Number of HEIs who participated in the study

Key of Acronyms

I-O Institution-own funded Research
PGR Postgraduate Research
RG&C Externally Funded Research Grants and Contracts
HEIs Higher Education Institutions

# Table 1a. Costs per TRAC (£000s)

NOLE.	RG&C is calculated using the net R0	G&C costs (i.e.	without scholarships etc)					
					PGR costs			
					(including		I-O and	Total costs
				I-O costs	scholarships,	RG&C	RG&C	(all
		Subject		. 0 0000	stipends,	costs	costs	research)
		group for comparative			maintenance etc)			
		purposes			eic)			
HES	A academic cost centre	only		Sector	Sector	Sector	Sector	Sector
1	Total clinical medicine	i	Number of HEIs	30	29	30	30	30
			Total costs	178,587	152,729	1,644,711	1,812,974	1,960,967
			Average	5,953	5,267	54,824	60,432	65,366
			1st Quartile	2,472	2,321	14,493	20,618	21,093
			Median Value 3rd Quartile	4,988 7,260	4,428	41,244 69,639	50,399	53,479
2	Total clinical dentistry	i	Number of HEIs	15	6,870 16	16	73,757 16	77,821 16
_	,	·	Total costs	14,689	11,639	35,466	50,603	62,242
			Average	979	727	2,217	3,163	3,890
			1st Quartile	264	340	945	1,524	2,058
			Median Value	844	586	1,915	2,983	3,478
3	Veterinary science	ii	3rd Quartile Number of HEIs	1,238	955 8	2,462 8	3,766 8	4,893
3	veterinary science	"	Total costs	16,152	14,016	84,575	100,727	114,744
			Average	2,019	1,752	10,572	12,591	14,343
			1st Quartile	609	1,082	5,638	6,326	7,855
			Median Value	820	1,502	9,313	10,499	12,413
			3rd Quartile	1,571	2,360	11,271	16,875	19,258
4	Anatomy and physiology	ii	Number of HEIs Total costs	14 11,752	14 11,750	14 86,064	14 97,816	14 109,566
			Average	11,752	11,750	6,147	6,987	7,826
			1st Quartile	493	277	1,206	1,699	1,932
			Median Value	625	604	3,730	4,112	4,617
			3rd Quartile	1,195	1,173	7,209	7,994	9,377
5	Nursing and paramedical studies	iii	Number of HEIs	19	18	18	19	19
			Total costs	14,607	10,837	41,644	56,251	67,006
			Average 1st Quartile	769 161	602 254	2,314 524	2,961 622	3,527 811
			Median Value	678	366	1,160	1,830	2,326
			3rd Quartile	1,263	652	2,222	3,509	4,159
6	Health and community studies	ii	Number of HEIs	21	21	20	21	21
			Total costs	7,919	4,707	27,985	35,924	40,632
			Average	377	224	1,399	1,711	1,935
			1st Quartile Median Value	108 248	56 154	484 1,018	714 1,507	732 1,838
			3rd Quartile	496	295	1,018	2,182	2,312
7	Psychology and behavioural	iii	Number of HEIs	35	35	34	35	35
•	sciences		Total costs	35,081	24,064	71,704	114,567	138,052
			Average	1,002	688	2,109	3,273	3,944
			1st Quartile	514	250	999	1,544	1,890
			Median Value	903	523	1,646	2,583	3,050
8	Pharmacy and pharmacology	ii	3rd Quartile Number of HEIs	1,354	816 15	2,656 15	3,684 15	4,206 15
0	Filalifiacy and priarmacology	"	Total costs	9,486	16,107	65,725	75,211	91,318
			Average	632	1,074	4,382	5,014	6,088
			1st Quartile	270	324	1,914	2,255	2,863
			Median Value	475	827	3,679	4,079	5,308
			3rd Quartile	807	2,043	6,078	6,869	7,451
10	Biosciences	ii	Number of HEIs Total costs	38 88,054	37 110,842	38 714,079	38 740,808	39 915,674
			Average	2,317	2,996	18,792	19,495	23,479
			1st Quartile	747	1,258	5,285	5,332	8,238
			Median Value	1,397	2,225	13,143	13,968	16,812
			3rd Quartile	2,601	3,971	27,682	30,283	36,827
11	Chemistry	ii	Number of HEIs	28	28	29	28	28
			Total costs	32,813	72,167	230,345	239,985	305,629
			Average 1st Quartile	1,172 509	2,577 1,005	7,943 3,151	8,571 3,574	10,915 4,405
			Median Value	772	2,722	7,067	8,373	10,312
			3rd Quartile	1,532	3,605	11,031	11,892	15,192
12	Physics	ii	Number of HEIs	33	32	33	33	33
			Total costs	37,934	52,616	316,084	329,496	381,114
			Average	1,150	1,644	9,578	9,985	11,549
			1st Quartile	272	636	2,742	3,146	3,810
			Median Value 3rd Quartile	661 1,331	1,302 2,234	6,060 10,137	6,946 10,917	7,900 13,478
		ii .	Number of HEIs	2	2,234	2	2	2
13	Agriculture and forestry			_				
13	Agriculture and forestry	ii.	Total costs					
13	Agriculture and forestry	II	Average					
13	Agriculture and forestry	"	Average 1st Quartile					
13	Agriculture and forestry	II	Average 1st Quartile Median Value					
			Average 1st Quartile Median Value 3rd Quartile					
13	Earth, marine and environmental	ii	Average 1st Quartile Median Value 3rd Quartile Number of HEIs	24 22 666	24 25 323			
			Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs	22,666	25,323	122,438	146,252	168,831
	Earth, marine and environmental		Average 1st Quartile Median Value 3rd Quartile Number of HEIs					168,831 7,035
	Earth, marine and environmental		Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value	22,666 944 365 695	25,323 1,055	122,438 5,102 1,406 4,080	146,252 6,094 1,832 4,965	168,831 7,035 2,467 5,784
14	Earth, marine and environmental sciences	ii	Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile	22,666 944 365 695 1,078	25,323 1,055 404 875 1,373	122,438 5,102 1,406 4,080 8,237	146,252 6,094 1,832 4,965 9,232	168,831 7,035 2,467 5,784 11,218
	Earth, marine and environmental		Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Number of HEIs	22,666 944 365 695 1,078	25,323 1,055 404 875 1,373	122,438 5,102 1,406 4,080 8,237	146,252 6,094 1,832 4,965 9,232	11,218 14
14	Earth, marine and environmental sciences	ii	Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Mumber of HEIs Total costs	22,666 944 365 695 1,078 14 24,436	25,323 1,055 404 875 1,373 14 26,011	122,438 5,102 1,406 4,080 8,237 14 98,999	146,252 6,094 1,832 4,965 9,232 14 123,435	168,831 7,035 2,467 5,784 11,218 14 149,446
14	Earth, marine and environmental sciences	ii	Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Number of HEIs Total costs Average	22,666 944 365 695 1,078 14 24,436 1,745	25,323 1,055 404 875 1,373 14 26,011 1,858	122,438 5,102 1,406 4,080 8,237 14 98,999 7,071	146,252 6,094 1,832 4,965 9,232 14 123,435 8,817	168,831 7,035 2,467 5,784 11,218 14 149,446 10,675
14	Earth, marine and environmental sciences	ii	Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Mumber of HEIs Total costs	22,666 944 365 695 1,078 14 24,436	25,323 1,055 404 875 1,373 14 26,011	122,438 5,102 1,406 4,080 8,237 14 98,999	146,252 6,094 1,832 4,965 9,232 14 123,435	168,831 7,035 2,467 5,784 11,218 14 149,446

		Subject group for comparative purposes		I-O costs	PGR costs (including scholarships, stipends, maintenance etc)	RG&C costs	I-O and RG&C costs	Total costs (all research)
HES	A academic cost centre	only		Sector	Sector	Sector	Sector	Sector
17	Chemical engineering	ii	Number of HEIs	13	13	13	13	13
			Total costs Average	7,711 593	20,888 1,607	55,208 4,247	62,919 4,840	83,807 6,447
			1st Quartile	242	668	1,775	2,043	2,946
			Median Value	361	1,103	4,129	4,394	5,964
18	Mineral, metallurgy and materials	ii	3rd Quartile Number of HEIs	971 13	1,641 12	4,983 13	6,035 13	8,432 13
10	engineering	"	Total costs	12,033	24,570	79,213	91,246	116,335
	-		Average	926	2,048	6,093	7,019	8,949
			1st Quartile Median Value	330 776	725 1,100	2,175 6,724	2,421 8,491	3,284 10,056
			3rd Quartile	1,407	3,228	8,884	10.187	13,433
19	Civil engineering	ii	Number of HEIs	24	23	22	24	24
			Total costs	14,169	19,718	56,902	71,071	90,790
			Average 1st Quartile	590 222	857 399	2,586 1,272	2,961 1,300	3,783 1,686
			Median Value	351	697	2,141	2,644	3,444
			3rd Quartile	744	1,249	3,814	4,022	5,615
20	Electrical, electronic and computer	ii	Number of HEIs Total costs	28 26,306	28 47,965	27 152,714	29 181,781	29 229,746
	engineering		Average	939	1,713	5,656	6,268	7,922
			1st Quartile	294	825	2,144	2,696	3,568
			Median Value	697	1,314	4,464	4,904	6,363
21	Mechanical, aero and production	ii	3rd Quartile Number of HEIs	1,134 24	2,059 24	7,750 23	8,119 23	9,642
∠1	Mechanical, aero and production engineering	П	Total costs	23,627	44,153	120,136	23 142,315	24 197,975
	J J		Average	984	1,840	5,223	6,188	8,249
			1st Quartile	469	695	1,799	2,267	3,038
			Median Value 3rd Quartile	723 1,060	1,092 2,781	4,038 7,058	5,632 7,938	6,949 10,689
23	Architecture, built environment and	iii	Number of HEIs	20	2,781	20	21	21
	planning		Total costs	20,179	11,596	49,014	69,193	80,926
			Average	1,009	580	2,451	3,295	3,854
			1st Quartile Median Value	383 664	205 611	877 2,122	1,373 2,523	1,495 3,786
			3rd Quartile	1,538	827	3,144	4,455	5,293
24	Mathematics	ii	Number of HEIs	36	35	35	36	36
			Total costs	63,392	33,140	80,310	143,702	178,460
			Average 1st Quartile	1,761 648	947 264	2,295 893	3,992 1,733	4,957 2,358
			Median Value	1,331	691	1,700	2,996	3,748
			3rd Quartile	2,061	1,370	2,993	4,871	6,169
25	Information technology, systems	ii	Number of HEIs Total costs	39 42,348	39 33,602	39 117,720	38 138,990	38 169,343
	sciences & computer software engineering		Average	1,086	862	3,018	3,658	4,456
	gg		1st Quartile	481	260	1,034	1,806	2,086
			Median Value	783	596	1,837	2,713	3,274
26	Catering & hospitality management	iii	3rd Quartile Number of HEIs	1,320	1,169 3	3,058	3,950	4,721
	g,g		Total costs Average 1st Quartile Median Value					
			3rd Quartile					
27	Business and management studies	iv	Number of HEIs	38	38	38	38	39
			Total costs Average	102,328 2,693	34,809 916	93,522 2,461	197,444 5,196	252,092 6,464
			1st Quartile	1,150	325	617	2,230	2,531
			Median Value	2,008	628	1,789	3,609	4,221
			3rd Quartile	2,919	1,408	2,789	6,594	8,206
28	Geography	iii	Number of HEIs Total costs	29 25,262	29 16,217	28 61,120	29 88,580	29 104,418
			Average	871	559	2,183	3,054	3,601
			1st Quartile	473	344	1,207	1,877	2,518
			Median Value 3rd Quartile	839 1,182	504 713	1,882 2,929	2,862 4,584	3,573 5,194
29	Social studies	V	Number of HEIs	39	40	39	4,364	40
			Total costs	174,635	63,063	171,465	358,211	421,273
			Average	4,478	1,577 598	4,397 1,440	8,955	10,532
			1st Quartile Median Value	1,883 3,398	1,229	2,445	3,339 5,841	4,112 6,932
<u></u>			3rd Quartile	5,328	2,202	6,751	11,314	13,560
30	Media studies	٧	Number of HEIs	19	18	17	20	20
			Total costs Average	8,291 436	2,323 129	6,953 409	15,677 784	17,999 900
			1st Quartile	225	70	142	370	411
			Median Value	381	115	240	578	692
24	Humanition	V	3rd Quartile	627 38	163 37	712 38	971	1,174
31	Humanities	*	Number of HEIs Total costs	137,503	52,422	83,431	39 227,377	39 280,268
			Average	3,618	1,417	2,196	5,830	7,186
			1st Quartile	1,472	540	717	2,542	2,897
			Median Value 3rd Quartile	3,091 4,546	1,038 1,907	1,993 2,728	4,906 7,204	6,642 9,390
33	Design and creative arts	iii	Number of HEIs	32	33	2,726	31	32
1	· · · · · · · · · · · · · · · · · · ·		Total costs	30,688	10,676	17,950	47,069	57,482
			Average	959	324	579	1,518	1,796
			1st Quartile Median Value	515 787	141 245	204 377	747 1,178	941 1,391
			3rd Quartile	1,123	376	798	1,176	2,108
34	Education	٧	Number of HEIs	32	32	32	32	32
			Total costs	36,703	29,208	71,482	108,385	138,587
			Average 1st Quartile	1,147 476	913 271	2,234 473	3,387 1,128	4,331 1,633
			Median Value	698	614	1,197	2,081	3,027
<u> </u>			3rd Quartile	1,233	1,066	2,313	3,467	4,194

		Subject group for comparative purposes		I-O costs	PGR costs (including scholarships, stipends, maintenance etc)	RG&C costs	I-O and RG&C costs	(
HES	A academic cost centre	only		Sector	Sector	Sector	Sector	Sector
35	Modern languages	V	Number of HEIs	31	30	27	30	31
			Total costs	44.615	10.613	19.273	62.840	74.800
			Average	1,439	354	714	2.095	2.413
			1st Quartile	399	33	259	593	627
			Median Value	981	344	478	1,673	1,914
			3rd Quartile	1,997	511	942	2,578	3,397
37	Archaeology	iii	Number of HEIs	19	19	20	20	20
	<i>.,</i>		Total costs	11,398	5,608	25,622	37,649	43,831
			Average	600	295	1,281	1,882	2,192
			1st Quartile	275	130	423	735	899
			Median Value	430	233	754	1,431	1,777
			3rd Quartile	822	443	1,996	2,756	3,171
38	Sports science and leisure studies	iii	Number of HEIs	13	12	13	13	13
			Total costs	6,213	5,139	9,600	15,813	21,960
			Average	478	428	738	1,216	1,689
			1st Quartile	150	86	231	461	599
			Median Value	223	150	481	856	1,130
			3rd Quartile	987	507	830	1,610	2,208
41	Continuing education	V	Number of HEIs	9	8	9	10	10
			Total costs	2,666	553	3,836	6,506	6,979
			Average	296	69	426	651	698
			1st Quartile	164	30	79	240	243
			Median Value	294	44	157	482	494
			3rd Quartile	487	98	268	585	786
	Total - all cost centres		Number of HEIs	45	45	45	45	45
			Total costs	1,303,688	1,011,584	5,067,257		
			Average	28,971	22,480	112,606		164,111
			1st Quartile	11,897	7,071	38,322		
			Median Value	24,961	18,728	77,362		
			3rd Quartile	38,247	33,082	149,274	185,050	219,278

Table 2a. Costs per TRAC (£000s)

Subject group for comparative purposes		I-O costs	PGR costs (including scholarships, stipends, maintenance etc)	RG&C costs	I-O and RG&C costs	Total costs (all research)
only		Sector	Sector	Sector	Sector	Sector
i	Number of observations	45	45	46	46	46
	Total costs	193,276	164,368	1,680,176	1,863,576	2,023,209
	Average	4,295	3,653	36,526	40,513	43,983
	1st Quartile	953	586	2,150	3,107	3,690
	Median Value	2,690	2,321	13,721	17,300	18,369
	3rd Quartile	6,452	5,270	56,354	62,617	67,814
ii	Number of observations	374	369	369	373	375
	Total costs	441,641	560,797	2,419,753	2,733,779	3,358,732
	Average	1,181	1,520	6,558	7,329	8,957
	1st Quartile	349	442	1,600	2,052	2,634
	Median Value	729	1,033	3,679	4,237	5,402
	3rd Quartile	1,363	2,043	8,040	9,349	11,585
iii	Number of observations	170	169	166	171	172
	Total costs	144,241	84,756	276,941	430,221	515,392
	Average	848	502	1,668	2,516	2,996
	1st Quartile	318	173	480	856	1,124
	Median Value	757	376	1,074	1,908	2,399
	3rd Quartile	1,104	652	2,222	3,227	3,930
iv	Number of observations	38	38	38	38	39
	Total costs	102,328	34,809	93,522	197,444	252,092
	Average	2,693	916	2,461	5,196	6,464
	1st Quartile	1,150	325	617	2,230	2,531
	Median Value	2,008	628	1,789	3,609	4,221
	3rd Quartile	2,919	1,408	2,789	6,594	8,206
٧	Number of observations	168	165	162	171	172
	Total costs	404,412	158,183	356,439	778,995	939,907
	Average	2,407	959	2,200	4,556	5,465
	1st Quartile	494	138	359	909	1,033
	Median Value	1,267	554	1,206	2,636	3,275
	3rd Quartile	3,219	1,232	2,440	5,563	6,932

Number of HEIs who 46 participated in the study

Key of Acronyms

I-O Institution-own funded Research
PGR Postgraduate Research
RG&C Externally Funded Research Grants and Contracts
HEIS Higher Education Institutions

# Table 1b. PGR costs per TRAC (£000s)

				1		
				PGR costs	PGR	PGR scholarships,
				(including	scholarships,	stipends,
		Subject		scholarships, stipends,	stipends,	maintenance etc
		group for		maintenance	maintenance etc	as a percentage of total PGR costs
		comparative		etc)	eic	total PGR costs
пΕσ	A academic cost centre	purposes only		Sector	Sector	Sector
1	Total clinical medicine	i	Number of HEIs	29	17	17
			Total costs	152,729	19,778	12.9%
			Average	5,267	1,163	
			1st Quartile	2,321	404 509	7.5%
			Median Value 3rd Quartile	4,428 6,870	1,618	13.2% 20.3%
2	Total clinical dentistry	i	Number of HEIs	16	10	10
	•		Total costs	11,639	511	4.4%
			Average	727	51	
			1st Quartile Median Value	340 586	10 23	1.5% 4.4%
			3rd Quartile	955	102	8.8%
3	Veterinary science	ii	Number of HEIs	8	7	7
			Total costs	14,016	2,771	19.8%
			Average	1,752	396 34	F 20/
			1st Quartile Median Value	1,082 1,502	210	5.3% 20.6%
			3rd Quartile	2,360	946	30.2%
4	Anatomy and physiology	ii	Number of HEIs	14	5	5
			Total costs	11,750	974	8.3%
			Average	839	195	
			1st Quartile Median Value	277 604	45 143	12.3% 15.0%
			3rd Quartile	1,173	252	17.3%
5	Nursing and paramedical studies	iii	Number of HEIs	18	13	13
			Total costs	10,837	261	2.4%
			Average	602	20	
			1st Quartile Median Value	254 366	1 9	0.2% 3.1%
			3rd Quartile	652	33	6.6%
6	Health and community studies	ii	Number of HEIs	21	9	9
			Total costs	4,707	121	2.6%
			Average	224	13	
			1st Quartile Median Value	56 154	3 4	1.4% 4.5%
			3rd Quartile	295	23	9.6%
7	Psychology and behavioural	iii	Number of HEIs	35	19	19
	sciences		Total costs	24,064	1,192	5.0%
			Average	688	63	
			1st Quartile Median Value	250 523	8 26	1.0% 4.4%
			3rd Quartile	816	92	9.3%
8	Pharmacy and pharmacology	ii	Number of HEIs	15	9	9
			Total costs	16,107	1,457	9.0%
			Average	1,074	162	
			1st Quartile Median Value	324 827	37 111	5.4% 12.6%
			3rd Quartile	2,043	216	18.2%
10	Biosciences	ii	Number of HEIs	37	21	21
			Total costs	110,842	10,306	9.3%
			Average	2,996	491	
			1st Quartile Median Value	1,258 2,225	117 311	4.9% 11.6%
			3rd Quartile	3,971	713	23.5%
11	Chemistry	ii	Number of HEIs	28	17	17
			Total costs	72,167	7,926	11.0%
			Average	2,577	466	. 40.00
			1st Quartile Median Value	1,005 2,722	302 415	10.6% 15.2%
			3rd Quartile	3,605	495	21.2%
12	Physics	ii	Number of HEIs	32	20	20
			Total costs	52,616	5,962	11.3%
			Average	1,644	298	4.9%
			1st Quartile	636	38	
			1st Quartile Median Value	636 1,302		14.5%
13	Agriculture and forestry	ii	1st Quartile Median Value 3rd Quartile Number of HEIs	636	38 136	14.5%
13	Agriculture and forestry	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs	636 1,302 2,234	38 136 237	14.5%
13	Agriculture and forestry	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average	636 1,302 2,234	38 136 237	14.5%
13	Agriculture and forestry	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile	636 1,302 2,234	38 136 237	14.5%
13	Agriculture and forestry	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average	636 1,302 2,234	38 136 237	14.5%
	Agriculture and forestry  Earth, marine and environmental		1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value	636 1,302 2,234	38 136 237 1	14.5% 25.5% 1
			1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs	636 1,302 2,234 2	38 136 237 1	14.5% 25.5% 1
	Earth, marine and environmental		1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average Average Average Average	636 1,302 2,234 2	38 136 237 1	14.5% 25.5% 1
	Earth, marine and environmental		1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Number of HEIs Total costs Average 1st Quartile	636 1,302 2,234 2	38 136 237 1	14.5% 25.5% 1 
	Earth, marine and environmental		1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average Average Average Average	636 1,302 2,234 2	38 136 237 1	14.5% 25.5% 1
14	Earth, marine and environmental		1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value	636 1,302 2,234 2	38 136 237 1	14.5% 25.5% 1
13	Earth, marine and environmental sciences	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Total costs	636 1,302 2,234 2	38 136 237 1 - - - - - - - - - - - - - - - - - -	14.5% 25.5% 1
14	Earth, marine and environmental sciences	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Number of HEIs Total costs Average 3rd Quartile Number of HEIs Total costs Average	636 1,302 2,234 2	38 136 237 1	14.5% 25.5% 1
14	Earth, marine and environmental sciences	ii	1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total costs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Total costs	636 1,302 2,234 2	38 136 237 1 - - - - - - - - - - - - - - - - - -	14.5% 25.5% 1

		Subject		PGR costs (including scholarships, stipends,	PGR scholarships, stipends, maintenance	stipends, maintenance etc
		group for comparative purposes	ı	maintenance etc)	etc	total PGR costs
HES	A academic cost centre	only		Sector	Sector	Sector
17	Chemical engineering	ii	Number of HEIs	13	8	8
			Total costs Average	20,888 1,607	2,642 330	12.6%
			1st Quartile	668	47	9.1%
			Median Value	1,103	266	20.5%
18	Mineral, metallurgy and	ii	3rd Quartile Number of HEIs	1,641 12	439 7	29.6%
10	materials engineering	"	Total costs	24,570	2,359	9.6%
			Average	2,048	337	
			1st Quartile	725	81	6.6%
			Median Value 3rd Quartile	1,100 3,228	189 647	24.4% 32.9%
19	Civil engineering	ii	Number of HEIs	23	14	14
			Total costs	19,718	2,608	13.2%
			Average 1st Quartile	857 399	186 61	7.0%
			Median Value	697	133	13.8%
			3rd Quartile	1,249	249	22.5%
20	Electrical, electronic and	ii	Number of HEIs Total costs	28 47,965	19 7,130	19 14.9%
	computer engineering		Average	1,713	375	14.970
			1st Quartile	825	135	15.1%
			Median Value	1,314	282	23.5%
21	Machanical agree and production		3rd Quartile Number of HEIs	2,059 24	467 17	29.2% 17
21	Mechanical, aero and production engineering	"	Total costs	44,153	7,543	17.1%
	J J		Average	1,840	444	
			1st Quartile	695	67	9.2%
			Median Value 3rd Quartile	1,092 2,781	162 781	22.6% 32.5%
23	Architecture, built environment	iii	Number of HEIs	2,781	11	32.5%
	and planning		Total costs	11,596	965	8.3%
			Average	580	88	
			1st Quartile Median Value	205 611	3 35	1.7% 10.3%
			3rd Quartile	827	171	19.9%
24	Mathematics	ii	Number of HEIs	35	18	18
			Total costs Average	33,140 947	3,862 215	11.7%
			1st Quartile	264	49	4.7%
			Median Value	691	76	14.4%
05	Information to the plant of the second		3rd Quartile	1,370	413	31.5%
25	Information technology, systems sciences & computer software	II	Number of HEIs Total costs	39 33,602	23 3,607	23 10.7%
	engineering		Average	862	157	
			1st Quartile	260	52	9.7%
			Median Value 3rd Quartile	596 1,169	110 312	19.0% 26.3%
26	Catering & hospitality	iii	Number of HEIs	3	. 312	. 20.370
	management		Total costs			
			Average 1st Quartile		•	•
			Median Value			
			3rd Quartile			
27	Business and management studies	iv	Number of HEIs Total costs	38 34.809	19	19
	studies		Average	916	1,190 63	3.4%
			1st Quartile	325	5	0.4%
			Median Value	628	14	3.7%
28	Geography	iii	3rd Quartile Number of HEIs	1,408 29	77 17	10.3% 17
20	Geography	III	Total costs	16,217	873	5.4%
			Average	559	51	
			1st Quartile	344	24	2.8%
			Median Value 3rd Quartile	504 713	35 54	8.0% 15.6%
29	Social studies	v	Number of HEIs	40	21	21
			Total costs	63,063	3,142	5.0%
			Average 1st Quartile	1,577 598	150 29	1.8%
			Median Value	1,229	72	6.9%
			3rd Quartile	2,202	248	11.9%
30	Media studies	V	Number of HEIs Total costs	18	5	3 0%
			Average	2,323 129	90 18	3.9%
			1st Quartile	70	2	4.5%
			Median Value	115	17	9.5%
31	Humanities	v	3rd Quartile Number of HEIs	163 37	25 19	21.4%
			Total costs	52,422	1,921	3.7%
			Average	1,417	101	
			1st Quartile Median Value	540 1,038	5 21	0.3% 2.2%
			3rd Quartile	1,907	77	6.7%
33	Design and creative arts	iii	Number of HEIs	33	11	11
			Total costs	10,676	574	5.4%
			Average 1st Quartile	324 141	52 0	. 0.2%
			Median Value	245	4	1.2%
	<u></u>		3rd Quartile	376	50	9.1%
34	Education	V	Number of HEIs Total costs	32 29,208	9 79	9 0.3%
			Average	29,208 913	9	. 0.3%
			1st Quartile	271	1	0.2%
			Median Value	614	3	1.0%
			3rd Quartile	1,066	5	1.2%

		Subject group for comparativ purposes	е	PGR costs (including scholarships, stipends, maintenance etc)	PGR scholarships, stipends, maintenance etc	maintenance etc as a percentage of
HES	A academic cost centre	only		Sector	Sector	Sector
35	Modern languages	v	Number of HEIs	30	10	10
	5 5		Total costs	10,613	171	1.6%
			Average	354	17	
			1st Quartile	33	2	0.8%
			Median Value	344	6	3.8%
			3rd Quartile	511	24	13.0%
37	Archaeology	iii	Number of HEIs	19	10	10
			Total costs	5,608	104	1.9%
			Average	295	10	
			1st Quartile	130	0	0.1%
			Median Value	233	7	4.0%
			3rd Quartile	443	16	8.1%
38	Sports science and leisure	iii	Number of HEIs	12	4	4
	studies		Total costs	5,139	552	10.7%
			Average	428	138	
			1st Quartile	86	4	2.5%
			Median Value	150	21	13.1%
			3rd Quartile	507	272	26.7%
41	Continuing education	V	Number of HEIs	8	1	1
			Total costs	553	0	0.1%
			Average	69	0	
			1st Quartile	30	0	1.0%
			Median Value	44	0	1.0%
			3rd Quartile	98	0	1.0%
	Total - all cost centres		Number of HEIs	45	26	26
			Total costs	1,011,584	98,047	9.7%
1			Average	22,480	3,771	
			1st Quartile	7,071	882	8.2%
1			Median Value	18,728	2,965	12.2%
			3rd Quartile	33,082	5,379	21.9%

Table 2b. PGR costs per TRAC (£000s)

1				
		PGR costs		
		(including		PGR scholarships,
		scholarships,	scholarships,	
		stipends,	stipends,	
		maintenance	maintenance	as a percentage of
Cubicat aroun for		etc)	etc	total PGR costs
Subject group for		eic)		
comparative purposes		0	0	0
only	Number of observations	Sector	Sector 27	Sector
ı		45		27
	Total costs	164,368	20,289	12.3%
	Average	3,653	751	
	1st Quartile	586	21	4.3%
	Median Value	2,321	186	
	3rd Quartile	5,270	777	19.5%
ii	Number of observations	369	217	217
	Total costs	560,797	66,572	11.9%
	Average	1,520	307	
	1st Quartile	442	49	
	Median Value	1,033	148	15.8%
	3rd Quartile	2,043	415	27.4%
iii	Number of observations	169	85	85
	Total costs	84,756	4,521	5.3%
	Average	502	53	
	1st Quartile	173	3	0.8%
	Median Value	376	24	4.6%
	3rd Quartile	652	50	11.1%
iv	Number of observations	38	19	19
	Total costs	34,809	1,190	3.4%
	Average	916	63	
	1st Quartile	325	5	0.4%
	Median Value	628	14	3.7%
	3rd Quartile	1,408	77	10.3%
V	Number of observations	165	65	65
	Total costs	158,183	5,403	
	Average	959	83	
	1st Quartile	138	3	1.0%
	Median Value	554	17	3.4%
	3rd Quartile	1,232	72	
	JIU QUALIIC	1,202	12	3.1 /0

Number of HEIs who afficipated in the study

Key of Acron	Key of Acronyms							
I-O	Institution-own funded Research							
PGR	Postgraduate Research							
RG&C	Externally Funded Research Grants and Contracts							
HEIs	Higher Education Institutions							

# Table 3. FTEs per TRAC

							Tota
		0.4.1.4		I-O	PGR student	RG&C	academi
		Subject group for		academic	FTEs		staff FTEs
		comparative		staff FTEs		staff FTEs	O an
		purposes					RG&C
HES	A academic cost centre	only		Sector	Sector	Sector	Secto
1	Total clinical medicine	i	Number of HEIs	30	29	30	3
			Total FTEs	458.3	6,344.9	1,691.4	2,135.
			Average	15.3	218.8	56.4	71.:
			1st Quartile	5.7	105.2	22.4	24.
			Median Value	11.6	204.0	53.7	67.
			3rd Quartile	17.8	310.5	68.7	105.
2	Total clinical dentistry	i	Number of HEIs	15	16	16	10
			Total FTEs	73.4	339.7	78.4	152.
			Average	4.9	21.2	4.9	9.
			1st Quartile	2.0	12.6	2.3	5.8
			Median Value	3.5	22.2	4.3	7.
			3rd Quartile	5.1	28.2	7.6	10.
3	Veterinary science	ii	Number of HEIs	8	8	8	
			Total FTEs	45.1	418.1	113.4	158.
			Average	5.6	52.3	14.2	19.
			1st Quartile	2.1	26.7	8.8	10.9
			Median Value	2.8	39.6	14.2	17.
_	A	"	3rd Quartile	5.3	76.0	19.5	24.
4	Anatomy and physiology	ii	Number of HEIs	14 34.0	14	14	110
			Total FTEs		506.1	85.5	119.
			Average	2.4 1.4	36.2 14.0	6.1 3.1	8. 4.
			1st Quartile Median Value	1.4	29.3	4.8	4. 6.
			3rd Quartile	2.7	29.3 48.7	9.2	14.
5	Nursing and paramedical studies	iii	Number of HEIs	19	18	18	14
J	reasong and parametrical studies		Total FTEs	79.2	548.0	108.4	187.
			Average	4.2	30.4	6.0	9.
			1st Quartile	1.2	11.4	2.2	4.:
			Median Value	3.5	14.7	4.0	7.0
			3rd Quartile	6.7	38.0	5.7	12.
6	Health and community studies	ii	Number of HEIs	21	21	20	2
	,		Total FTEs	44.3	291.2	77.4	121.
			Average	2.1	13.9	3.9	5.8
			1st Quartile	0.8	7.2	2.2	3.9
			Median Value	1.5	11.7	3.8	4.0
			3rd Quartile	2.9	17.1	4.8	8.
7	Psychology and behavioural	iii	Number of HEIs	35	35	34	3
	sciences		Total FTEs	167.3	1,668.0	191.0	364.
			Average	4.8	47.7	5.6	10.4
			1st Quartile	2.4	22.3	3.3	6.:
			Median Value	4.3	33.0	4.7	9.
			3rd Quartile	6.8	53.6	7.7	14.
8	Pharmacy and pharmacology	ii	Number of HEIs	15	15	15	1:
			Total FTEs	35.1	771.4	104.6	139.
			Average	2.3	51.4	7.0	9.3
			1st Quartile	1.0	22.0	3.4	5.
			Median Value	1.6	39.1	5.5	7.3
			3rd Quartile	3.2	87.0	10.4	14.
10	Biosciences	ii	Number of HEIs	38	37	38	3
			Total FTEs	213.2	4,974.1	738.9	925.
			Average	5.6	134.4	19.4	24.
			1st Quartile	2.1	69.1	8.4	10.
			Median Value	4.3	111.0	18.9	22.
4.4	Chamiata		3rd Quartile	8.4	172.5	26.4	30.
11	Chemistry	ii	Number of HEIs	28	28 3.042.3	29 293.4	2 262
			Total FTEs	83.7 3.0	3,042.3	293.4 10.1	363. 13.
			Average 1st Quartile	1.8	58.1	5.5	7.
			Median Value	2.6	107.7	10.0	12.
			3rd Quartile	3.8	140.4	13.4	16.
12	Physics	ii	Number of HEIs	33	32	33	3
_	•		Total FTEs	125.2	2,467.0	409.0	519.
			Average	3.8	77.1	12.4	15.
			1st Quartile	1.1	35.4	4.7	6.
			Median Value	2.5	63.1	9.6	11.
			3rd Quartile	5.8	91.9	16.5	18.
13	Agriculture and forestry	ii	Number of HEIs	2	2	2	
			Total FTEs				
			Average				
			1st Quartile				
			Median Value				
	Footh annual and a second		3rd Quartile				
14	Earth, marine and environmental	ii	Number of HEIs	24	24	24	2
	sciences		Total FTEs	82.4	1,353.3	227.5	306.
			Average	3.4	56.4	9.5	12.
			1st Quartile	1.3	23.5	3.6	5.
			Median Value	2.8	51.2	6.8	9.
	Conoral anginogrica		3rd Quartile	4.1	77.5	11.5	16.
10	General engineering	ii	Number of HEIs Total FTEs	14 60.3	14 1,186.6	14 115.4	175.
16	0 0						173.
16							12
16	ŭ ŭ		Average	4.3	84.8	8.2	
16	ů ů						12.0 7. 7.1

	_			T			_
				I-O		RG&C	Tota academic
l		Subject group for		academic		academic	staff FTEs (
		comparative		staff FTEs		staff FTEs	O and RG&C
HES	A academic cost centre	purposes only		Sector	Sector	Sector	
	Chemical engineering	ii	Number of HEIs	13		13	
			Total FTEs Average	17.1 1.3			
			1st Quartile	0.6		3.2	
			Median Value 3rd Quartile	1.1 2.0		5.2 7.1	
18	Mineral, metallurgy and materials	ii	Number of HEIs	13		13	
	engineering		Total FTEs Average	26.0 2.0		91.2 7.0	
			1st Quartile	1.2			
			Median Value	1.7		-	
19	Civil engineering	ii	3rd Quartile Number of HEIs	3.1 24			
			Total FTEs Average	45.3 1.9		103.1 4.7	
			1st Quartile	0.9		2.1	3.0
			Median Value	1.5 2.4			
20	Electrical, electronic and computer	ii	3rd Quartile Number of HEIs	2.4		27	
	engineering		Total FTEs	98.3			
			Average 1st Quartile	3.5 1.3		10.2 4.4	
			Median Value	3.0		9.4	
21	Mechanical, aero and production	ii	3rd Quartile Number of HEIs	4.2		13.2 23	14.4
	engineering		Total FTEs	74.6	1,804.1	213.2	285.2
			Average 1st Quartile	3.1 1.3		9.3 4.3	
			Median Value	2.5	50.9	6.0	8.6
23	Architecture, built environment and	iii	3rd Quartile Number of HEIs	3.6		13.4	
	planning		Total FTEs	91.6	821.3	119.7	211.3
			Average 1st Quartile	4.6 2.2			
			Median Value	3.7	31.6	5.8	9.7
24	Mathematics	ii	3rd Quartile Number of HEIs	5.9 36		8.4 35	
	manomano		Total FTEs	385.7	1,738.5	271.7	657.4
			Average 1st Quartile	10.7 4.2			
			Median Value	9.6	37.6	6.7	16.3
25	Information technology, systems	ii	3rd Quartile Number of HEIs	14.2 39			
20	sciences & computer software	"	Total FTEs	187.7	1,976.4	237.5	400.4
	engineering		Average 1st Quartile	4.8 2.0		6.1 2.3	10.5
			Median Value	3.5	40.5	5.1	9.0
26	Catering & hospitality management	iii	3rd Quartile Number of HEIs	7.1		7.9	12.4
	g,g		Total FTEs				
			Average 1st Quartile				
			Median Value				
27	Business and management studies	iv	3rd Quartile Number of HEIs	. 38	. 38	. 38	. 38
		•	Total FTEs	559.6	2,108.7	293.4	850.8
			Average 1st Quartile	14.7 8.3		7.7 2.8	
			Median Value	12.0	51.4	5.5	16.4
28	Geography	iii	3rd Quartile Number of HEIs	16.7 29		9.6 28	
	g,		Total FTEs	135.3	962.3	180.0	317.2
			Average 1st Quartile	4.7 2.5			
			Median Value	4.3	29.5	5.9	11.1
29	Social studies	V	3rd Quartile Number of HEIs	6.7			
		·	Total FTEs	1,063.2	5,499.2	562.7	1,635.5
			Average 1st Quartile	27.3 12.9			
			Median Value	22.1	110.7	10.8	33.9
30	Media studies	V	3rd Quartile Number of HEIs	33.6 19			
00	modia stadios	•	Total FTEs	55.1	278.1	33.6	89.4
			Average 1st Quartile	2.9 1.1		2.0 0.7	
			Median Value	2.3	14.1	1.4	3.4
31	Humanities	V	3rd Quartile Number of HEIs	4.1 38		2.3	
			Total FTEs	982.6	5,684.4	350.0	1,344.9
			Average 1st Quartile	25.9 13.4			
			Median Value	22.7	124.4	8.4	31.3
33	Design and creative arts	iii	3rd Quartile Number of HEIs	35.5 32		12.9 31	45.9 31
	J		Total FTEs	169.3	1,022.8	71.9	236.9
			Average 1st Quartile	5.3 3.5			
			Median Value	4.6	27.0	1.5	6.0
34	Education	V	3rd Quartile Number of HEIs	5.9 32		3.7 32	
J.4		•	Total FTEs	197.6	2,777.0	189.3	381.5
			Average 1st Quartile	6.2 2.5			
			Median Value	4.8			
			3rd Quartile	6.5	106.5		

_							
		Subject group for comparative		I-O academic staff FTEs	PGR student	RG&C academic staff FTEs	
HES	A academic cost centre	purposes only		Sector	Sector	Sector	Sector
35	Modern languages	v	Number of HEIs	31	30	27	30
			Total FTEs	325.3		98.0	
			Average	10.5		3.6	14.0
			1st Quartile	3.1	8.8	1.7	4.6
			Median Value	7.9	20.5	2.8	12.1
			3rd Quartile	16.0	34.5	5.1	18.6
37	Archaeology	iii	Number of HEIs	19	19	20	20
			Total FTEs	70.4	541.2	48.7	120.3
			Average	3.7	28.5	2.4	6.0
			1st Quartile	1.8	16.3	1.8	3.4
			Median Value	3.8	21.8	2.5	5.8
			3rd Quartile	5.5	39.3	2.9	8.2
38	Sports science and leisure studies	iii	Number of HEIs	13	12	13	13
			Total FTEs	32.9	241.2	33.1	65.9
			Average	2.5	20.1	2.5	5.1
			1st Quartile	0.6	6.4	0.7	2.2
			Median Value	1.5	10.0	2.0	3.4
			3rd Quartile	3.2	28.7	3.0	6.0
41	Continuing education	V	Number of HEIs	9	8	9	10
			Total FTEs	10.7	87.7	10.3	
			Average	1.2	11.0	1.1	2.1
			1st Quartile	0.2		0.2	
			Median Value	0.9	9.0	0.7	1.7
			3rd Quartile	1.9		1.0	
	Total - all cost centres		Number of HEIs	45		45	45
			Total FTEs	6,073.3		7,585.2	
			Average	135.0		168.6	
			1st Quartile	62.4		68.4	
			Median Value	116.9		132.7	255.0
			3rd Quartile	177.1	1,661.6	252.5	449.9

Table 4. FTEs per TRAC

					Total
		I-O	PGR student	RG&C	academic
		academic	FTEs	academic	staff FTEs (I
		staff FTEs	FIES	staff FTEs	O and
Subject group for					RG&C)
comparative purposes					
only	T	Sector	Sector	Sector	Sector
i	Number of observations	45	45	46	46
	Total FTEs	531.7	6,684.6	1,769.8	2,287.4
	Average	11.8	148.5	38.5	49.7
	1st Quartile	3.5	23.0	4.3	7.8
	Median Value	7.7	69.2	21.0	26.7
	3rd Quartile	13.2	219.8	56.6	73.8
ii	Number of observations	374	369	369	373
	Total FTEs	1,560.3	25,555.5	3,455.8	4,931.2
	Average	4.2	69.3	9.4	13.2
	1st Quartile	1.3	26.0	3.7	5.8
	Median Value	2.7	51.0	6.7	10.0
	3rd Quartile	4.9	93.7	11.7	16.8
iii	Number of observations	170	169	166	171
	Total FTEs	752.0	5,838.6	755.1	1,511.8
	Average	4.4	34.5	4.5	8.8
	1st Quartile	2.2	15.2	2.0	4.3
	Median Value	3.8	26.0	3.7	7.7
	3rd Quartile	6.0	40.8	6.3	12.1
iv	Number of observations	38	38	38	38
	Total FTEs	559.6	2,108.7	293.4	850.8
	Average	14.7	55.5	7.7	22.4
	1st Quartile	8.3	21.7	2.8	12.7
	Median Value	12.0	51.4	5.5	16.4
	3rd Quartile	16.7	68.8	9.6	27.8
V	Number of observations	168	165	162	171
	Total FTEs	2,634.4	15,227.1	1,243.9	3,891.3
	Average	15.7	92.3	7.7	22.8
	1st Quartile	3.2	18.3	2.0	5.1
	Median Value	8.8	55.0	4.8	14.4
	3rd Quartile	22.5	122.5	10.9	32.1

Number of HEIs who participated in the study

Key of Acronyms

I-O Institution-own funded Research
PGR Postgraduate Research
RG&C Externally Funded Research Grants and Contracts
HEIs Higher Education Institutions

# Table 5. Research cost per FTE (£s)

Note: RG&C is	calculated using t	he net RG&C costs	s (i e without e	cholarchine etc)

Note:	RG&C is calculated using the net RC	G&C costs (i.e.	without scholarships etc)	1	1			
						RG&C cost	I-O and	Total
				I-O cost per	PGR cost	per	RG&C cost	research
		Subject		academic staff FTE	per student FTE	academic	per academic	costs per academic
		group for comparative				staff FTE	staff FTE	staff FTE
LIEC	A	purposes		Contor	Sector	Contor	Conton	Sector
1 1	A academic cost centre  Total clinical medicine	only i	Number of HEIs	Sector 30	Sector 29	Sector 30	Sector 30	Sector 30
	Total clinical medicine		Average	389,644	24,071	972,412	849,187	918,506
			1st Quartile	296,191	14,829	661,502	583,323	628,765
			Median Value	409,801	24,272	901,998	788,100	864,845
2	Total aliniaal dantiatus	i	3rd Quartile Number of HEIs	545,987	36,921 16	1,312,455 16	1,079,248	1,122,703
_	Total clinical dentistry	1	Average	15 200,125	34,266	452,307	332,001	16 408,366
			1st Quartile	178,082	20,225	391,748	274,118	363,114
			Median Value	244,817	28,839	471,666	387,192	503,504
3	Veterinary science	ii	3rd Quartile	350,370	41,995	796,280	553,341	680,050
3	veterinary science	"	Number of HEIs Average	358,151	8 33,526	8 746,058	635,659	8 724,111
			1st Quartile	217,316	26,722	484,648	437,020	532,974
			Median Value	345,701	36,544	526,767	514,181	607,168
_	A - t d - b i - l		3rd Quartile	455,464	47,153	824,260	719,751	834,473
4	Anatomy and physiology	ii	Number of HEIs Average	14 345 211	14 23,216	1 006 807	14 818,371	016 670
			1st Quartile	345,211 270,178	12,469	1,006,807 577,033	503,333	916,679 634,762
			Median Value	320,230	22,216	715,237	643,542	743,909
			3rd Quartile	416,261	29,234	983,492	878,896	944,376
5	Nursing and paramedical studies	iii	Number of HEIs Average	19	18	18	19	19
			1st Quartile	184,331 114,545	19,775 11,047	384,001 277,093	299,699 177,490	356,997 226,879
			Median Value	160,829	24,490	328,155	264,901	325,380
			3rd Quartile	306,795	40,270	482,086	422,342	491,149
6	Health and community studies	ii	Number of HEIs	21	21	20	21	21
			Average 1st Quartile	178,666	16,164	361,782	295,229	333,915
			Median Value	113,188 192,036	10,000 13,489	202,408 303,190	200,584 280,120	218,156 333,776
			3rd Quartile	315,660	23,246	564,644	480,786	541,281
7	Psychology and behavioural	iii	Number of HEIs	35	35	34	35	35
	sciences		Average	209,750	14,427	375,449	314,597	379,084
			1st Quartile Median Value	146,379	10,350	232,750	210,171	253,457
			3rd Quartile	207,229 267,446	13,571 23,936	351,754 471,177	262,197 342,257	306,244 427,123
8	Pharmacy and pharmacology	ii	Number of HEIs	15	15	15	15	15
			Average	270,014	20,880	628,467	538,329	653,614
			1st Quartile Median Value	182,432	17,118	570,454	484,379	599,142
			3rd Quartile	318,824 452,174	25,694 33,486	705,994 986,598	633,581 804,306	740,600 922,052
10	Biosciences	ii	Number of HEIs	38	37	38	38	39
			Average	413,004	22,284	966,441	800,867	961,432
			1st Quartile Median Value	212,236	15,303	586,618	509,452	532,804
			3rd Quartile	330,922 480,412	20,989 26,909	830,286 1,251,922	691,202 912,377	903,548 1,065,430
11	Chemistry	ii	Number of HEIs	28	28	29	28	28
			Average	392,211	23,721	785,109	660,872	841,642
			1st Quartile	190,646	16,794	486,002	421,198	561,172
			Median Value 3rd Quartile	305,046 509,623	23,135 29,053	640,209 907,805	560,833 774,317	785,225 994,642
12	Physics	ii	Number of HEIs	509,623	29,053	907,805	774,317	994,642
Ì			Average	302,949	21,327	772,842	634,629	734,049
			1st Quartile	185,417	15,759	505,452	437,064	539,063
			Median Value 3rd Quartile	328,183	20,612	600,525	527,387	638,678
13	Agriculture and forestry	ii	Number of HEIs	452,742 2	27,661	836,085 2	630,994	742,261 2
	=,		Average					
			1st Quartile					
			Median Value 3rd Quartile					
14	Earth, marine and environmental	ii	Number of HEIs	. 24	. 24	. 24	. 24	. 24
	sciences		Average	275,018	18,713	538,187	476,651	550,239
			1st Quartile	164,517	12,566	306,410	274,396	336,132
			Median Value	233,563	16,765	521,575	458,495	551,062
16	General engineering	ii	3rd Quartile	356,949	24,892	729,526	564,126	651,170
10	General engineering	11	Number of HEIs Average	14 405,064	14 21,920	14 857,922	14 702,452	14 850,476
			1st Quartile	173,342	12,446	569,382	445,714	495,103
			Median Value	293,037	19,734	777,394	609,814	752,726
			3rd Quartile	568,745	26,040	1,227,528	853,358	1,084,228

				I-O cost per	PGR cost	RG&C cost	I-O and RG&C cost	Total research
		Subject		academic	per student	per academic	per	costs per
		group for comparative		staff FTE	FTE	staff FTE	academic staff FTE	academic staff FTE
HES	A academic cost centre	purposes only		Sector	Sector	Sector	Sector	Sector
17	Chemical engineering	ii	Number of HEIs	13	13	13	13	13
			Average	451,976	23,701	781,758	717,588	955,813
			1st Quartile Median Value	288,800	14,205 22,271	561,709	517,110	710,336
			3rd Quartile	431,604 454,237	28,619	607,152 905,240	571,678 736,869	860,348 1,058,777
18	Mineral, metallurgy and materials	ii	Number of HEIs	13	12	13	13	13
	engineering		Average	462,304	25,553	868,242	778,136	992,095
			1st Quartile Median Value	289,474	14,339	642,614	636,097	752,678
			3rd Quartile	489,057 531,178	20,003 28,096	815,546 1,084,516	651,310 997,391	795,906 1,189,380
19	Civil engineering	ii	Number of HEIs	24	23	22	24	24
			Average	312,784	21,791	552,026	478,984	611,875
			1st Quartile Median Value	181,251 279,435	15,342 21,973	359,248 489,608	301,341 409,601	381,201 533,198
			3rd Quartile	336,368	29,365	666,836	565,270	713,136
20	Electrical, electronic and computer	ii	Number of HEIs	28	28	27	29	29
	engineering		Average	267,593	22,207	556,637	485,761	613,935
			1st Quartile Median Value	163,160	15,559	379,087	316,938	399,275
			3rd Quartile	259,229 330,871	21,670 25,315	534,773 796,875	472,697 547,018	606,742 693,902
21	Mechanical, aero and production	ii	Number of HEIs	24	23,313	23	23	24
	engineering		Average	316,727	24,474	563,446	499,047	674,298
			1st Quartile Median Value	204,628	18,817	407,499	362,392	500,388
			3rd Quartile	315,464 460,520	21,941 27,344	560,617 817,409	467,871 649,314	680,768 832,821
23	Architecture, built environment and	iii	Number of HEIs	400,320	20	20	21	21
	planning		Average	220,343	14,119	409,440	327,478	383,008
			1st Quartile Median Value	163,897	10,662	264,511	223,457	272,100
			3rd Quartile	192,094 246,439	13,032 19,676	293,201 394,414	257,613 303,061	305,751 359,121
24	Mathematics	ii	Number of HEIs	36	35	35	36	36
			Average	164,355	19,063	295,561	218,584	271,455
			1st Quartile	121,683	12,369	184,478	160,515	219,693
			Median Value 3rd Quartile	158,305 193,875	18,243 25,308	274,126 381,087	195,219 265,391	244,436 336,786
25	Information technology, systems	ii	Number of HEIs	193,675	25,306	301,007	205,391	38
	sciences & computer software		Average	225,655	17,001	495,671	347,124	422,929
	engineering		1st Quartile	145,378	10,699	340,741	255,150	309,436
			Median Value 3rd Quartile	189,708	16,022	416,871	337,070	403,493 493,235
26	Catering & hospitality management	iii	Number of HEIs	324,322	21,877	560,519 2	403,241	493,235
	. , ,		Average					
			1st Quartile					
			Median Value 3rd Quartile					
27	Business and management studies	iv	Number of HEIs	. 38	. 38	. 38	. 38	. 39
	-		Average	182,865	16,508	318,755	232,059	287,791
			1st Quartile	138,211	10,132	194,675	163,503	202,981
			Median Value 3rd Quartile	157,991	16,786	257,785	206,557	247,114
28	Geography	iii	Number of HEIs	224,249 29	21,907 29	417,047 28	240,961 29	307,194
			Average	186,703	16,853	339,486	279,257	329,188
			1st Quartile	143,579	12,784	233,408	213,624	245,021
			Median Value	200,568	15,169	303,687	271,637	328,902
29	Social studies	v	3rd Quartile Number of HEIs	227,005 39	22,528 40	472,869 39	336,515 40	386,255 40
			Average	164,257	11,468	304,717	219,027	257,586
			1st Quartile	133,137	7,803	193,186	159,094	197,763
			Median Value 3rd Quartile	145,609	12,593	257,633	183,644	225,050
30	Media studies	v	Number of HEIs	203,517	16,959 18	375,821 17	257,432 20	298,608 20
	· · · · · · · · · · · · · ·		Average	19 150,382	8,353	207,131	20 175,443	201,439
			1st Quartile	104,702	5,414	170,529	121,353	135,677
			Median Value	137,958	9,058	236,215	174,566	216,214
31	Humanities	V	3rd Quartile	224,149	12,500	314,752	269,600	284,735
JI	a.manuoo	•	Number of HEIs Average	38 139,939	37 9,222	38 238,348	39 169,064	39 208,391
			1st Quartile	109,198	6,439	185,429	126,837	159,899
			Median Value	128,207	10,199	215,119	154,689	192,414
22	Design and creative arts	iii	3rd Quartile	160,757	13,047	315,714	183,643	217,558
33	Design and creative arts	Ш	Number of HEIs Average	32 181,240	33 10,438	31 249,627	31 198,723	32 241,837
			1st Quartile	126,648	7,967	177,918	170,006	207,245
			Median Value	176,964	10,426	249,115	200,000	250,013
٠.	Education		3rd Quartile	225,686	13,143	405,877	228,091	277,551
34	Education	V	Number of HEIs Average	32 185 776	32 10 518	32 377 545	32 284 069	32 363 228
			-	185,776	10,518	377,545	284,069	363,228
			1st Quartile	129.547	7.086	191.065	169.189	223.738
			1st Quartile Median Value	129,547 177,646	7,086 9,312	191,065 285,247	169,189 225,211	223,738 289,079

		Subject group for comparative		I-O cost per academic staff FTE	PGR cost per student FTE	RG&C cost per academic staff FTE	I-O and RG&C cost per academic staff FTE	Total research costs per academic staff FTE
HES	A academic cost centre	purposes only		Sector	Sector	Sector	Sector	Sector
35	Modern languages	V	Number of HEIs	31	30	27	30	31
			Average	137,171	11,783	196,705	149,960	176,605
			1st Quartile	109,666	7,014	132,836	119,598	144,039
			Median Value	130,277	13,136	166,992	141,854	172,480
			3rd Quartile	165,525	20,380	218,019	165,995	216,011
37	Archaeology	iii	Number of HEIs	19	19	20	20	20
			Average	161,984	10,362	526,426	313,073	364,478
			1st Quartile	114,723	7,739	233,660	171,778	206,034
			Median Value	149,727	10,395	328,040	222,679	272,001
			3rd Quartile	215,689	12,121	672,513	387,914	455,566
38	Sports science and leisure studies	iii	Number of HEIs	13	12	13	13	13
			Average	188,894	21,302	290,425	239,784	332,988
			1st Quartile	128,563	10,344	165,789	145,436	219,056
			Median Value	162,559	19,186	295,333	240,238	317,010
			3rd Quartile	265,086	23,240	421,157	302,381	420,000
41	Continuing education	V	Number of HEIs	9	8	9	10	10
			Average	249,021	6,308	374,053	310,407	332,974
			1st Quartile	156,768	2,154	156,394	156,510	169,676
			Median Value	214,455	6,103	329,167	342,257	355,322
			3rd Quartile	400,000	13,155	410,000	765,425	776,216
	Total - all cost centres		Number of HEIs	45	45	45	45	45
			Average	214,657	18,193	668,046	466,444	540,686
			1st Quartile	151,941	13,663	418,904	289,691	377,512
			Median Value	200,511	17,265	563,089	394,528	463,813
			3rd Quartile	257,538	22,702	800,867	462,508	536,472

Table 6. Research cost per FTE (£s)

Subject group for comparative purposes		I-O cost per academic staff FTE	PGR cost per student FTE	per academic staff FTE	per academic staff FTE	Total research costs per academic staff FTE
only	1	Sector	Sector	Sector	Sector	Sector
i	Number of HEIs	30	29	30	30	30
	Average	363,483	24,589	949,368	814,725	884,513
	1st Quartile	289,885	15,105	652,173	564,168	630,637
	Median Value	355,564	24,272	865,028	736,132	795,082
	3rd Quartile	533,659	35,818	1,293,746	1,054,324	1,100,796
ii	Number of HEIs	43	43	43	42	43
	Average	283,043	21,944	700,196	554,379	676,200
	1st Quartile	181,739	14,618	456,126	394,666	496,253
	Median Value	268,418	20,505	585,682	483,509	614,580
	3rd Quartile	360,215	27,248	916,104	614,136	736,640
iii	Number of HEIs	39	40	40	39	40
	Average	191,811	14,517	366,744	284,582	340,733
	1st Quartile	142,431	9,837	258,246	225,481	256,523
	Median Value	192,366	13,715	349,791	262,378	341,850
	3rd Quartile	256,760	19,672	452,135	322,301	383,432
iv	Number of HEIs	38	38	38	38	39
	Average	182,865	16,508	318,755	232,059	287,791
	1st Quartile	138,211	10,132	194,675	163,503	202,981
	Median Value	157,991	16,786	257,785	206,557	247,114
	3rd Quartile	224,249	21,907	417,047	240,961	307,194
٧	Number of HEIs	42	42	42	42	42
	Average	153,511	10,388	286,556	200,190	241,263
	1st Quartile	124,918	7,215	198,731	149,917	193,769
	Median Value	146,708	11,983	259,015	178,043	210,972
	3rd Quartile	183,195	14,234	353,687	235,640	277,230

# Review of research cost relativities 2008-09: summary

Number of HEIs who participated in the study 46 Key of Acronyms

I-O Institution-own funded Research
PGR Postgraduate Research
RC&C Externally Funded Research Grants and Contracts
HEIs Higher Education Institutions

# Table 7. Cost relativities

	&C is calculated using the net RG&	C costs (i.e. v	without scholarships etc)	1	1	-	1	
						RG&C	I-O and	Tota
		Subject		I-O cost		cost	RG&C	research
		group for comparative		relativity	relativity	relativity	cost relativity	cos relativity
		purposes					_	
	cademic cost centre  Total clinical medicine	only	North an af LIFIa	Sector 28	Sector 27	Sector 28	Sector 28	Sector 28
1	lotal clinical medicine	i	Number of HEIs Average	2.54	2.32	3.39	4.24	3.81
			1st Quartile	2.08	1.71	2.29	3.07	2.86
			Median Value	2.79	2.37	3.15	4.04	3.63
			3rd Quartile	3.37	3.39	4.70	5.11	4.43
2	Total clinical dentistry	i	Number of HEIs	15	16	16	16	16
			Average	1.30	3.30	1.58	1.66	1.69
			1st Quartile Median Value	1.21	1.67	1.47	1.63	1.58
			3rd Quartile	1.55	2.85	1.71	2.06	2.19
3	Veterinary science	ii	Number of HEIs	2.36	3.32 7	2.54 7	2.52 7	2.68
Ü	votormary obtained		Average	2.33	3.23	2.60	3.18	3.00
			1st Quartile	1.38	2.10	1.68	2.78	2.64
			Median Value	2.04	2.57	1.96	2.99	3.10
			3rd Quartile	2.94	3.71	3.58	4.16	3.96
4	Anatomy and physiology	ii	Number of HEIs	14	14	14	14	14
			Average	2.25	2.23	3.51	4.09	3.80
			1st Quartile	1.60	1.45	1.69	2.46	2.61
			Median Value 3rd Quartile	2.15	2.16	2.68	3.73	3.64
5	Nursing and paramedical studies	iii	Number of HEIs	2.93	3.86	3.73	5.06	4.7
J			Number of HEIS Average	19 1.20	18 1.90	18 1.34	19 1.50	19 1.48
			1st Quartile	1.02	0.89	0.91	1.09	1.13
			Median Value	1.23	1.63	1.25	1.39	1.3
			3rd Quartile	1.95	2.71	2.10	2.16	2.30
6	Health and community studies	ii	Number of HEIs	21	21	20	21	2′
			Average	1.16	1.56	1.26	1.47	1.38
			1st Quartile	0.97	0.93	0.83	1.19	1.16
			Median Value	1.38	1.39	1.26	1.70	1.39
7	Psychology and behavioural	iii	3rd Quartile	1.79	1.98	2.11	2.26	2.16
,	sciences	III	Number of HEIs Average	35 1.37	35	34 1.31	35 1.57	35
			1st Quartile	1.09	1.39 0.98	1.00	1.17	1.57 1.04
			Median Value	1.47	1.33	1.22	1.61	1.59
			3rd Quartile	1.77	1.88	1.77	2.06	2.03
8	Pharmacy and pharmacology	ii	Number of HEIs	15	15	15	15	15
			Average	1.76	2.01	2.19	2.69	2.7
			1st Quartile	1.36	1.50	1.77	2.31	2.42
			Median Value	2.17	2.37	2.33	3.41	3.13
10	Biosciences	ii	3rd Quartile	2.61	2.74	3.24	3.90	3.72
10	Diosciences	11	Number of HEIs Average	37 2.69	36 2.15	37 3.37	38 4.00	3.98
			1st Quartile	1.61	1.36	2.19	2.59	2.56
			Median Value	2.11	2.01	2.75	3.48	3.2
			3rd Quartile	2.80	2.70	3.90	4.95	4.80
11	Chemistry	ii	Number of HEIs	28	28	29	28	28
			Average	2.55	2.28	2.74	3.30	3.49
			1st Quartile	1.20	1.50	2.07	2.11	2.35
			Median Value	2.23	1.82	2.69	3.40	3.4
12	Physics	ii	3rd Quartile	3.15	2.87	3.23	3.86	4.25
12	i ilyaloa	"	Number of HEIs Average	33	32	33	33	33
			1st Quartile	1.97 1.30	2.05 1.19	2.70 1.74	3.17 2.25	3.0 <sup>2</sup> 2.20
			Median Value	1.69	1.79	2.33	2.23	2.85
			3rd Quartile	2.58	2.25	2.91	3.57	3.47
13	Agriculture and forestry	ii	Number of HEIs	2	2	2	2	2
			Average					
			1st Quartile					
			Median Value 3rd Quartile		•	•	•	
			ora Quartile					
1/1	Farth marine and environmental	<u></u>	Number of LITI-		٠.			
14	Earth, marine and environmental sciences	ii	Number of HEIs Average	24 1 70	24 1.80	24	24	24
14		ii	Average	1.79	1.80	1.88	2.38	2.28
14		ii		1.79 1.12	1.80 1.41	1.88 1.34	2.38 1.82	2.28 1.78
14		ii	Average 1st Quartile	1.79	1.80	1.88	2.38	2.28 1.78 2.28
14		ii	Average 1st Quartile Median Value	1.79 1.12 1.51	1.80 1.41 1.81	1.88 1.34 1.88	2.38 1.82 2.26	2.28 1.78 2.29 2.99
	sciences		Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average	1.79 1.12 1.51 2.38	1.80 1.41 1.81 2.37	1.88 1.34 1.88 2.75	2.38 1.82 2.26 3.04	2.28 1.78 2.28 2.98
	sciences		Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile	1.79 1.12 1.51 2.38	1.80 1.41 1.81 2.37	1.88 1.34 1.88 2.75	2.38 1.82 2.26 3.04	
	sciences		Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average	1.79 1.12 1.51 2.38 14 2.64	1.80 1.41 1.81 2.37 14 2.11	1.88 1.34 1.88 2.75 14 2.99	2.38 1.82 2.26 3.04 14 3.51	2.28 1.78 2.25 2.95 14 3.53

		Subject group for comparative purposes	e	I-O cost relativity	PGR cost relativity	RG&C cost relativity	I-O and RG&C cost relativity	Total research cost relativity
	cademic cost centre	only		Sector	Sector	Sector	Sector	Sector
17	Chemical engineering	ii	Number of HEIs	13	13	13	13	13
			Average	2.94	2.28	2.73	3.58	3.96
			1st Quartile	1.93	1.60	2.21	2.45	2.91
			Median Value 3rd Quartile	2.17	1.78	3.17	3.56	3.95
18	Minaral matallurar and	ii		2.63	2.26	3.35	4.15	4.26
10	Mineral, metallurgy and materials engineering	"	Number of HEIs Average	13	12	13	13	13
	g		1st Quartile	3.01	2.46	3.03	3.89	4.11
			Median Value	2.10 2.84	1.25 1.68	2.60 3.23	3.15 3.67	2.90 3.78
			3rd Quartile	3.50	2.51	3.60	5.15	5.80
19	Civil engineering	ii	Number of HEIs	24	2.51	22	24	24
	3 3 3		Average	2.04	2.10	1.93	2.39	2.54
			1st Quartile	1.39	1.41	1.71	1.88	1.92
			Median Value	1.70	1.91	2.04	2.20	2.34
			3rd Quartile	2.17	2.10	2.73	2.78	3.05
20	Electrical, electronic and	ii	Number of HEIs	28	28	27	29	29
	computer engineering		Average	1.74	2.14	1.94	2.43	2.54
			1st Quartile	1.22	1.43	1.65	1.85	1.91
			Median Value	1.68	1.79	2.13	2.53	2.38
			3rd Quartile	2.00	2.14	2.71	3.05	3.26
21	Mechanical, aero and production	ii	Number of HEIs	24	24	23	23	24
	engineering		Average	2.06	2.36	1.97	2.49	2.79
			1st Quartile	1.52	1.67	1.79	2.00	2.15
			Median Value	2.01	1.98	2.30	2.60	2.87
	Analytication In 20		3rd Quartile	2.55	2.24	2.75	3.24	3.45
23	Architecture, built environment and planning	iii	Number of HEIs	20	20	20	21	21
	and planning		Average	1.44	1.36	1.43	1.64	1.59
			1st Quartile Median Value	1.05	1.12	1.09	1.13	1.14
			3rd Quartile	1.21	1.30	1.30	1.54	1.54
24	Mathematics	ii		1.62	1.58	1.84	1.81	1.76
24	Mathematics	"	Number of HEIs Average	36	35	35	36	36
			1st Quartile	1.07 0.89	1.84 1.22	1.03 0.77	1.09 0.92	1.13 0.94
			Median Value	0.89	1.64	1.02	1.02	1.12
			3rd Quartile	1.14	2.18	1.02	1.02	1.12
25	Information technology, systems	ii	Number of HEIs	39	39	39	38	38
	sciences & computer software		Average	1.47	1.64	1.73	1.73	1.75
	engineering		1st Quartile	1.07	1.02	1.73	1.43	1.40
			Median Value	1.31	1.55	1.90	1.75	1.83
			3rd Quartile	1.84	2.00	2.13	2.18	2.23
26	Catering & hospitality	iii	Number of HEIs	3	3	2	3	3
	management		Average					
			1st Quartile					
			Median Value					
			3rd Quartile					
27	Business and management	iv	Number of HEIs	37	38	38		00
							37	38
	studies		Average	1.19	1.59	1.11	37 1.16	1.19
	studies		1st Quartile	0.96	1.09	0.84	1.16 1.00	1.19 0.98
	studies		1st Quartile Median Value	0.96 1.12	1.09 1.43	0.84 1.19	1.16 1.00 1.17	1.19 0.98 1.14
00			1st Quartile Median Value 3rd Quartile	0.96 1.12 1.25	1.09 1.43 2.08	0.84 1.19 1.37	1.16 1.00 1.17 1.27	1.19 0.98 1.14 1.35
28	Geography	iii	1st Quartile Median Value 3rd Quartile Number of HEIs	0.96 1.12 1.25 29	1.09 1.43 2.08 29	0.84 1.19 1.37 28	1.16 1.00 1.17 1.27 29	1.19 0.98 1.14 1.35
28		iii	1st Quartile Median Value 3rd Quartile Number of HEIs Average	0.96 1.12 1.25 29 1.22	1.09 1.43 2.08 29 1.62	0.84 1.19 1.37 28 1.18	1.16 1.00 1.17 1.27 29 1.39	1.19 0.98 1.14 1.35 29 1.36
28		iii	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 29 1.22 1.00	1.09 1.43 2.08 29 1.62 1.20	0.84 1.19 1.37 28 1.18 0.92	1.16 1.00 1.17 1.27 29 1.39 1.16	1.19 0.98 1.14 1.35 29 1.36 1.15
28		iii	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value	0.96 1.12 1.25 29 1.22 1.00 1.27	1.09 1.43 2.08 29 1.62 1.20 1.48	0.84 1.19 1.37 28 1.18 0.92 1.15	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43	1.19 0.98 1.14 1.35 29 1.36 1.15
	Geography		1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27	1.09 1.43 2.08 29 1.62 1.20 1.48	0.84 1.19 1.37 28 1.18 0.92 1.15	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37
28		iii V	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69
	Geography		1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40
	Geography		1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97
	Geography		1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97
	Geography		1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 1st Quartile Median Value	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97
29	Geography Social studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04
29	Geography Social studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15
29	Geography Social studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Mumber of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average Number of HEIs Average	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16 20	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20
29	Geography Social studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 1.89	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 0.99 1.06 1.16 20 0.88 0.80	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83
29	Geography Social studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value	0.96 1.12 1.25 29 1.222 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.988 1.01	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.18 17 0.72 0.69 1.00	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16 20 0.88 0.80	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98
29	Geography  Social studies  Media studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Mumber of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average Ist Quartile Number of HEIs Average	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88 1.01 1.31	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 0.71 0.80 0.71 0.85 1.05	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 40 1.09 0.99 1.06 1.16 20 0.88 0.88 0.89	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86
29	Geography  Social studies  Media studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88 1.01 1.32 38	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 8 0.80 0.71 0.85 1.05	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 20 0.88 0.80 0.97 1.18	1.19 0.98 1.14 1.35 299 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86
29	Geography  Social studies  Media studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88 1.01 1.32 38 0.91 0.87	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 0.81 0.85 1.05 37 0.89 0.84 0.89	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 40 1.09 0.99 1.06 1.16 20 0.88 0.80 0.97 1.18	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86 0.78 0.89
30	Geography  Social studies  Media studies  Humanities	v v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88 1.01 1.32 38 0.91 0.87 0.93 1.00	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 0.80 0.71 0.85 1.05 37 0.89 0.84 0.89 1.00	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 0.116 20 0.88 0.89 0.97 1.18	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86 0.78 0.89 1.01
29	Geography  Social studies  Media studies	v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	0.96 1.12 1.25 2.9 1.22 1.00 1.27 1.48 3.9 1.07 1.00 1.04 1.13 1.9 0.98 0.88 1.01 1.32 3.8 0.91 0.87 0.93 1.00 3.2	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 1.8 0.80 0.71 0.85 1.05 37 0.89 0.84 0.84 0.84	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.12 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86 0.78 0.89 1.90 1.01
30	Geography  Social studies  Media studies  Humanities	v v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Mumber of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average	0.96 1.12 1.25 2.9 1.02 1.02 1.07 1.48 3.9 1.07 1.00 1.04 1.13 1.9 0.98 0.88 1.01 1.32 38 0.91 0.87 0.93 1.00 32 1.18	1.09 1.43 2.08 2.91 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71 0.85 1.05 37 0.89 0.84 0.89 1.00 33 1.00	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31 0.87	1.16 1.00 1.17 29 1.39 1.16 1.43 40 1.09 0.99 1.06 1.16 20 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.89	1.19 0.98 1.14 1.355 29 1.36 40 1.07 1.07 1.04 1.15 20 0.83 0.74 0.98 1.15 0.78 0.89 1.01
30	Geography  Social studies  Media studies  Humanities	v v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 2.99 1.22 1.00 1.27 1.48 3.99 1.07 1.00 1.04 1.13 1.13 1.13 1.13 1.13 1.00 1.32 1.00 1.04 1.13 1.00 1.04 1.13 1.01 1.08 1.01 1.08 1.01 1.08 1.01 1.08 1.01 1.08 1.01 1.09 1.09	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71 1.05 37 0.89 0.84 0.89 1.00 33 1.00 0.77	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31 0.87 0.72	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16 20 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.80 0.97	1.19 0.98 1.14 1.355 29 1.36 1.15 1.97 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86 0.88 1.15
30	Geography  Social studies  Media studies  Humanities	v v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88 0.91 1.32 38 0.91 0.87 0.93 1.00 32 1.18 0.99 1.11	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 5.105 37 0.89 0.84 0.89 1.00 33 1.00 0.77 1.00	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31 0.87 0.72 1.06	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.98 31 0.98 31 0.98 31 0.98	1.19 0.98 1.14 1.35 29 1.36 1.15 1.97 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86 0.78 0.89 1.01 0.83
30 31 33	Geography  Social studies  Media studies  Humanities  Design and creative arts	v v v iii	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile	0.96 1.12 1.25 29 1.22 1.00 1.27 1.48 39 1.07 1.00 1.04 1.13 19 0.98 0.88 1.01 1.32 38 0.91 0.87 0.93 1.00 32 1.18 0.99 1.111 1.37	1.09 1.43 2.08 2.99 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71 0.85 1.05 37 0.89 0.84 0.89 1.00 33 1.00 0.77 1.00 1.30	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.73 0.73 1.12 31 0.87 0.72 1.06 1.16 1.36	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 20 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.99 31 0.99 0.85 1.03 1.103	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.16 39 0.86 0.78 0.89 1.00 0.83 1.01
30	Geography  Social studies  Media studies  Humanities	v v	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs	0.96 1.12 1.25 2.9 1.22 1.00 1.27 1.48 3.9 1.07 1.00 1.04 1.13 1.9 0.98 0.88 1.01 1.322 3.8 0.91 0.87 0.93 1.00 3.2 1.18 0.99 1.11 1.37 3.2	1.09 1.43 2.08 2.99 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71 0.85 1.05 37 0.89 0.84 0.89 1.00 0.33 1.00 0.77 1.00 33	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31 0.87 0.72 1.06 1.36 32	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16 20 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.99 0.85 1.03 1.21 32	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 1.15 3.97 1.10 0.83 1.00 0.83 1.02 1.26 3.2
30 31 33	Geography  Social studies  Media studies  Humanities  Design and creative arts	v v v iii	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	0.96 1.12 1.25 2.99 1.22 1.00 1.27 1.48 3.99 1.07 1.00 1.04 1.13 1.19 0.98 0.88 1.01 1.32 38 0.91 0.97 1.00 32 1.11 1.137 1.137	1.09 1.43 2.08 29 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71 1.05 37 0.89 1.00 33 1.00 0.77 1.00 1.30	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31 0.87 0.72 1.06 1.36 1.36 1.36	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16 20 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.90 31 0.99 0.85 1.03 1.21 32 1.42	1.19 0.98 1.14 1.35 29 1.36 1.15 1.37 1.69 40 1.07 0.97 1.04 1.15 20 0.83 0.74 0.98 1.15 39 0.86 0.78 0.89 1.01 32 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.83 1.00 0.83 0.74 0.98 1.15 0.74 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.15 0.98 1.10 0.88
30 31 33	Geography  Social studies  Media studies  Humanities  Design and creative arts	v v v iii	1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Median Value 3rd Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Number of HEIs	0.96 1.12 1.25 2.9 1.22 1.00 1.27 1.48 3.9 1.07 1.00 1.04 1.13 1.9 0.98 0.88 1.01 1.322 3.8 0.91 0.87 0.93 1.00 3.2 1.18 0.99 1.11 1.37 3.2	1.09 1.43 2.08 2.99 1.62 1.20 1.48 1.89 40 1.10 1.00 1.08 1.28 18 0.80 0.71 0.85 1.05 37 0.89 0.84 0.89 1.00 0.33 1.00 0.77 1.00 33	0.84 1.19 1.37 28 1.18 0.92 1.15 1.62 39 1.06 0.92 1.02 1.18 17 0.72 0.69 1.00 1.20 38 0.83 0.72 0.93 1.12 31 0.87 0.72 1.06 1.36 32	1.16 1.00 1.17 1.27 29 1.39 1.16 1.43 1.78 40 1.09 0.99 1.06 1.16 20 0.88 0.80 0.97 1.18 39 0.84 0.79 0.88 0.99 0.85 1.03 1.21 32	1.19 0.98 1.14 1.35 29 1.36 40 1.07 0.97 1.04 1.15 20 0.83 1.15 3.9 0.74 0.98 1.15 3.9 0.89 1.01 3.2 1.00 0.83 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0

		Subject group for comparative purposes	3	I-O cost relativity	relativity	RG&C cost relativity	I-O and RG&C cost relativity	research cost relativity
HESA a	cademic cost centre	only		Sector	Sector	Sector	Sector	Sector
35	Modern languages	V	Number of HEIs	31	30	27	30	31
			Average	0.89	1.13	0.69	0.75	0.73
			1st Quartile	0.81	0.88	0.56	0.70	0.64
			Median Value	0.95	1.28	0.65	0.81	0.79
			3rd Quartile	1.05	1.54	0.88	0.98	0.97
37	Archaeology	iii	Number of HEIs	19	19	20	20	20
			Average	1.06	1.00	1.84	1.56	1.51
			1st Quartile	0.89	0.59	0.81	0.94	0.93
			Median Value	1.06	0.96	1.26	1.41	1.24
			3rd Quartile	1.42	1.24	2.25	2.00	1.96
38	Sports science and leisure	iii	Number of HEIs	13	12	13	13	13
	studies		Average	1.23	2.05	1.01	1.20	1.38
			1st Quartile	1.03	1.03	0.88	1.24	1.21
			Median Value	1.39	1.39	1.47	1.30	1.51
			3rd Quartile	1.96	2.75	1.68	1.87	1.83
41	Continuing education	V	Number of HEIs	9	8	9	10	10
			Average	1.62	0.61	1.31	1.55	1.38
			1st Quartile	1.13	0.29	0.61	0.85	0.84
			Median Value	1.41	0.56	1.16	1.76	1.51
			3rd Quartile	1.87	1.06	1.60	3.04	2.81
	Total - all cost centres		Number of HEIs	42	42	42	42	42
			Average	1.40		2.33		2.24
			1st Quartile	1.21	1.26	1.52	1.62	1.56
			Median Value	1.35	1.51	2.23	2.11	2.08
			3rd Quartile	1.45	1.90	2.62	2.57	2.37

Table 8. Cost relativities

Subject group for comparative purposes		I-O cost relativity		RG&C cost relativity	I-O and RG&C cost relativity	Total research cost relativity
only	'	Sector	Sector	Sector	Sector	Sector
i	Number of HEIs	28	27	28	28	28
	Average	2.37	2.37	3.31	4.07	3.67
	1st Quartile	1.85	1.71	2.27	2.95	2.80
	Median Value	2.57	2.29	3.11	3.94	3.53
	3rd Quartile	3.29	3.39	4.49	5.00	4.33
ii	Number of HEIs	41	41	41	41	41
	Average	1.84	2.11	2.44	2.77	2.80
	1st Quartile	1.40	1.44	1.88	2.20	2.16
	Median Value	1.64	1.85	2.48	2.67	2.64
	3rd Quartile	2.12	2.26	2.92	3.18	3.21
iii	Number of HEIs	39	40	40	39	40
	Average	1.25	1.40	1.28	1.42	1.41
	1st Quartile	1.06	1.05	1.12	1.23	1.21
	Median Value	1.31	1.25	1.30	1.50	1.46
	3rd Quartile	1.56	1.69	1.69	1.80	1.80
iv	Number of HEIs	37	38	38	37	38
	Average	1.19	1.59	1.11	1.16	1.19
	1st Quartile	0.96	1.09	0.84	1.00	0.98
	Median Value	1.12	1.43	1.19	1.17	1.14
	3rd Quartile	1.25	2.08	1.37	1.27	1.35
٧	Number of HEIs	42	42	42	42	42
	Average	1.00	1.00	1.00	1.00	1.00
	1st Quartile	1.00	1.00	1.00	1.00	1.00
	Median Value	1.00	1.00	1.00	1.00	1.00
	3rd Quartile	1.00	1.00	1.00	1.00	1.00

Number of HEIs who 46 participated in the study

Key of Acronyms

I-O Institution-own funded Research
PGR Postgraduate Research
RG&C Externally Funded Research Grants and Contracts
HEIs Higher Education Institutions

# Table 9. Research assistants per TRAC (FTEs)

Subject group for comparative purposes   Sector   Secto
HESA academic cost centre
HESA academic cost centre
HESA academic cost centre
Total clinical medicine   Number of HEIS   18   31   31   33   33   34   34   34   34
Total research assistants
Average
Median Value   17.8   161.2   189.8   347.7   351.6   27.0   27
2 Total clinical dentistry   i Number of HEIS   10   16   16   16   16   16   16   16
2 Total clinical dentistry   1
Average
1st Quarile
Median Value   0.9   7.0   7.5   3.75   3.76   Quartile   2.6   10.6   11.5   3.77   Quartile   2.6   10.6   11.5   3.77   Quartile   2.6   10.6   11.5   3.77   2.75   3.77   2.75   3.77   3.75   3.77   3.75
3   Veterinary science       Number of HEIS
Total research assistants
Average
Median Value
A Anatomy and physiology   ii
A Anatomy and physiology   ii
Total research assistants Average 4.5 35.1 33.1 4 519.0 4 1
1st Quartile
Median Value
Solumber of HEIs   13   19   19   19   19   19   19   19
Total research assistants
Average
1st Quartile   0.5   1.2   1.8   Median Value   2.2   4.8   6.5   3rd Quartile   4.7   9.9   19.2
Sign   Sumber of HEIs   Sumber of HEIs
Number of HEIs
Total research assistants
Average
Median Value
3rd Quartile
7 Psychology and behavioural       Number of HEIs   20   33   33   33   33   34   26   18.5
Average
1st Quartile
Median Value
Number of HEIs
Total research assistants
Average
Median Value   3.6   23.2   23.6     3rd Quartile   4.8   34.9   34.9     10 Biosciences   ii   Number of HEIs   21   36   36     Total research assistants   297.8   3,915.0   4,212.8     Average   14.2   108.8   117.0     1st Quartile   2.7   22.6   22.6     Median Value   9.3   75.3   89.6     3rd Quartile   21.9   136.8   1693.5     11 Chemistry   ii   Number of HEIs   15   28   28     Total research assistants   66.8   1,187.9   1,254.7     Average   4.5   42.4   44.8     Average   4.5   42.4   44.8     Average   4.5   42.4   44.8     Average   4.5   3.5   35.5   37.4     Average   4.5   3.5   35.5   37.4     Average   4.5   43.4   65.9     12 Physics   ii   Number of HEIs   15   30   30     Total research assistants   49.7   1,710.6   1,760.3     Average   3.3   57.0   58.7     Average   3.3   57.0   58.7     Average   3.3   57.0   58.7     Average   3.3   57.0   58.7     Average   4.5   42.4     Average   5.6   65.5   66.5     Average   4.5   43.4     Average   3.6   66.5     Agriculture and forestry   ii   Number of HEIs   1   1   1     Total research assistants   1   1   1     Total research assistants   39.5   644.7   684.2     Average   4.0   2.8   2.9     Average   4.0   2.8   2.8     Average   4.0   2.8     Average
3rd Quartile
Number of HEIs   21   36   36   36   36   36   36   36   42128   424   42   108.8   117.0   42128   4218
Average
1st Quartile
Median Value   9.3   75.3   89.6
11 Chemistry       Number of HEIs   15   28   28
Total research assistants
Average
1st Quartile
3rd Quartile
12 Physics     Number of HEIs   15   30   30   30   30   30   30   30   3
Total research assistants
Average   3.3   57.0   58.7     1st Quartile   0.6   19.0   24.0     Median Value   0.9   40.6   44.5     3rd Quartile   5.6   65.7   66.5     13 Agriculture and forestry   ii   Number of HEIs   1   1   1     Total research assistants
Median Value   0.9   40.6   44.5
3rd Quartile   5.6   65.7   66.5
Total research assistants
Average
1st Quartile
Median Value
14 Earth, marine and environmental ii         Number of HEIs         10         23         23           sciences         Total research assistants         39.5         644.7         684.2           Average         4.0         28.0         29.7           1st Quartile         1.5         6.8         6.8
sciences         Total research assistants         39.5         644.7         684.2           Average         4.0         28.0         29.7           1st Quartile         1.5         6.8         6.8
Average 4.0 28.0 29.7 1st Quartile 1.5 6.8 6.8
3rd Quartile 7.7 47.9 47.9
16 General engineering ii Number of HEIs 9 13 13
Total research assistants 29.9 571.6 601.5
Average 3.3 44.0 46.3 1st Quartile 1.0 13.4 17.3
Median Value 2.5 22.9 23.0
3rd Quartile 3.5 45.3 45.3

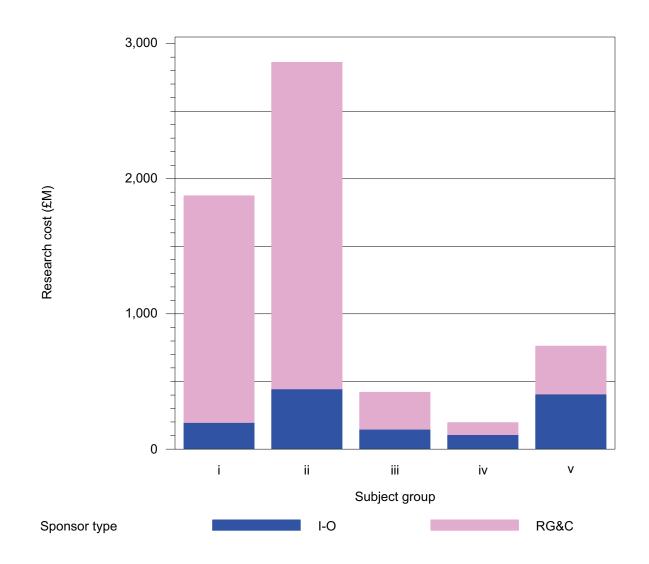
		Subject		I-O research	RG&C research	Total research
		group for		assistants per TRAC	assistants per TRAC	assistants per TRAC
		comparative purposes		per IRAC	per IRAC	per IRAC
	SA academic cost centre Chemical engineering	only ii	Number of HEIs	Sector	Sector 13	Sector 13
17	Chemical engineering	"	Total research assistants	12.4	240.1	252.5
			Average 1st Quartile	2.5 1.9	18.5 5.6	19.4 6.4
			Median Value 3rd Quartile	2.0 2.6	18.5 20.0	18.8 23.6
18	Mineral, metallurgy and	ii	Number of HEIs	6	13	13
	materials engineering		Total research assistants Average	26.6 4.4	386.6 29.7	413.2 31.8
			1st Quartile	1.6	11.0	14.0
			Median Value 3rd Quartile	2.6 3.0	15.0 59.6	15.4 59.6
19	Civil engineering	ii	Number of HEIs Total research assistants	11 30.0	21 289.9	21 319.9
			Average	2.7	13.8	15.2
			1st Quartile Median Value	0.8 2.0	4.8 8.4	5.0 9.5
20	Clastrical electronic and	ii	3rd Quartile Number of HEIs	3.5 13	16.5 26	17.0 26
20	Electrical, electronic and computer engineering	II .	Total research assistants	76.2	906.2	982.4
			Average 1st Quartile	5.9 2.2	34.9 10.1	37.8 13.4
			Median Value	4.3	25.6	30.0
21	Mechanical, aero and production	ii	3rd Quartile Number of HEIs	5.2 10	36.2 23	44.0 23
	engineering		Total research assistants Average	57.8 5.8	616.5 26.8	674.3 29.3
			1st Quartile	2.4	8.0	8.7
			Median Value 3rd Quartile	5.4 6.3	17.8 50.6	17.8 50.6
23	Architecture, built environment	iii	Number of HEIs	10	18	18
	and planning		Total research assistants Average	59.8 6.0	222.3 12.3	282.1 15.7
			1st Quartile Median Value	1.5 3.3	1.7 5.5	1.7 8.1
			3rd Quartile	7.3	21.0	28.3
24	Mathematics	ii	Number of HEIs Total research assistants	14 33.2	31 470.7	31 503.9
			Average 1st Quartile	2.4 1.0	15.2 4.3	16.3 5.6
			Median Value	1.4	8.4	9.5
25	Information technology, systems	ii	3rd Quartile Number of HEIs	2.3 21	16.0 37	16.0 37
	sciences & computer software		Total research assistants	56.9	733.0	789.9
	engineering		Average 1st Quartile	2.7 0.8	19.8 6.0	21.3 7.6
			Median Value 3rd Quartile	1.8 4.1	13.1 19.7	16.2 20.1
26	Catering & hospitality	iii	Number of HEIs	1	1	1
	management		Total research assistants Average			
			1st Quartile			
			Median Value 3rd Quartile			
27	Business and management studies	iv	Number of HEIs Total research assistants	21 82.2	36 297.1	36 379.3
			Average	3.9	8.3	10.5
			1st Quartile Median Value	1.5 2.4	2.1 4.7	4.0 6.7
28	Geography	III	3rd Quartile Number of HEIs	4.5 17	8.4 28	11.9 28
	Coography		Total research assistants	56.1	252.9	309.0
			Average 1st Quartile	3.3 1.2	9.0 4.1	11.0 4.7
			Median Value 3rd Quartile	2.4 5.1	6.6 11.0	8.2 16.1
29	Social studies	V	Number of HEIs	23	38	38
			Total research assistants Average	140.9 6.1	847.3 22.3	988.2 26.0
			1st Quartile Median Value	1.7	4.9 10.8	8.9 14.8
			3rd Quartile	8.2	24.9	29.4
30	Media studies	V	Number of HEIs Total research assistants	9 12.8	12 18.0	12 30.8
			Average	1.4	1.5	2.6
			1st Quartile Median Value	0.6 1.0	0.3 1.0	0.8 1.2
21	Humanities	V	3rd Quartile Number of HEIs	1.3 19	2.4	3.2 36
01	c/namaco		Total research assistants	68.8	444.9	513.7
			Average 1st Quartile	3.6 1.6	12.4 2.2	14.3 5.7
			Median Value 3rd Quartile	2.5 5.5	8.4 13.0	11.2 14.8
33	Design and creative arts	III	Number of HEIs	16	28	28
			Total research assistants Average	30.8 1.9	63.0 2.2	93.8 3.3
			1st Quartile	0.3	0.7	0.7
L			Median Value 3rd Quartile	0.4 2.0	1.6 2.8	2.1 3.8
34	Education	v	Number of HEIs Total research assistants	17 39.2	30 355.9	30 395.2
			Average	2.3	11.9	13.2
			1st Quartile Median Value	0.8 1.7	1.0 4.1	2.1 6.0
			3rd Quartile	3.3	10.1	11.9

					-	-
				I-O	RG&C	Total
		0.4.1		research	research	research
		Subject		assistants	assistants	assistants
		group for	_	per TRAC	per TRAC	per TRAC
		comparativ	e	per TRAC	per TRAC	per INAC
ше	SA academic cost centre	purposes only		Sector	Sector	Sector
		- ,	Number of HEIs	3ector	23	23
35	Modern languages	V				
			Total research assistants	14.1	78.9	92.9
			Average	1.3	3.4	4.0
			1st Quartile	0.2	0.3	0.7
			Median Value	0.4	2.0	2.4
			3rd Quartile	0.9	3.0	4.8
37	Archaeology	iii	Number of HEIs	9	19	19
			Total research assistants	18.1	140.3	158.4
			Average	2.0	7.4	8.3
			1st Quartile	0.6	1.1	2.1
			Median Value	1.0	4.3	4.3
			3rd Quartile	1.7	9.0	14.1
38	Sports science and leisure	iii	Number of HEIs	5	10	10
	studies		Total research assistants	9.6	36.4	46.0
			Average	1.9	3.6	4.6
			1st Quartile	0.7	0.4	1.4
			Median Value	1.0	3.3	3.7
			3rd Quartile	3.5	4.6	5.4
41	Continuing education	V	Number of HEIs	3	4	4
			Total research assistants	8.8	2.6	11.5
			Average	2.9	0.7	2.9
			1st Quartile	0.6	0.2	0.6
			Median Value	0.8	0.6	1.4
			3rd Quartile	7.5	1.1	5.2
	Total - all cost centres		Number of HEIs	27	44	44
l			Total research assistants	2,013.8	25,438.0	27,451.8
1			Average	74.6	578.1	623.9
I			1st Quartile	31.4	168.4	177.6
I			Median Value	67.9	390.0	424.0
1			3rd Quartile	84.0	723.5	781.7

Table 10. Research assistants per TRAC

		I-O	RG&C	Total
		research	research	research
		assistants	assistants	assistants
		per TRAC	per TRAC	per TRAC
Subject group for		per TRAC	per TRAC	per TRAC
comparative purposes				
only		Sector	Sector	Sector
i	Number of observations	28	47	47
	Total research assistants	470.8	8,971.5	9,442.3
	Average	16.8	190.9	200.9
	1st Quartile	1.6	7.9	8.6
	Median Value	9.0	71.3	71.3
	3rd Quartile	26.2	274.6	300.1
ii	Number of observations	174	348	348
	Total research assistants	876.0	13,033.2	13,909.2
	Average	5.0	37.5	40.0
	1st Quartile	1.3	6.6	8.1
	Median Value	2.6	18.5	20.1
	3rd Quartile	6.0	47.9	50.8
iii	Number of observations	91	156	156
	Total research assistants	299.7	1,388.5	1,688.2
	Average	3.3	8.9	10.8
	1st Quartile	0.5	1.5	2.0
	Median Value	1.9	4.4	6.3
	3rd Quartile	4.9	10.4	15.2
iv	Number of observations	21	36	36
	Total research assistants	82.2	297.1	379.3
	Average	3.9	8.3	10.5
	1st Quartile	1.5	2.1	4.0
	Median Value	2.4	4.7	6.7
	3rd Quartile	4.5	8.4	11.9
V	Number of observations	82	143	143
•	Total research assistants	284.6	1.747.6	2.032.2
	Average	3.5	12.2	14.2
	1st Quartile	0.9	1.1	2.0
	Median Value	2.2	4.6	7.7
	3rd Quartile	4.8	12.3	14.5
	oru Quartile	4.0	12.3	14.5

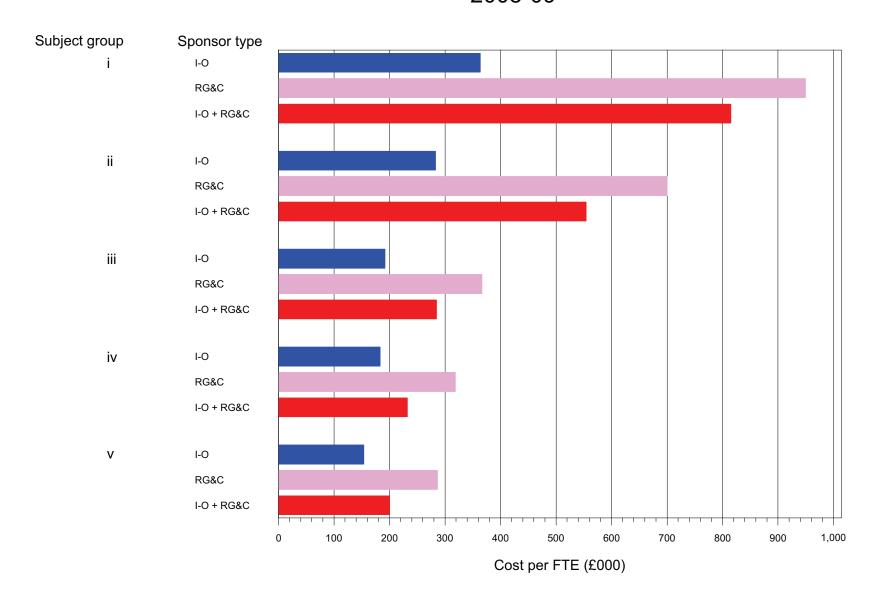
Figure 1. Volumes of activity: research costs for each subject group, by sponsor type 2008-09



I-O=Institution-own funded Research RG&C=Externally funded Research Grants and Contracts

Source: 2008-09 TRAC Review of Research Cost Relativities returns

Figure 2. Research cost per staff FTE: for each subject group, by sponsor type 2008-09



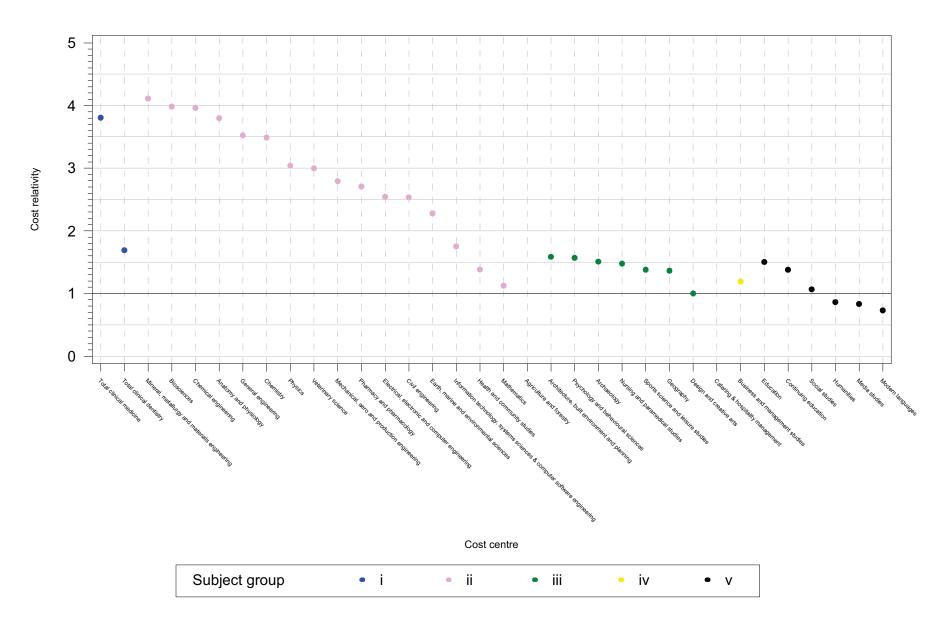
I-O=Institution-own funded Research

RG&C=Externally funded Research Grants and Contracts

I-O + RG&C=Institution-own funded Research + Externally funded Research Grants and Contracts

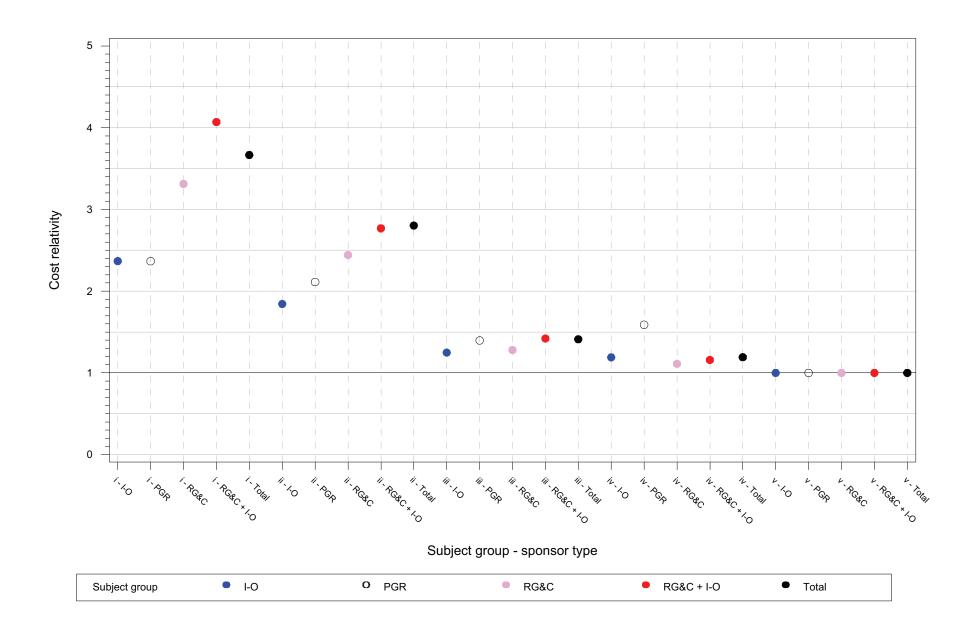
Source: 2008-09 TRAC Review of Research Cost Relativities returns

Figure 3. Total research cost relativities: for each cost centre, by subject group 2008-09



Note: No data is shown for cost centre 13 (Agriculture and forestry) and cost centre 26 (Catering and hospitality management) as there were too few respondents in these cost centres. Source: 2008-09 TRAC Review of Research Cost Relativities returns

Figure 4. Research cost relativities: by sponsor type, grouped by subject group 2008-09



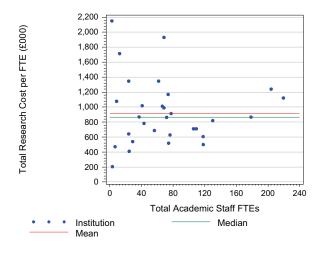
# Plots of 2008-09 Total research cost per FTE and academic staff FTEs for each cost centre

Each plot is a scatter graph of research costs per FTE (£000) against academic staff FTEs, taken from the 2008-09 TRAC Review of Research Cost Relativities data collection. The data have been displayed in this way so that the reader can appreciate the spread of data in any particular cost centre. The red and green lines represent the mean (total subject-related costs divided by total academic staff FTEs) and the median respectively. Also shown for comparison between cost centres, below each chart, are the upper and lower quartiles of the cost per FTE (£).

No data is shown for cost centre 13 (Agriculture and forestry) and cost centre 26 (Catering and hospitality management) as there were too few respondents in these cost centres.

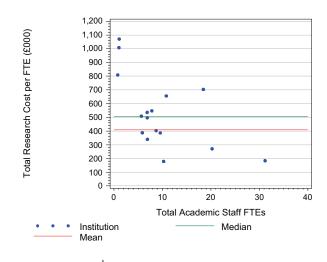
Source: 2008-09 TRAC Review of Research Cost Relativities returns

#### 01 Clinical Medicine



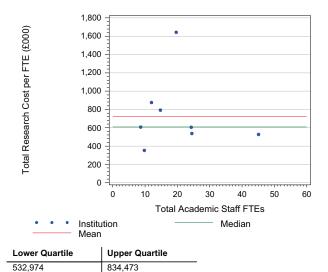
Lower Quartile	Upper Quartile
628,765	1,122,703

#### 02 Clinical Dentistry

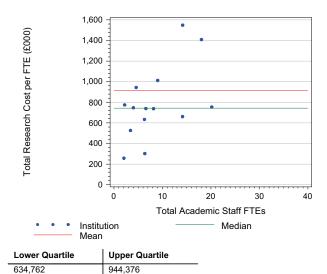


Lower Quartile	Upper Quartile
363,114	680,050

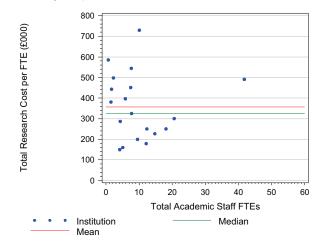
# 03 Veterinary science



# 04 Anatomy and physiology

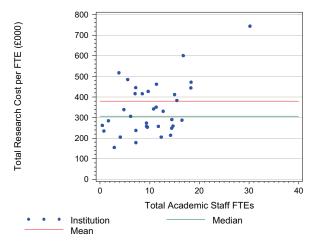


#### 05 Nursing and paramedical studies



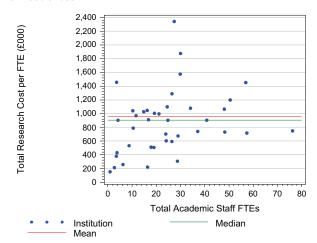
Lower Quartile	Upper Quartile
226,879	491,149

## 07 Psychology and behavioural sciences



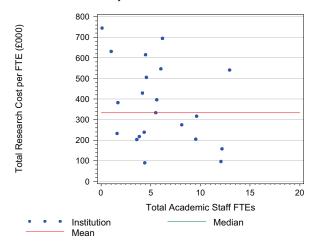
Lower Quartile	Upper Quartile
253,457	427,123

## 10 Biosciences



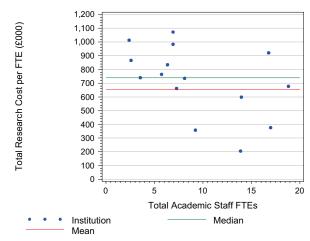
Lower Quartile	Upper Quartile
532,804	1,065,430

#### 06 Health and community studies



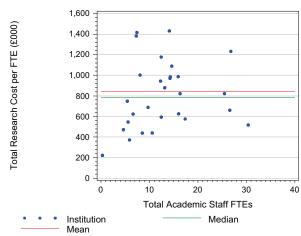
Lower Quartile	Upper Quartile
218,156	541,281

## 08 Pharmacy and pharmacology



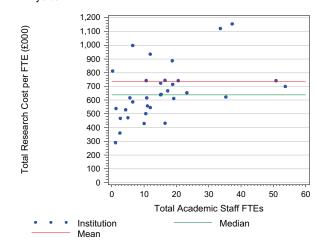
Lower Quartile	Upper Quartile
599,142	922,052

# 11 Chemistry



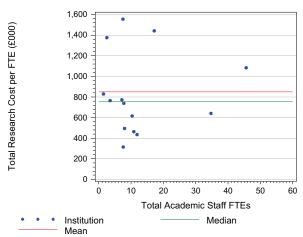
Lower Quartile	Upper Quartile
561,172	994,642

## 12 Physics



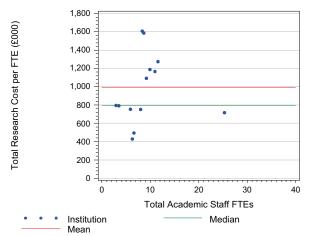
Lower Quartile	Upper Quartile
539,063	742,261

## 16 General engineering



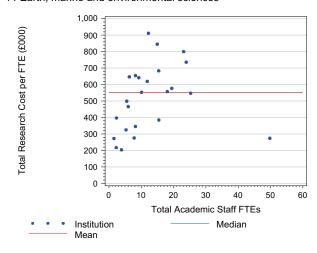
Lower Quartile	Upper Quartile
495,103	1,084,228

## 18 Mineral, metallurgy and materials engineering



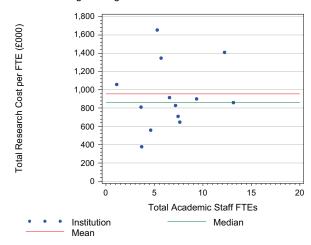
Lower Quartile	Upper Quartile
752,678	1,189,380

#### 14 Earth, marine and environmental sciences



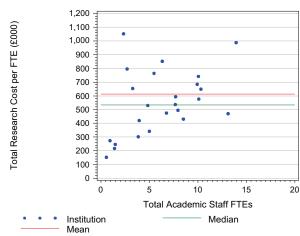
Lower Quartile	Upper Quartile
336,132	651,170

#### 17 Chemical engineering



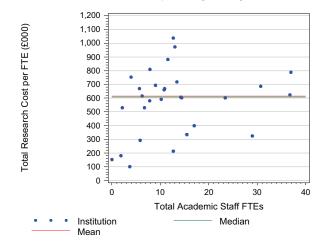
Lower Quartile	Upper Quartile
710,336	1,058,777

# 19 Civil engineering



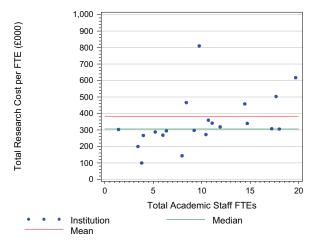
Lower Quartile	Upper Quartile
381,201	713,136

#### 20 Electrical, electronic and computer engineering



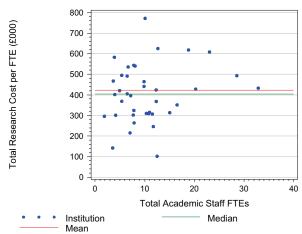
Lower Quartile	Upper Quartile
399,275	693,902

## 23 Architecture, built environment and planning



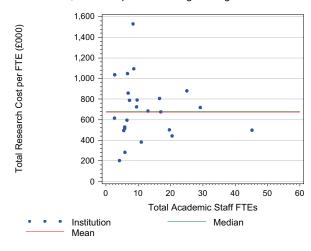
Lower Quartile	Upper Quartile
272,100	359,121

# 25 Information technology, systems sciences and computer software engineering



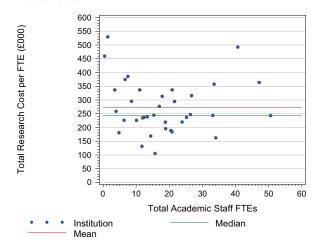
Lower Quartile	Upper Quartile
309,436	493,235

#### 21 Mechanical, aero and production engineering



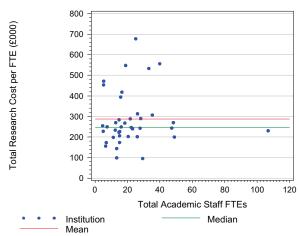
Lower Quartile	Upper Quartile
500,388	832,821

#### 24 Mathematics



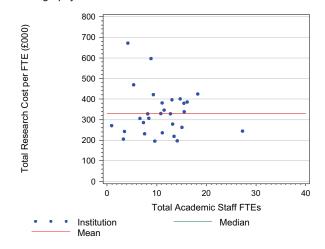
Lower Quartile	Upper Quartile
219,693	336,786

# 27 Business and management studies



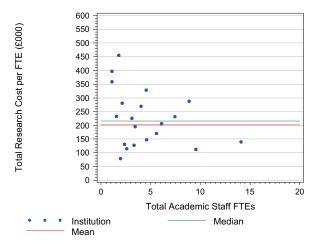
Lower Quartile	Upper Quartile
202,981	307,194

## 28 Geography



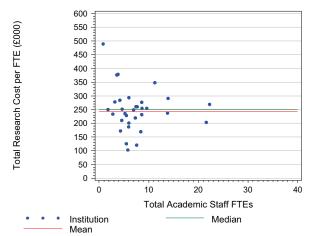
Lower Quartile	Upper Quartile
245,021	386,255

## 30 Media studies



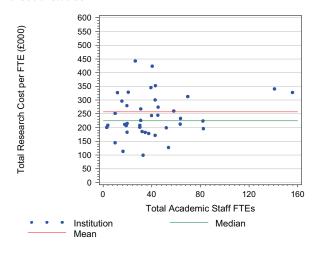
Lower Quartile	Upper Quartile
135,677	284,735

# 33 Design and creative arts



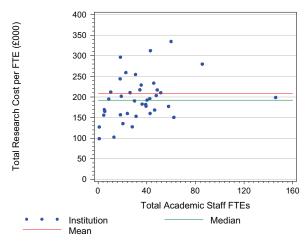
Lower Quartile	Upper Quartile
207,245	277,551

#### 29 Social studies



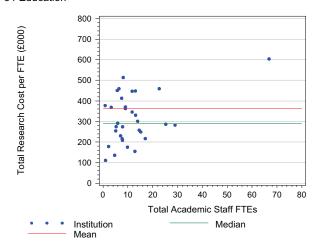
Lower Quartile	Upper Quartile
197,763	298,608

## 31 Humanities and language based studies



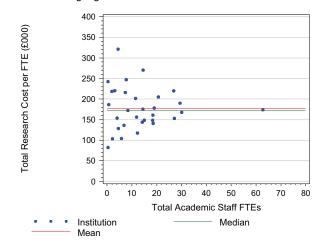
Lower Quartile	Upper Quartile
159,899	217,558

## 34 Education



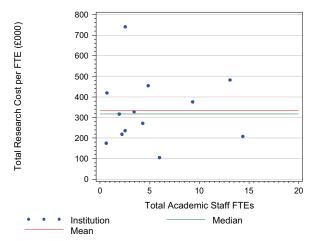
Lower Quartile	Upper Quartile
223,738	395,420

#### 35 Modern languages



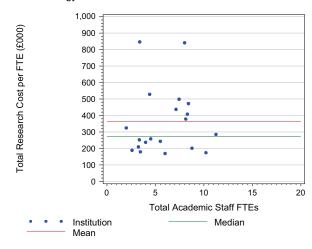
Lower Quartile	Upper Quartile
144,039	216,011

## 38 Sports science and leisure studies



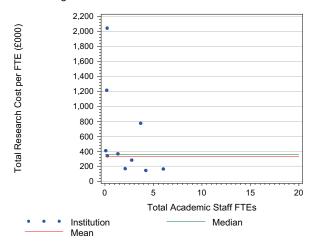
Lower Quartile	Upper Quartile
219,056	420,000

## 37 Archaeology



Lower Quartile	Upper Quartile
206,034	455,566

# 41 Continuing education



Lower Quartile	Upper Quartile
169,676	776,216