

Evaluation of the Global Challenges Research Fund: Assessment of Research Quality, Positioning for Use and Results

Synthesis of the evidence from the assessment of Research Quality plus Positioning for Use plus Results (RQ++) of GCRF awards

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Contents

Contents	3
Annex 1: GCRF Theory of Change	4
Annex 2: Research Quality++ assessment instrument and rubric	5
Annex 3: Strategic and policy context for GCRF 2022–23 (full version)	33
Annex 4: Bibliometric technical note	37
Annex 5: Sampling strategy	38

Annex 1: GCRF Theory of Change



Annex 2: Research Quality++ assessment instrument and rubric

The full RQ++ Assessment Instrument, including purpose and rationale and full guidance for conducting an assessment, can be found in this pdf. The rubric and guide used to make each assessment are included below.



GCRF Research Quality Plus Plus Assessment Template

This template should be used to make an assessment of each award.

Project information	
Grant ID/ref. number	
Project title	
Countries	
Institutions	
Location of principal investigator	
Brief description of project	Please include one brief paragraph

RQ++ assessment summary

When you have completed the whole assessment, please complete this table, giving an overview of the ratings.

Contextual factor	Rating	Strength of evidence
Maturity of the research and innovation field		

Organisational research and innovation environment		
Operating environment		
Data environment		
Dimension 1: Scientific Rigour	Rating	Strength of evidence
1.2 Methodological integrity		
Dimension 2: Research Legitimacy	Rating	Strength of evidence
2.1 Mutuality in partnership		
2.2 Fairness		
2.3 Equity, diversity and inclusion		
2.4 Addressing potentially negative consequences		
Dimension 3: Research Importance	Rating	Strength of evidence
3.1 Originality		
3.2 Relevance		
Dimension 4: Positioning for Use	Rating	Strength of evidence
4.1 Knowledge accessibility & sharing		
4.2 Actionability and timeliness		
Dimension 5: Research and Innovation Results	Rating	Strength of evidence
5.1 High-quality research		
5.2 Sustainable partnerships		
5.3 Enhanced capabilities		
5.4 Networks for use		

Contextual factors

Maturity of the research an	d innovation field		
1. Mature field	2. Established field	3. Emerging field	4. New field
 Well-established and recognised theoretical and conceptual frameworks in use A substantial body of conceptual and empirical research or innovation Discernible knowledge- sharing outlets (journals, conferences, curriculum) A vibrant community of experienced researchers/innovators 	 Theoretical and conceptual frameworks are in development but generally recognised A body of conceptual and empirical research/innovation that reflects significant growth Discernible knowledge-sharing outlets (journals, conferences, curriculum) An ample community of active researchers/innovators who easily associate with the field and who are connected to each other 	 Theoretical and conceptual frameworks gradually being recognised and still debated A growing but not ample body of conceptual and empirical research/innovation Discernible knowledge-sharing outlets are emerging An emerging group of active researchers/innovators associate naturally with the field and are starting to connect to each other 	 Very limited theoretical or conceptual frameworks are being debated or are rapidly changing and largely unrecognised Scarce empirical or theoretical body of research/innovation Few dedicated journals or academic programmes Few active researchers/innovators are seeking to be recognised and connected
Assessment: Select one of the options below.			
Mature	Established	Emerging	New

Comment: Give brief rationale for choice, outlining the data sources used.				
Strength of evidence: Select one of the options below.				
Strong evidence Some evidence Limited evidence No evidence				
Comment: Give brief rationale for choice				

Data environment			
1. Flourishing	2. Developed	3. Limited	4. Weak
 Instrumentation and measures for data collection and analysis are widely agreed upon and available Body of data is well developed, stable and with significant open data resources 	 The necessary instrumentation and measures for data collection and analysis are generally available Body of data has reasonable availability and is generally credible 	 Few instruments and measures for data collection and analysis are available Limited quantities of data and/or some credibility gaps 	 Instrumentation and measures for data collection and analysis are generally unavailable Data scarcity, with lack of credibility Data sources are scarce
- Abundance of national and international data sources	- Diversity of international data sources, but few at the national level	- Few national and international data sources	

Assessment: Select one of the options below.

Flourishing	Developed	Limited	Weak		
Comment: Give brief rationale for choice, outlining the data sources used.					
Strength of evidence: Select one of the options below.					
Strong evidence Some evidence Limited evidence No evidence					
Comment: Give brief rationale for choice					

Organisational research and innovation environment				
1. Empowering	2. Supportive	3. Unsupportive	4. Restrictive	
Research/innovation environment (organisational priorities, infrastructure, norms, incentives, etc. related to research) is fully established and enabling for researchers	Research/innovation environment is well developed and generally supports researchers with their needs	Research/innovation is not an organisational priority, but the organisation tends to comply with acquired commitments or external requests	Research/innovation environment is weak or largely under-developed, not supportive of researchers, or possibly even works against them	
Assessment: Select one of the options below.				
Empowering	Supportive	Unsupportive	Restrictive	

Comment: Give brief rationale for choice, outlining the data sources used.				
Strength of evidence: Select one of the options below.				
Strong evidence Some evidence Limited evidence No evidence				
Comment: <i>Give brief rationale for choice</i>				

Operating environment			
1. Stable	2. Moderately stable	3. Unstable	4. Volatile
Stable operating environment, with solid governance practices, lack of significant social conflicts, and no personal risks to researchers/innovators	Generally stable operating environment, with established governance practices, no unusual major social conflicts, and no personal risks to researchers/innovators	Operating environment features some levels of instability and recurrent change, some major social conflicts, and minor risks to researchers/innovators	Very unstable or unpredictable operating environment, with weak governance practices, social conflict, and/or potentially significant risks to researchers/innovators
Assessment: Select one of the options below.			
Stable	Moderately stable	Unstable	Volatile
Comment: Give brief rationale for choice, outlining the data sources used.			

Strength of evidence: Select one of the options below.				
Strong evidence Some evidence Limited evidence No evidence				
Comment: Give brief rationale for choice				

Dimension 1: scientific rigour

SUBDIMENSION 1.2: METHODOLOGICAL INTEGRITY (implementation)

Unacceptable		Less than acceptable		Acceptable/Go	od	Very good	
1	2	3	4	5	6	7	8
problem. The r presented inac	vation needs questions). vas deeply isions are infounded by bear little ie development results are ccurately. The did not exhibit	analysis perfor important aspe unexamined. S conclusions ar consistent (with hypothesis, etc little value. The	ome gaps. The med left some ects Some e not h data, c.) or present e presentation ls improvement tion. The	Data and inform collected were analysis was a overall. Conclu- useful, pertinent to the data and The presentation overall satisfact improvement m work exhibited consistency.	sufficient. The dequate sions are nt and linkable l evidence. on of results is story, with little needed. The	Data and inform collected cover research/innow objectives and in other studies was comprehe matched to the Conclusions and objectives and potential to stim debate and/or results are pre	red all vation could be used s. The analysis ensive and well e questions. re relevant to have the mulate further action. The

	research left some important gaps.		accurately and are clear to the intended user. The work exhibited a clear/precise logical consistency.					
Assessment: Select one of the options below.								
Unacceptable	Less than acceptable	Acceptable/Good	Very good					
Comment: Give brief rationale	for choice, outlining the data so	urces used.	<u>'</u>					
Strength of evidence for dimen	ision 1 overall: Select one of the	options below.						
Strong evidence Some evidence Limited evidence No evidence								
Comment: <i>Give brief rationale for choice.</i>								

* Logical consistency of implementation establishes a clear path connecting objectives, hypothesis/questions, data collected, findings and conclusions.

Dimension 2: research and innovation legitimacy

SUBDIMENSION 2.1: MUTUALITY IN PARTNERSHIP

Insufficient information to assess	Unacceptab	le	Less than acceptable A		Acceptable/Good		Very good	
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	were not mu partners der little or no e	hip were ed. Benefits ıtual. The	the partners negotiated i transparent equitable m a degree of	n a and anner, with clarity and gnition over nt roles, ties, and ing. ere d over the artnership, re not addressed. of are to a limited	and mutual of managen capacities, r responsibilit benefit shar freely agree partners. Of knowledge a considered taken into a	was n a and anner, with ree of clarity recognition nent roles, ies and ing, and d by the ther forms of are and usually ccount. crue to most ructures ses to partnership were largely d	the partners negotiated transparent equitable m a high degr and mutual over manag capacities, responsibili Evidence of of benefits, outcomes, a agreed by a Evidence of co-design, y forms of kn taken into a	in a and anner, with ee of clarity recognition gement roles and ties. I fair sharing costs and and freely all partners. I significant where all owledge are account. arly accrued ers. and o sustain ship

				and benefits were mutual.		effectively implemented, and there is evidence of benefits to all partners.	
Assessment: Select one	of the options below.						
IIA	Unacceptable	Less than a	Less than acceptable Acceptable/Good			Very good	
Comment: Give brief rati	ionale for choice, outlin	ing the data sour	ces used.				
Strength of evidence for	subdimension 2.1: Sel	ect one of the op	tions below.				
Strong evidence Some evidence Limited evidence No evidence							
Comment: Give brief rati	ionale for choice.						

SUBDIMENSION 2.2: FAIRNESS								
Insufficient information to assess	Unacceptab	le	Less than a	cceptable	Acceptable/	Good	Very good	
IIA	1	2	3	4	5	6	7	8

Not enough information available to make a credible assessment.	Engagement with appropriate contexts has been neglected during the research process. Several major weaknesses can be found, related to how research/project needs and questions were identified, partners, communities, stakeholders or populations engaged, effects of the project on contexts and knowledge systems considered, and fair benefit sharing from the research process assured.	Contexts and engagement have been considered during the research process, but some weaknesses remain related to how research needs and questions were identified, partners, communities, stakeholders or populations were engaged, effects of the project on contexts and knowledge systems were considered, and/or fair benefit sharing from the research process was assured.	Context and engagement have been appropriately considered in the research process. Few, if any, minor weaknesses remain related to how research needs and questions were identified, partners, communities, stakeholders or populations were engaged, effects of the project on contexts and knowledge systems were considered, or fair benefit sharing from the research process was assured.	Context and engagement have been carefully and systematically considered in the research/innovation process. Research needs and questions were clearly identified, partners, communities, stakeholders or populations were effectively engaged, contexts and knowledge systems were considered and respected, and fair benefit sharing from the research process was assured.
Assessment: Select one	of the options below.			
IIA	Unacceptable	Less than acceptable	Acceptable/Good	Very good
	onale for choice, outlining subdimension 2.2: Select o		1	

Strong evidence	Some evidence	Limited evidence	No evidence
Comment: Give brief rationale f	for choice.		

SUBDIMENSION 2.3: E	QUITY, DIVE	RSITY AND	INCLUSION					
Insufficient information to assess	Unacceptable I		Less than acceptable		Acceptable/Good		Very Good	
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	EDI issues v considered i implementar research/inr Data on ED collected. Representar balance with teams was r considered.	in design or tion of the novation. I was not tional nin project	EDI was con a degree but an operative the design a implementa disaggregat balanced te features, but limited cons EDI in imple beyond this	at was not e concept in and tion. Data ion and ams were t there was ideration of ementation	EDI was con the project's and is addre project designed methodolog aspects of it or implement be improved data disagg EDI conside present in the questions, me analytical fra and approace sharing find	a rationale essed in the gn and y, but some in design ntation could d. Beyond regation, erations are ne nethods, ameworks ches to	All relevant were fully co throughout and adapted necessary co implementa Beyond data disaggregat issues are w represented research/inr questions, r analytical fra and approar	onsidered the project d as during tion. a tion, the vell d in the novation methods, ameworks ches to

					and after comple the work.	etion of
Assessment: Select one	of the options below.			1		
IIA	Unacceptable	Less than a	Very good			
Comment: Give brief rat	ionale for choice, outlin	ning the data sour	ces used.	1		
Strength of evidence for	subdimension 2.3: Se	lect one of the op	tions below.			
Strong evidence	Some evidence	ce	Limited evid	dence	No evidence	
Comment: Give brief rat	ionale for choice.					

SUBDIMENSION 2.4: ADDRESSING POTENTIALLY NEGATIVE CONSEQUENCES AND OUTCOMES FOR AFFECTED POPULATIONS								
Insufficient information to assess	Unacceptab	le	Less than a	cceptable	Acceptable/	Good	Very good	
IIA	1	2	3	4	5	6	7	8

Not enough information	There has been no	The	The	Appropriate and timely
available to make a	apparent effort to	research/innovation	research/innovation	measures have been
credible assessment.	address what could be	was sensitive to this	was sensitive to this	taken to eliminate or
	serious negative	issue. Some efforts	issue. Appropriate and	mitigate foreseeable
	consequences from the	were made to address	timely measures have	negative consequences
	process or results. The	what could turn into	been taken in almost all	or outcomes. There
	researchers appear to	negative consequences	instances to eradicate	was a systematic effort
	have been insensitive	or outcomes, but they	or mitigate foreseeable	by the team to mitigate
	to this aspect of the	were not as	negative consequences	negative consequences
	work.	comprehensive or	or outcomes of the	and outcomes.
		thorough as they should	work. Measures have	Measures have been
		have been. Informed	been taken to ensure	taken to ensure
		consent was not	compliance with the	participants' free, prior
		adequately assured,	free, prior and informed	and informed consent
		and coercion of	consent processes and	and to ensure their
		vulnerable populations	privacy of participants	privacy. There are no
		was not adequately	and to address	signs of coercion of a
		avoided.	potential negative risks	vulnerable person,
			to the environment.	community or
			There is no sign of	population. Measures
			coercion of a vulnerable	were put in place to
			person, community or	address unanticipated
			population.	consequences for
				individuals as well as
				the environment.

IIA	Unacceptable	Less than acceptable	Acceptable/Good Very good					
Comment: Give brief rationale for choice.								
Strength of evidence for s	subdimension 2.4: Select of	one of the options below.						
Strong evidence	Some evidence	Limited ev	idence No	evidence				
Comment: Give brief ratio	onale for choice.							

Dimension 3: research/innovation importance

SUBDIMENSION 3.1: O	RIGINALITY							
Insufficient information to assess	Unacceptab	le	Less than a	cceptable	Acceptable/	Good	Very good	
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	The research/inr fails to build extend exist knowledge. break new g	l on and ting It does not	The researce innovation n adds to wha known in the research is innovative a	narginally at is already e field. The not	The researce innovation p fresh ideas, innovative a solving exis challenges,	brings an pproach to ting	The research/inr innovative a groundbrea builds on ex knowledge	and king. It kisting

	make impro existing tecl and/or meth	hnologies	well connec is already k		deals with a new, emerging issue wo pursuing. It challer taken-for-granted assumptions, build existing knowledge and is well connect to what is already known.	nges Is on e,	substantive way, making significant advancements to technologies and techniques.	
Assessment: Select one	of the option	s below.						
IIA	Unacceptab	ble	Less than a	cceptable	Acceptable/Good		Very good	
Comment: Give brief ration	onale for cho	ice, outlining	the data sour	ces used.				
Strength of evidence for	subdimensio	n 3.1: <i>Select</i> (one of the op	tions below.				-
Strong evidence	Some	e evidence	Limited evic		lence No		vidence	-
Comment: Give brief ration	onale for cho	ice.		1				

SUBDIMENSION 3.2: RELEVANCE

Insufficient information to assess	Unacceptat	cceptable Less than acceptable		Acceptable/Good		Very good		
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	key develop priority or an area that m solutions in foreseeable Justification work is abso unconvincin	ntribute to a ment n emerging ight demand the future. for the ent or ig. No to theory or	The research/innovation makes little contribution to a key development priority or an emerging area that might demand solutions in the foreseeable future. A justification for this area of work is not well substantiated. Little contribution is made to theory or practice (VfM is not evident).		5 6 The research/innovation contributes to a key development priority, or an emerging area of some significance that might demand solutions in the near future. This area of work is justified. The research advances new or existing theory or practice in important ways.		7 o The research/innovation makes an important contribution towards a key development priority, or an important emerging area that is highly likely to demand solutions in the near future. The work makes significant contributions to theory or practice. This area of work is we justified.	
Assessment: Select one	of the options	s below.						
IIA	Unacceptat	le	Less than a	cceptable	Acceptable	'Good	Very good	

Strength of evidence for subdim	nension 3.2: Select one of the op	tions below.	
Strong evidence	Some evidence	Limited evidence	No evidence
Comment: Give brief rationale f	or choice.		

Dimension 4: positioning for use

SUBDIMENSION 4.1: K	NOWLEDGE	ACCESSIBI	LITY AND SI	HARING					
Insufficient information to assess	Unacceptab	nacceptable I		Less than acceptable		Acceptable/Good		Very good	
IIA	1	2	3	4	5	6	7	8	
Not enough information available to make a credible assessment	The research/inr was not initi conducted v mind; there evidence of understandi context(s) w the results a be used; no seen of stak	ated and vith use in is no ng of the vithin which are likely to evidence is	There was i effort to ma understand engagemen stakeholder potential us and limited engagemen understandi larger conte which they	p, and it s or key er groups, it with ing the ext within	The project mapped, un and engage stakeholder potential us Researcher have a cred understandi context with key potentia groups ope	derstood s and er groups. s appear to ible ng of the in which al users/user	The researce initiated and with use in r with an emp engaging w contexts of users. The r included sophisticate differentiate stakeholder	l conducted mind and bhasis on ith the potential research ed/highly d	

b e r a t t s a u k t	napping. There has been no attention or engagement to making esearch findings available in formats and hrough mechanisms suited to well-targeted audience(s). Potential users will struggle to anow about and access hese knowledge products.	Insufficient atte has been paid making researc findings availab appropriate for through approp mechanisms to targeted potent groups.	to ch ole in mats and priate well-	Research findings made available to different potential u groups in user-frier formats.	ıser	and engagement. Research findings were appropriately available to well-targeted and influential potential user groups in highly accessible and user- friendly formats. Mechanisms for use have been explored.
Assessment: Select one of	the options below.					
IIA L	Jnacceptable	Less than acce	ptable	Acceptable/Good		Very good
Comment: Give brief ration	ale for choice, outlining	the data sources	s used.			
Strength of evidence for su	bdimension 4.1: Select of	one of the option	s below.			
Strong evidence	Some evidence	Li	mited evid	ence	No ev	idence
Comment: Give brief ration	ale for choice.					

Insufficient information to assess	Unacceptab	le	Less than acceptable		Acceptable/Good		Very good	
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	user enviror including ins political, soc economic contingencie to support u inadequate, team was ne	t analysis of ment, stitutional, cial or es. The plan se was and the ot co emergent	There is evi some analysuser setting undertaken; consideration incomplete a adequately translation of user groups strategies of move the kripolicy or pra- weak, unrest and not fine	sis of the was however, on was and did not inform the of R&I to . The r plans to nowledge to actice were sponsive	There is evi the user en- and major contingenci- been exami reflected up connected t and plans for the R&I into practice in a and timely r	vironment es have ned and on and o strategies or moving policy or an effective	environmen contingencie exceptional well-articula dynamic. Th evidence of prospective the likelihoo success of s designed to contingencie could respo emerging of for influence thoughtful tr	es is ly thorough, ited and nere is careful appraisal of od of strategies address es. The R&I nd to

Assessment: Select one of the options below.

IIA	Unacceptable	Less than acceptable	Acceptable/Good	Very good	
Comment: Give brief i	rationale for choice, outlin	ing the data sources used.			
Strength of evidence f	or subdimension 4.2: <i>Sel</i>	ect one of the options below			
Strong evidence	Some evidence	e Limited ev	vidence	No evidence	
Comment: Give brief I	rationale for choice.			<u> </u>	

Dimension 5: research and innovation results

SUBDIMENSION 5.1: H	IGH-QUALIT	Y RESEARC	H AND INNO	VATION					
Insufficient information to assess	Unacceptat	Unacceptable		Less than acceptable		Acceptable/Good		Very good	
IIA	1	2	3	4	5	6	7	8	
Not enough information available to make a credible assessment.	The researd carried out interdisciplin lens, where have been h the challeng	with an nary team or this would peneficial to	The research/inr included min representati disciplines t have been r	nimal ion of the hat should	The research/in was carried appropriate interdisciplii produced se	out by an nary team. It	The research/in was carried strong inter- team. It pro important ne	out by a disciplinary vided	

	addressed, and did not provide new insights or advance the field. The research or innovation was not deemed acceptable in the first four dimensions of RQ++. There is little to no likelihood of solutions to significant development challenges emerging.	to address t developmen The research/inn received 'Le acceptable' at least two four dimens RQ++. Any although po novel, were presented a not be effec for policy, pr product or s developmen	at challenge. novation ess than ratings on of the first ions of insights, tentially poorly nd could tively used ractice, ervice	insights and knowl in at least one of p practice, product o service developme These were presen in a manner(s) suit to most key audier The research/innovatio demonstrated acceptable quality the first four dimen of RQ++.	olicy, r ent. nted table nces. n	and knowledge for translation into policies, practices, products, or services. It produces policies, practices, products or services of value and potential use by the intended stakeholders. The research/innovation achieves 'Very good' ratings in dimensions 1–4 of RQ++.
Assessment: Select one	of the options below.					
IIA	Unacceptable	Less than a	cceptable	Acceptable/Good		Very good
Comment: Give brief ration	onale for choice, outlining	the data sour	ces used.	1		
Strength of evidence for	subdimension 5.1: Select	one of the op	tions below.			
Strong evidence	Some evidence		Limited evid	lence	No ev	vidence

Comment: *Give brief rationale for choice*.

SUBDIMENSION 5.2: SI	USTAINABLI		SHIPS					
Insufficient information to assess	Unacceptab	le	Less than a	cceptable	Acceptable/Good		Very good	
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	The teams we unsuccessful developing partnerships	ul in R&I	Some globa partnerships established, were very lin scale and so are unlikely past comple project, or a pre-existing partnerships challenge ca broader dial exchange.	s were , but these mited in cope and to continue etion of the tre limited to s when the alls for a	Global inter R&I partner established successfully many of the stakeholder some effort collaboratio show poten continue to value beyor of the project terms of pol products to developmer challenge).	ships were y, including key s. With to sustain n, these tial to provide nd the end ct (i.e. in icies and/or address a	engagemen	ships were y, with broad it across ciplines and s and with portant t They show hise for ty and seek ontinue

Assessment. Select 0	ne of the options below.				
IIA	Unacceptable	Less than acceptable	Acceptable/Good	Very good	
Comment: Give brief I	rationale for choice.	I		I	
Strength of evidence f	or subdimension 5.2: Se	elect one of the options below.			
Strong evidence	Some eviden	ce Limited evi	dence	No evidence	
Comment: Give brief I	ationale for choice.		I		

SUBDIMENSION 5.3: ENHANCED CAPABILITIES								
Insufficient information to assess	Unacceptable Less than acceptable Acceptable/Good Very good							
IIA	1	2	3	4	5	6	7	8
Not enough information available to make a credible assessment.	The research/innovation did not lead to improvements in capabilities for research and innovation among		Attention to improving research and innovation capabilities was inadequate, although some minimal improvement of skills		Attention to research and innovation capabilities enhancement was present in the design and many of the		There was e planning for implementa activities to capabilities; clear evider	and tion of enhance there is

	UK or national/	and/or infrastructures	activities of the project.	enhanced capabilities
	regional/ local	can be observed	Evidence of enhanced	across the partnership
	stakeholders to drive	among UK and	capabilities is evident in	and with national/
	practice or policy	national/ regional/local	some partners and UK	regional/local
	change. Stakeholders	stakeholders to drive	and LMIC	stakeholders to lead
	continue to lack access	practice or policy	national/regional/ local	adoption of practice or
	to managerial ability,	change.	stakeholders to lead	policy change. There is
	financial, technological		adoption of practice or	good evidence of
	and information		policy change, but	durable improvements
	resources and/or		some gaps remain.	in institutional capacity,
	political influence		There is some evidence	for example: increased
	required to bring about		of improvements in	knowledge and skills;
	change.		institutional capacity,	improved
			for example: increased	communication
			knowledge and skills;	between organisations;
			improved	greater community
			communication	engagement with
			between organisations;	decision making;
			greater community	measurement,
			engagement with	standards and targets;
			decision making.	improved capacity to
				secure funding
				resources.
Assessment: Select one	of the options below.			
	-	1		
IIA	Unacceptable	Less than acceptable	Acceptable/Good	Very good

Comment: Give brief rationale for choice, outlining the data sources used.								
Strength of evidence for subdimension 5.3: Select one of the options below.								
Strong evidence Some evidence Limited evidence No evidence								
Comment: Give brief rat	Comment: <i>Give brief rationale for choice.</i>							

SUBDIMENSION 5.4: NETWORKS FOR USE								
Insufficient information to assess	Unacceptable Less than acceptable			Acceptable/Good Very good				
IIA	1	2	3	4	5	6	7	8

Not enough information available to make a credible assessment.	There is no evidence that stakeholders external to the research process have engaged with R&I process or outputs. It is highly unlikely that results will make a contribution to addressing a development challenge.	There is limited evidence that stakeholders external to the research process have engaged with R&I process and outputs. Potential for use of the results remains very low.	Stakeholders from limited range of backgrounds have engaged in network develop next steps replication strategie and/or implementar plans. There is evidence that some the sought-after res are beginning to emerge in ways that could be used in policies, practices, products or service	relevant backgrounds have engaged in networks to develop next steps, replication strategies and/or tion implementation plans. There is strong e of evidence of progress in achieving the intended results of the R&I at activities.
Assessment: Select one	of the options below.			
IIA	Unacceptable	Less than acceptable	Acceptable/Good	Very good
Comment: Give brief rati	ionale for choice, outlining	the data sources used.		
Strength of evidence for	subdimension 5.4: Select	one of the options below.		
Strong evidence Some evidence		Limited evic		No evidence

Comment: Give brief rationale for choice.

Sources

Please include a full list of sources used to make your assessments, including documents and key informant interviews.

Annex 3: Strategic and policy context for GCRF 2022–23 (full version)

As evidence for this stage of the evaluation was collected in 2022–23, it is important to outline the context. The first years of GCRF's evaluation, 2020–23, have seen significant changes in the strategic, policy and economic context of GCRF that have affected the whole fund. In 2023 these have included new policies and strategies governing the UK's international development and foreign policy, as well as a greater role for science and technology in the UK's international policies. In late 2021, the policy decision was made to wind down GCRF by 2025, with a continuation of commitments for existing awards and programmes but no new commissioning.

Over 2022–23, since the last GCRF evaluation synthesis report in 2021, there have been some important changes. These include:

- a refresh in March 2023 of the 2021 Integrated Review of Security, Defence, Development and Foreign Policy strategic framework (IR2023) that integrates ODA into defence and foreign policy, setting seven new campaigns – areas for priority effort – for the International Development Strategy
- the creation of a new UK government Department for Science, Innovation and Technology (DSIT), which will be the new funder of GCRF and the evaluation
- the announcement of a new ODA and UK blended fund for International Science Partnerships (ISPF) in science and technology, part of the replacement for GCRF and the Newton Fund
- the continuing effects on awards of significant ODA budget reductions for 2021–22 as a result of the Covid-19 pandemic response.

IR2023 was prompted by the pace of geopolitical change since the original review in 2021, including the war in Ukraine and its far-reaching energy and economic effects.¹ IR2023 sets out the vision for the UK's overarching national security and international strategy, bringing together defence, security, resilience, diplomacy, development and trade, as well as elements of economic and science and technology policy.

The Covid-19 pandemic continues to have a long tail of effects on GCRF awards and their impact potential. The Covid-19 response significantly impacted on ODA spending and management across all departments, with subsequent cuts being made to the GCRF budget in 2021–22 as part of the temporary reductions in the UK's ODA commitment from 0.7% to 0.5 % of GNI.² These rather sudden budget reductions, which amounted to around 70% of committed spend in 2021–22, affected GCRF's POs and investments across the board, with grants being

¹ <u>https://www.gov.uk/government/publications/integrated-review-refresh-2023-responding-to-a-more-contested-and-volatile-world/integrated-review-refresh-2023-responding-to-a-more-contested-and-volatile-world#iii-ir2023-updated-strategic-framework</u>

² Dickson, A. (2020) 'Spending Review: Reducing the 0.7% aid commitment'. Available at: https://commonslibrary.parliament.uk/spending-review-reducing-the-aid-commitment/

delayed, reprofiled or terminated.³ The evaluation has observed over 2022–23 that delays and reprofiling of resources have meant that many awards have not delivered the level of outputs and results that were expected, and impact-oriented activities have been curtailed, with implications for GCRF's midterm outcomes and impact. GCRF spending is now on a declining trajectory (see Figure 1).





Effectively there are fewer than 18 months of R&I activity remaining, as in the final year awards and programmes will be focused on finalising outputs. Award teams – and, potentially, partnerships – will move on. Some will disband, but others have already identified other sources of funding to continue their collaborations. DSIT has decided that it is important that the evaluation continue to track GCRF up to its close in March 2025. In response to the new context, the design of the evaluation and GCRF's ToC have been reshaped to capture lessons and document GCRF's accomplishments and legacy. Capturing lessons and establishing GCRF's achievements are particular priorities for DSIT in 2023, as these provide important foundations for the ISPF and the UK's wider global partnership ambitions.

IR2023 places a greater emphasis on science and technology in the UK's international policy, with an uplift in investment into research and innovation by 2024/25, alongside increased defence spending. There is an emphasis on global partnerships, with prioritisation of efforts to drive sustainable development and poverty alleviation and to tackle climate change and other shared challenges. This means that GCRF's R&I outputs, international partnerships and new capabilities in LMICs and the UK will continue to be relevant as the foundations for future work to tackle these global priorities, and the evaluation can offer important findings to inform future research for development.

Geographically, IR2023 sets out how the pivot to the Indo-Pacific region will deepen in 2023. This means deeper partnerships between the UK and, among others, India, Japan, South Korea, Indonesia, Malaysia, the Philippines, Thailand and Vietnam. There will be a continuation of strategic collaborations in Africa, including with, among others, South Africa,

³ UKRI (2021) 'UKRI Official Development Assistance letter 11 March 2021'. Available at: https://www.ukri.org/our-work/ukri-oda-letter-11-march-2021/

⁴ Internal BEIS communication.

Kenya, Nigeria and Egypt. The UK's relationships with countries in the Middle East and the European-Atlantic regions will also deepen. These are all regions and countries where GCRF has supported R&I projects, providing focal points and relationships for future work. The evaluation's work to assess GCRF's impact and contributions in some of these countries will yield relevant insights for building future work.

The International Development Strategy (IDS), launched in May 2022,⁵ continues to guide the work of the Foreign, Commonwealth & Development Office (FCDO) and that of all ODA-spending departments, including DSIT (formerly BEIS), which funds GCRF. The IDS continues with its four overarching priorities: investment for sustainable, green economic growth; education, empowerment and protection from violence for women and girls; humanitarian assistance; and global health, climate and nature. Within those four priorities, the IR2023 sets out seven specific initiatives for 2023:

- 1. 'open science' allowing LMICs access to knowledge for resilience
- 2. global health crisis prevention
- 3. food security and nutrition
- 4. reforming and greening the global financial system, especially the multilateral banks and the International Monetary Fund (IMF)
- 5. global tax reform to make systems fairer and to ensure greater revenue is recovered by LMICs
- 6. clean green infrastructure and investment
- 7. defending and extending rights of women and girls.

These are all topics which have been researched and explored within GCRF's portfolio, meaning that GCRF's outputs and achievements, and the evaluation's assessment of them, remain relevant to the new ODA policy context.

In February 2023, the UK government announced the creation of DSIT and the launch of a new International Science Partnerships Fund (ISPF). The new dedicated department moves out of BEIS and elevates science, innovation and technology to a Cabinet ministry, reflecting the government's ambition to harness innovation to drive economic growth and global leadership. The new department emphasises future technologies – quantum, artificial intelligence, engineering biology, semiconductors and future telecoms – along with life sciences and green technologies.⁶ DSIT will lead on the implementation of the newly published UK Science and Technology Framework and will coordinate the anticipated uplifts in public and private investment in science and innovation. DSIT also now holds the remaining oversight of GCRF, the Newton Fund and the new ISPF.

⁶ https://www.gov.uk/government/news/science-innovation-and-technology-takes-top-seat-at-cabinet-table

⁵ FCDO (2022) The UK Government's Strategy for International Development. Available at: <u>https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1075328/uk-governments-strategy-international-development.pdf</u>

The new ISPF is the successor fund to GCRF and the Newton Fund; it blends ODA and non-ODA funding.⁷ The first phase of £119 million was announced in December 2022. Although not envisioned to reach the same levels of investment as GCRF, the ISPF will still mobilise considerable investment in ODA R&I over its lifetime.

The aims of the new fund are to: support UK researchers and innovators to collaborate with partner countries on multidisciplinary projects; tackle global challenges and develop future technologies; enable groups of countries to collaborate in an agile way; strengthen the influence and connections of the UK and UK research and development community domestically and around the world. The fund will be delivered by the same partner organisations as GCRF, and will have four themes under which partner organisations will establish their own programmes and calls:

- 1. Resilient Planet leading the green industrial revolution to protect the planet
- 2. Transformative Technologies developing responsible technologies to secure our place in tomorrow's world
- 3. Healthy People, Animals and Plants researching and innovating for secure and healthy populations
- 4. Tomorrow's Talent nurturing talent to drive inclusion, research and innovation.

Funded in part by ODA, the ISPF is also likely to play a role in contributing to the priority areas under the IDS (set out above). The broad themes of the ISPF are also reflected in the GCRF portfolio, ensuring that the evaluation will continue to be relevant in establishing how the foundations that have been built by GCRF can support the UK's new thematic R&I interests.

⁷ <u>https://www.gov.uk/government/publications/international-science-partnerships-fund-ispf/international-science-partnerships-fund-ispf</u>

Annex 4: Bibliometric technical note

The technical note detailing the rationale and methodology for the bibliometric analysis is available upon request.

Annex 5: Sampling strategy

This annex details the full sampling strategy used to reach the final sample of 150 awards.

The sample of 150 was drawn from the dataset of responses obtained from the survey of GCRF award holders, conducted earlier in Stage 1b of the GCRF evaluation (n=9755). The approach was designed to select sampled awards with: (a) sufficient data available to apply the RQ++ rubric; (b) a good likelihood of having produced outputs. The criteria applied also ensured coverage of the diversity of award types within the GCRF portfolio, inclusion of Global South-led awards to allow analysis of impacts of Southern leadership on research excellence, and inclusion of all delivery partners. The exclusion criteria applied to the survey data are shown below in Table 1.

Table 1.	Exclusion	criteria	applied
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Criteria	Rationale	Number of records
Exclude awards without matched survey data	To ensure respondents could be matched to awards	2993
Exclude secondary respondents	To avoid awards being included more than once	960
Exclude awards in bottom 2 quintiles (>£127,354)	To ensure availability of data for assessment	604
Exclude awards <12 months long	To ensure sufficient outputs for assessment	592
Exclude grants with end dates in 2023 or later	To ensure award has produced outputs	534
Exclude previously sampled awards	To cover more of the fund & avoid evaluation fatigue	510
Exclude awards with incomplete/missing data	To ensure availability of data for assessment	506

Once this process had been completed, eight Interdisciplinary Hub awards were added back into the sample. They had been excluded due to their 2024 end date. However, since the Hubs are one of GCRF's flagship programmes, representing a significant proportion of the overall spend, it was important to understand their contribution to research quality within the portfolio. This left a sample longlist of 514 awards.

The sample longlist of 514 was then sorted into six broad categories of award,

representing different types of investment. GCRF was not designed with a clear typology of awards, so the award types were developed in conjunction with the BEIS GCRF fund manager, drawing on her knowledge of the portfolio:

- early/mid-career awards
- research grants (thematic)
- other research grants
- networks
- applied innovation
- additional support.

We used the following steps to reach the final sample of 150:

- calculated the number and percentage of awards in each broad type category
- assigned number of awards to be sampled from each type category based on percentage of total
- categorised all awards by UK or Global South leadership (based on location of lead institution)
- sampled all Global South-led awards available in each type category
- sampled UK-led awards in each category to reach total.

We then checked that all the GCRF partner organisations were included in the final sample. AMS awards had all been excluded by the award size criterion, since they are all $\pm 100,000$ or less. Six of these were added back into the sample, to ensure coverage of AMS research. The sample was reviewed by partner organisations, and substitutions were made where needed. Table 2 shows the sampling frame used.

Category	# of awards	% of total	# of awards to be sampled	# of Global South-led awards sampled	# of UK-led awards sampled
Early/mid- career awards	62	12%	18	18	0
Research grants (thematic)	239	46%	70	9	61

Table 2. Sampling frame applied to reach final sample of 150

Other research grants	135	26%	40	4	36
Networks	34	7%	10	10	0
Applied innovation	22	4%	6	0	6
Additional support	22	4%	6	6	0
Totals	514	100%	150	47	103

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