



REF2021
Results Analysis Tool
User Guide



Analytical Services

REF2021 Results Analysis Tool

User Guide

Contents

REF2021 Results Analysis Tool2

Introduction3

Accessing the Tool3

Uploading data (Admin users only).....4

Creating users (Admin users only)5

Change your account details (All Users)6

Metrics, calculations, and rankings.....6

Changing weightings and thresholds (Admin users only).....10

Comparator Groups11

Exporting content.....14

Joint Submissions.....14

Multiple Submissions.....14

Small Submissions14

Support arrangements15

Appendix 1: Screens16

Introduction

The purpose of this document is to provide help and guidance with respect to Elsevier's REF2021 Results Analysis Tool.

Elsevier developed this tool at the request of a number of universities who had used the equivalent tool provided by Elsevier for the REF2014 exercise. Working with these contacts, Elsevier's key objective for this initiative is to ensure the UK university community can gain maximum benefit from the REF2021 outcomes. We understand how important the REF outcomes are to all those institutions who participate in it, and consequently we are making the REF2021 tool available free of charge.

Whilst we have gratefully benefited from input from colleagues at Research England, we must emphasise that this initiative is completely independent both of Research England and of the REF process itself. Furthermore, the data in the screen shots shown in this guidance document represent test data created by Elsevier not actual data from the REF2021. Likewise, the screen shots are from our test system and these may have changed between the production of this document and the system go-live date.

Finally, we wish you all the very best in terms of your REF outcomes and hope that you find our tool a helpful addition as you analyse your results.

Accessing the Tool

1. How do I login?

The REF2021Results Analysis Tool is available at:

<https://ref2021tool.analytics.elsevier.com/>

As a registered university administrator your e-mail address will be used as the username and is the identifier by which we control access to the system.

The standard process for initially logging-in is for Elsevier or the already established university administrator to create an account using your e-mail address. You will then receive an e-mail which will prompt you to set your own password.

As an exceptions process, we do have a facility whereby administrators can create a password (again using your e-mail as identifier). In those circumstance you should immediately change your initial password, as per the guidance at (4) below.

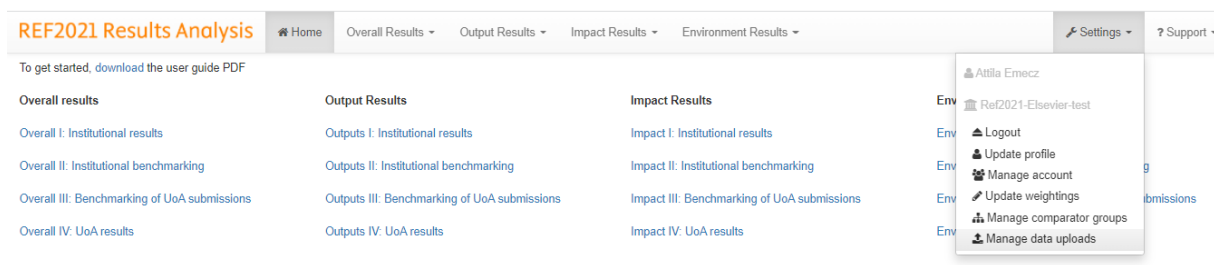
2. What browsers can I use?

The REF2021 Results Analysis Tool operates with Chrome, Microsoft Edge, Safari and Firefox. We recommend that users do not use Internet Explorer, and the tool will not function at all on any version below IE 11.

Uploading data (Admin users only)

3. How do I upload data files into the Tool?

Go to Settings > Manage data uploads:



Select **upload** for the file you would like to upload. The options are:

- Institution results
- Comparative data
- Sector results

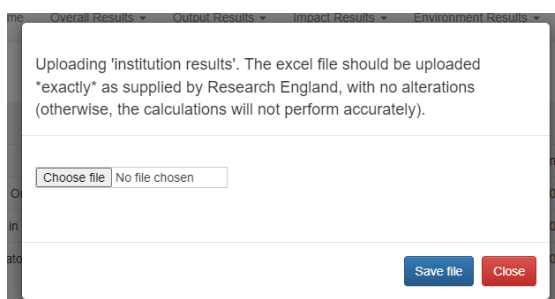
Uploading both the Sector Results file and the Comparative Data file are needed for the full functionality to be available. It is not strictly necessary to load your own Institution Results file for the system to work. The Sector Results file will have that information and the system will default to that.

The option to upload a specific Institution Results file is provided purely to enable users to begin using the system in line with the way Research England will release the results i.e. individual Institution Results will be released to institutions ahead of the general sector results.

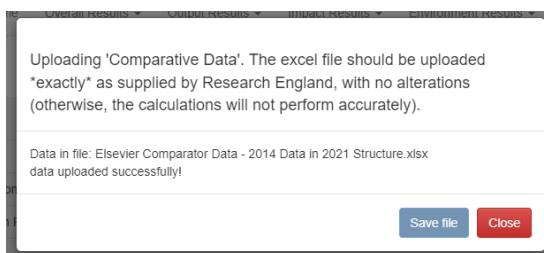
NOTE: We have based the upload functionality on the dummy data files that research England provided. The uploaded files must be EXACTLY as supplied by Research England, with no alterations (e.g. rows removed, columns added). Otherwise, the calculations within the Tool will not function accurately.

Specifically, the files must have the same worksheets and columns as the Research England files and also the data should start on the same rows as the Research England files.

Select Browse and locate the file you wish to upload:



Then select Save file. **WAIT** until you receive the message that the file has been successfully uploaded before closing the window (this can take some time, depending on the size of the file and traffic on the site).

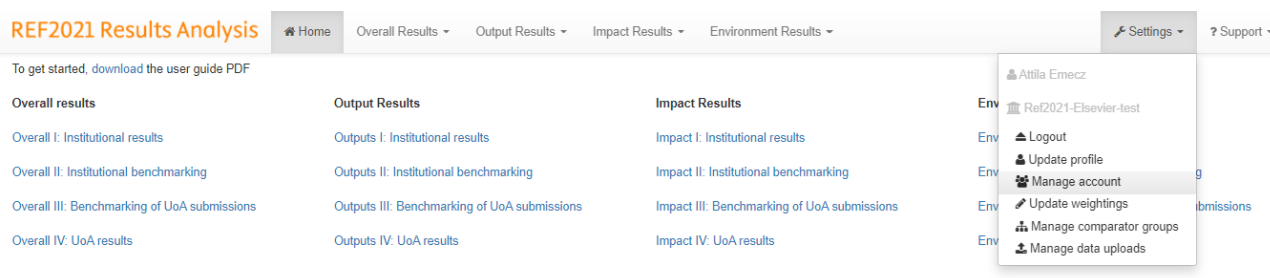


Once uploaded, a file can be overwritten.
Uploaded files can also be downloaded.

Creating users (Admin users only)

4. How do I create other users?

Go to Settings > Manage account:



Go to **Add user** in the top right-hand corner, then provide the details requested. The default process is to set the user as Account User (this is the standard user role in the system). The alternative is to set as “Account Admin”. The default process also send an e-mail to that user so they can set their own password. This is our recommended method for providing users with access.

There are occasions where an administrator may need to generate a password for a user. If you uncheck the box entitled “send email letting user set a password” a further field appears allowing you to create such a password. The administrator can inform the use of the password and the user can then use that to log on but the user should also be advised to change the password immediately following first login).

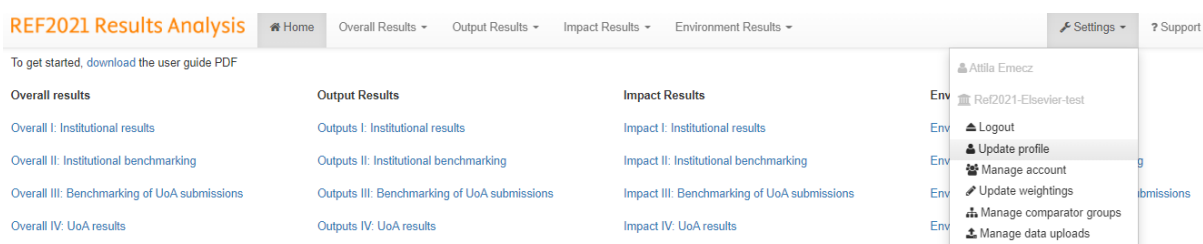
The following table summarises access level permissions.

Access Level	Access Level Permissions
Account user	<ul style="list-style-type: none"> View all screens Edit own login details
Account Administrator	<ul style="list-style-type: none"> View all screens Edit own login details: Create and edit other local users Upload and override data uploads, and download raw results files Edit weightings and thresholds Create and edit comparator groups

Change your account details (All Users)

5. How do I change my password?

Go to Settings > Update profile:



Update your user details as required. To make any change you will have to enter your current password and then press submit.

So to change your password, complete the “new password” field and then also enter your current password in the relevant field. Then click **Submit**. When entering passwords the system shows these in standard text and not as hidden characters.

6. How do I change other account details (e.g. my email, my name)?

Follow the steps above in (5) i.e. make the change required, enter current password and click **Submit**.

Metrics, calculations, and rankings

7. What metrics does the Tool use?

The table below shows the metrics the system generates, how they are derived and where they are used. For some metrics, university administrators have the option of changing the calculation parameters. We show the default parameters in the following table.

	Measures	Exemplar	Notes/ Calculation	Profile			
				Overall	Outputs	Impact	Env
Quality	% 4*	23	Taken directly from REF Data	✓	✓	✓	✓
	% 4* / 3*	56	Simple addition using REF Data	✓	✓	✓	✓
	GPA	3.05	$((\% \text{ at } 4^* \times 4) + (\% \text{ at } 3^* \times 3) + (\% \text{ at } 2^* \times 2) + (\% \text{ at } 1^* \times 1)) / 100$	✓	✓	✓	✓
	Quality Index	56	$[(\% \text{ at } 4^* \times 16) + (\% \text{ at } 3^* \times 9) + (\% \text{ at } 2^* \times 4) + (\% \text{ at } 1^* \times 1)] / 16$	✓	✓	✓	✓
Combined	FTE 4*	11.50	Cat A staff x % at 4*	✓			
	FTE 4* / 3*	28.00	(Cat A staff x % at 4*) + (Cat A staff y % at 3*)	✓			
	Power	0.76	$[(\text{QI} \times \text{Cat A FTE submitted}) = \text{weight}] / \text{largest weight}$	✓			
Volume	Cat A FTE	50.00	Taken directly from REF Data	✓			
	# Submissions	17	Taken directly from REF Data	✓			
	# Multi Submissions	1	Derived from REF data				
	# Joint Submissions	2	Derived from REF data				
	Proportion of staff submitted	83%	- Taken directly from REF Data [% of Eligible Staff Submitted]	✓			
	# case studies	6	Determined by Cat A FTE			✓	
Market Share	Cat A FTE	0.79%	Calculated from individual organisation's values expressed as a % against comparator group	✓			
	4* FTE	25.30%	As above	✓			
	4* / 3* FTE	7.36%	As above	✓			

The Tool also calculates, for each institution, the number and the proportion of submissions where (as the default selections):

- GPA ≥ 3.00
- Proportion of activity at 4* / 3* $\geq 50\%$

These measures are available in the **Institutional results and rankings** table in the Overall II, Outputs II, Impact II, and Environment II screens:

Overall institutional results and rankings

Select Comparator group
UK

Overall results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order.

Rank	HEI	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE	4*/3* FTE	Power	Prop Staff Sub	# Subs	# Mult Subs	# Joint Subs	# Subs GPA ≥ 3.00	% Subs GPA ≥ 3.00	# Subs Prop 4*/3* ≥ 50	% Subs Prop 4*/3* ≥ 50
1		2,245.83	32	39	24	5	1	70	2.96	60	713.19	866.67	540.57	111.80	13.60	1,579.86	1.00	-	50	3	0	22	44.00 %	49	98.00 %
2		2,040.39	32	39	24	4	1	71	2.98	60	653.04	799.07	488.26	84.38	15.63	1,452.11	0.92	-	50	4	0	27	54.00 %	49	98.00 %
3		1,792.68	27	39	27	6	1	66	2.84	56	476.29	702.98	484.91	113.86	14.65	1,179.28	0.74	-	49	3	2	9	18.37 %	43	87.76 %
4		1,824.34	23	42	29	6	0	65	2.82	54	421.31	772.45	520.15	107.44	2.98	1,193.76	0.74	-	53	0	0	13	24.53 %	49	92.45 %
5		1,639.81	22	40	28	8	2	63	2.75	53	368.91	660.17	462.60	123.41	24.71	1,029.08	0.64	-	39	0	0	4	10.26 %	33	84.62 %
6		1,224.57	26	47	23	4	0	73	2.94	58	316.04	577.22	276.24	55.08	0.00	893.25	0.53	-	22	2	0	10	45.45 %	22	100.00 %
7		1,388.47	18	40	34	7	1	58	2.67	50	250.92	557.71	466.81	102.99	10.05	808.63	0.51	-	47	0	0	9	19.15 %	33	70.21 %

Note that University Administrators can change the defaults e.g. to show Proportion of activity at, say, 4*/3* $\geq 70\%$ instead of the default 50%

8. How is the Power metric calculated?

Power is a metric that is calculated with reference to other values in the comparator set. The value for an organisation is calculated by dividing by the highest value in that set, hence the maximum value for power is 1. The table below illustrates the calculation

HEI	Category A FTE	QI	Weighting (Cat A FTE x QI)	Power (weighting/max weighting)
University A	98.83	74	7313.42	0.17
University B	32.5	79	2567.5	0.06
University C	103.09	75	7731.75	0.18
University D	573.73	73	41882.29	1.00

9. What calculations and rankings are available?

Detailed descriptions of each screen are available in **Appendix 1**.

10. Why do submissions that appear to have the same value for a selected measure have different ranks?

Many values have been subject to rounding. As the rank order displayed is based on the actual figures, you may see situations where the results appear to be equal, but they have different rank orders.

11. How are the results sorted when two institutions have the same value for the selected measure?

When sorting the table and there are 'ties' in the selected value (i.e. >1 institution with the same value), the results are displayed first by the value in question, then in descending order: 4*, 3*, 2*, 1*, U/C.

12. What is the 'weighted average'?

Weighted averages are averages that reflect the FTE numbers concerned. We use these both when taking an individual institution perspective (looking at UoAs within an institution) or when taking a UoA perspective (i.e. looking at institutions within a UoA). They are calculated by multiplying the percentage at each quality level for a UoA or institution by the number of staff submitted in that UoA or institution. This provides an FTE weighted value for each UoA or institution. For each quality level, the weighted values are then summed over the UoA or institution to give a weighted grade total. The weighted grade total is then divided by the total FTE for the UoA or institution to give the average.

For example, if we take the 4* grade distribution for an institution with 3 UoAs then the calculation is as follows:

UoA	FTE	4*	Weighted 4*
Physics	27	40	1080
Mathematical Sciences	28	20	560
Computer Sciences	19	30	570
Total	74		2210

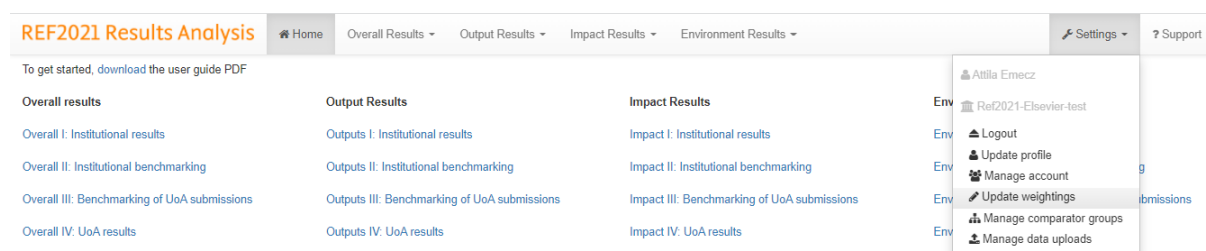
Average weighted 4* = $2210/74 = 29.86$

Changing weightings and thresholds (Admin users only)

13. How do I change the weightings and thresholds (e.g. change the weighting given to 4* activity in the GPA calculation)?

Admin users can edit the weightings applied to the GPA and QI metrics, and can update the value for calculating the number and proportion of submissions above a particular threshold for GPA and proportion of activity at 4*/3*.

Go to Settings > Update weightings:



Edit the weightings / thresholds as desired, and then click **Submit**. Once you edit the weightings / thresholds, these will be applied across your institution's account, for all users. Users are notified via the following means:

- Home screen:

In example below the GPA weights for 4* and 3* have been changed to 5 and 4 (the defaults are 4 and 3 respectively). The QI weights for 4* and 3* have also been independently changed to 25 and 16 (the defaults are 16 and 9 respectively).

REF2021 Results Analysis

To get started, [download the user guide PDF](#)

Overall results

Overall I: Institutional results

Overall II: Institutional benchmarking

Overall III: Benchmarking of UoA submissions

Overall IV: UoA results

Output Results

Outputs I: Institutional results

Outputs II: Institutional benchmarking

Outputs III: Benchmarking of UoA submissions

Outputs IV: UoA results

Impact Results

Impact I: Institutional results

Impact II: Institutional benchmarking

Impact III: Benchmarking of UoA submissions

Impact IV: UoA results

Environment Results

Environment I: Institutional results

Environment II: Institutional benchmarking

Environment III: Benchmarking of UoA submissions

Environment IV: UoA results

Summary of Calculations

Measure	Grade Point Average	Quality Index	Power Measure
GPA	Grade Point Average	Quality Index	Power Measure
QI	Quality Index	Quality Index	Power Measure
Power	Power Measure	Quality Index	Power Measure

Weighted averages are calculated by multiplying the percentage at each quality level for a UoA or institution by the number of staff submitted in that UoA or institution. This gives notional volumes of research activity at each quality level for each UoA / institution. These volumes are then summed for the UoA / institution as a whole, and then expressed as a percentage of total research activity within that UoA / institution. By doing this, we take the size of individual submissions into account when calculating a weighted average quality profile. These average quality profiles may not sum to 100 per cent due to rounding.

Joint Submissions are shown split by their constituent institutions. This tool does not offer the functionality to view Joint submission performance as a single submission.

Weightings

Measure	4*	3*	2*	1*	U/C
GPA	4	3	2	1	0
QI	16	9	4	1	0

- The Applied Weightings & Thresholds drop down on each screen:

Overall I: Institutional Results

Select HEI

Institutional summary of Overall results

Institutional summary of the selected HEI's Overall REF2021 results, showing the averages (arithmetic means), weighted averages (see Home screen for details)

University of Surrey Summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE
Averages	30.58	21	51	25	3	0	71	3.59	57	6.66	17.24	6.10	0.54	
Weighted Averages	-	22	56	20	2	0	78	3.76	61	-	-	-	-	
Totals	458.76	-	-	-	-	-	-	-	-	99.93	258.62	91.45	8.16	

Overall results: Submitted UoA(s)

Applied Weightings & Thresholds

Weightings

Measure	4*	3*	2*	1*	U/C
GPA	5.00	4.00	2.00	1.00	0.00
QI	25	16	4	1	0

Thresholds

Threshold	Value
Threshold for Proportion of activity at 4*/3*	>= 50
Threshold for GPA	>= 3

Prop Staff Sub

Export Table data into Excel

- If downloaded, the weightings / thresholds applied will be stated

To revert back to the defaults, simply return to the Update weightings screen and input the default weightings (which are reproduced at the bottom of the screen), and click **Submit**.

Comparator Groups

14. What comparator groups are available in the Tool?

The following comparator groups are available in the Tool as standard. These are not editable.

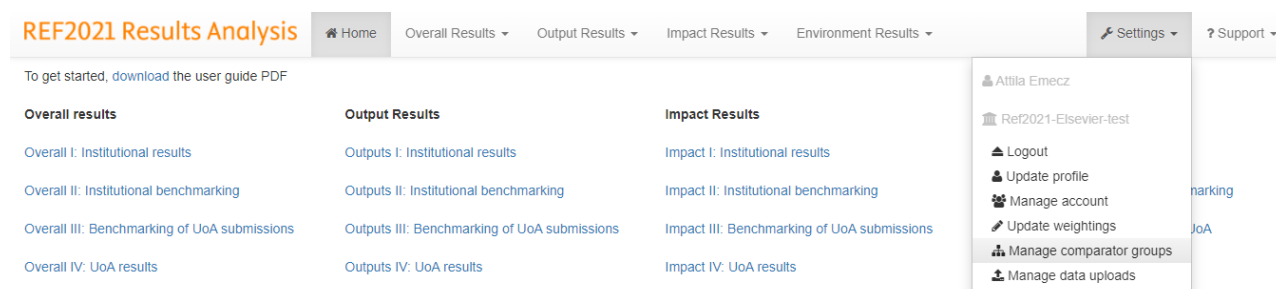
- Regions
 - England
 - Northern Ireland
 - Scotland
 - Wales
 - UK (the system default)
- Mission Groups
 - Cathedral Group
 - Guild HE
 - Million+
 - Russell Group
 - UKADIA
 - University Alliance
- English Regions
 - London
 - East Midlands
 - East of England
 - North East
 - North West
 - South East
 - South West
 - West Midlands
 - Yorkshire & the Humber
- KEF Clusters

Analytical Services

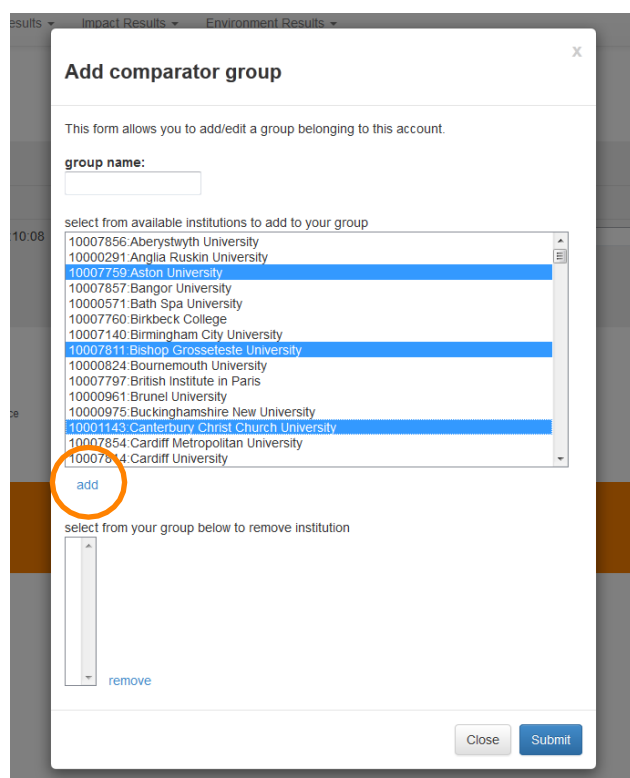
- KEF STEM
- KEF E
- KEF Arts
- KEF M
- KEF X
- KEF J
- KEF V
- **Pre/Post 92**
 - Pre 92
 - Post 92

15. How do I create additional comparator groups? (Admin users only)

Go to Settings > Manage comparator groups:



Go to **Add comparator group** in the top right-hand corner. First provide a name for the comparator group, and select the institutions to add to the group. To select more than one at a time, hold down either the Shift or Ctrl keys (depending on the nature of your selection), and click on each HEI you wish to add to the group. Then select **add**.



If it is a large group, you may wish to select all HEIs, then **remove** those you do not want to include in the group.

Add comparator group

This form allows you to add/edit a group belonging to this account.

group name:

select from available institutions to add to your group

- 10007162 University of the Arts London
- 10007114 University of the Highlands and Islands
- 10007164 University of the West of England - Bristol
- 10007800 University of the West of Scotland
- 10007807 University of Ulster
- 10008574 University of Wales
- 10007858 University of Wales Trinity Saint David
- 10007163 University of Warwick
- 10007165 University of Westminster
- 10003614 University of Winchester
- 10007166 University of Wolverhampton
- 10007139 University of Worcester
- 10007167 University of York
- 10007657 Writtle College
- 10007713 York St John University

add

select from your group below to remove institution

- 10002681 Glasgow School of Art
- 10007833 Glyndwr University
- 10002718 Goldsmiths' College
- 10007825 Guildhall School of Music & Drama
- 10040812 Harper Adams University
- 10007764 Heriot-Watt University
- 10007765 Heythrop College
- 10003270 Imperial College London
- 10003324 Institute of Cancer Research
- 10002766 Institute of Education

remove

Close Submit

Click **Submit** once you have finalised your selections.

Once you create / edit local comparator groups, these will be available for selection across your institution's account, for all users.

UoA Overall results and rankings

		Multiple Submission	Joint Submission	Cal A FTE	4"	3"	2"	1"	UK	4*3"	GRU	GR	4*FTE	3*FTE	2*FTE	1*FTE	UK FTE	4*3" FTE	Power	Prop Staff Sub
UK																				
Northern Ireland																				
Mission Groups																				
Russell Group																				
University Alliance																				
Milton+																				
CMU																				
Guild HE																				
UKACCA																				
English Regions																				
South East																				
East of England																				
London																				
East Midlands																				
North West																				
Yorkshire and the Humber																				
South West																				
West Midlands																				
North East																				
Others																				
Visits Total																				
8 Swansea University	15 General Engineering	1		18.00	15	65	20	0	0	80	1.12	57	2.70	11.70	3.60	0.00	0.00	14.40	0.09	0.00

Exporting content

16. How do I download content from the Tool?

Below each table within each screen, there is a button to Export Table data into Excel.

REF2021 Results Analysis

Overall I: Institutional Results

Select HEI

Institutional summary of Overall results

Institutional summary of the selected HEI's Overall REF2021 results, showing the averages (arithmetic means), weighted averages (see Home screen for definition), and total values.

University of Surrey Summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE	4*/3* FTE	# Subs	# Mult Subs	# Joint Subs	Prop Staff Sub
Averages	30.58	21	51	25	3	0	71	2.88	56	6.66	17.24	6.10	0.54	0.04	23.90	-	-	-	74.93%
Weighted Averages	-	22	56	20	2	0	78	2.98	59	-	-	-	-	-	-	-	-	-	73.88%
Totals	458.76	-	-	-	-	-	-	-	-	99.93	258.62	91.45	8.16	0.59	358.56	15	0	0	-

Export Table data into Excel

Joint Submissions

17. How are Joint Submissions reported?

Joint Submissions are displayed and ranked as separate submissions (but are identified as Joint Submissions – along with name(s) of partner(s)) (as presented in the raw results). Joint Submissions have the same grade distributions for each institution. In addition, the proportion of staff submitted is now given as a single value and is displayed for each institution. The Category A FTEs are still available separately for each institution and these are the values that the REF2021 uses as a default view.

We are aware that the Research England data does now also give a combined value FTE value for the joint submission as a whole. However, the tool does not yet offer the facility to merge joint submissions into a single submission to enable analysis of the joint submission's performance in the UoA as a whole. This is under consideration.

Multiple Submissions

18. How are Multiple Submissions reported?

Multiple Submissions are default displayed and ranked as separate submissions (as presented in the raw results). The Tool offers the facility to combine Multiple Submissions to enable analysis of the HEI's performance in the UoA as a whole. Further detail is available in **Appendix 1**.

Small Submissions

19. How are small submissions reported?

Sub-profiles (Outputs, Impact, and Environment) for any submission whose headcount of submitted staff is three or fewer have not been published.

As such, the results for small submissions are not included in any of the results presented in the Tool.

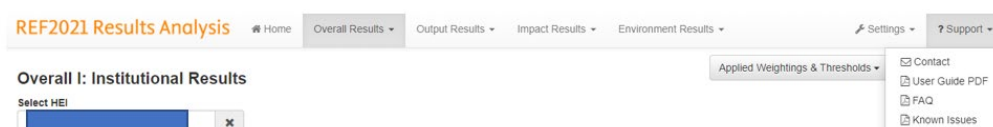
If your institution made any such small submission, you will be able to see the results in the **Outputs / Impact / Environment I** screens, and in the **Outputs / Impact / Environment III : Quartiles** screens.

Support arrangements

20. How can I get help with the Tool?

In the first instance, please contact your local Administrator. Otherwise, contact the dedicated REF2021 Elsevier helpdesk at: ref2021@elsevier.com

Further support (in the form of FAQs, known issues, and the training video) is available from the **Support** tab in the top right-hand corner of the screen.



Appendix 1: Screens

Data in screen shots is Elsevier created test data and not actual data associated with REF 2021

a. Overall I: Institutional Results

For the initial day's release, Research England will provide only your own HEI's results. Once your administrator has uploaded them they will be available on this screen. All other HEIs will be available upon upload of the sector results (released by Research England a day or so later)..

Institutional summary of Overall results

Institutional summary of the selected HEI's Overall REF2021 results, showing the averages (arithmetic means), weighted averages, and total values.

REF2021 Results Analysis

HomeOverall ResultsOutput ResultsImpact ResultsEnvironment ResultsSettingsSupport

Overall I: Institutional Results

Applied Weightings & ThresholdsColour Legend

Select HEI

X

Institutional summary of Overall results

Institutional summary of the selected HEI's Overall REF2021 results, showing the averages (arithmetic means), weighted averages (see Home screen for definition), and total values.

University of Surrey Summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE	4*/3* FTE	# Subs	# Mult Subs	# Joint Subs	Prop Staff Sub
Averages	30.58	21	51	25	3	0	71	2.88	56	6.66	17.24	6.10	0.54	0.04	23.90	-	-	-	74.93%
Weighted Averages	-	22	56	20	2	0	78	2.98	59	-	-	-	-	-	-	-	-	-	73.88%
Totals	458.76	-	-	-	-	-	-	-	-	99.93	258.62	91.45	8.16	0.59	358.56	15	0	0	-

Export Table data into Excel

[Export Table data into Excel](#)

Overall results: Submitted UoA(s)

Overall results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order.

Overall results: Submitted UoA(s)

Overall results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order.

Rank	UoA	Multiple Submission	Joint Submission	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE	4*/3* FTE	Prop Staff Sub
1	03: Allied Health Professions, Dentistry, Nursing and Pharmacy			64.60	44	49	7	0	0	93	3.37	73	28.42	31.65	4.52	0.00	0.00	60.08	62.12 %
2	04: Psychology, Psychiatry and Neuroscience			20.00	19	52	26	2	1	71	2.86	55	3.80	10.40	5.20	0.40	0.20	14.20	60.61 %
3	09: Physics			27.50	25	59	16	0	0	84	3.09	62	6.88	16.22	4.40	0.00	0.00	23.10	88.71 %
4	10: Mathematical Sciences			28.42	14	61	25	0	0	75	2.89	55	3.98	17.34	7.11	0.00	0.00	21.32	91.68 %
5	11: Computer Science and Informatics			19.40	11	49	38	0	2	60	2.67	48	2.13	9.51	7.37	0.00	0.39	11.64	92.38 %
6	12: Engineering			54.95	18	62	20	0	0	80	2.98	58	9.89	34.07	10.99	0.00	0.00	43.96	79.64 %
7	16: Economics and Econometrics			20.65	19	63	18	0	0	82	3.01	59	3.92	13.01	3.72	0.00	0.00	16.93	82.60 %
8	17: Business and Management Studies			41.65	11	51	34	4	0	62	2.69	48	4.58	21.24	14.16	1.67	0.00	25.82	56.28 %
9	18: Law			8.00	9	40	47	4	0	49	2.54	44	0.72	3.20	3.76	0.32	0.00	3.92	38.10 %
10	19: Politics and International Studies			11.40	10	16	46	28	0	26	2.08	32	1.14	1.82	5.24	3.19	0.00	2.96	81.43 %

b. Overall II: Institutional Benchmarking

This screen is only available following upload of the sector results.

Summary of Overall institutional benchmarking and market share

Institutional summary of the selected HEI's Overall REF2021 results, rankings, and market share, using weighted averages (see Home screen for definition) wherever relevant. Rankings within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs.

REF2021 Results Analysis

HomeOverall ResultsOutput ResultsImpact ResultsEnvironment ResultsSettingsSupport

Overall II: Institutional benchmarking

Applied Weightings & ThresholdsColour Legend

Select HEI

Summary of Overall Institutional benchmarking and market share

Institutional summary of the selected HEI's Overall REF2021 results, benchmarking, and market share, using weighted averages (see Home screen for definition) wherever relevant. Rank within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs.

	# HEIs	% 4*	% 4*/3*	GPA	QI	4* FTE	4*/3* FTE	Power	Cat A FTE	# Subs	Prop Staff Sub	Cat A FTE MS	4* FTE MS	4*/3* FTE MS
Values		23	75	2.96	58	87.46	281.24	0.12	375.62	14	71.28%	375.62	87.46	281.24
England	119	49	41	45	46	34	33	33	33	43	45	0.92%	0.70%	0.92%
KEF X	20	15	13	14	14	16	15	15	15	16	18	3.82%	3.12%	3.72%
Pre 92	70	58	50	54	55	45	44	43	42	43	50	0.92%	0.63%	0.85%
South East	17	8	6	6	6	7	8	8	8	9	7	5.05%	3.64%	4.87%
Atti Test 1	7											0.00%	0.00%	0.00%
UK	154	66	54	60	61	45	44	43	42	54	59	0.75%	0.58%	0.74%

The figures shown for the row entitled "Values" are those associated with the selected institution.

The figures shown for the various comparator groups show the number of institutions in each comparator groups and then the position that the selected institution ranks within that comparator group for the heading. For example, this institution has 23% 4* papers which was the 66th highest in the UK, similarly the power score for the institution was 0.12 which was 8th in the South East of England.

The Market Share values (in brown with MS) show the actual values for the selected institution and then express these as a proportion of the total for the comparator groups. The total values for the comparator groups are not shown in the table.

Overall institutional results and benchmarking

Overall results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order.

In the following table, the institutions are ranked in order of descending FTE. There is a marker in the top right of the column heading showing it is the current column being used to order.

REF2021 Results Analysis

Home

Overall Results

Output Results

Impact Results

Environment Results

Settings

Support

Overall institutional results and benchmarking

Select Comparator group

UK

Overall results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order.

Rank	HEI	Cat A FTE	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE	4*3* FTE	GPA	QI	4* FTE	3* FTE	2* FTE	1* FTE	U/C FTE	4*3* FTE	Power	Prop Staff Sub	# Subs	# Mult Subs	# Joint Subs	# Subs GPA ≥ 3.00	% Subs GPA ≥ 3.00	# Subs Prop 4*/3* ≥ 50	% Subs Prop 4*/3* ≥ 50
1		316.79	22	45	28	4	1	67	2.84	55	69.66	143.89	89.55	11.23	2.46	213.55	0.10	79.20 %	17	2	2	4	23.53 %	12	70.59 %
2		168.36	7	38	41	12	2	45	2.37	39	12.10	63.40	69.75	20.10	3.00	75.51	0.04	32.95 %	15	0	0	0	0.00 %	5	33.33 %
3		12.10	7	36	38	18	1	43	2.30	38	0.85	4.36	4.60	2.18	0.12	5.20	0.00	12.60 %	1	0	0	0	0.00 %	0	0.00 %
4		175.43	31	49	19	1	0	79	3.06	63	53.59	85.23	33.53	2.52	0.57	138.81	0.06	57.52 %	6	0	0	3	50.00 %	6	100.00 %
5		220.35	28	52	19	3	1	77	3.00	60	57.07	113.61	42.79	5.68	1.19	170.68	0.07	67.59 %	13	0	3	8	61.54 %	12	92.31 %
6		74.02	13	40	34	11	2	53	2.52	45	9.72	29.59	25.42	8.12	1.17	39.31	0.02	38.55 %	6	0	0	0	0.00 %	3	50.00 %
7		327.76	27	48	23	3	0	73	2.97	59	89.68	149.92	76.70	10.02	1.44	239.59	0.11	63.40 %	14	0	2	5	35.71 %	13	92.86 %
8		121.91	16	44	30	8	1	60	2.64	49	19.16	53.69	37.17	10.35	1.54	72.85	0.03	16.49 %	11	0	0	0	0.00 %	6	54.55 %
9		11.00	6	18	46	27	4	24	1.96	29	0.70	1.94	5.02	2.95	0.39	2.64	0.00	17.18 %	3	0	0	0	0.00 %	0	0.00 %

c. Overall III: Benchmarking summary of UoA submissions

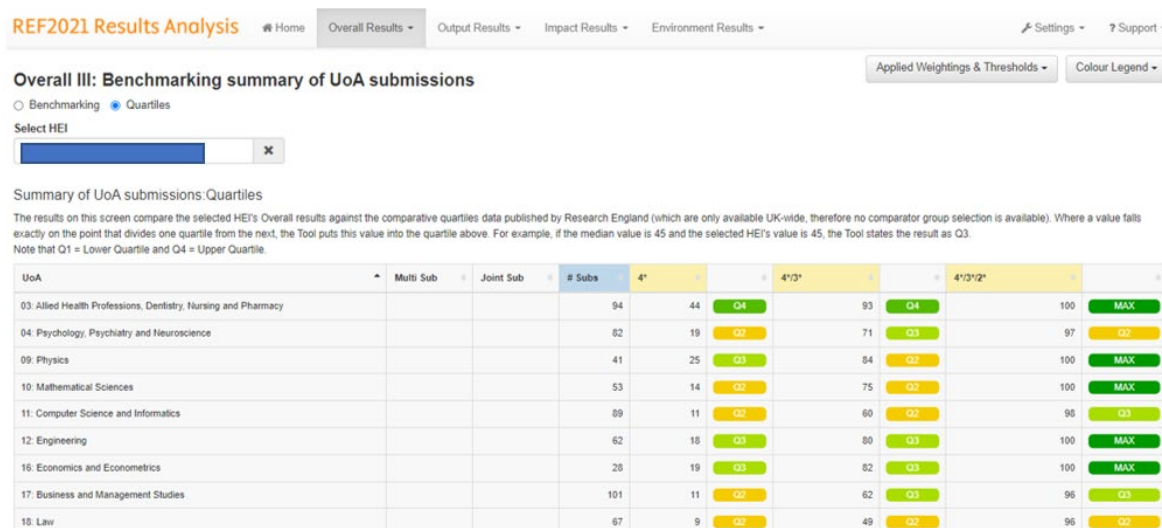
Summary of UoA submissions: **Quartiles**

Initially only your own HEI's results may be available on this screen as Research England will release these first and your administrator may have uploaded these and provided access. All other HEIs will be available upon release of the wider sector results.

The results on this screen compare the selected HEI's **Overall** results against the comparative quartiles data provided and published by Research England (which are only available UK-wide, therefore no comparator group selection is available).

Where a value falls exactly on the point that divides one quartile from the next, the Tool puts this value into the quartile above. For example, if the median value is 45 and the selected HEI's value is 45, the Tool states the result as Q3. Note that Q1 = Lower Quartile and Q4 = Upper Quartile.

An example screen is shown below with some guidance on interpretation.



For UoA 3, Allied Health, there were 94 submissions across the sector. This institution had 44% of its submission graded 4* and this placed it in Quartile 4 (top quartile) with respect to other submissions. Likewise, for UoA 9, Physics, this institution had 84% of its submission rated 4*/3* which, in relation to other 41 Physics submissions in the sector, placed its submission in Quartile 2. Finally, in UoA 12, Engineering, 100% of its submission was graded 4*, 3* or 2* and hence the table shows this with the "Max" categorisation.

A summary for the institution is also provided as shown below. This indicates, for example, that for 2 UoAs (from a total of 14 UoAs to whom the institution submitted) the proportion of the submission receiving the 4* grading was in the top quartile of submissions for that UoA. The institution had 6 UoAs where 100% of the submission was graded 4*, 3* or 2*.

4*	4*/3*	4*/3*/2*
MAX 0 submissions (0%)	MAX 0 submissions (0%)	MAX 6 submissions (43%)
Q4 2 submissions (14%)	Q4 2 submissions (14%)	Q4 0 submissions (0%)
Q3 5 submissions (36%)	Q3 5 submissions (36%)	Q3 3 submissions (21%)
Q2 7 submissions (50%)	Q2 6 submissions (43%)	Q2 4 submissions (29%)
Q1 0 submissions (0%)	Q1 1 submissions (7%)	Q1 1 submissions (7%)
MIN 0 submissions (0%)	MIN 0 submissions (0%)	MIN 0 submissions (0%)

Summary of UoA submissions: Benchmarking

This screen is only available following upload of the sector results.

Summary of the positions of all submissions made by the selected HEI, across the Quality, Combined, and Volume measures, for the **Overall** results.

This is available using the toggle facility within this view as shown in the arrowed box below.

REF2021 Results Analysis [Home](#) [Overall Results](#) [Output Results](#) [Impact Results](#) [Environment Results](#) [Settings](#) [Support](#)

Overall III: Benchmarking summary of UoA submissions [Applied Weightings & Thresholds](#) [Colour Legend](#)

☒ Benchmarking ☐ Quartiles

Select HEI Select Comparator group

Summary of UoA submissions: Benchmarking

Summary of the positions of all submissions made by the selected HEI, across the Quality, Combined, and Volume measures, for the Overall results. Please note that, for measures such as Power, where the result is normalised within the UoA, it is not intended that this screen be used to generate internal benchmarking of performance.

QUALITY MEASURES

UoA	Multi Sub	Joint Sub	# Subs	% 4*	Rank	% 4*/3*	Rank	GPA	Rank	QI	Rank				
03 Allied Health Professions, Dentistry, Nursing and Pharmacy			94	44	12	Top 20	93	9	Top 10	3.37	8	Top 10	73	9	Top 10
04 Psychology, Psychiatry and Neuroscience			82	19	46	Top 50	71	40	Top 50	2.86	42	Top 50	55	42	Top 50
09 Physics			41	25	14	Top 25	84	27	Top 50	3.09	21	Top 50	62	20	Top 25
10 Mathematical Sciences			53	14	30	Top 50	75	35	Top 50	2.89	33	Top 50	55	34	Top 50
11 Computer Science and Informatics			89	11	48	Top 50	60	48	Top 50	2.67	49	Top 50	48	50	Top 50
12 Engineering			62	18	22	Top 50	80	28	Top 50	2.98	25	Top 50	58	24	Top 50
16 Economics and Econometrics			28	19	10	Top 10	82	12	Top 20	3.01	12	Top 20	59	12	Top 20
17 Business and Management Studies			101	11	63	Not in top 50	62	51	Not in top 50	2.69	53	Not in top 50	48	53	Not in top 50

This table indicates, for example, that in UoA 9, Physics, there were 41 submissions from the sector and that with 25% of its submission rated 4*, this institution ranked 14 in the list of 41. 84% of its submission was rated 4* or 3* and this placed it at number 27 in the ranking of the 41 submissions.

d. Overall IV: UoA results

This screen is only available following upload of the sector results

Summary of UoA Overall results

Summary of the **Overall** results within the selected UoA, showing the averages (arithmetic means), weighted averages, and total values.

In the example below, we see that there were 2,747.69 staff submitted for this UoA across 94 submissions (some of which will be multiple and others joint).

The averages and weighted averages for the grades etc are likewise for the UoA across the sector.

REF2021 Results Analysis Home Overall Results Output Results Impact Results Environment Results Settings Support

Overall IV: UoA Results

Select UoA
3: Allied Health Professions, Dentistry, Nur

Applied Weightings & Thresholds Colour Legend

Summary of all submissions to UoA: Overall results

Summary of the Overall results within the selected UoA, showing the averages (arithmetic means), weighted averages (see Home screen for definition), and total values.

UoA Overall summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	4*FTE	3*FTE	2*FTE	1*FTE	U/C FTE	4*/3*FTE	Power	# Subs	# Mult Subs	# Joint Subs	# Submitting HEIs	Prop Staff Sub
Averages	29.23	24	51	21	2	1	75	2.95	58	8.98	14.57	5.01	0.45	0.22	23.55	0.22	-	-	-	-	48.45%
Weighted Averages	-	31	50	17	2	1	81	3.08	63	-	-	-	-	-	-	-	-	-	-	-	34.23%
Totals	2,747.69	-	-	-	-	-	-	-	-	844.42	1,369.23	471.17	42.28	20.59	2,213.65	-	94	21	6	83	-

Export Table data into Excel

Summary of UoA Overall institutional benchmarking and market share

Summary of the selected HEI's Overall outcomes within the UoA, showing selected results, rankings, and market share. Rankings within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs. You can choose whether to view the results with multiple submissions either separated or combined into a single submission. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). Note that in order to be able to combine multiple submissions (in this table and the next), and select a comparator group for the next table, you must first select an HEI.

REF2021 Results Analysis Home Overall Results Output Results Impact Results Environment Results Settings Support

Summary of UoA Overall Institutional benchmarking and Market Share

Select HEI
Multiple Submission
Separate Combine

Summary of the selected HEI's Overall outcomes within the UoA, showing selected results, benchmarking, and market share. Rank within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs. You can choose whether to view the results with multiple submissions defined, or combined into a single submission. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant).

	# Submissions	% 4*	% 4*/3*	GPA	QI	4* FTE	4*/3* FTE	Power	Cat A FTE	Prop Staff Sub	Cat A FTE MS	4* FTE MS	4*/3* FTE MS
Values		44	93	3.37	73	28.42	60.00	0.56	64.60	62.12%	64.60	28.42	60.00
England	74	9	6	6	7	4	4	4	5		2.96%	4.36%	3.47%
KEF X	11	3	1	2	2	1	1	1	1		16.79%	20.66%	18.47%
Pre 92	44	12	8	8	9	7	7	7	8		3.64%	4.10%	3.86%
South East	11	2	2	2	2	1	1	1	1		27.13%	37.35%	30.17%
UK	94	12	9	8	9	7	7	7	8	35	2.35%	3.37%	2.71%

Export Table data into Excel

The figures shown for the row entitled "Values" are those associated with the selected institution for the selected UoA.

The figures shown for the various comparator groups show the number of institutions in each comparator groups and then the position that the selected institution ranks within that comparator

The Market Share values (in brown with MS) show the actual values for the selected institution for the UoA and then express these as a proportion of the total for the comparator groups. The total values for the comparator groups are not shown in the table.

Overall results for all submissions to the selected UoA within the selected comparator group (in order for you to be able to select a comparator group, you must first select an HEI in the table above). Multiple submissions are separated or combined as per the selection above. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). The HEI selected above is highlighted. Each column can be selected in order to present the results in the desired rank order.

REF2021 Results Analysis

HomeOverall ResultsOutput ResultsImpact ResultsEnvironment ResultsSettingsSupport

UoA Overall results and benchmarking

Select Comparator group

UK

Overall results for all submissions to the selected UoA within the selected comparator group. Multiple submissions are defined / combined, as per the selection above. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). The HEI selected above is highlighted. Each column can be selected in order to present the results in the desired rank order.

Rank	HEI	UoA	Multiple Submission	Joint Submission	Cat A FTE	4*	3*	2*	1*	U/C	4/13*	GPA	QI	4*FTE	3*FTE	2*FTE	1*FTE	U/C FTE	4/13* FTE	Power	Prop Staff Sub
1		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			11.30	10	72	18	0	0	82	2.92	55	1.13	8.14	2.03	0.00	0.00	9.27	0.07	9.26 %
2		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			56.80	45	49	5	0	1	94	3.37	74	25.56	27.83	2.84	0.00	0.57	53.39	0.50	63.82 %
3		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			12.00	35	60	4	1	0	95	3.29	70	4.20	7.20	0.48	0.12	0.00	11.40	0.10	63.16 %
4		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			12.10	5	58	28	5	4	63	2.55	45	0.61	7.02	3.39	0.61	0.48	7.62	0.06	6.17 %

e. Impact / Outputs / Environment I: Institutional Results

As the screens for Impact, Outputs, and Environment are essentially the same, only **Impact** screenshots are shown here.

Initially only your own HEI's results may be available on these screens. All other HEIs will be available following upload of the sector results.

The number of case studies is calculated based on the business rule provided by Research England in the REF submission guidance. The guidance stated as follows:

FTE of Cat A submitted staff	Required number of impact case studies (ICS)
Up to 19.99	2
20 - 34.99	3
35 - 45.99	4
50 - 64.99	5
65 - 79.99	6
80 – 94.99	7
95 – 109.99	8
110 to 159.99	9
160 or more	10 plus one further ICS per additional 50 FTE

Note that where Joint Submissions have been made, the number of Case Studies in the **Impact** screens may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission (as would have been submitted to Research England).

Institutional summary of Impact / Outputs / Environment results

Institutional summary of the selected HEI's **Impact / Outputs / Environment** REF2021 results, showing the averages (arithmetic means), weighted averages, and total values. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution.

REF2021 Results Analysis

HomeOverall ResultsOutput ResultsImpact ResultsEnvironment ResultsSettingsSupport

Impact I: Institutional Results

Applied Weightings & ThresholdsColour Legend

Select HEI

Institutional summary of Impact results

Institutional summary of the selected HEI's REF2021 Impact results, showing the averages (arithmetic means), weighted averages (see Home screen for definition), and total values. Sub-profiles for any submission whose headcount of submitted staff (Category A plus Category C) is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

University of Surrey Summary	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	# Subs	# Published SubProfiles	# Mult Subs	# Joint Subs	# Case Studies
Averages	30.58	24.5	40.6	27.6	7.3	0.0	65.1	2.82	55	-	-	-	-	4
Weighted Averages	-	27.7	46.7	21.7	3.8	0.0	74.4	2.98	60	-	-	-	-	-
Totals	458.76	-	-	-	-	-	-	-	-	15	15	0	0	59

Export Table data into Excel

[Export Table data into Excel](#)

Impact / Outputs / Environment results: Submitted UoA(s)

Impact / Outputs / Environment results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution.

Impact results: Submitted UoA(s)

Impact results for all UoAs to which the selected HEI made a REF2021 submission. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff (Category A plus Category C) is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

Rank	UoA	Multiple Submission	Joint Submission	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	# Case Studies
1	03: Allied Health Professions, Dentistry, Nursing and Pharmacy			64.60	65.7	22.9	11.4	0.0	0.0	88.6	3.54	81	7
2	04: Psychology, Psychiatry and Neuroscience			20.00	26.7	20.0	53.3	0.0	0.0	46.7	2.73	51	3
3	09: Physics			27.50	40.0	50.0	10.0	0.0	0.0	90.0	3.30	71	4
4	10: Mathematical Sciences			28.42	0.0	40.0	60.0	0.0	0.0	40.0	2.40	38	4
5	11: Computer Science and Informatics			19.40	20.0	26.7	53.3	0.0	0.0	46.7	2.67	48	3
6	12: Engineering			54.95	33.3	56.7	10.0	0.0	0.0	90.0	3.23	68	6

f. Impact / Outputs / Environment II: Institutional Benchmarking

These screens are only available following upload of the sector results.

Note that where Joint Submissions have been made, the number of Case Studies in the **Impact** screens may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission (as would have been submitted to Research England).

Summary of institutional Impact / Outputs / Environment benchmarking

Institutional summary of the selected HEI's **Impact / Outputs / Environment** REF2021 results, rankings using weighted averages (see Home screen for definition) wherever relevant. Rankings within each comparator group are displayed for each measure. The comparator groups displayed are all those to which the selected HEI belongs. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table.

REF2021 Results Analysis [Home](#) [Overall Results](#) [Output Results](#) [Impact Results](#) [Environment Results](#) [Settings](#) [Support](#)

Impact II: Institutional benchmarking [Applied Weightings & Thresholds](#) [Colour Legend](#)

Select HEI

Summary of institutional Impact benchmarking

Institutional summary of the selected HEI's REF2021 impact results, benchmarking, and market share, using weighted averages (see Home screen for definition) wherever relevant. Rank within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs. Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

	# HEIs	% 4*	% 4+3*	GPA	QI	# Case Studies
Values		30.0		68.8	2.94	59
England	119	56		72	67	68
KEF X	20	16		18	18	18
Pre 92	70	62		65	65	65
South East	17	11		11	11	11
All Test 1	7					
UK	154	77		95	89	89

Institutional Impact / Outputs / Environment results and benchmarking

Impact / Outputs / Environment results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

REF2021 Results Analysis

Home

Overall Results

Output Results

Impact Results

Environment Results

Settings

Support

Institutional Impact results and benchmarking

Select Comparator group

UK

Impact results for all submitting HEIs within the selected comparator group, using weighted averages (see Home screen for definition) wherever relevant. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

Rank	HEI	Cat A FTE	4*	3*	2*	1*	U/C	4*/3*	GPA	QI	# Subs	# Published SubProfiles	# Mult Subs	# Joint Subs	# Case Studies	# Subs GPA ≥ 3.00	% Subs GPA ≥ 3.00	# Subs Prop 4*/3* ≥ 50	% Subs Prop 4*/3* ≥ 50
1		316.79	34.4	44.6	17.3	3.7	0.0	79.0	3.10	64	17	17	2	2	43	8	47.06 %	14	82.35 %
2		168.36	7.9	38.7	36.5	15.6	1.3	46.6	2.36	40	15	15	0	0	30	2	13.33 %	6	40.00 %
3		12.10	0.0	40.0	40.0	20.0	0.0	40.0	2.20	34	1	1	0	0	2	0	0.00 %	0	0.00 %
4		175.43	41.2	49.2	7.8	1.8	0.0	90.4	3.30	71	6	6	0	0	18	5	83.33 %	6	100.00 %
5		220.35	40.6	48.4	8.3	2.7	0.0	89.0	3.27	70	13	13	0	3	31	10	76.92 %	12	92.31 %
6		74.02	9.7	54.1	36.2	0.0	0.0	63.8	2.74	49	6	6	0	0	13	1	16.67 %	4	66.67 %
7		327.76	31.5	49.5	16.4	2.3	0.3	81.0	3.10	64	14	14	0	2	39	9	64.29 %	14	100.00 %
8		121.91	29.3	58.0	8.5	1.8	2.4	87.2	3.10	64	11	11	0	0	23	6	54.55 %	10	90.91 %
9		6.00	0.0	0.0	40.0	50.0	10.0	0.0	1.30	13	3	1	0	0	6	0	0.00 %	0	0.00 %
10		161.80	28.1	43.6	25.0	3.2	0.0	71.7	2.97	59	8	8	0	0	21	4	50.00 %	7	87.50 %
11		522.35	21.7	43.3	24.8	8.8	1.4	65.0	2.75	53	21	21	0	0	59	8	38.10 %	15	71.43 %
12		21.70	8.8	35.4	46.5	0.0	9.2	44.2	2.35	40	4	3	0	0	8	1	25.00 %	1	25.00 %

g. Impact / Outputs / Environment III: Benchmarking of UoA submissions

Summary of UoA submissions: **Quartiles**

Initially only your own HEI's results may be available on this screen as they will be released first to your institution. All other HEIs will be available following upload of the sector results.

The results on this screen compare the selected HEI's **Impact / Outputs / Environment** results against the comparative quartiles data published by Research England (which are only available UK-wide, therefore no comparator group selection is available). Where a value falls exactly on the point that divides one quartile from the next, the Tool puts this value into the quartile above. For example, if the median value is 45 and the selected HEI's value is 45, the Tool states the result as Q3. Note that Q1 = Lower Quartile and Q4 = Upper Quartile.

Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, except where it is your own institution.

REF2021 Results Analysis [Home](#) [Overall Results](#) [Output Results](#) [Impact Results](#) [Environment Results](#) [Settings](#) [Support](#)

Impact III: Benchmarking summary of UoA submissions [Applied Weightings & Thresholds](#) [Colour Legend](#)

☐ Benchmarking ☒ **Quartiles**

Select HEI [×](#)

Summary of UoA submissions: Quartiles

The results on this screen compare the selected HEI's Impact results against the comparative quartiles data published by Research England (which are only available UK-wide, therefore no comparator group selection is available). Where a value falls exactly on the point that divides one quartile from the next, the Tool puts this value into the quartile above. For example, if the median value is 45 and the selected HEI's value is 45, the Tool states the result as Q3. Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table. Note that Q1 = Lower Quartile and Q4 = Upper Quartile.

UoA	Multi Sub	Joint Sub	# Subs	4*	4*1/3*	4*1/3*2*	MAX		
03 Allied Health Professions, Dentistry, Nursing and Pharmacy			94	65.7	Q4	88.6	Q2	100.0	MAX
04 Psychology, Psychiatry and Neuroscience			82	26.7	Q3	46.7	Q1	100.0	MAX
09 Physics			41	40.0	Q3	90.0	Q3	100.0	MAX
10 Mathematical Sciences			53	0.0	Q2	40.0	Q1	100.0	MAX
11 Computer Science and Informatics			89	20.0	Q3	46.7	Q2	100.0	MAX
12 Engineering			62	33.3	Q3	90.0	Q4	100.0	MAX
16 Economics and Econometrics			28	0.0	MIN	86.7	Q3	100.0	MAX
17 Business and Management Studies			101	0.0	MIN	34.0	Q1	84.0	Q1
18 Law			67	0.0	Q3	40.0	Q2	80.0	Q1

Summary of UoA submissions: **Benchmarking**

This screen is only available following upload of the sector results

Summary of the positions of all submissions made by the selected HEI, across the Quality measures, for the **Impact / Outputs / Environment** results. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table.

REF2021 Results Analysis

HomeOverall ResultsOutput ResultsImpact ResultsEnvironment Results

SettingsSupport

Impact III: Benchmarking summary of UoA submissions

BenchmarkingQuartiles

Select HEI

Select Comparator group

UK

Summary of UoA submissions: Benchmarking

Summary of the positions of all submissions made by the selected HEI, across the Quality measures, for the Impact sub-profile. Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table.

QUALITY MEASURES

UoA	Multi Sub	Joint Sub	# Subs	% 4*	Rank	% 4*/3*	Rank	GPA	Rank	QI	Rank				
03 Allied Health Professions, Dentistry, Nursing and Pharmacy			94	65.7	20	Top 20	88.60	60	Not in top 50	3.54	25	Top 50	81	23	Top 50
04 Psychology, Psychiatry and Neuroscience			82	26.7	56	Not in top 50	46.70	67	Not in top 50	2.73	64	Not in top 50	51	65	Not in top 50
09 Physics			41	40.0	17	Top 20	90.00	15	Top 30	3.30	16	Top 20	71	17	Top 20
10 Mathematical Sciences			53	0.0	35	Top 50	40.00	45	Top 50	2.40	41	Top 50	38	43	Top 50
11 Computer Science and Informatics			89	20.0	39	Top 50	46.70	63	Not in top 50	2.67	53	Not in top 50	48	52	Not in top 50
12 Engineering			62	33.3	22	Top 50	90.00	15	Top 30	3.23	20	Top 20	68	20	Top 20
16 Economics and Econometrics			28	0.0	22	Top 50	86.70	11	Top 20	2.87	16	Top 20	52	17	Top 20

h. Impact / Outputs / Environment IV: UoA results

This screen is only available following upload of the sector results.

Note that where Joint Submissions have been made, the number of Case Studies in the **Impact** screens may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission (as would have been submitted to Research England).

Summary of UoA Impact / Outputs / Environment results

Summary of the **Impact / Outputs / Environment** results within the selected UoA, showing the averages (arithmetic means), weighted averages, and total values. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

REF2021 Results Analysis [Home](#) [Overall Results](#) [Output Results](#) [Impact Results](#) [Environment Results](#) [Settings](#) [Support](#)

Impact IV: UoA Results [Applied Weightings & Thresholds](#) [Colour Legend](#)

Select UoA
9: Physics

Summary of all submissions to UoA: Impact results

Summary of the Impact results within the selected UoA, showing the averages (arithmetic means), weighted averages (see Home screen for definition), and total values.
Sub-profiles for any submission whose headcount of submitted staff (Category A plus Category C) is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

UoA 9 Impact summary	Cat A FTE	4*	3*	2*	1*	U/C	4/3*	GPA	QI	# Subs	# Mult Subs	# Joint Subs	# Submitting HEIs	# Published SubProfiles	# Case Studies
Averages	41.55	31.7	45.3	19.8	2.2	1.0	77.0	3.05	62	-	-	-	-	-	4
Weighted Averages	-	37.0	46.5	15.1	1.1	0.2	83.5	3.19	67	-	-	-	-	-	-
Totals	1,703.63	-	-	-	-	-	-	-	-	41	0	2	41	41	159

[Export Table data into Excel](#)

Summary of UoA Impact / Outputs / Environment institutional benchmarking

Summary of the selected HEI's **Impact / Outputs / Environment** outcomes within the UoA, showing selected results and rankings. Benchmarking within each comparator group are displayed for each measure. The comparator groups displayed are all those to which the selected HEI belongs. You can choose whether to view the results with multiple submissions either separated or combined into a single submission. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). Note that in order to be able to combine multiple submissions (in this table and the next), and select a comparator group for the next table, you must first select an HEI.

Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table.

REF2021 Results Analysis

[Home](#) [Overall Results](#) [Output Results](#) [Impact Results](#) [Environment Results](#)[Settings](#) [Support](#)[Export Table data into Excel](#)

Summary of UoA Institutional Impact benchmarking

Select HEI

Multiple Submission

X

☒ Separate ☐ Combine

Summary of the selected HEI's impact outcomes within the UoA, showing selected results, benchmarking, and market share. Rank within each comparator group are displayed for each measure, as is market share. The comparator groups displayed are all those to which the selected HEI belongs. You can choose whether to view the results with multiple submissions defined, or combined into a single submission. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant).

Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

	# Submissions	% 4*	% 4/3*	GPA	QI	# Case Studies
Values		40.0	90.0	3.30	71	3
England	32	11	10	10	11	
KEF X	12	4	5	4	5	
Pre 92	36	17	15	16	17	
South East	7	4	3	3	3	
UK	41	17	15	16	17	17

[Export Table data into Excel](#)

UoA Impact / Outputs / Environment results and benchmarking

Impact / Outputs / Environment results for all submissions to the selected UoA within the selected comparator group (in order for you to be able to select a comparator group, you must first select an HEI in the table above). Multiple submissions are either separated or combined, as per the selection above. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). The HEI selected above is highlighted. Each column can be selected in order to present the results in the desired rank order. Sub-profiles for any submission whose headcount of submitted staff is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions.

REF2021 Results Analysis

[Home](#) [Overall Results](#) [Output Results](#) [Impact Results](#) [Environment Results](#)[Settings](#) [Support](#)[Export Table data into Excel](#)

UoA Impact results and benchmarking

UK

Impact results for all submissions to the selected UoA within the selected comparator group. Multiple submissions are defined / combined, as per the selection above. When combined, the weighted average (see Home screen for definition) values are provided (wherever relevant). The HEI selected above is highlighted. Each column can be selected in order to present the results in the desired rank order.

Sub-profiles for any submission whose headcount of submitted staff (Category A) is three or fewer have not been published and are not included in the results presented in this table, nor are the Cat A FTEs relating to these small submissions. Note that where Joint Submissions have been made, the number of Case Studies may be overstated as this calculation is made based on the Cat A FTE submitted by each partner HEI, not by the Joint Submission as a single submission.

Rank	HEI	UoA	Multiple Submission	Joint Submission	Cat A FTE	4*	3*	2*	1*	UIC	4/3*	GPA	QI	# Case Studies
1		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			11.30	20.0	80.0	0.0	0.0	0.0	100.0	3.20	65	2
2		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			56.80	55.7	38.6	5.7	0.0	0.0	94.3	3.50	79	5
3		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			12.00	20.0	80.0	0.0	0.0	0.0	100.0	3.20	65	2
4		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			12.10	20.0	80.0	0.0	0.0	0.0	100.0	3.20	65	2
5		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			21.40	0.0	63.3	36.7	0.0	0.0	63.3	2.63	45	3
6		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			50.60	13.3	33.4	53.3	0.0	0.0	46.7	2.60	45	5
7		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			7.10	0.0	20.0	80.0	0.0	0.0	20.0	2.20	31	2
8		03: Allied Health Professions, Dentistry, Nursing and Pharmacy			13.90	0.0	90.0	10.0	0.0	0.0	90.0	2.90	53	2