Annex 3 Review of research cost relativities 2009-10: summary

Number of HEIs who participated in the study

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

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Table 1a. Costs per TRAC (£000s)

			without scholarships etc)	I-O costs	PGR costs (including scholarships,	RG&C	I-O and RG&C	Total co
		Subject group for comparative purposes			stipends, maintenance etc)	costs	costs	resear
ES/	A academic cost centre Total clinical medicine	only i	Number of HEIs	Sector	Sector 30	Sector	Sector 30	Sec
	Total cirrical medicine		Total costs	168,677	168,725	1,706,716	1,861,618	2,022,5
			Average	5,623	5,624	56,891	62,054	67,4
			1st Quartile	1,581	2,148	14,890	19,093	19,4
			Median Value	4,885	3,872	43,282	47,152	49,7
			3rd Quartile	7,442	8,872	76,625	82,214	86,1
2	Total clinical dentistry	i	Number of HEIs	17	16	16	16	
			Total costs Average	14,591 858	12,005 750	36,920 2,308	47,521 2,970	63,5 3,7
			1st Quartile	328	275	1,152	2,970	2,2
			Median Value	619	581	2,053	2,569	3,7
			3rd Quartile	1,313	1,110	2,756	3,764	4,0
3	Veterinary science	ii	Number of HEIs	8	8	8	8	
			Total costs	15,633	15,040	79,704	95,337	110,
			Average	1,954	1,880	9,963	11,917	13,
			1st Quartile	873	878	5,363	6,237	7,
			Median Value 3rd Quartile	1,315 1,960	1,375 2,805	8,372 11,763	9,445 15,924	11, 18,
	Anatomy and physiology	ii	Number of HEIs	1,900	2,805	11,703	15,924	10,
•	ritation y and physiology		Total costs	12,060	12,408	91,756	103,816	116,
			Average	804	954	6,117	6,921	7,
			1st Quartile	288	482	1,667	1,880	2,
			Median Value	570	694	2,390	3,080	3,
			3rd Quartile	1,127	1,339	12,224	12,660	13,
5	Nursing and paramedical studies	iii	Number of HEIs	20	19	19	20	
			Total costs	10,196	8,791	36,567	46,764	55,
			Average 1st Quartile	510 138	463 134	1,925 461	2,338 659	2,
			Median Value	448	263	1,281	1,579	2,
			3rd Quartile	821	613	2,401	3,258	3,
6	Health and community studies	ii	Number of HEIs	21	21	22	22	-,
			Total costs	8,960	6,209	37,126	46,197	52,
			Average	427	296	1,688	2,100	2,
			1st Quartile	158	88	389	541	
			Median Value	267	219	762	1,173	1,
7	Payabalagy and babayioural	iii	3rd Quartile Number of HEIs	578	360 35	1,818 34	2,489 34	2,
(Psychology and behavioural sciences		Total costs	31,598	31,084	92,177	122,259	161,
	sciences		Average	929	888	2,711	3,596	4,
			1st Quartile	589	380	978	1,726	2,
			Median Value	829	602	1,750	2,699	3,
			3rd Quartile	1,135	1,179	3,067	4,114	5,
3	Pharmacy and pharmacology	ii	Number of HEIs	15	15	15	15	
			Total costs	10,053	15,786	65,948	76,001	91,
			Average 1st Quartile	670 241	1,052 448	4,397 1,553	5,067 1,860	6, 2,
			Median Value	385	781	3,898	4,285	2, 5,
			3rd Quartile	950	1,290	6,033	6,419	7,
0	Biosciences	ii	Number of HEIs	38	38	38	38	.,
			Total costs	83,542	127,052	734,374	760,829	951,
			Average	2,198	3,343	19,326	20,022	24,
			1st Quartile	910	1,547	5,399	5,349	8,
			Median Value 3rd Quartile	1,709 3,199	2,483 4,209	13,300 24,727	13,840 30,043	16, 37,
1	Chemistry	ii	Number of HEIs	3,199	4,209	24,727	30,043	<u>،</u> ۵۲
1	enonioù y		Total costs	36,657	77,204	223,982	260,639	337,
			Average	1,222	2,662	7,466	8,688	11,
			1st Quartile	513	964	2,706	3,533	4,
			Median Value	797	2,496	6,913	8,900	10,
_	Discolor		3rd Quartile	1,640	4,175	10,716	12,273	15,
2	Physics	ii	Number of HEIs	32	32 62 224	212 960	32	200
			Total costs Average	39,013 1,219	63,234 1,976	312,869 9,481	331,970 10,374	392, 12,
			Average 1st Quartile	399	781	3,285	3,715	4,
			Median Value	731	1,536	5,482	6,537	8,
			3rd Quartile	1,770	2,791	10,664	12,006	15,
3	Agriculture and forestry	ii	Number of HEIs	3	3	3	3	
			Total costs					
			Average					
			1st Quartile Median Value					
			3rd Quartile					
4	Earth, marine and environmental	ii	Number of HEIs	24	24	24	24	
	sciences		Total costs	25,557	35,728	138,945	164,503	200,
			Average	1,065	1,489	5,789	6,854	8,
			1st Quartile	351	620	1,981	2,520	3,
			Median Value	616	1,107	4,606	6,039	6,
_	O second and size and		3rd Quartile	1,340	2,403	9,684	11,947	14,
6	General engineering	li	Number of HEIs	28 102	16 42 101	16 138 301	17	200
			Total costs Average	28,192 1,658	42,191 2,637	138,391 8,649	166,582 9,799	208, 12,
			1st Quartile	1,000	2,637 644	2,100	9,799 2,745	3,
			Median Value	1,055	1,388	3,538	4,031	5,
			3rd Quartile	1,822	3,631	13,914	14,686	18,

				I-O costs	PGR costs (including scholarships,	RG&C	I-O and RG&C	Total costs
		Subject group for comparative purposes			stipends, maintenance etc)	costs	costs	research)
	A academic cost centre	only	Number of HEIs	Sector 11	Sector	Sector 12	Sector 12	Sector
17	Chemical engineering	п	Total costs	6,036	12 23,783	51,595	57,983	12 81,766
			Average	549	1,982	4,300	4,832	6,814
			1st Quartile Median Value	238 264	892 1,305	1,732 3,973	1,910 4,349	2,802 5,931
			3rd Quartile	762	3,276	5,825	6,379	9,656
18	Mineral, metallurgy and materials engineering	li	Number of HEIs Total costs	10 9,015	11 27,558	11 77,219	11 87,990	11 115,548
			Average	902	2,505	7,020	7,999	10,504
			1st Quartile Median Value	371 644	780 1,860	3,341 7,739	4,411 8,270	5,370 11,942
			3rd Quartile	1,142	3,672	8,812	10,808	14,932
19	Civil engineering	li	Number of HEIs Total costs	20 11,595	19 21,960	19 54,556	20 66,151	20 87,943
			Average	580	1,156	2,871	3,308	4,397
			1st Quartile Median Value	233 398	372 831	1,307 2,253	1,513 2,591	2,087 3,824
			3rd Quartile	636	1,498	4,449	4,951	6,649
20	Electrical, electronic and computer	ii	Number of HEIs	27	25	27	27	27
	engineering		Total costs Average	25,365 939	51,857 2,074	141,586 5,244	166,951 6,183	218,808 8,104
			1st Quartile	303	1,047	2,275	3,137	3,843
			Median Value 3rd Quartile	689 992	1,328	3,994 6,895	4,683	6,011 10,418
21	Mechanical, aero and production	ii	Number of HEIs	21	2,340 21	6,895	7,544 20	10,418
	engineering		Total costs	22,534	41,922	107,038	127,668	183,731
			Average 1st Quartile	1,073 385	1,996 760	5,352 2,183	6,383 2,978	8,749 3,833
			Median Value	731	1,291	3,879	5,075	6,636
			3rd Quartile	1,352	2,720	6,428	7,280	9,115
23	Architecture, built environment and planning	III	Number of HEIs Total costs	20 21,686	20 12,912	20 45,387	21 67,073	21 80,092
	F		Average	1,084	646	2,269	3,194	3,814
			1st Quartile Median Value	308 704	252 531	691 2,055	1,125 2,343	1,314 3,253
			3rd Quartile	1,322	916	3,681	4,519	5,095
24	Mathematics	ii	Number of HEIs	35	35	37	36	36
			Total costs Average	60,264 1,722	37,421 1,069	84,788 2,292	144,380 4,011	183,305 5,092
			1st Quartile	827	367	905	1,642	2,479
			Median Value 3rd Quartile	1,210 2,066	884 1,524	1,597 2,421	2,766 4,909	3,634 6,341
25	Information technology, systems	ii	Number of HEIs	39	39	38	39	39
	sciences & computer software		Total costs	40,563	40,838	120,935	161,498	202,337
	engineering		Average 1st Quartile	1,040 437	1,047 326	3,183 1,175	4,141 1,618	5,188 2,201
			Median Value	749	675	2,187	2,793	3,575
26	Catering & hospitality management		3rd Quartile Number of HEIs	1,237	1,264	3,908	4,796	6,150
20			Total costs Average 1st Quartile Median Value	2	Z	2	Ľ	2
27	Business and management studies	iv	3rd Quartile Number of HEIs	37	38	37	38	37
21	Dusiness and management studies	IV IV	Total costs	98,365	41,139	87,092	202,340	243,174
			Average	2,659	1,083	2,354	5,325 1.785	6,572
			1st Quartile Median Value	1,171 1,925	410 855	617 1,345	3,431	2,350 4,579
			3rd Quartile	3,310	1,540	3,087	6,885	9,197
28	Geography	III	Number of HEIs Total costs	27 24,511	29 18,775	29 64,233	29 89,722	28 104,385
			Average	908	647	2,215	3,094	3,728
			1st Quartile	495 863	381 597	1,068	1,789	2,366
			Median Value 3rd Quartile	1,129	855	1,849 2,798	2,876 3,902	3,143 4,892
29	Social studies	v	Number of HEIs	39	39	38	39	40
			Total costs Average	172,039 4,411	75,670 1,940	172,341 4,535	346,084 8,874	437,532 10,938
			1st Quartile	2,016	848	1,408	3,626	4,480
			Median Value 3rd Quartile	3,003 5,600	1,459 2,422	2,560 6,044	6,286 10,306	7,677 13,857
30	Media studies	v	Number of HEIs	5,600	2,422	6,044	10,306	13,657
			Total costs	8,230	2,586	5,117	13,886	16,540
			Average 1st Quartile	457 174	152 100	284 70	731 331	871 404
			Median Value	434	113	185	650	772
31	Humanities	v	3rd Quartile Number of HEIs	704	180 37	576 37	1,073 38	1,403
51		•	Total costs	137,135	59,511	89,828	232,349	294,686
			Average	3,609	1,608 854	2,428	6,114	7,755
			1st Quartile Median Value	1,615 3,133	854 1,193	817 1,921	2,770 4,739	3,779 6,253
	Desire and a 11 1		3rd Quartile	4,710	1,878	2,922	7,797	9,338
33	Design and creative arts	III	Number of HEIs Total costs	31 27,459	32 12,235	30 15,407	31 43,523	32 56,563
			Average	886	382	514	1,404	1,768
			1st Quartile Median Value	508 658	163 279	138 364	625 1 069	822
			3rd Quartile	1,003	279 443	364 755	1,069 2,155	1,339 2,490
	Education	v	Number of HEIs	32	32	32	32	32
34	Education		Total costs	00 76-				
34	Education	-	Total costs Average	33,797 1.056	33,106 1.035	63,528 1.985	97,202 3.038	132,074 4,127
34	Education		Total costs Average 1st Quartile Median Value	33,797 1,056 410 742	33,106 1,035 382 699	63,528 1,985 429 943	97,202 3,038 1,102 1,964	4,127 4,584 2,940

1150		Subject group for comparative purposes		I-O costs	stipends, maintenance etc)	RG&C costs	RG&C costs	Total costs (all research)
	A academic cost centre	only		Sector	Sector	Sector	Sector	Sector
35	Modern languages	v	Number of HEIs	30	28	28	29	30
			Total costs	42,073	12,908	18,894	60,173	74,378
			Average	1,402	461	675	2,075	2,479
			1st Quartile	518	91	152	562	650
			Median Value	1,014	386	423	1,543	1,920
			3rd Quartile	1,853	731	842	2,575	2,980
37	Archaeology	iii	Number of HEIs	20	19	20	20	20
			Total costs	12,418	6,777	23,872	36,290	43,870
			Average	621	357	1,194	1,815	2,193
			1st Quartile	300	181	384	707	976
			Median Value	517	267	1,037	1,710	2,030
			3rd Quartile	879	460	1,797	2,616	3,134
38	Sports science and leisure studies	iii	Number of HEIs	13	12	13	13	13
			Total costs	5,724	5,858	11,126	16,850	23,841
			Average	440	488	856	1,296	1,834
			1st Quartile	126	94	341	610	735
			Median Value	219	157	834	961	1,266
			3rd Quartile	766	743	1,109	1,602	2,581
41	Continuing education	v	Number of HEIs	9	8	8	10	10
			Total costs	3,658	841	3,640	7,299	8,128
			Average	406	105	455	730	813
			1st Quartile	256	10	112	370	428
			Median Value	335	46	242	502	502
			3rd Quartile	474	85	766	674	685
	Total - all cost centres		Number of HEIs	45	45	45	45	45
1			Total costs	1,282,313	1,160,349	5,171,124	6,453,437	7,618,211
			Average	28,496	25,786	114,914	143,410	169,294
1			1st Quartile	13,282	9,741	36,045	49,326	66,548
			Median Value	23,561	19,874	79,131	105,318	121,746
			3rd Quartile	41,969	38,243	148,128	187,110	222,409

Table 2a. Costs per TRAC (£000s)

Subject group for comparative purposes		I-O costs	PGR costs (including scholarships, stipends, maintenance etc)	RG&C costs	RG&C costs	,
only		Sector	Sector	Sector	Sector	Sector
i	Number of observations Total costs	47 183,268	46 180,729	46 1,743,636	46 1,909,139	
	Average	3,899	3,929	37,905	41,503	44,385
	1st Quartile	724	595	2,417	3,148	3,931
	Median Value	2,173	2,413	12,029	15,590	12,821
	3rd Quartile	5,790	5,105	58,573	64,605	
ii	Number of observations	366	361	368	369	371
	Total costs	436,630	645,670	2,474,571	2,833,847	3,556,213
	Average	1,193	1,789	6,724	7,680	9,585
	1st Quartile	359	545	1,559	2,242	2,784
	Median Value	751	1,157	3,561	4,287	5,603
	3rd Quartile	1,485	2,480	8,604	9,785	12,668
iii	Number of observations	167	168	167	170	171
	Total costs	133,888	96,963	289,398	423,404	526,997
	Average	802	577	1,733	2,491	3,082
	1st Quartile	313	190	463	766	1,036
	Median Value	676	453	1,109	1,986	2,493
	3rd Quartile	1,043	745	2,235	3,398	4,263
iv	Number of observations	37	38	37	38	37
	Total costs	98,365	41,139	87,092	202,340	243,174
	Average	2,659	1,083	2,354	5,325	6,572
	1st Quartile	1,171	410	617	1,785	2,350
	Median Value	1,925	855	1,345	3,431	4,579
	3rd Quartile	3,310	1,540	3,087	6,885	9,197
V	Number of observations	166	161	161	167	169
	Total costs	396,931	184,623	353,348	756,993	963,338
	Average	2,391	1,147	2,195	4,533	5,700
	1st Quartile	486	220	335	846	1,175
	Median Value	1,272	739	980	2,535	3,123
	3rd Quartile	3,026	1,430	2,314	5,783	7,148

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

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Table 1b. PGR costs per TRAC (£000s)

(including scholarships, scholarships, stipends, mi group for maintenance as a	scholarships, stipends, aintenance etc percentage of
Subject scholarships, scholarships, stipends, group for scholarships, stipends, maintenance scholarships, stipends, maintenance HESA academic cost centre only Sector	stipends, aintenance etc
HESA academic cost centre only Steams on	aintenance etc
Subject Subject Subject maintenance as a group for maintenance etc etc tc purposes only Sector Sector	
group for comparative purposes maintenance etc) etc tc HESA academic cost centre only Sector Sector	
purposes HESA academic cost centre only Sector Sector	tal PGR costs
HESA academic cost centre only Sector Sector	
	Sector
	13
Total costs 168,725 13,277	7.9%
Average 5,624 1,021	
1st Quartile 2,148 243	8.5%
Median Value 3,872 574	10.1%
3rd Quartile 8,872 1,620	15.8%
2 Total clinical dentistry i Number of HEIs 16 5	5
Total costs 12,005 295	2.5%
Average 750 59	0.001
1st Quartile 275 11 Median Value 581 30	3.0%
	5.2%
3rd Quartile 1,110 122 3 Veterinary science ii Number of HEIs 8 6	7.9%
Total costs 15,040 2,694	17.9%
Average 1,880 449	17.376
1st Quartile 878 147	17.1%
Median Value 1,375 235	20.6%
3rd Quartile 2,805 900	27.9%
4 Anatomy and physiology ii Number of HEIs 13 3	3
Total costs 12,408 552	4.4%
Average 954 184	
1st Quartile 482 163	8.0%
Median Value 694 179	17.5%
3rd Quartile 1,339 209	23.9%
5 Nursing and paramedical studies iii Number of HEIs 19 9	9
Total costs 8,791 306	3.5%
Average 463 34	
1st Quartile 134 2	0.6%
Median Value 263 14	4.6%
3rd Quartile 613 71 6 Health and community studies ii Number of HEIs 21 6	15.1%
6 Health and community studies ii Number of HEIs 21 6 Total costs 6,209 145	2.3%
Average 296 24	2.070
1st Quartile 88 1	0.4%
Median Value 219 4	3.6%
3rd Quartile 360 68	18.8%
7 Psychology and behavioural iii Number of HEIs 35 16	16
sciences Total costs 31,084 1,422	4.6%
Average 888 89	
1st Quartile 380 10	1.2%
Median Value 602 20	6.2%
3rd Quartile 1,179 115	13.5%
8 Pharmacy and pharmacology ii Number of HEIs 15 5	5
Total costs 15,786 716	4.5%
Average 1,052 143 1st Quartile 448 43	8.8%
1st Quartile 448 43 Median Value 781 70	9.3%
3rd Quartile 1,290 120	18.4%
10 Biosciences ii Number of HEIs 38 16	10.478
Total costs 127,052 10,041	7.9%
Average 3,343 628	
1st Quartile 1,547 80	3.4%
Median Value 2,483 175	11.5%
3rd Quartile 4,209 1,029	27.9%
11 Chemistry ii Number of HEIs 29 13	13
Total costs 77,204 5,089	6.6%
Average 2,662 391	
1st Quartile 964 92	11.1%
Median Value 2,496 191	15.2%
3rd Quartile 4,175 427 12 Physics ii Number of HEIs 32 15	27.7%
Total costs 63,234 4,666	7.4%
Average 1,976 311	1.470
1st Quartile 781 62	7.3%
Median Value 1,536 146	17.0%
3rd Quartile 2,791 284	25.0%
13 Agriculture and forestry ii Number of HEIs 3 2	2
Total costs	
Average	
1st Quartile	
Median Value	
3rd Quartile	
14 Earth, marine and environmental ii Number of HEIs 24 11	11
sciences Total costs 35,728 2,528 Average 1,489 230	7.1%
Average 1,489 230 1st Quartile 620 48	3.9%
Median Value 1,107 84	3.9% 11.3%
3rd Quartile 2,403 199	18.2%
16 General engineering ii Number of HEIs 16 8	8
Total costs 42,191 5,118	12.1%
	40.40
	16.4%
Average 2,637 640	16.4% 29.4%

		Subject group for		PGR costs (including scholarships, stipends, maintenance	PGR scholarships, stipends, maintenance	stipends maintenance etc as a percentage o
		comparativ purposes	e	etc)	etc	IOIAI PGR COSIS
	A academic cost centre	only	Newsbarr of UEs	Sector	Sector	Secto
17	Chemical engineering	ii	Number of HEIs Total costs	12 23,783	4 894	3.8%
			Average	1,982	223	
			1st Quartile Median Value	892 1,305	129 184	16.2% 16.3%
			3rd Quartile	3,276	317	19.0%
18	Mineral, metallurgy and	ii	Number of HEIs	11	2	2
	materials engineering		Total costs Average	27,558 2,505	543 272	2.0%
			1st Quartile	780	140	16.8%
			Median Value 3rd Quartile	1,860 3,672	272 403	17.4% 17.9%
19	Civil engineering	ii	Number of HEIs	19	403	7
			Total costs	21,960	1,013	4.6%
			Average 1st Quartile	1,156 372	145 0	0.0%
			Median Value	831	63	16.2%
20	Electrical electronic and	ii	3rd Quartile Number of HEIs	1,498	244	18.9%
20	Electrical, electronic and computer engineering	н	Total costs	25 51,857	4,517	8.7%
			Average	2,074	347	
			1st Quartile Median Value	1,047 1,328	9 164	10.5% 17.0%
			3rd Quartile	2,340	364	23.2%
21	Mechanical, aero and production	ii	Number of HEIs	21	9	ç
	engineering		Total costs Average	41,922 1,996	3,005 334	7.2%
			1st Quartile	760	41	13.7%
			Median Value	1,291	188	17.2%
23	Architecture, built environment	iii	3rd Quartile Number of HEIs	2,720	370	22.1%
	and planning		Total costs	12,912	751	5.8%
			Average 1st Quartile	646 252	94 21	5.5%
			Median Value	531	99	7.8%
			3rd Quartile	916	149	15.9%
24	Mathematics	ii	Number of HEIs Total costs	35 37,421	15 2,618	15 7.0%
			Average	1,069	175	1.07
			1st Quartile	367	36	6.0%
			Median Value 3rd Quartile	884 1,524	102 171	14.9% 25.9%
25	Information technology, systems	ii	Number of HEIs	39	18	18
	sciences & computer software		Total costs	40,838	4,022	9.8%
	engineering		Average 1st Quartile	1,047 326	223 27	8.2%
			Median Value	675	127	17.8%
26	Catering & hospitality	iii	3rd Quartile Number of HEIs	1,264	245	31.0%
20	management	ш	Total costs	2		
			Average			
			1st Quartile Median Value			
			3rd Quartile			
27	Business and management	iv	Number of HEIs	38	15	15
	studies		Total costs Average	41,139 1,083	1,001 67	2.4%
			1st Quartile	410	5	0.9%
			Median Value 3rd Quartile	855 1,540	24 87	3.8% 11.9%
28	Geography	iii	Number of HEIs	29	14	14
			Total costs	18,775	931	5.0%
			Average 1st Quartile	647 381	66 14	3.3%
			Median Value	597	37	5.5%
	0.114.8		3rd Quartile	855	66	
29	Social studies	v	Number of HEIs Total costs	39 75,670	18 3,346	18 4.4%
			Average	1,940	186	
			1st Quartile	848	13	1.6%
			Median Value 3rd Quartile	1,459 2,422	75 219	
30	Media studies	v	Number of HEIs	17	4	4
			Total costs Average	2,586 152	58 14	2.2%
			1st Quartile	102	6	5.8%
			Median Value	113	15	
31	Humanities	v	3rd Quartile Number of HEIs	180 37	23	15.9%
51			Total costs	59,511	1,691	2.8%
			Average	1,608	113	
			1st Quartile Median Value	854 1,193	3 18	0.6%
			3rd Quartile	1,878	123	9.6%
33	Design and creative arts	iii	Number of HEIs	32	9	1 70
			Total costs Average	12,235 382	209 23	1.7%
			1st Quartile	163	0	0.1%
			Median Value	279	9 21	
34	Education	v	3rd Quartile Number of HEIs	443	21	6.4%
			Total costs	33,106	202	0.6%
			Average	1,035	29	
			1st Quartile Median Value	382 699	0 22	0.0% 1.7%
			3rd Quartile	1,009	59	10.0%

		Subject		PGR costs (including scholarships, stipends,	scholarships, stipends,	PGR scholarships, stipends, maintenance etc
		group for comparative purposes	9	maintenance etc)	maintenance etc	as a percentage of total PGR costs
HES	A academic cost centre	only		Sector	Sector	Sector
35	Modern languages	V	Number of HEIs	28	9	9
			Total costs	12.908	297	2.3%
			Average	461	33	
			1st Quartile	91	0	0.1%
			Median Value	386	3	2.9%
			3rd Quartile	731	29	13.3%
37	Archaeology	iii	Number of HEIs	19	8	8
			Total costs	6,777	118	1.7%
			Average	357	15	
			1st Quartile	181	1	0.5%
			Median Value	267	11	3.5%
			3rd Quartile	460	23	9.1%
38	Sports science and leisure	iii	Number of HEIs	12	4	4
	studies		Total costs	5,858	346	5.9%
			Average	488	86	
			1st Quartile	94	3	1.9%
			Median Value	157	14	12.0%
			3rd Quartile	743	169	21.5%
41	Continuing education	v	Number of HEIs	8	1	1
			Total costs	841	0	0.0%
			Average	105	0	
			1st Quartile	10	0	0.0%
			Median Value	46	0	0.0%
			3rd Quartile	85	0	0.0%
	Total - all cost centres		Number of HEIs	45	21	21
			Total costs	1,160,349	74,462	6.4%
			Average	25,786	3,546	
1			1st Quartile	9,741	583	7.2%
			Median Value	19,874	1,559	12.5%
			3rd Quartile	38,243	4,416	19.8%

Table 2b. PGR costs per TRAC (£000s)

		505 /		
		PGR costs	PGR	PGR scholarships
		(including	scholarships,	
		scholarships,	stipends,	
		stipends,		as a percentage of
		maintenance	etc	total PGR cost
Subject group for		etc)	010	
comparative purpose	es			
only		Sector	Sector	Secto
i i	Number of observations	46	18	1
	Total costs	180,729	13,572	7.5
	Average	3,929	754	
	1st Quartile	595	30	3.04
	Median Value	2,413	258	9.09
	3rd Quartile	5,105	1,565	13.69
ii	Number of observations	361	153	15
	Total costs	645,670	48,309	7.5
	Average	1,789	316	
	1st Quartile	545	43	7.6
	Median Value	1,157	141	16.3
	3rd Quartile	2,480	361	23.9
iii	Number of observations	168	68	6
	Total costs	96,963	4,081	4.2
	Average	577	60	
	1st Quartile	190	7	1.2
	Median Value	453	18	5.2
	3rd Quartile	745	80	13.5
iv	Number of observations	38	15	1
	Total costs	41,139	1,001	2.4
	Average	1,083	67	
	1st Quartile	410	5	0.9
	Median Value	855	24	3.89
	3rd Quartile	1,540	87	11.99
v	Number of observations	161	54	5
	Total costs	184,623	5,594	3.04
	Average	1,147	104	
	1st Quartile	220	3	0.6
	Median Value	739	23	3.89
	3rd Quartile	1,430	102	11.5%

Review of research cost relativities 2009-10: summary

Number of HEIs who 46 participated in the study

	Key of Acron	yms		
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

r				1			
							Total
		Subject		I-0	PGR student	RG&C	academic
		group for		academic staff FTEs	FTEs	academic staff FTEs	staff FTEs (I
		comparative		Stall FIES		SIGILLES	O and RG&C)
		purposes					Roac)
HESA	A academic cost centre	only		Sector	Sector	Sector	Sector
1	Total clinical medicine	I	Number of HEIs Total FTEs	30	30	30 1,648.2	30
			Average	465.7 15.5	6,484.9 216.2	54.9	2,098.7 70.0
			1st Quartile	6.7	93.0	17.8	23.8
			Median Value	11.2	167.3	51.1	64.3
			3rd Quartile	19.1	312.5	73.0	102.5
2	Total clinical dentistry	i	Number of HEIs	17	16	16	16
			Total FTEs	61.9	327.5	73.0	131.5
			Average	3.6 0.8	20.5	4.6 2.7	8.2 5.6
			1st Quartile Median Value	2.7	11.0 21.4	4.4	6.9
			3rd Quartile	4.8	28.7	5.3	10.6
3	Veterinary science	ii	Number of HEIs	8	8	8	8
			Total FTEs	56.6	451.4	108.4	164.9
			Average	7.1	56.4	13.5	20.6
			1st Quartile	2.9	33.8	7.8	10.9
			Median Value	3.9	47.9	11.9	15.5
4	Anatomy and physiology	ii	3rd Quartile Number of HEIs	5.7	78.1	19.0 15	24.7 15
4	Anatomy and physiology	п	Total FTEs	36.5	510.3	89.7	126.1
			Average	2.4	39.3	6.0	8.4
			1st Quartile	1.3	17.6	2.1	3.4
			Median Value	1.9	35.5	4.7	6.0
			3rd Quartile	3.0	52.8	10.5	14.2
5	Nursing and paramedical studies	iii	Number of HEIs	20	19	19	20
			Total FTEs	50.7 2.5	405.4 21.3	87.6 4.6	138.4 6.9
			Average 1st Quartile	2.5	8.8	4.0	2.3
			Median Value	1.5	17.9	4.0	6.0
			3rd Quartile	3.2	27.9	5.4	10.3
6	Health and community studies	ii	Number of HEIs	21	21	22	22
			Total FTEs	44.8	404.9	73.0	118.0
			Average	2.1	19.3	3.3	5.4
			1st Quartile	0.9	7.1 16.5	1.1 2.6	2.7 4.6
			Median Value 3rd Quartile	1.5 2.7	28.8	2.0	4.6
7	Psychology and behavioural	iii	Number of HEIs	34	35	34	34
	sciences		Total FTEs	160.5	1,797.2	208.5	363.2
			Average	4.7	51.3	6.1	10.7
			1st Quartile	3.1	23.0	2.9	6.4
			Median Value	4.3	33.5	5.4	10.1
8	Pharmacy and pharmacology	ii	3rd Quartile Number of HEIs	6.1 15	64.7 15	8.0 15	14.2 15
0	Tharmacy and pharmacology	п	Total FTEs	27.9	637.7	82.3	110.2
			Average	1.9	42.5	5.5	7.3
			1st Quartile	0.9	14.9	2.5	3.2
			Median Value	1.3	30.9	5.2	6.6
			3rd Quartile	2.2	73.6	7.5	9.0
10	Biosciences	ii	Number of HEIs Total FTEs	38 228.0	38 5,235.4	38 719.6	38 922.4
			Average	228.0	137.8	18.9	24.3
			1st Quartile	2.5	73.8	6.3	9.5
			Median Value	4.0	110.5	15.7	21.9
			3rd Quartile	8.6	160.5	27.4	34.2
11	Chemistry	ii	Number of HEIs	30	29	30	30
			Total FTEs	82.2	3,201.2	269.0	351.2
			Average 1st Quartile	2.7 1.7	110.4 59.7	9.0 4.1	11.7 6.6
			Median Value	2.4	102.5	8.4	11.1
			3rd Quartile	3.6	140.3	12.1	15.1
12	Physics	ii	Number of HEIs	32	32	33	32
			Total FTEs	127.2	2,700.2	402.1	516.7
			Average	4.0	84.4	12.2	16.1
			1st Quartile Median Value	1.1 2.9	40.3 59.6	5.8 7.7	8.5 11.5
			3rd Quartile	2.9	96.9	16.3	11.5
13	Agriculture and forestry	ii	Number of HEIs	3	3	3	3
	-		Total FTEs				
			Average				
			1st Quartile Median Value				
			Median Value 3rd Quartile				
14	Earth, marine and environmental	ii	Number of HEIs	24	24	24	24
14	sciences		Total FTEs	84.9	1,494.3	216.1	301.1
14			Average	3.5	62.3	9.0	12.5
14			1 at Quartile	1.5	29.2	4.0	5.5
14			1st Quartile			-	
14			Median Value	3.0	52.7	6.5	
	Constal engineering		Median Value 3rd Quartile	3.0 4.6	52.7 85.9	11.4	16.1
	General engineering	ii	Median Value 3rd Quartile Number of HEIs	3.0 4.6 17	52.7 85.9 16	11.4 16	16.1 17
	General engineering	li	Median Value 3rd Quartile	3.0 4.6	52.7 85.9	11.4	16.1 17 256.0
	General engineering	ll	Median Value 3rd Quartile Number of HEIs Total FTEs Average 1st Quartile	3.0 4.6 17 75.7 4.5 0.7	52.7 85.9 16 1,865.2 116.6 29.9	11.4 16 180.3 11.3 3.3	16.1 17 256.0 15.1 4.8
	General engineering	ii	Median Value 3rd Quartile Number of HEIs Total FTEs Average	3.0 4.6 17 75.7 4.5	52.7 85.9 16 1,865.2 116.6	11.4 16 180.3 11.3	9.8 16.1 17 256.0 15.1 4.8 8.9 16.4

							Total
		Subject		I-O academic	PGR student	RG&C academic	academic
		group for		staff FTEs	FTEs	staff FTEs	O and
		comparative purposes					RG&C)
	A academic cost centre Chemical engineering	only ii	Number of HEIs	Sector 11	Sector 12	Sector 12	Sector 12
			Total FTEs	15.8	907.9	63.5	79.4
			Average 1st Quartile	1.4 0.6	75.7 36.3	5.3 3.0	6.6 4.2
			Median Value 3rd Quartile	1.0 1.9	72.8 110.0	4.4 7.1	5.8 8.2
18	Mineral, metallurgy and materials	ii	Number of HEIs	1.9	11	11	0.2
	engineering		Total FTEs Average	21.8 2.2	967.7 88.0	81.2 7.4	103.8 9.4
			1st Quartile	0.9	54.2	3.6	5.0
			Median Value 3rd Quartile	2.0 3.2	99.8 105.0	7.3 9.4	8.4 11.1
19	Civil engineering	ii	Number of HEIs	20	19	19	20
			Total FTEs Average	37.8 1.9	977.3 51.4	84.9 4.5	122.7 6.1
			1st Quartile	0.9	18.5	2.3	3.6
			Median Value 3rd Quartile	1.5 2.2	43.4 62.0	3.7 6.8	5.0 8.7
20	Electrical, electronic and computer engineering	li	Number of HEIs Total FTEs	27 84.1	25 2,119.0	27 226.2	27 310.4
	engineering		Average	3.1	84.8	8.4	11.5
			1st Quartile Median Value	1.1 2.2	50.0 68.1	3.6 6.8	6.8 10.2
			3rd Quartile	3.6	102.3	11.6	14.8
21	Mechanical, aero and production engineering	li	Number of HEIs Total FTEs	21 66.4	21 1,704.9	20 167.3	20 231.4
	5		Average	3.2	81.2	8.4	11.6
			1st Quartile Median Value	1.4 2.3	46.7 60.9	4.3 6.3	6.0 8.4
	A 112 7 1 10 1 1 1		3rd Quartile	3.4	95.5	9.2	12.5
23	Architecture, built environment and planning	iii	Number of HEIs Total FTEs	20 112.1	20 960.2	20 127.2	21 239.3
			Average 1st Quartile	5.6 2.2	48.0 17.5	6.4 3.0	11.4 5.5
			Median Value	3.6	29.0	6.7	10.4
24	Mathematics	11	3rd Quartile Number of HEIs	6.8	53.4 35	8.8 37	15.1 36
24	Wallemalos		Total FTEs	380.3	1,850.8	253.1	632.3
			Average 1st Quartile	10.9 5.5	52.9 26.5	6.8 3.2	17.6 8.8
			Median Value	8.5	39.7	5.8	14.2
25	Information technology, systems	ii	3rd Quartile Number of HEIs	13.7	66.6 39	7.9	22.0 39
	sciences & computer software		Total FTEs	173.0	1,998.3	232.8	405.8
	engineering		Average 1st Quartile	4.4 2.1	51.2 25.9	6.1 3.3	10.4 5.9
			Median Value	3.3 6.4	38.1 63.4	4.5 7.9	8.9
26	Catering & hospitality management	iii	3rd Quartile Number of HEIs	2	2	7.9	12.9 2
			Total FTEs Average				
			1st Quartile				
			Median Value 3rd Quartile				
27	Business and management studies	iv	Number of HEIs	37	38	37	38
			Total FTEs Average	528.1 14.3	2,367.9 62.3	295.9 8.0	850.5 22.4
			1st Quartile Median Value	8.2	31.5 54.0	3.1	10.1
			3rd Quartile	10.7 17.8	90.4	5.8 9.8	18.2 27.3
28	Geography	iii	Number of HEIs Total FTEs	27 120.5	29 1,039.7	29 155.9	29 278.1
			Average	4.5	35.9	5.4	9.6
			1st Quartile Median Value	2.6 3.9	21.5 29.5	3.7 5.2	7.8 8.9
	0		3rd Quartile	5.6	47.8	6.4	13.6
29	Social studies	v	Number of HEIs Total FTEs	39 1,059.0	39 5,842.3	38 556.7	39 1,597.0
			Average 1st Quartile	27.2	149.8	14.7	40.9
			Median Value	13.4 20.6	56.0 118.2	5.5 10.9	18.0 30.0
30	Media studies	v	3rd Quartile Number of HEIs	37.3	190.7 17	17.3 18	50.9 19
30	ivieula studies	v	Total FTEs	54.6	269.3	30.5	86.3
			Average 1st Quartile	3.0 1.4	15.8 7.9	1.7 0.8	4.5 2.1
			Median Value	2.5	16.8	0.9	3.2
				4.4	24.1	1.8	7.0
31	Humanities	v	3rd Quartile Number of HEIs	38	37	37	
31	Humanities	v	Number of HEIs Total FTEs	38 985.1	37 6,011.6	335.2	1,326.4
31	Humanities	v	Number of HEIs	38	37		1,326.4 34.9
31	Humanities	v	Number of HEls Total FTEs Average 1st Quartile Median Value	38 985.1 25.9 12.4 22.6	37 6,011.6 162.5 59.5 122.6	335.2 9.1 2.8 9.4	1,326.4 34.9 17.9 31.4
31		v	Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	38 985.1 25.9 12.4 22.6 33.0 31	37 6,011.6 162.5 59.5 122.6 173.9 32	335.2 9.1 2.8 9.4 <u>13.7</u> 30	1,326.4 34.9 17.9 31.4 47.0 31
			Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs	38 985.1 25.9 12.4 22.6 33.0 31 165.1	37 6,011.6 162.5 59.5 122.6 173.9 32 1,019.9	335.2 9.1 2.8 9.4 <u>13.7</u> 30 63.1	1,326.4 34.9 17.9 31.4 47.0 31 228.3
			Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs Average 1st Quartile	38 985.1 25.9 12.4 22.6 33.0 31 165.1 5.3 3.4	37 6,011.6 162.5 59.5 122.6 173.9 32 1,019.9 31.9 15.7	335.2 9.1 2.8 9.4 13.7 30 63.1 2.1 0.6	1,326.4 34.9 17.9 31.4 47.0 31 228.3 7.4 3.9
			Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs Average 1st Quartile Median Value	38 985.1 25.9 12.4 22.6 33.0 31 165.1 5.3 3.4 4.3	37 6,011.6 162.5 59.5 122.6 173.9 32 1,019.9 31.9 15.7 25.3	335.2 9.1 2.8 9.4 13.7 30 63.1 2.1 0.6 1.3	1,326.4 34.9 17.9 31.4 47.0 31 228.3 7.4 3.9 5.8
			Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	38 985.1 25.9 12.4 22.6 33.0 31 165.1 5.3 3.4 4.3 6.3 6.3 32	37 6,011.6 162.5 59.5 122.6 173.9 32 1,019.9 31.9 15.7 25.3 41.9 32	335.2 9.1 2.8 9.4 13.7 30 63.1 2.1 0.6 1.3 3.2 32	1,326.4 34.9 17.9 31.4 47.0 31 228.3 7.4 3.9 5.8 8.4 32
33	Design and creative arts	iii	Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs	38 985.1 25.9 12.4 22.6 33.0 31 165.1 5.3 3.4 4.3 6.3	37 6,011.6 162.5 122.6 173.9 32 1,019.9 31.9 15.7 25.3 41.9	335.2 9.1 2.8 9.4 13.7 30 63.1 2.1 0.6 1.3 3.2	1,326.4 34.9 17.9 31.4 47.0 311 228.3 7.4 3.9 5.8 8.4
33	Design and creative arts	iii	Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Total FTEs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	38 985.1 25.9 12.4 22.6 33.0 31 165.1 5.3 3.4 4.3 6.3 32 184.6	37 6,011.6 162.5 59.5 122.6 173.9 32 1,019.9 31.9 15.7 25.3 41.9 32 2,821.7	335.2 9.1 2.8 9.4 13.7 30 63.1 2.1 0.6 1.3 3.2 32 168.5	1,326.4 34.9 17.9 31.4 47.0 31 228.3 7.4 3.9 5.8 8.4 32 349.8

-							
							Total
				I-0		RG&C	academic
		Subject		academic	PGR student FTEs	academic	staff FTEs (I
		group for		staff FTEs	FIES	staff FTEs	O and
		comparative					RG&C)
		purposes					,
HES	A academic cost centre	only		Sector	Sector	Sector	Sector
35	Modern languages	v	Number of HEIs	30	28	28	29
			Total FTEs	313.0	999.7	84.3	
			Average	10.4	35.7	3.0	13.6
			1st Quartile	3.9	6.8	0.9	
			Median Value	8.8	21.9	1.7	11.2
			3rd Quartile	11.8	40.8	4.4	15.9
37	Archaeology	iii	Number of HEIs	20	19	20	20
			Total FTEs	69.0		45.4	114.4
			Average	3.5	30.3	2.3	5.7
			1st Quartile	1.5	16.6	1.3	3.2
			Median Value	3.6	23.9	1.8	5.5
			3rd Quartile	5.3	39.0	3.2	7.7
38	Sports science and leisure studies	iii	Number of HEIs	13	12	13	13
			Total FTEs	27.5	261.6	36.1	63.6
			Average	2.1	21.8	2.8	4.9
			1st Quartile	0.5	5.3	0.7	1.6
			Median Value	0.9	10.1	2.2	3.9
			3rd Quartile	3.4	39.7	4.5	5.7
41	Continuing education	v	Number of HEIs	9	8	8	10
			Total FTEs	19.1	91.0	13.1	32.2
			Average	2.1	11.4	1.6	3.2
			1st Quartile	1.0	1.3	0.4	0.6
			Median Value	1.7	7.0	0.6	2.1
			3rd Quartile	3.4	12.2	3.3	5.9
	Total - all cost centres		Number of HEIs	45	45	45	45
			Total FTEs	5,979.5	58,751.0	7,258.3	13,237.9
			Average	132.9	1,305.6	161.3	294.2
1			1st Quartile	63.6	591.1	71.2	135.5
			Median Value	129.1	1,052.4	123.8	269.8
			3rd Quartile	175.9	1,592.0	243.0	407.0

Table 4. FTEs per TRAC

		I-O academic staff FTEs	PGR student FTEs	RG&C academic staff FTEs	Total academic staff FTEs (I O and RG&C)
only		Sector	Sector	Sector	Sector
i	Number of observations	47	46	46	46
	Total FTEs	527.5	6,812.4	1,721.2	2,230.2
	Average	11.2	148.1	37.4	48.5
	1st Quartile	2.6	24.0	4.4	6.9
	Median Value	7.4	91.2	16.7	23.4
	3rd Quartile	13.2	243.4	57.9	75.3
ii	Number of observations	366	361	368	369
	Total FTEs	1,546.2	27,183.7	3,285.7	4,791.7
	Average	4.2	75.3	8.9	13.0
	1st Quartile	1.3	28.1	3.3	5.3
	Median Value	2.8	53.3	6.2	9.5
	3rd Quartile	5.1	99.8	11.1	16.0
	Number of observations	167	168	167	170
	Total FTEs	707.5	6,077.1	728.3	1,431.6
	Average	4.2	36.2	4.4	8.4
	1st Quartile	1.8	16.3	1.5	4.2
	Median Value	3.7	26.7	3.4	7.2
	3rd Quartile	5.7	45.8	6.0	11.7
iv	Number of observations	37	38	37	38
	Total FTEs	528.1	2,367.9	295.9	850.5
	Average	14.3	62.3	8.0	22.4
	1st Quartile	8.2	31.5	3.1	10.1
	Median Value	10.7	54.0	5.8	18.2
	3rd Quartile	17.8	90.4	9.8	27.3
v	Number of observations	166	161	161	167
	Total FTEs	2,615.4	16,035.7	1,188.3	3,785.2
	Average	15.8	99.6	7.4	22.7
	1st Quartile	3.2	19.8	1.5	5.5
	Median Value	8.8	58.0	4.3	12.6
	3rd Quartile	22.0	132.9	10.0	31.3

Number of HEIs who participated in 46 the study

Key	of Acron	yms
I-O		Institution-own funded Research
PGF	र	Postgraduate Research
RG8	\$C	Externally Funded Research Grants and Contracts
HEIS	5	Higher Education Institutions

Table 5. Research cost per FTE (£s)

Note: RG&C is calculated using the net RG&C costs (i.e. without scholarships etc)

Note: RG&C is calculated using the net R	,						
						I-O and	Tota
			I-O cost per	PGR cost	RG&C cost	RG&C cost	researc
	Subject		academic	per student	per academic	per	costs pe
	group for		staff FTE	FTE	staff FTE	academic	academi
	comparative					staff FTE	staff FTI
1500 1 1 1 1 1	purposes			.		a (
HESA academic cost centre	only		Sector	Sector	Sector	Sector	Secto
1 Total clinical medicine	i	Number of HEIs	30	30	30	30	30
		Average	362,236	26,018	1,035,525	887,026	963,72
		1st Quartile	265,314	16,008	631,569	590,636	673,73
		Median Value	360,636	25,347	882,118	773,015	833,74
-		3rd Quartile	535,455	35,919	1,329,872	1,141,142	1,216,62
2 Total clinical dentistry	i	Number of HEIs	17	16	16	16	1
		Average	235,830	36,650	505,456	361,319	470,78
		1st Quartile	224,564	20,063	392,683	291,321	411,59
		Median Value	271,033	24,077	508,368	375,371	493,17
		3rd Quartile	301,761	47,325	616,537	461,755	605,49
3 Veterinary science	ii	Number of HEIs	8	8	8	8	
		Average	276,238	33,322	735,577	577,980	669,160
		1st Quartile	229,745	23,272	476,091	371,567	458,114
		Median Value	328,526	29,444	558,219	511,223	582,48
		3rd Quartile	393,383	42,007	1,048,169	812,035	914,47
4 Anatomy and physiology	ii	Number of HEIs	15	13	15	15	1:
		Average	330,587	24,314	1,023,447	823,060	924,34
		1st Quartile	215,099	16,526	408,779	422,295	531,01
		Median Value	298,643	19,644	809,841	712,154	826,56
		3rd Quartile	470,731	32,694	1,307,558	1,009,231	1,104,37
5 Nursing and paramedical studies	iii	Number of HEIs	20	19	19	20	2
		Average	200,970	21,686	417,293	337,973	399,61
		1st Quartile	139,342	9,114	316,980	211,276	242,89
		Median Value	214,286	20,657	373,033	324,757	398,46
		3rd Quartile	287,040	31,745	538,457	427,699	540,972
6 Health and community studies	ii	Number of HEIs	207,040	21	22	427,099	2
		Average				391,665	
		1st Quartile	199,822	15,334	508,716		446,16
		Median Value	129,992	10,915	245,668	195,827	231,06
		3rd Quartile	172,619	15,436	393,857	346,831	402,16
7 Psychology and behavioural	iii		270,020	21,848	629,055	526,576	538,96
7 Psychology and behavioural sciences		Number of HEIs	34	35	34	34	3
		Average	196,880	17,296	442,108	336,639	432,62
		1st Quartile	134,286	13,491	260,737	196,092	259,38
		Median Value	197,613	18,725	344,302	289,634	368,43
		3rd Quartile	250,000	23,907	491,677	366,968	482,94
8 Pharmacy and pharmacology	li	Number of HEIs	15	15	15	15	1
		Average	360,763	24,755	801,329	689,891	833,18
		1st Quartile	151,000	20,752	653,447	576,217	727,37
		Median Value	411,557	27,099	814,286	713,966	808,28
		3rd Quartile	451,173	36,414	1,059,239	821,037	967,67
10 Biosciences	ii	Number of HEIs	38	38	38	38	3
		Average	366,485	24,268	1,020,535	824,881	1,000,05
		1st Quartile	233,074	17,037	577,760	498,835	606,70
		Median Value	363,135	22,995	920,806	687,290	807,05
		3rd Quartile	525,511	32,606	1,341,295	972,868	1,195,52
11 Chemistry	ii	Number of HEIs	30	29	30	30	3
		Average	445,708	24,117	832,728	742,100	961,91
		1st Quartile	229,252	16,235	561,587	528,772	652,62
		Median Value	388,974	22,072	733,635	634,912	923,17
		3rd Quartile	651,579	31,842	1,013,029	859,870	1,085,71
12 Physics	ii	Number of HEIs	32	32	33	32	3
		Average	306,646	23,418	778,171	642,482	759,84
		1st Quartile	187,100	17,648	517,144	408,906	536,81
		Median Value	270,818	23,815	608,719	408,900 577,050	661,58
		3rd Quartile	450,996	23,615	819,265	659,592	834,48
13 Agriculture and forestry	ii	Number of HEIs	450,996	31,604	819,265	659,592	034,48
		Average	3	3	3	3	
		1st Quartile					
		Median Value 3rd Quartile					
14 Earth marino and an income -4-1							
14 Earth, marine and environmental sciences	ii	Number of HEIs	24	24	24	24	2
301011003		Average	300,859	23,910	642,903	546,394	665,06
		1st Quartile	200,851	14,140	426,087	370,704	452,61
		Median Value	271,305	22,630	604,470	510,753	641,54
		3rd Quartile	366,262	30,055	905,530	733,243	917,54
16 General engineering	ii	Number of HEIs	17	16	16	17	1
		Average	372,271	22,620	767,595	650,661	815,45
		1st Quartile	226,389	18,054	582,222	372,345	489,15
		Median Value	005.040	19,823	671,529	E20 E02	662,13
		Wediain value	295,246	13,023	071,529	520,503	002,10

					DCD anat	RG&C cost	I-O and	Total research
		Subject		I-O cost per academic	PGR cost per student	per academic	RG&C cost 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	li	Number of HEIs Average	11	12	12	12	1020 245
			1st Quartile	383,161 194,971	26,195 19,898	812,634 537,274	729,945 521,565	1,029,345 768,480
			Median Value	396,425	24,420	712,354	652,577	981,704
18	Mineral, metallurgy and materials		3rd Quartile	466,720	30,590	1,080,966	900,294	1,240,624
10	engineering	"	Number of HEIs Average	10 413,604	11 28,478	11 950,579	11 847,685	11 1,113,180
			1st Quartile	342,670	15,827	697,001	696,250	887,118
			Median Value 3rd Quartile	467,843 578,915	22,892 35,828	1,053,034 1,170,028	914,343 976,185	1,069,721 1,444,527
19	Civil engineering	li	Number of HEIs	20	35,626	1,170,028	976,185	1,444,527
			Average	307,000	22,470	642,271	539,077	716,665
			1st Quartile Median Value	168,155	14,279	407,414	378,982	501,212
			3rd Quartile	273,425 388,318	20,819 26,930	590,026 848,674	484,139 618,381	663,417 803,339
20	Electrical, electronic and computer	ii	Number of HEIs	27	25	27	27	27
	engineering		Average 1st Quartile	301,473 174,873	24,472 16,844	625,831 382,988	537,903 351,180	704,983 501,297
			Median Value	269,854	20,952	302,900 607,895	497,638	614,038
			3rd Quartile	398,717	28,573	763,396	619,319	804,634
21	Mechanical, aero and production engineering	ii	Number of HEIs Average	21 339,289	21 24,588	20 639,892	20 551,791	21 764,950
	-		1st Quartile	339,289 238,938	24,588 16,409	639,892 505,566	551,791 430,364	764,950 581,605
			Median Value	337,795	21,298	671,694	535,173	708,557
23	Architecture, built environment and		3rd Quartile	514,851	27,762	811,925	693,959	873,809
25	planning		Number of HEIs Average	20 193,437	20 13,446	20 356,860	21 280,298	21 334,705
			1st Quartile	148,818	11,118	217,178	190,220	239,384
			Median Value 3rd Quartile	180,531	13,989 18,425	282,114	233,524	317,299
24	Mathematics	11	Number of HEIs	221,209	18,425	401,656 37	307,064 36	367,986
			Average	158,465	20,218	334,951	228,352	289,917
			1st Quartile Median Value	118,171 155,019	13,849 19,034	216,870	160,428	215,588
			3rd Quartile	224,286	19,034 24,791	293,448 429,586	203,088 286,799	287,410 361,960
25	Information technology, systems	ll	Number of HEIs	39	39	38	39	39
	sciences & computer software engineering		Average 1st Quartile	234,465	20,437	519,560	398,007	498,652
			Median Value	140,056 211,791	13,156 17,846	322,302 438,676	268,059 346,194	307,793 414,289
			3rd Quartile	303,735	22,145	627,523	445,490	523,513
26	Catering & hospitality management	III	Number of HEIs Average	2	2	2	2	2
			1st Quartile					
			Median Value					
27	Business and management studies	iv	3rd Quartile Number of HEIs	37	38	37	38	37
			Average	186,267	17,374	294,310	237,915	287,458
			1st Quartile	137,713	11,932	186,217	159,211	215,143
			Median Value 3rd Quartile	173,882 222,308	16,802 23,866	241,039 333,613	218,836	254,949 305,196
28	Geography	III	Number of HEIs	222,308	23,866	29	252,628 29	28
			Average	203,336	18,058	411,953	322,654	381,653
			1st Quartile Median Value	169,712 200,000	14,108 18,245	261,289 362,551	227,451 287,437	290,400 371,516
L			3rd Quartile	200,000 257,734	22,726	513,161	287,437 381,163	455,901
29	Social studies	v	Number of HEIs	39	39	38	39	40
			Average 1st Quartile	162,450 125,694	12,952 8,699	309,559 197,498	216,713 160,827	268,182 192,570
			Median Value	125,694	6,699 14,300	254,242	194,747	248,412
	Madia akudia-		3rd Quartile	191,311	17,626	416,088	267,035	322,917
30	Media studies	v	Number of HEIs Average	18 150,785	17 9,604	18 167,779	19 160,831	19 191,568
			1st Quartile	150,785	9,604 6,667	167,779	160,831	191,568
			Median Value	143,510	9,298	202,327	164,090	193,351
31	Humanities	v	3rd Quartile Number of HEIs	160,731	13,713 37	306,306 37	234,388 38	266,850 38
			Average	139,214	9,899	268,012	175,169	222,164
			1st Quartile	121,018	7,945	181,218	139,544	175,374
			Median Value 3rd Quartile	136,226 173,161	10,467 13,394	220,717 345,469	166,227 188,562	212,635 247,335
33	Design and creative arts	iii	Number of HEIs	31	13,394	345,469	31	247,335
			Average	166,273	11,997	244,017	190,646	245,829
			1st Quartile Median Value	124,178 174,423	8,487 10,785	162,500 260,092	145,284 181,558	187,212 246,129
			3rd Quartile	205,243	10,785	260,092 388,223	227,783	246,129 304,450
34	Education	v	Number of HEIs	32	32	32	32	32
			Average 1st Quartile	183,084	11,732	377,095	277,883	377,574
			Median Value	137,131 195,522	7,622 10,320	191,411 317,015	174,494 222,540	245,533 329,474
1			3rd Quartile	247,707	15,317	346,156	345,844	489,798

HES	A academic cost centre	Subject group for comparative purposes		I-O cost per academic staff FTE Sector	PGR cost per student FTE Sector	RG&C cost per academic staff FTE Sector	I-O and RG&C cost per academic staff FTE Sector	Total research costs per academic staff FTE Sector
35		only v	Number of HEIs	30	28	28	29	30
55	Modern languages	v	Average					
			1st Quartile	134,424	12,912	224,153		
			Median Value	111,775	9,163	144,647	134,907	157,062
			3rd Quartile	134,914	15,770	189,038	-	179,029
37	Archaeology	iii		155,503	19,818	232,203	161,460	211,782
37	Archaeology		Number of HEIs	20	19	20	20	20
			Average	179,884	11,781	526,257		383,496
			1st Quartile Median Value	135,227	9,451	252,798		232,769
			3rd Quartile	177,665	10,649	380,331	-	
00		iii		238,408	12,901	786,966	383,215	469,424
38	Sports science and leisure studies		Number of HEIs	13	12	13		13
			Average	208,333	22,394	308,127		
			1st Quartile	127,826	9,739	188,784		
			Median Value	204,211	16,939	296,476	279,582	410,926
			3rd Quartile	227,857	23,693	376,938	383,648	472,585
41	Continuing education	v	Number of HEIs	9	8	8	10	10
			Average	191,604	9,243	276,918		252,161
			1st Quartile	113,284	4,973	98,058	113,284	164,157
			Median Value	197,059	9,330	259,677	251,309	293,369
			3rd Quartile	387,452	17,846	781,225	1,072,248	1,072,248
1	Total - all cost centres		Number of HEIs	45	45	45	45	45
1			Average	214,450	19,750	712,439	487,498	575,486
			1st Quartile	161,344	15,542	442,054	314,731	410,359
1			Median Value	212,906	17,678	570,100	402,623	476,084
			3rd Quartile	262,866	24,085	942,855	463,072	581,907

Table 6. Research cost per FTE (£s)

Subject group for comparative purposes		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
only		Sector	Sector	Sector	Sector	Sector
i	Number of HEIs	30	30	30	30	30
	Average	347,411	26,529	1,013,030	856,024	933,950
	1st Quartile	266,157	16,008	621,275	590,636	659,279
	Median Value	350,923	26,340	862,131	725,248	791,776
	3rd Quartile	479,535	34,763	1,283,040	1,078,540	1,150,061
ii	Number of HEIs	42	43	43	42	43
	Average	282,390	23,752	753,137	591,407	736,396
	1st Quartile	201,904	15,868	497,290	413,807	516,894
	Median Value	255,230	21,223	611,885	513,486	668,756
	3rd Quartile	359,292	28,825	975,328	672,517	854,291
iii	Number of HEIs	39	39	39	39	39
	Average	189,250	15,955	397,346	295,757	366,237
	1st Quartile	147,843	12,624	236,690	226,146	274,450
	Median Value	194,112	17,017	360,114	286,181	357,014
	3rd Quartile	230,575	21,462	471,027	329,879	405,296
iv	Number of HEIs	37	38	37	38	37
	Average	186,267	17,374	294,310	237,915	287,458
	1st Quartile	137,713	11,932	186,217	159,211	215,143
	Median Value	173,882	16,802	241,039	218,836	254,949
	3rd Quartile	222,308	23,866	333,613	252,628	305,196
v	Number of HEIs	42	42	42	42	42
	Average	151,770	11,513	297,357	199,988	251,909
	1st Quartile	122,974	9,247	216,583	165,106	209,798
	Median Value	147.976	12,461	266,731	184,007	236.032
	3rd Quartile	184,829	15,250	372,736	217,347	276,471

Review of research cost relativities 2009-10: summary

Number of HEIs who participated in 46 the study

Key of Acro	onyms
1-0	Institution-own funded Research
PGR	Postgraduate Research
RG&C	Externally Funded Research Grants and Contracts
HEIs	Higher Education Institutions

Table 7. Cost relativities

Note: RG&C is calculated using the net RG&C costs (i.e. without scholarships etc)

		Subject group for comparative		I-O cost relativity	PGR cost relativity	RG&C cost relativity	I-O and RG&C cost relativity	Tota research cos relativity
HESA ad	cademic cost centre	purposes only		Sector	Sector	Sector	Sector	Secto
1	Total clinical medicine	i	Number of HEIs	29	28	28	28	28
			Average	2.39	2.26	3.48	4.44	3.83
			1st Quartile	1.97	1.58	2.28	3.18	2.78
			Median Value	2.45	2.12	3.28	3.96	3.36
			3rd Quartile	3.08	2.79	4.26	5.01	4.30
2	Total clinical dentistry	i	Number of HEIs	17	16	16	16	17
			Average	1.55	3.18	1.70	1.81	1.87
			1st Quartile Median Value	1.26	1.49	1.47	1.50	1.62
			3rd Quartile	1.52	1.98 3.01	1.79	1.93 2.21	1.99
3	Veterinary science	ii	Number of HEIs	2.20	3.01	1.95 7	7	2.37
			Average	1.82	2.89	2.47	2.89	2.66
			1st Quartile	1.59	1.80	1.34	2.45	2.54
			Median Value	2.25	2.38	2.38	2.94	3.04
			3rd Quartile	2.67	2.59	3.06	4.18	3.85
4	Anatomy and physiology	ii	Number of HEIs	15	13	15	15	15
			Average	2.18	2.11	3.44	4.12	3.67
			1st Quartile	1.45	1.58	1.30	3.03	2.63
			Median Value	2.25	1.82	2.18	3.40	3.35
			3rd Quartile	3.71	2.35	3.70	4.70	4.37
5	Nursing and paramedical studies	iii	Number of HEIs	20	19	19	20	20
			Average	1.32	1.88	1.40	1.69	1.59
			1st Quartile	0.90	1.20	0.90	1.29	1.21
			Median Value	1.35	1.51	1.53	1.47	1.56
			3rd Quartile	1.95	2.24	2.10	2.30	2.19
6	Health and community studies	ii	Number of HEIs	21	21	22	22	22
			Average	1.32	1.33	1.71	1.96	1.77
			1st Quartile	0.89	0.92	0.80	1.07	1.09
			Median Value	1.30	1.25	1.17	1.62	1.41
7	Psychology and behavioural	111	3rd Quartile	1.84	1.64	2.34	2.38	2.20
1	sciences		Number of HEIs Average	34	35	34	34	35
			1st Quartile	1.30	1.50	1.49	1.68	1.72
			Median Value	1.07	1.14	1.00	1.24	1.19
			3rd Quartile	1.24	1.44	1.37	1.51	1.5
8	Pharmacy and pharmacology	ii	Number of HEIs	1.75 15	1.84 15	1.66 15	1.87 15	2.02
-	· ····································		Average	2.38	2.15	2.69	3.45	3.3
			1st Quartile	1.23	2.13	1.96	3.36	3.15
			Median Value	2.48	2.39	2.73	3.47	3.34
			3rd Quartile	3.07	2.70	3.38	3.93	3.88
10	Biosciences	ii	Number of HEIs	38	37	37	38	38
			Average	2.41	2.11	3.43	4.12	3.97
			1st Quartile	1.66	1.45	2.21	2.73	2.52
			Median Value	2.26	2.11	2.87	3.45	3.5
			3rd Quartile	3.52	2.70	3.84	5.25	4.79
11	Chemistry	ii	Number of HEIs	30	29	30	30	30
			Average	2.94	2.09	2.80	3.71	3.82
			1st Quartile	1.50	1.52	2.02	2.74	2.8
			Median Value	2.45	1.85	2.55	3.57	3.67
			3rd Quartile	3.71	2.24	3.07	4.24	4.40
12	Physics	ii	Number of HEIs	32	32	33	32	33
			Average	2.02	2.03	2.62	3.21	3.02
			1st Quartile	1.38	1.54	1.53	2.30	2.28
			Median Value 3rd Quartile	1.99	1.95	2.31	2.77	2.60
13	Agriculture and forestry	ii	Number of HEIs	2.54	2.40	2.74	3.62	3.5
13	A Gridaliare and IDIESTLY		Number of HEIs Average	3	3	3	3	3
			1st Quartile					
			Median Value					
			3rd Quartile					
14	Earth, marine and environmental	ii	Number of HEIs	24	24	24	24	24
	sciences		Average	24 1.98	24	24 2.16	24	2.64
			1st Quartile	1.98	1.39	1.54	1.93	2.0
			Median Value	1.20	1.39	1.94	2.52	2.5
			3rd Quartile	2.41	2.31	2.94	3.60	3.4
16	General engineering	ii	Number of HEIs	2.41	2.31	2.94	3.00	3.4 1
	5 5		Average	2.45	1.96	2.58	3.25	3.24
			1st Quartile	1.52	1.33	2.00	2.47	2.5
			Median Value	1.86	2.02	2.00	3.01	2.8

		Subject group for comparative purposes	9	I-O cost relativity	PGR cost relativity	RG&C cost relativity	I-O and RG&C cost relativity	Tota research cos relativity
IESA a	cademic cost centre	only		Sector	Sector	Sector	Sector	Secto
17	Chemical engineering	ii	Number of HEIs Average	11	12	12	12	12
			1st Quartile	2.52	2.28	2.73	3.65	4.09
			Median Value	1.40	1.60	1.81	2.66	3.07
			3rd Quartile	1.98	1.93	2.66	3.16	3.68
18	Mineral, metallurgy and	ii		2.62	2.27	3.38 11	4.21	4.53
10	materials engineering		Number of HEIs Average	10 2.73	11 2.47	3.20	11 4.24	11 4.42
			1st Quartile	1.58	1.36	2.33	3.41	3.50
			Median Value	2.84	2.18	2.33	4.49	4.60
			3rd Quartile	3.64	3.71	4.06	5.05	5.27
19	Civil engineering	ii	Number of HEIs	20	19	4.00	20	20
	0 0		Average	2.02	1.95	2.16	2.70	2.84
			1st Quartile	1.00	1.34	1.48	1.71	1.74
			Median Value	1.79	1.60	1.98	2.34	2.52
			3rd Quartile	2.51	1.88	2.44	3.11	3.39
20	Electrical, electronic and	ii	Number of HEIs	27	25	27	27	27
	computer engineering		Average	1.99	2.13	2.10	2.69	2.80
			1st Quartile	1.14	1.39	1.35	1.72	1.96
			Median Value	1.83	1.62	1.94	2.49	2.60
			3rd Quartile	2.37	2.15	2.56	2.95	3.28
21	Mechanical, aero and production	ii	Number of HEIs	21	21	20	20	21
	engineering		Average	2.24	2.14	2.15	2.76	3.04
			1st Quartile	1.49	1.36	1.52	2.07	2.37
			Median Value	1.92	1.76	1.88	2.55	2.90
			3rd Quartile	2.75	2.06	2.54	3.22	3.52
23	Architecture, built environment	iii	Number of HEIs	20	20	20	21	21
	and planning		Average	1.27	1.17	1.20	1.40	1.33
			1st Quartile	0.91	1.02	0.86	0.99	0.99
			Median Value	1.19	1.35	1.03	1.20	1.26
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		3rd Quartile	1.35	1.55	1.38	1.71	1.61
24	Mathematics	ii	Number of HEIs	35	35	37	36	36
			Average	1.04	1.76	1.13	1.14	1.15
			1st Quartile	0.85	1.17	0.84	0.92	0.94
			Median Value	0.97	1.60	1.10	1.12	1.17
05			3rd Quartile	1.24	2.07	1.34	1.39	1.45
25	Information technology, systems sciences & computer software	П	Number of HEIs	39	39	38	39	39
	engineering		Average 1st Quartile	1.54	1.78	1.75	1.99	1.98
	5 5		Median Value	1.11	1.18	1.18	1.42	1.39
			3rd Quartile	1.37	1.45	1.65	1.86	1.8
26	Catering & hospitality	iii	Number of HEIs	1.78	1.79	2.00 2	2.25 2	2.3
	management		Average	2	2	2	2	4
			1st Quartile					
			Median Value					
			3rd Quartile					
27	Business and management	iv	Number of HEIs	36	38	36	37	36
	studies		Average	1.23	1.51	0.99	1.19	1.14
			1st Quartile	0.98	1.07	0.72	0.95	0.93
			Median Value	1.14	1.31	1.07	1.10	1.10
			3rd Quartile	1.31	1.81	1.24	1.27	1.28
28	Geography	iii	Number of HEIs	27	29	29	29	28
			Average	1.34	1.57	1.39	1.61	1.52
			1st Quartile	1.03	1.26	0.92	1.16	1.20
			Median Value 3rd Quartile	1.38	1.38	1.21	1.58	1.44
29	Social studies	v		1.69	1.87	1.62	2.07	1.88
20	Solar Stades		Number of HEIs Average	39	39	38	39	4(
			1st Quartile	1.07 0.97	1.12 0.99	1.04 0.88	1.08 0.98	1.00 0.90
			Median Value	0.97	0.99	0.88	0.98	0.9
			3rd Quartile	1.06	1.08	1.08	1.07	1.0
30	Media studies	v	Number of HEIs	1.12	1.29	1.20	1.17	1.1
			Average	0.99	0.83	0.56	0.80	0.7
			1st Quartile	0.99	0.63	0.56	0.60	0.6
			Median Value	0.83	0.80	0.43	0.03	0.8
				0.37			1.07	1.1
			3rd Quartile	1 09	1 02	0.83		
31	Humanities	v	3rd Quartile Number of HEIs	1.09	1.02 37	0.83 37	38	
31	Humanities	v						3
31	Humanities	v	Number of HEIs	38	37	37	38	3 0.8
31	Humanities	v	Number of HEIs Average 1st Quartile Median Value	38 0.92	37 0.86	37 0.90	38 0.88	3 0.8 0.7
			Number of HEIs Average 1st Quartile	38 0.92 0.87	37 0.86 0.80	37 0.90 0.77	38 0.88 0.77	3 0.8 0.7 0.8
31	Humanities Design and creative arts	v	Number of HEIs Average 1st Quartile Median Value	38 0.92 0.87 0.93	37 0.86 0.80 0.90	37 0.90 0.77 0.91	38 0.88 0.77 0.86	3 0.8 0.7 0.8 1.0
			Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average	38 0.92 0.87 0.93 1.00	37 0.86 0.80 0.90 0.99	37 0.90 0.77 0.91 1.12	38 0.88 0.77 0.86 0.99	3: 0.8: 0.7: 0.8: 1.0: 3:
-			Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile	38 0.92 0.87 0.93 1.00 31	37 0.86 0.80 0.90 0.99 32	37 0.90 0.77 0.91 1.12 30	38 0.88 0.77 0.86 0.99 31	3 0.8 0.7 0.8 1.0 3 0.9
			Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value	38 0.92 0.87 0.93 1.00 31 1.10	37 0.86 0.80 0.90 0.99 32 1.04	37 0.90 0.77 0.91 1.12 30 0.82	38 0.88 0.77 0.86 0.99 31 0.95	3: 0.8: 0.7: 0.8: 1.0: 3: 0.9: 0.8:
33	Design and creative arts	iii	Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile	38 0.92 0.87 0.93 1.00 31 1.10 0.95 1.08 1.28	37 0.86 0.90 0.99 32 1.04 0.73 0.98 1.17	37 0.90 0.77 0.91 1.12 30 0.82 0.62 0.85 1.16	38 0.88 0.77 0.86 0.99 31 0.95 0.78 0.97 1.13	3 0.8 0.7 0.8 1.0 3 0.9 0.8 1.0 1.2
			Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	38 0.92 0.87 0.93 1.00 31 1.10 0.95 1.08 1.28 32	37 0.86 0.80 0.99 32 1.04 0.73 0.98 1.17 32	37 0.90 0.77 0.91 1.12 30 0.82 0.62 0.85 1.16 32	38 0.88 0.77 0.86 0.99 31 0.95 0.78 0.97 1.13 32	34 0.84 0.75 0.84 1.03 33 0.94 0.88 1.00 1.24 33
33	Design and creative arts	iii	Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average	38 0.92 0.87 0.93 1.00 31 1.10 0.95 1.08 1.28 32 1.21	37 0.86 0.80 0.99 32 1.04 0.73 0.98 1.17 32 1.02	37 0.90 0.77 0.91 1.12 30 0.82 0.62 0.85 1.16 32 1.27	38 0.88 0.77 0.86 0.99 31 0.95 0.78 0.97 1.13 32 1.39	33 0.84 0.74 0.84 1.03 33 0.94 0.88 1.00 1.22 33 1.50
33	Design and creative arts	iii	Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs Average 1st Quartile Median Value 3rd Quartile Number of HEIs	38 0.92 0.87 0.93 1.00 31 1.10 0.95 1.08 1.28 32	37 0.86 0.80 0.99 32 1.04 0.73 0.98 1.17 32	37 0.90 0.77 0.91 1.12 30 0.82 0.62 0.85 1.16 32	38 0.88 0.77 0.86 0.99 31 0.95 0.78 0.97 1.13 32	34 0.84 0.75 0.84 1.03 33 0.94 0.88 1.00 1.24 33

		Subject group for comparative purposes	9	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
35	Modern languages	v	Number of HEIs	30	28	28	29	30
			Average	0.89	1.12	0.75	0.76	0.74
			1st Quartile	0.80	1.01	0.58	0.71	0.68
			Median Value	0.91	1.18	0.75	0.84	0.76
			3rd Quartile	1.06	1.67	0.85	0.89	0.91
37	Archaeology	iii	Number of HEIs	20	19	20	20	20
			Average	1.19	1.02	1.77	1.59	1.52
			1st Quartile	1.00	0.72	0.98	1.07	1.04
			Median Value	1.14	1.06	1.26	1.26	1.18
			3rd Quartile	1.57	1.27	1.60	1.81	1.72
38	Sports science and leisure	iii	Number of HEIs	13	12	13	13	13
	studies		Average	1.37	1.95	1.04	1.33	1.49
			1st Quartile	1.03	0.84	0.70	1.35	1.15
			Median Value	1.28	1.44	1.14	1.41	1.46
			3rd Quartile	1.92	2.15	1.35	1.63	1.89
41	Continuing education	v	Number of HEIs	9	8	8	10	10
			Average	1.26	0.80	0.93	1.13	1.00
			1st Quartile	0.97	0.48	0.36	0.65	0.59
			Median Value	1.08	1.03	1.30	1.37	1.31
			3rd Quartile	3.28	1.48	2.26	3.18	2.84
	Total - all cost centres		Number of HEIs	42	42	42	42	42
			Average	1.41	1.72	2.40	2.44	2.28
			1st Quartile	1.13	1.32	1.49	1.62	1.52
			Median Value	1.36	1.47	1.99	2.18	2.07
			3rd Quartile	1.55	1.74	2.62	2.62	2.45

Table 8. Cost relativities

Subject group for comparative purposes		I-O cost relativity	PGR 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	29	28	28	28	28
	Average	2.29	2.30	3.41	4.28	3.71
	1st Quartile	1.97	1.61	2.28	3.12	2.76
	Median Value	2.28	2.12	3.19	3.83	3.34
	3rd Quartile	2.58	2.70	4.05	4.75	4.21
ii	Number of HEIs	41	41	41	41	41
	Average	1.86	2.06	2.53	2.96	2.92
	1st Quartile	1.18	1.41	1.81	2.33	2.35
	Median Value	1.79	1.76	2.33	2.75	2.86
	3rd Quartile	2.36	2.26	2.68	3.41	3.31
iii	Number of HEIs	39	39	39	39	39
	Average	1.25	1.39	1.34	1.48	1.45
	1st Quartile	1.04	1.06	1.05	1.19	1.17
	Median Value	1.30	1.37	1.47	1.54	1.54
	3rd Quartile	1.49	1.73	1.60	1.84	1.78
iv	Number of HEIs	36	38	36	37	36
	Average	1.23	1.51	0.99	1.19	1.14
	1st Quartile	0.98	1.07	0.72	0.95	0.93
	Median Value	1.14	1.31	1.07	1.10	1.10
	3rd Quartile	1.31	1.81	1.24	1.27	1.28
v	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)

				I-O	RG&C	Total
		Subject		research	research	research
		group for comparative		assistants per TRAC	assistants per TRAC	assistants per TRAC
		purposes		per moto	per moto	per moto
HE	SA academic cost centre	only		Sector	Sector	Sector
1	Total clinical medicine	i	Number of HEIs Total research assistants	17	31	31
			Average	459.9 27.1	9,838.3 317.4	10,298.1 332.2
			1st Quartile	6.6	69.5	90.6
			Median Value	13.8	191.2	200.6
2	Total clinical dentistry	i	3rd Quartile Number of HEIs	37.9	369.0 16	372.7 16
-	Total officer defiliery		Total research assistants	17.8	157.3	175.1
			Average	2.0	9.8	10.9
			1st Quartile Median Value	0.4 0.5	6.4 8.5	7.4 8.7
			3rd Quartile	1.0	12.4	12.4
3	Veterinary science	ii	Number of HEIs	5	8	8
			Total research assistants	21.7	383.7	405.4
			Average 1st Quartile	4.3 2.0	48.0 22.3	50.7 24.5
			Median Value	2.4	39.0	45.4
			3rd Quartile	4.4	58.2	59.4
4	Anatomy and physiology	ii	Number of HEIs Total research assistants	5 32.4	13 524.6	13 557.0
1			Average	6.5	40.4	42.8
l I			1st Quartile	3.3	12.3	12.5
			Median Value	5.9	14.7	18.9
5	Nursing and paramedical studies	iii	3rd Quartile Number of HEIs	6.5 11	74.7 18	74.7 18
Ŭ	raiong and paramoulou oudloo		Total research assistants	32.2	147.0	179.1
1			Average	2.9	8.2	10.0
			1st Quartile Median Value	0.3 2.2	1.3 3.4	2.4 4.5
			3rd Quartile	3.4	11.4	15.5
6	Health and community studies	ii	Number of HEIs	10	20	20
			Total research assistants Average	23.6 2.4	150.6 7.5	174.2 8.7
			1st Quartile	2.4	1.7	1.9
			Median Value	1.2	3.0	3.8
7	Developing and high an issued		3rd Quartile	3.6	6.0	9.8
7	Psychology and behavioural sciences	iii	Number of HEIs Total research assistants	17 54.0	33 554.3	33 608.3
			Average	3.2	16.8	18.4
			1st Quartile	1.3	3.8	6.7
			Median Value 3rd Quartile	2.6 4.2	8.8 22.0	9.8 24.4
8	Pharmacy and pharmacology	ii	Number of HEIs	4.2	14	14
			Total research assistants	26.0	334.4	360.4
			Average 1st Quartile	4.3 1.8	23.9 6.7	25.7 8.4
			Median Value	3.8	18.5	19.9
			3rd Quartile	5.0	33.0	42.3
10	Biosciences	ii	Number of HEIs	22	37	37
			Total research assistants Average	224.2 10.2	4,343.0 117.4	4,567.2 123.4
			1st Quartile	3.6	29.0	29.0
1			Median Value	7.6	77.5	87.4
11	Chemistry	ii	3rd Quartile Number of HEIs	17.2 15	141.4 29	160.1 29
	Ghonnou y		Total research assistants	73.9	29 1,240.5	29 1,314.4
1			Average	4.9	42.8	45.3
			1st Quartile	2.3	12.1	14.6
1			Median Value 3rd Quartile	3.2 5.1	34.5 60.8	36.8 63.4
12	Physics	ii	Number of HEIs	15	32	32
1			Total research assistants	59.9	1,767.4	1,827.3
l I			Average 1st Quartile	4.0 1.1	55.2 14.9	57.1 18.3
1			Median Value	2.0	39.8	42.9
			3rd Quartile	7.2	68.2	68.8
13	Agriculture and forestry	ii	Number of HEIs Total research assistants	3	3	3
l I			Total research assistants Average			
			1st Quartile			
			Median Value			
14	Earth, marine and environmental	ii	3rd Quartile Number of HEIs	11	24	24
14	sciences		Total research assistants	50.4	24 691.7	24 742.1
1			Average	4.6	28.8	30.9
1			1st Quartile	2.0	7.0	8.0
			Median Value 3rd Quartile	2.5 6.5	21.9 51.3	25.1 52.4
					17	17
16	General engineering	ii	Number of HEIs	11	17	
16	General engineering	ii	Total research assistants	68.9	849.6	918.5
16	General engineering	ii	Total research assistants Average	68.9 6.3	849.6 50.0	918.5 54.0
16	General engineering	ii	Total research assistants	68.9	849.6	918.5

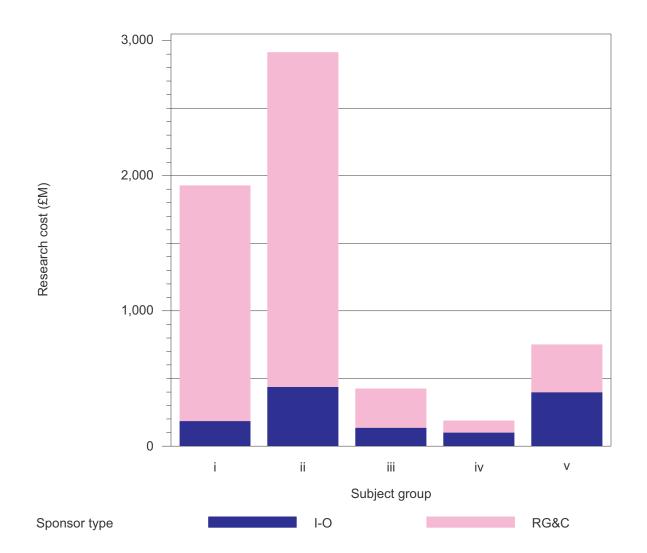
Subject comparative comparative methods research per TRA per T							1
group for upposes assistant purposes assistan							Total
Comparative model per TRAC per TRAC per TRAC per TRAC per TRAC per TRAC Sector Sector HESA accadencic cost centre only Number of HEIs 20 27.6 38.42 28.43 28.44							assistants
HESA academic cost centre only Unber of HES 6 92 72 17 Chemical engineering ii Number of HES 5 12 228 18 Mineral, metallurgy and ii Number of HEIS 5 11 11 18 Mineral, metallurgy and ii Number of HEIS 5 11 11 19 Civil engineering ii Number of HEIS 6 11 11 10 Civil engineering ii Number of HEIS 6 12 227 10 Civil engineering ii Number of HEIS 16 165 2712 227 20 Edectical, electronic and ii Number of HEIS 12 225 230 230 230 Hochanical, seco and production ii Number of HEIS 10 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28			comparative		per TRAC	per TRAC	per TRAC
17 Chemical eigneering i Number of HEis Total research assisters Neerge 5 102 275 8 18 Meeral, metallurgy and materials engineering ii Number of HEis Total research assisters 20 23 33 23 33 19 Evel enge anterials engineering ii Number of HEis Total research assisters 20 23 44.83 19 Civil engineering ii Number of HEis Total research assisters 20 8 77 77 19 Civil engineering iii Number of HEis Total research assisters 304 860.3 860.3 20 Electrical, electronic and engineering iii Number of HEis Total research assisters 304 72 27 28 29 20 <td< td=""><td>HES</td><td>SA academic cost centre</td><td></td><td></td><td>Sector</td><td>Sector</td><td>Sector</td></td<>	HES	SA academic cost centre			Sector	Sector	Sector
Average is Coursite Median Value 2.20 (a) 2.31 (a) 2.33 (a) 2.33 (b) 18 Mineral, metallurgy and materials engineering ii Total research assistants Average Median Value 2.6 7 42.23 19 Olvi engineering ii Total research assistants Average is Coursite 2.6 7 42.23 44.83 10 Olvi engineering iii Total research assistants Average is Coursite 1.6 5.3 3.6 4.60 20 Electrical, electronic and computer engineering iii Total research assistants add Quartile 1.6 6.6 6.7 1.6 20 Electrical, electronic and computer engineering iii Number of Hills and Value 1.8 4.11 4.11 21 Mechanical, aero and production is Coursite engineering iii Number of Hills and Value 1.0 3.8 4.4.1 4.11 23 Architecture, built environment engineering iii Number of Hills and Value 1.0 1.8 1.0 1.8 1.0 2.2 3.2 1.1 1.2 2.2 1					5	12	12
Ist Quartle Index Value 0.0 1.7.3 7.4 Mineral, metallurgy and ii Number of HEis 5 1.4 1.4 18 Mineral, metallurgy and ii Number of HEis 5 3 2.8 19 Civil engineering ii Number of HEis 8 7.7 3 2.8 19 Civil engineering ii Number of HEis 8 7.7 7.7 16 Research assistants 10.6 10.6 7.7 7.7 16 Research assistants 10.6 10.7 7.2 7.2 17 Research assistants 10.6 10.7 7.2 7.2 7.2							
International segmenting International segmenting <thinternational segmenting<="" th=""> <thinternati< td=""><td></td><td></td><td></td><td>1st Quartile</td><td>0.4</td><td>7.3</td><td>7.4</td></thinternati<></thinternational>				1st Quartile	0.4	7.3	7.4
16 Merear, metallurgy and materials engineering i Number of HEIs Average 5.5 3.8.4 4.0.8 19 Civil engineering ii Nomfare VHEIs 6.8 3.0.3 3.0.3 19 Civil engineering ii Nomfare VHEIs 6.8 6.6 6.7 7.7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Number of Figure 1 Average is Courtie Median Value 5.3 3.8.4 (4.0. 3.9. 3.9. 3.9. 3.9. 3.0. 3.0. 3.0. 3	18	Mineral, metallurgy and	ii	Number of HEIs		11	11
Ist Quartle 423 115 217 19 Civil engineering ii Number of HEIs -8 -71 71 10 Civil engineering ii Number of HEIs -8 71 71 11 Total research assistants 165 2212 220 19 73 20 Electrical, electronic and ii Number of HEIs 12 34 368 20 Electrical, electronic and ii Number of HEIs 10 25 34.0 332 20 Electrical, electronic and roduction ii Number of HEIs 10 24 14.4 14 21 Mechanical assistants 580 581.3 332.3 332.3 22 Architechare, built environment iii Number of HEIs 10 22 12.4 14.5 23 Architechare, built environment iii Number of HEIs 10 16 22.2 24 Mathematics iii Number of HEIs 30		materials engineering					448.9
Interval Std Quartie 5.9 55.4 65.2 19 Civil engineering ii Number of HEin 6 7.7 7.7 Average 16.5 27.7.2 28.7 7.7 7.7 7.7 Average 16.0 16.6 6.6 7.7<							40.8
19 Civil engineering ii Number of HEis To Cartie 8 7.17 27.12 27.13 27.12 27.13 27.12 27.13 27.12 27.13 27.12 27.13 27.13 27.13 27.13 27.13 27.13 27.14 17							39.0
Total research assistants Internation Value 16.5 27.1 28.7 20 Electrical, electronic and computer engineering ii Number of HEIs Sch Quartile 12 2.3 2.0 <td>19</td> <td>Civil engineering</td> <td>ii</td> <td></td> <td></td> <td></td> <td>60.2 17</td>	19	Civil engineering	ii				60.2 17
Intervalue Intervalue 0.6 6.6 9.7.7 20 Electrical, electronic and computer engineering iii Number of HEIs 12 25 20 20 Electrical, electronic and computer engineering 12 25 22 20 23 20 Electrical, electronic and computer engineering 12 24 25 30.0							287.7
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31 Humanities v Number of HEIs Total research assistants 18 35 35 Average 1.9 461.7 513.6 Average 2.9 13.2 14.7 1st Quartile 1.2 2.8 6.0 Median Value 2.1 9.0 9.9 37 Quartile 3.3 14.0 15.0 33 Design and creative arts iii Number of HEIs 16 29 29 Total research assistants 24.5 72.0 96.5 3.3 1st Quartile 0.2 0.6 1.0 Median Value 1.0 1.3 2.3 1st Quartile 0.2 0.6 1.0 Median Value 1.0 1.3 2.3 3rd Quartile 2.2 2.8 4.2 34 Education v Number of HEIs 15 30 30 34 Education v Number of HEIs 15 30 30 4 Education v Number of HEIs <td< td=""><td></td><td></td><td></td><td>Median Value</td><td>0.5</td><td>1.0</td><td>1.0</td></td<>				Median Value	0.5	1.0	1.0
Total research assistants 51.9 461.7 513.6 Average 2.9 13.2 14.7 1st Quartile 1.2 2.8 6.0 Median Value 2.1 9.0 9.9 37 Quartile 3.3 14.0 15.0 33 Design and creative arts iii Number of HEIs 16 29 29 Total research assistants 24.5 72.0 96.5 3.3 14.0 15.0 3.6 30 Design and creative arts iii Number of HEIs 16 29 29 Total research assistants 24.5 72.0 96.5 3.3 1st Quartile 0.2 0.6 1.0 1.0 Median Value 1.0 1.3 2.3 3.7 34 Education v Number of HEIs 15 30 30 34 Education v Number of HEIs 1.0 3.62 312.5 348.6 Average 2.4 10.4 11.6 14.6 14.	31	Humanities	V				3.4
1st Quartile 1.2 2.8 6.0 Median Value 2.1 9.0 9.9 3d Quartile 3.3 14.0 15.0 33 Design and creative arts iii Number of HEIs 16 29 29 Total research assistants 24.5 72.0 96.5 3.3 15.0 2.5 3.3 Average 1.5 2.5 3.3 1st Quartile 0.2 0.6 1.0 Median Value 1.0 1.3 2.3 3rd Quartile 2.2 2.8 4.2 34 Education v Number of HEIs 15 30 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6			-	Total research assistants	51.9	461.7	513.6
Median Value 2.1 9.0 9.9 3rd Quartile 3.3 14.0 15.0 33 Design and creative arts iii Number of HEIs 16 29 29 Total research assistants 24.5 72.0 96.5 Average 1.5 2.5 3.3 1st Quartile 0.2 0.6 1.0 Median Value 1.0 1.3 2.3 34 Education v Number of HEIs 15 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6							14.7
3rd Quartile 3.3 14.0 15.0 33 Design and creative arts iii Number of HEIs 16 29 29 Total research assistants 24.5 72.0 96.5 Average 1.5 2.5 3.3 1st Quartile 0.2 0.6 1.0 1.3 2.3 34 Education v Number of HEIs 15 30 30 Total research assistants 36.2 312.5 348.6 Average 1.4 1.0 1.3 2.3 34 Education v Number of HEIs 15 30 30 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4 1.0 0.9 1.4						9.0	6.0 9.9
Total research assistants 24.5 72.0 96.5 Average 1.5 2.5 3.3 1st Quartile 0.2 0.6 1.0 Median Value 1.0 1.3 2.3 34 Education v Number of HEIs 15 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4		Design and seather ant-					15.0
Average 1.5 2.5 3.3 1st Quartile 0.2 0.6 1.0 Median Value 1.0 1.3 2.3 3rd Quartile 2.2 2.8 4.2 34 Education v Number of HEIs 15 30 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4	33	Design and creative arts	ш				29 96.5
Median Value 1.0 1.3 2.3 3rd Quartile 2.2 2.8 4.2 34 Education v Number of HEIs 15 30 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4				Average	1.5	2.5	3.3
3rd Quartile 2.2 2.8 4.2 34 Education v Number of HEIs 15 30 30 Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4							1.0 2.3
Total research assistants 36.2 312.5 348.6 Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4				3rd Quartile	2.2	2.8	4.2
Average 2.4 10.4 11.6 1st Quartile 1.0 0.9 1.4	34	Education	v				30
1st Quartile 1.0 0.9 1.4							348.6 11.6
Median Value I 2.2I 3.2I 4.2				1st Quartile	1.0	0.9	1.4
							4.2 10.4

				1-0	RG&C	Total
		Subject		research	research	research
		group for		assistants	assistants	assistants
		comparativ	8	per TRAC	per TRAC	per TRAC
		purposes	6	P	P	P
HE	SA academic cost centre	only		Sector	Sector	Sector
35	Modern languages	v	Number of HEIs	8	22	22
	5.5		Total research assistants	24.4	102.2	126.4
			Average	3.0	4.6	5.7
			1st Quartile	0.3	1.0	1.0
			Median Value	2.0	2.4	3.4
			3rd Quartile	5.4	4.6	8.3
37	Archaeology		Number of HEIs	9	19	19
			Total research assistants	16.4	151.0	167.4
			Average	1.8	7.9	8.8
			1st Quartile	0.7	1.5	2.5
			Median Value	0.8	5.1	5.1
			3rd Quartile	1.2	12.8	13.6
38	Sports science and leisure	iii	Number of HEIs	7	12	12
	studies		Total research assistants	11.2	44.5	55.7
			Average	1.6	3.7	4.6
			1st Quartile	0.5	0.7	1.3
			Median Value	0.7	2.9	3.2
			3rd Quartile	3.7	6.2	7.4
41	Continuing education	v	Number of HEIs	3	5	5
			Total research assistants	10.6	4.1	14.7
			Average	3.5	0.8	2.9
			1st Quartile	0.2	0.6	0.8
			Median Value	1.4	0.6	1.9
			3rd Quartile	9.0	1.0	2.0
	Total - all cost centres		Number of HEIs	27	46	46
			Total research assistants	1,899.2	27,843.6	29,742.8
1			Average	70.3	605.3	646.6
1			1st Quartile	26.0	135.9	163.2
			Median Value	56.5	389.5	428.9
			3rd Quartile	98.8	737.6	784.6

Table 10. Research assistants per TRAC

		I-0	RG&C	Total
		research	research	research
		assistants	assistants	assistants
		per TRAC	per TRAC	per TRAC
Subject group for		per INAC	per TRAC	per TRAC
comparative purpose	es .			
only		Sector	Sector	Sector
i	Number of observations	26	47	47
	Total research assistants	477.6	9,995.6	10,473.3
	Average	18.4	212.7	222.8
	1st Quartile	1.0	8.8	10.6
	Median Value	7.4	69.5	90.6
	3rd Quartile	22.9	265.8	276.5
ii	Number of observations	182	353	353
	Total research assistants	864.3	14,126.3	14,990.6
	Average	4.7	40.0	42.5
	1st Quartile	1.2	7.2	8.8
	Median Value	2.7	19.0	21.0
	3rd Quartile	6.5	51.8	54.2
iii	Number of observations	89	158	158
	Total research assistants	235.3	1,468.5	1,703.8
	Average	2.6	9.3	10.8
	1st Quartile	0.6	1.5	2.4
	Median Value	1.2	4.4	6.5
	3rd Quartile	3.0	11.8	14.7
iv	Number of observations	21	38	38
	Total research assistants	53.3	374.6	427.8
	Average	2.5	9.9	11.3
	1st Quartile	1.2	1.8	2.2
	Median Value	1.6	4.2	5.0
	3rd Quartile	2.6	12.5	15.7
v	Number of observations	71	141	141
	Total research assistants	251.2	1.878.6	2.129.7
	Average	3.5	13.3	15.1
	1st Quartile	1.1	1.6	2.1
	Median Value	2.6	5.6	7.7
	3rd Quartile	4.6	13.7	15.0
		4.0	13.7	13.0

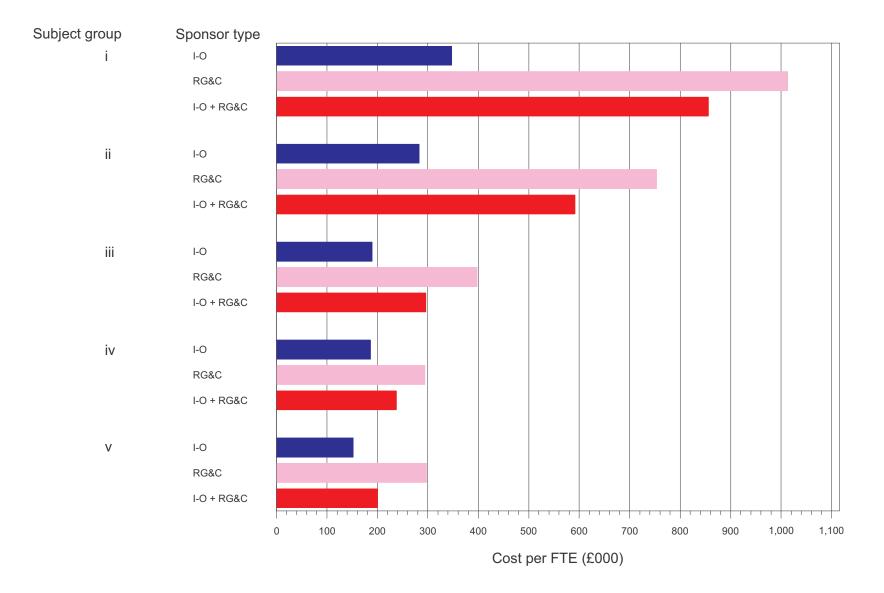
Figure 1. Volumes of activity: research costs for each subject group, by sponsor type 2009-10



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

Source: 2009-10 TRAC Review of Research Cost Relativities returns

Figure 2. Research cost per staff FTE: for each subject group, by sponsor type 2009-10



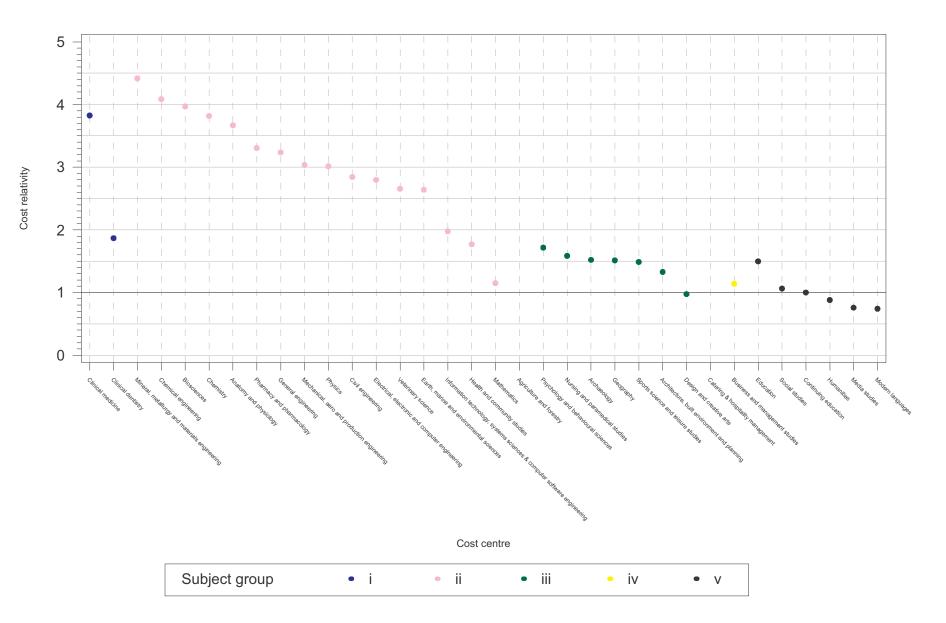
I-O=Institution-own funded Research

RG&C=Externally funded Research Grants and Contracts

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

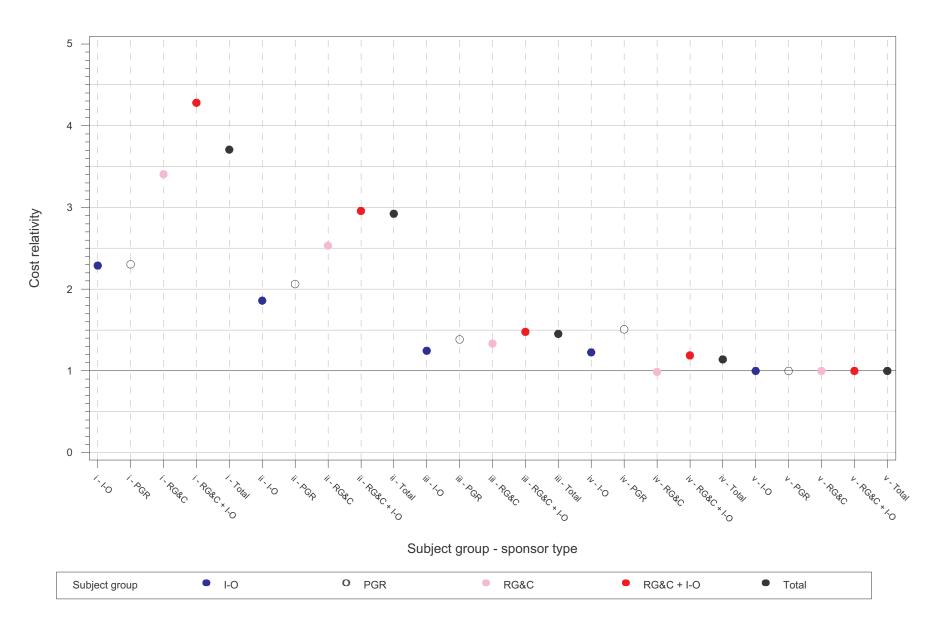
Source: 2009-10 TRAC Review of Research Cost Relativities returns

Figure 3. Total research cost relativities: for each cost centre, by subject group 2009-10



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: 2009-10 TRAC Review of Research Cost Relativities returns

Figure 4. Research cost relativities: by sponsor type, grouped by subject group 2009-10



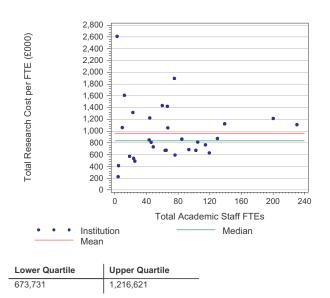
Plots of 2009-10 Total research cost per FTE and academic staff FTEs for each cost centre

Each plot is a scatter graph of research costs per FTE (£000) against academic staff FTEs, taken from the 2009-10 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 (£).

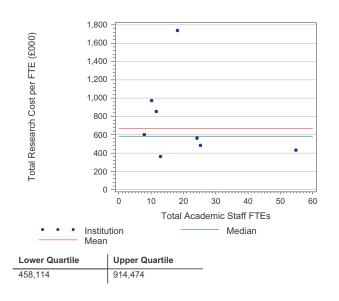
No data is shown for cost centre 13 (Agriculture and forestry) and cost centre 26 (Catering and hospitality management) as there were too few respondents in these cost centres.

Source: 2009-10 TRAC Review of Research Cost Relativities returns

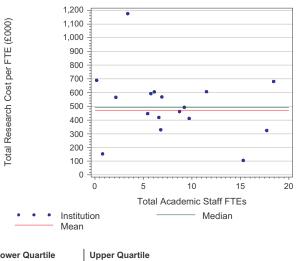
01 Clinical Medicine



03 Veterinary science

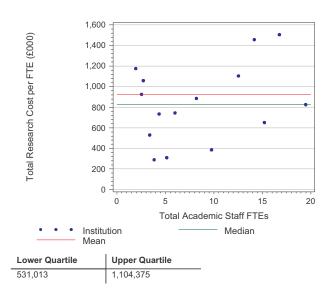


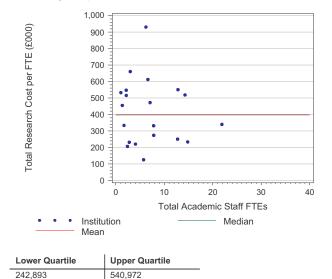
02 Clinical Dentistry



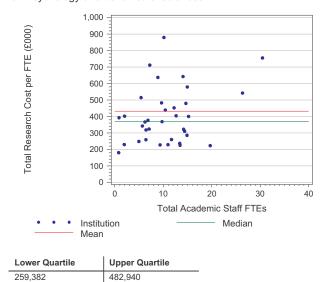
Lower Quartile	opper quartie
411,597	605,495

04 Anatomy and physiology

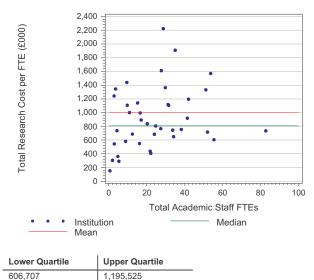




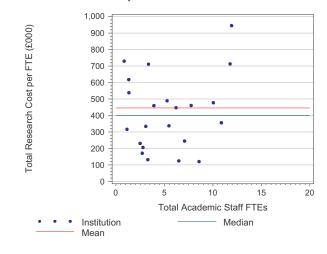
07 Psychology and behavioural sciences



10 Biosciences

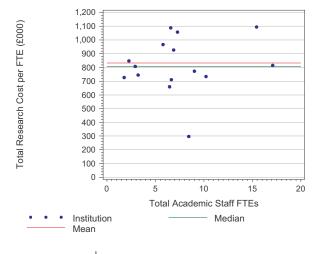


06 Health and community studies



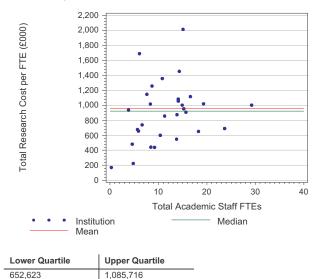
Lower Quartile	Upper Quartile
231,062	538,961

08 Pharmacy and pharmacology

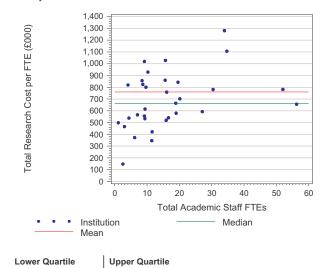


Lower Quartile	Upper Quartile
727,374	967,679

11 Chemistry



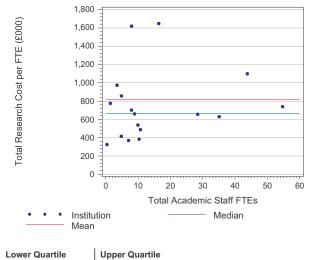
12 Physics



834,484

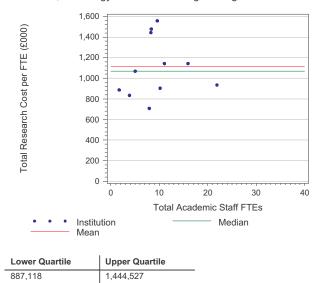
16 General engineering

536,814

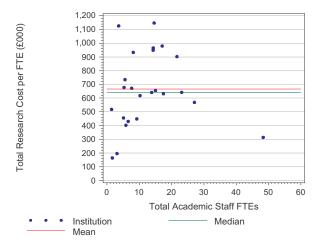


489,159 858,592

18 Mineral, metallurgy and materials engineering

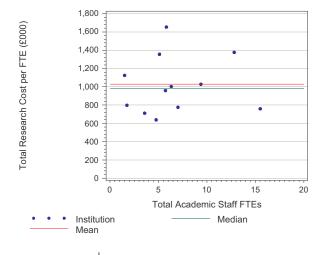


14 Earth, marine and environmental sciences



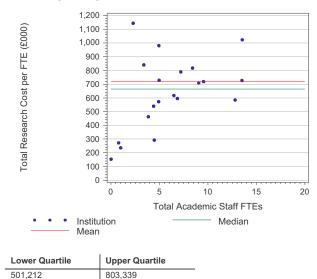
Lower Quartile	Upper Quartile
452,619	917,547

17 Chemical engineering

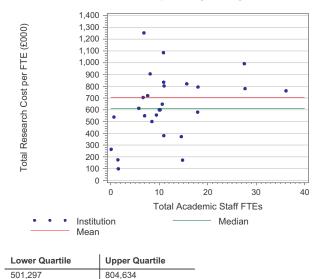


Lower Quartile	Upper Quartile
768,480	1,240,624

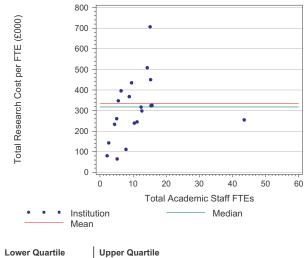






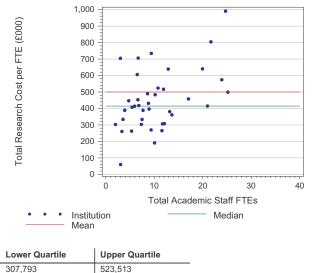


23 Architecture, built environment and planning

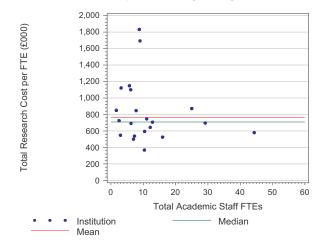


239,384 367,986

25 Information technology, systems sciences and computer software engineering

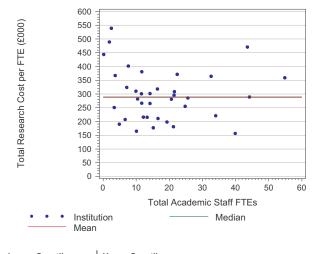


21 Mechanical, aero and production engineering



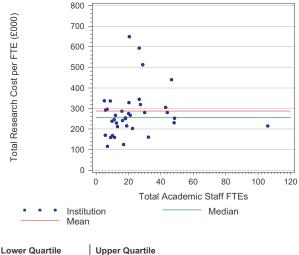
Lower Quartile	Upper Quartile
581,605	873,809



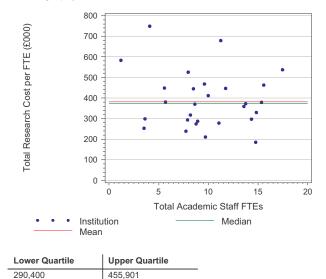


Lower Quartile	Upper Quartile	
215,588	361,960	

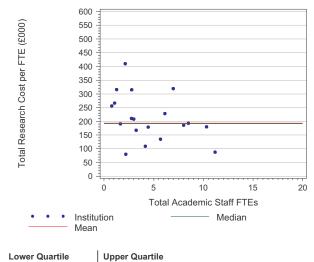
27 Business and management studies



Lower Quartile	Upper Quartile
215,143	305,196



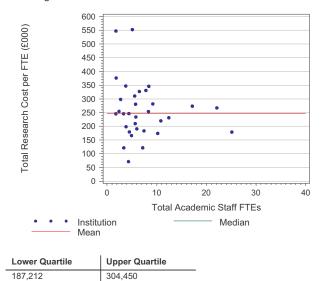
30 Media studies



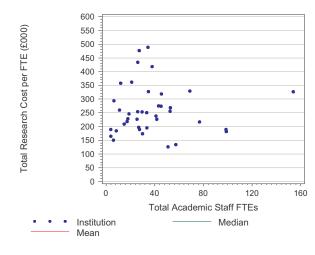
167,901

33 Design and creative arts

266,850

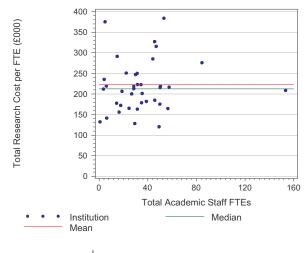


29 Social studies

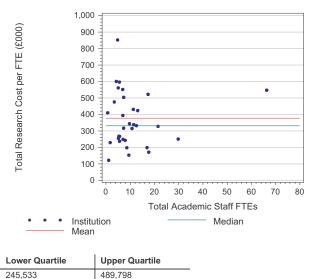


Lower Quartile	Upper Quartile
192,570	322,917

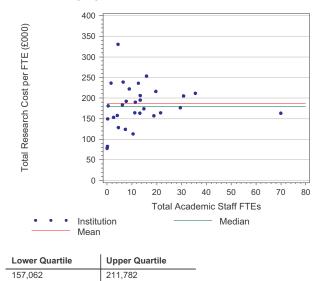
31 Humanities and language based studies



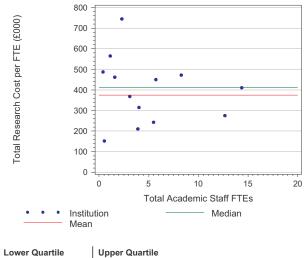
Lower Quartile	Upper Quartile
175,374	247,335



34 Education



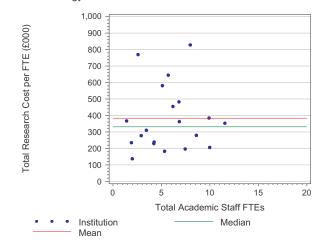






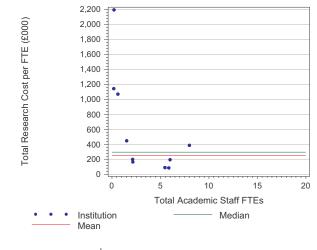
472,585

37 Archaeology



Lower Quartile	Upper Quartile
232,769	469,424

41 Continuing education



Lower Quartile	Upper Quartile
164,157	1,072,248