9	–	–
Solomon Islands	74	73	98.6	1.00	13.6
Tonga	24	24	100.0	–	–
Tuvalu	5	5	100.0	–	–
Vanuatu	114	108	94.7	0.81	3.3

Source: data from Thomson Reuters' Web of Science, Science Citation Index Expanded, compiled for UNESCO by Science–Metrix, May 2015

KEY TO ALL TABLES:

- : data unavailable
- n/+n: data refer to n years before or after reference year
- 0: magnitude nil or negligible
- a: not applicable
- b: overestimated or based on overestimated data
- c: including other classes
- d: including business enterprise
- e: including higher education
- f: including private non–profit
- g: included elsewhere
- h: excluding business enterprise
- i: excluding government
- j: excluding higher education
- k: government only
- l: higher education only
- m: included in business
- n: included in government
- o: excluding most or all capital expenditures
- p: excluding defence (all or mostly)
- q: underestimated or partial data
- r: estimation
- s: break in series with previous year for which data are shown
- t: the sum of the breakdown does not add to the total
- u: based on R&D budget
- v: provisional data

METHODOLOGICAL NOTE

Bibliographic data

Publication data have been compiled for UNESCO by Science–Metrix from Thomson Reuters' Web of Science, Science Citation Index Expanded, as of May 2015.

Economic data

Data on economic indicators, such as gross domestic product (GDP) and purchasing power parity (PPP), are based on the World Bank's economic data release of April 2015: <http://data.worldbank.org/products/wdi>. (See the note on the cut–off date.)

It should be noted that, since 2014, the UNESCO Institute for Statistics has used data on total general government expenditure (all sectors) from the International Monetary Fund's *World Economic Outlook* database as the denominator for its indicator entitled Expenditure on education as a percentage of total government expenditure. For more information about the change in methodology, please visit: www.uis.unesco.org/education

Main foreign collaborators (2008–2014)					
First collaborator	Second collaborator	Third collaborator	Fourth collaborator	Fifth collaborator	
Australia (2)	Solomon Islands (1); Cook Islands (1); Micronesia (1); Vanuatu (1); France (1); Niue (1); Kiribati (1); Tonga (1); Palau (1); Iceland (1); Marshall Islands (1); Tuvalu (1); United States of America (1); New Zealand (1); Fiji (1); Papua New Guinea (1)				
Australia (3); Micronesia (3)		France (2); Solomon Islands (2); Cook Islands (2); Papua New Guinea (2); Fiji (2); Palau (2); Vanuatu (2); Tonga (2); Kiribati (2); Tuvalu (2); New Zealand (2); United States of America (2); Iceland (2); Marshall Islands (2)			
United States of America (27)	Australia (20)	Japan (5); Micronesia (5)			Papua New Guinea (3); Fiji (3); Marshall Islands (3); Philippines (3)
Australia (375)	United States of America (197)	United Kingdom (103)	Spain (91)		Switzerland (70)
United States of America (5)	Australia (4)	Japan (1); Ecuador (1); Spain (1); New Zealand (1); Cook Islands (1); Costa Rica (1); France (1); Chile (1); China (1); Fiji (1)			
Australia (48)	United States of America (15)	Vanuatu (10)	United Kingdom (9)		Fiji (8)
Australia (17)	Fiji (13)	New Zealand (11)	United States of America (9)		France (3)
United States of America (3); Japan (3); Australia (3)			Solomon Islands (2); Tonga (2); Cook Islands (2); Iceland (2); New Zealand (2); Kiribati (2); Palau (2); Micronesia (2); Fiji (2); Marshall Islands (2); Papua New Guinea (2); France (2); Niue (2); Vanuatu (2)		
France (49)	Australia (45)	United States of America (24)	Solomon Islands (10); Japan (10); New Zealand (10)		

Education data

The UNESCO Institute for Statistics compiles education statistics in aggregate form from official administrative sources at the national level. These include data on educational programmes, access, participation, progression, completion, internal efficiency and human and financial resources. These data are collected annually by the UNESCO Institute for Statistics and its partner agencies through the following two major surveys: the education questionnaires by the UNESCO Institute for Statistics and the joint Education Data Collection involving UNESCO, the Organisation for Economic Co-operation and Development (OECD) and Eurostat. These questionnaires can be downloaded from: www.uis.unesco.org/UISQuestionnaires

Innovation data

The UNESCO Institute for Statistics collects data on innovation within the manufacturing industry every two years through its innovation data collection. In addition, the institute obtains innovation data directly from Eurostat and the African Science, Technology and Innovation Indicators (ASTII) Initiative of the African Union/NEPAD Planning and

Coordinating Agency for countries which participate in the data collections of these organizations. With a few exceptions, innovation data refer to a three-year reference period that varies from one country to another. The data collected are featured in the institute's international database at: <http://data.uis.unesco.org>.

Population data

Population data are based on the 2012 revision of the *World Population Prospects* by the United Nations Population Division.

Research and experimental development (R&D) data

The UNESCO Institute for Statistics collects data on resources devoted to research and experimental development (R&D) through its R&D statistics survey. In addition, it obtains data directly from the OECD, Eurostat, the Ibero-American and Inter-American Network on Science and Technology Indicators (RICYT) and the African Science, Technology and Innovation Indicators (ASTII) Initiative of the African Union/NEPAD Planning and Coordinating Agency for countries which participate in the data collections of these organizations.

Data obtained from the OECD are based on the OECD's Research and Development Statistics database released in April 2015. Data obtained from Eurostat are based on the Eurostat Science and Technology database, as of April 2015. Data received from RICYT are as of April 2015. Data obtained from ASTII are based on the *African Innovation Outlook II* (2014) and the *African Innovation Outlook I* (2010). The data collected can be found at: <http://data.uis.unesco.org>

Cut-off date for data in the Statistical Annex and chapters

R&D and economic data presented in the regional/individual country chapters may not always correspond to the data given in the Statistical Annex or in Chapter 1. The reason for this is that the underlying economic data used to calculate R&D indicators are based on the World Bank's economic data release of April 2015, whereas, in the other chapters, this was based on a previous release of economic data by the World Bank.

TECHNICAL NOTE

Bibliographic data

Number of papers: this is the number of peer-reviewed scientific publications (i.e. articles, reviews and notes only) indexed in the Web of Science database from Thomson Reuters. Publications are assigned to countries according to the field address on the publications. Double counting is avoided at both the national and regional levels. For instance, a paper co-authored by two researchers from Italy and one author from France is counted only once for France and once for Italy but also once for Europe and once for the world.

Number of international collaborations: this is the number of publications involving authors from at least two different countries. For the computation of international collaboration, territories were considered to be part of their respective mainland countries. Thus, collaboration between Guadeloupe and France would not be considered as international co-authorship.

Average of relative citations: this is an indicator of the scientific impact of papers produced by a given entity (e.g. the world, a country, an institution) relative to the world average (i.e. the expected number of citations).

Field classification of publications: a classification from the US National Science Foundation encompassing the 14 following fields of science was used to prepare statistics at the level of scientific disciplines: Agricultural sciences, Astronomy, Biological sciences, Chemistry, Computer sciences, Engineering, Geosciences, Mathematics, Medical sciences, Other life sciences, Physics, Psychology, Social sciences and Unclassified fields.

Education data

Data on internationally mobile students that are collected by the UNESCO Institute for Statistics, OECD and Eurostat encompass students who are pursuing a tertiary degree and thus exclude students on exchange programmes. Data on internationally mobile students reported by host countries are used by the UNESCO Institute for Statistics to estimate the number of outbound students from a given country. Not all host countries specify the country of origin of the internationally mobile students that they host and, thus, the number of outbound students from a given country may be underestimated.

Innovation data

The definitions and classifications used to collect innovation data and produce innovation indicators are based on the third edition of the *Oslo Manual: Guidelines for Collecting and Interpreting Innovation Data*, published by the OECD and Eurostat in 2005. The key definitions related to innovation data are presented in the glossary of the present report.

R&D data

The definitions and classifications used to collect R&D data are based on the *Frascati Manual: Proposed Standard Practice for Surveys on Research and Experimental Development* (OECD). Some of the key definitions related to R&D data are presented in the glossary of the present report.

Two types of R&D indicator are usually compiled: data on R&D personnel measure researchers, technicians & equivalent staff directly involved in R&D, as well as other support staff; data on R&D expenditure measure the total cost of carrying out the R&D activity concerned, including indirect support.

Regional averages for R&D expenditure and researchers presented in Chapter 1 are derived from imputing numbers for missing data on the basis of calculations done by the UNESCO Institute for Statistics.

Patent data

Number of granted patents: this is the number of granted patents indexed in the PATSTAT database for the US Patent and Trademark Office. Patents are assigned to countries according to the country of the inventors on the applications. Double counting is avoided at both the national and regional levels. For instance, a patent application submitted by two inventors from Italy and one inventor from France is counted only once for France and once for Italy but also once for Europe and once for the world.