



Ministry  
of Defence

**Analysis (Expenditure)**  
**Ministry of Defence**  
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FOI2023/03616  
[REDACTED]

20/03/2023

Dear [REDACTED],

Thank you for your email of 08/03/2023 requesting the following information:

“The request for information is for UK MOD expenditure broken down by a) TRL level by b) intra- and extra-mural expenditure and c) by year. It may not matter if there is no intra-/extra- mural split.”

Following further correspondence detailing R&D figures available in the [ONS publication on R&D expenditure in UK Government](#) you requested the following on 09/03/2023:

“As I understand it, the tables, while very comprehensive, do not show how the intra-mural or extra mural expenditure is broken down by Frascati category, in effect the cross tabulation by place of performance by Frascati type. The MOD expenditure is split by performance [Worksheet 9] and by Frascati category [worksheet 10] with Worksheet 12 helpfully indicating intra-and extra defence expenditure. There is however now means of knowing from the data jus now much of the intra and how much of the extra is at which Frascati level.

Would there be any way of finding this or inferring this from elsewhere?”

We are treating your correspondence as a request for information under the Freedom of Information Act 2000 (FOIA).

We have now completed a search for the information you requested, and I can confirm that all information in scope of your request is held.

The requested data is collected annually for reporting to the ONS the data required for their publications. The data has been collated for the last ten years and is provided in the accompanying spreadsheet.

If you have any queries regarding the content of this letter, please contact this office in the first instance.

If you wish to complain about the handling of your request, or the content of this response, you can request an independent internal review by contacting the Information Rights Compliance team, Ground Floor, MOD Main Building, Whitehall, SW1A 2HB (e-mail CIO-FOI-IR@mod.gov.uk). Please note that any request for an internal review should be made within 40 working days of the date of this response.

If you remain dissatisfied following an internal review, you may raise your complaint directly to the Information Commissioner under the provisions of Section 50 of the Freedom of Information Act. Please note that the Information Commissioner will not normally investigate your case until the MOD internal

review process has been completed. The Information Commissioner can be contacted at: Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. Further details of the role and powers of the Information Commissioner can be found on the Commissioner's website.

Yours sincerely,

Analysis (Expenditure)

## MOD Research and Development Expenditure Outturn

This worksheet contains one table.

Some shorthand is used in the table below, [b] = break in series. Acronyms used are R&D = Research and Development.

Source: Analysis Directorate (Analysis-Expenditure Team)

**Table 1: MOD Expenditure on Research and Development by Frascati category**

Financial Year	Frascati Type	Performance Area	Gross Expenditure (£ million)	Net Expenditure (£ million) [note 2]
2021/22	Basic Research	Intramural	0	0
2021/22	Basic Research	Extramural	18	18
2021/22	Strategic-applied research	Intramural	125	125
2021/22	Strategic-applied research	Extramural	595	575
2021/22	Specific-applied research	Intramural	167	167
2021/22	Specific-applied research	Extramural	272	272
2021/22	Experimental Development	Intramural	241	210
2021/22	Experimental Development	Extramural	498	469
2020/21	Basic Research	Intramural	0	0
2020/21	Basic Research	Extramural	0	0
2020/21	Strategic-applied research	Intramural	51	51
2020/21	Strategic-applied research	Extramural	311	311
2020/21	Specific-applied research	Intramural	195	195
2020/21	Specific-applied research	Extramural	363	363
2020/21	Experimental Development	Intramural	54	14
2020/21	Experimental Development	Extramural	155	132
2019/20	Basic Research	Intramural	0	0
2019/20	Basic Research	Extramural	0	0
2019/20	Strategic-applied research	Intramural	2	2
2019/20	Strategic-applied research	Extramural	103	103
2019/20	Specific-applied research	Intramural	114	114
2019/20	Specific-applied research	Extramural	428	428
2019/20	Experimental Development	Intramural	54	18
2019/20	Experimental Development	Extramural	373	352
2018/19 [b] [note 1]	Basic Research	Intramural	0	0
2018/19 [b] [note 1]	Basic Research	Extramural	0	0
2018/19 [b] [note 1]	Strategic-applied research	Intramural	5	5
2018/19 [b] [note 1]	Strategic-applied research	Extramural	103	103
2018/19 [b] [note 1]	Specific-applied research	Intramural	110	110
2018/19 [b] [note 1]	Specific-applied research	Extramural	328	328
2018/19 [b] [note 1]	Experimental Development	Intramural	52	9
2018/19 [b] [note 1]	Experimental Development	Extramural	1112	1092
2017/18	Basic Research	Intramural	0	0
2017/18	Basic Research	Extramural	0	0
2017/18	Strategic-applied research	Intramural	7	7
2017/18	Strategic-applied research	Extramural	112	112
2017/18	Specific-applied research	Intramural	104	104
2017/18	Specific-applied research	Extramural	331	331
2017/18	Experimental Development	Intramural	42	12
2017/18	Experimental Development	Extramural	1082	1069
2016/17	Basic Research	Intramural	0	0
2016/17	Basic Research	Extramural	0	0
2016/17	Strategic-applied research	Intramural	8	8
2016/17	Strategic-applied research	Extramural	135	135
2016/17	Specific-applied research	Intramural	109	109
2016/17	Specific-applied research	Extramural	354	354
2016/17	Experimental Development	Intramural	39	10
2016/17	Experimental Development	Extramural	1024	1009
2015/16	Basic Research	Intramural	0	0
2015/16	Basic Research	Extramural	0	0
2015/16	Strategic-applied research	Intramural	15	15
2015/16	Strategic-applied research	Extramural	106	106
2015/16	Specific-applied research	Intramural	111	111
2015/16	Specific-applied research	Extramural	373	373
2015/16	Experimental Development	Intramural	39	10
2015/16	Experimental Development	Extramural	1039	1022
2014/15	Basic Research	Intramural	0	0
2014/15	Basic Research	Extramural	0	0
2014/15	Strategic-applied research	Intramural	6	6
2014/15	Strategic-applied research	Extramural	95	95
2014/15	Specific-applied research	Intramural	107	107
2014/15	Specific-applied research	Extramural	409	409
2014/15	Experimental Development	Intramural	45	17
2014/15	Experimental Development	Extramural	1088	1070
2013/14	Basic Research	Intramural	0	0
2013/14	Basic Research	Extramural	0	0
2013/14	Strategic-applied research	Intramural	8	8
2013/14	Strategic-applied research	Extramural	81	81
2013/14	Specific-applied research	Intramural	103	103

2013/14	Specific-applied research	Extramural	394	394
2013/14	Experimental Development	Intramural	53	26
2013/14	Experimental Development	Extramural	921	905
2012/13	Basic Research	Intramural	0	0
2012/13	Basic Research	Extramural	0	0
2012/13	Strategic-applied research	Intramural	1	1
2012/13	Strategic-applied research	Extramural	58	58
2012/13	Specific-applied research	Intramural	100	100
2012/13	Specific-applied research	Extramural	406	406
2012/13	Experimental Development	Intramural	49	22
2012/13	Experimental Development	Extramural	890	873

Note 1

A break in series applies to R&D due to a methodology change around the classification of Frascati R&D. As such, MOD R&D data prior to 2018/19 should not be used in comparison with later years. Further details can be found in the Departmental Resources Background Quality Report.

Note 2

Net expenditure excludes R&D expenditure funded through receipts received by MOD and its Trading Funds, for example from other government departments and private industry. This money is not necessarily spent on defence related R&D.

[MOD Departmental Resources: 2022 Index Page](https://www.gov.uk/government/statistics/defence-departmental-resources-2022)  
<https://www.gov.uk/government/statistics/defence-departmental-resources-2022>