

Name of institution	University of Dundee
Contact person for correspondence who is also responsible for ensuring that the head of institution has approved this strategy for submission to SFC.	
Name	Daniela Bolle
Position	Head of Research Development
Address	Research & Innovation Services, University of Dundee, 11 Perth Road, Dundee, DD1 4HN
Email	d.bolle@dundee.ac.uk
Phone	+44 (0) 1382 384435
Note that we intend to contact this person in the event of queries regarding the institutional GCRF strategy. We will also contact this person annually as part of our GCRF monitoring process.	
Has this GCRF strategy been approved for submission to SFC by the head of institution?	
Yes	
Name: Professor John Rowan Vice-Principal (Research, Knowledge Exchange and Wider Impact)	
Email address: j.s.rowan@dundee.ac.uk	
Signature:	

Section A: Official Development Assistance (ODA) and GCRF strategy

The strategy

Q1: Summarise the key aspects of your three year strategy for development-related and GCRF research activity

a. Your institution's strategy and priority objectives for all development-related research activity funded through all sources for three years from 2018-19.

The University of Dundee has a clear mission – to transform lives, locally and globally, by the creation, sharing and application of knowledge. We do this with world-class teaching and pioneering research, with work that has social, cultural and economic impact. We are a Scottish institution operating on a global stage, including many countries in the developing world where we are helping cure devastating diseases like malaria, supporting social justice and giving people life-changing educational opportunities.

The extraordinary strength of our research has been the bedrock of establishing our reputation as one of the world's top 200 universities. We have the fourth highest proportion of research grant income to total income of any UK university, which speaks to our outstanding success in winning competitive grants and funding. We are also one of Europe's most innovative universities due to our track record in translating research into impact (Reuters, 2017). At the heart of our new 'Strategy to 2022' is the commitment to work across the institution and externally with key partners on problems of high societal importance and impact. Our collective energy will be focused on four interdisciplinary themes:

- Understanding and improving health and wellbeing
- Life-enhancing creativity and design
- Innovating technological solutions to tomorrow's problems
- Promoting social change to enhance diversity, justice and socio-economic prosperity

Within these themes we combine basic, translational and engaged research and innovative practice to bring cutting-edge scholarship to bear on clinical, professional and societal activities that enhance lives, and produce new knowledge that can influence understanding of key issues. Our most successful examples of excellence in development related research map to our interdisciplinary themes. We are committed to ensuring the continuing success of our development-orientated research, to its global reach, and ensuring that research by the University is always of the highest quality and has the greatest possible impact.

The following examples illustrate the quality and diversity of our development-orientated research and upon which we intent to extend our contribution – aligned to the ambitions of the UN's 17 Sustainable Development Goals (SDGs).

Ensuring healthy lives and promoting the well-being for all at all ages is essential to sustainable development (Goal 3). Diabetes is a global health challenge, the prevalence of which, has been rising more rapidly in LMICs in the last 30 years. Dundee has world-class expertise in this domain and is leading collaborative programmes such as the £7M National Institute of Health Research Global Health Research Unit (GHRU) on Diabetes - a major Scotland-India clinical partnership. The GHRU pairs Dundee's world leading expertise in pharmacogenetics and health informatics and to deliver improved care in diabetes with the world's largest GP practice and patient data collected under the aegis of Dr Mohan's

Diabetes Specialities Centres. We aim to build and broaden our partnership with India both in terms of wider research areas as well as translation of research from India to other LMIC contexts.

The development of treatments for anti-infectives and neglected diseases including Chagas disease, Leishmaniasis, tuberculosis and Ebola, facilitated by our world-class Drug Discovery Unit, continues to be a key strategic area for the University and has attracted over £20M of funding in the last 18 months alone from MRC, Wellcome Trust and the Gates Foundation, among others. A recent breakthrough in this area has been the production, in collaboration with Cambridge and funded by Wellcome and MRC, of a new diagnostic test for 'African sleeping sickness' or Human African Trypanosomiasis (HAT), which is caused by parasites transmitted by tsetse flies in sub-Saharan Africa and causes thousands of deaths each year. Trypanozome research is the focus of a current MRC GCRF grant.

Working with Medicines for Malaria Venture (MMV) our Life Scientists have discovered a new compound which could not only treat malaria, but also potentially protect people from the disease and prevent its spread all in a single dose. The newest compound found would likely cost only \$1 per dose after development.

We are looking to broaden the research funding portfolio for Anti-Microbial and Anti-Infectives Research which are Global Challenges with disproportionate impact in developing countries. Current funding includes charities Wellcome Trust and the Gates Foundation as well as industry-funding which we are looking to grow including taking advantage of opportunities from the Industrial Strategy Challenge Fund (ISCF).

The University of Dundee is also a WHO Collaborating Centre for Public Health Issues on Congenital Anomalies and Technology Transfer Unit of Dental and Oral Health. The GCRF Strategy aims to build on our close relationship with the WHO and supports the WHO's ongoing pursuit of an implementation agenda towards reducing the burden of oral disease and promotion of oral health through primary prevention, by widening the research expertise of relevance to disease prevention, behaviour and lifestyle change.

Ending poverty (Goal 1) sets a target of implementing social protection systems and measures to protect the poor and the vulnerable by 2030. The University holds a portfolio of largely ESRC and DFID funded collaborative research, worth over £1M, in locations across the global south including Brazil, Uganda, Kenya, Lesotho, Malawi and Palestine undertaking actionorientated research on projects relating to child domestic workers, policing of street children, social cash transfers, generational relations, youth poverty trajectories and the experiences of youth growing up as refugees. We have relevant capacity in disability research, particularly conflict related disability including an AHRC-ESRC GCRF (PaCCS) project which explores how rights-awareness may empower people with conflict-related disabilities in Sri Lanka.

Within Life Sciences, our division of Plant Sciences, is a world leader in crop research and the pursuit of improved global food security, improving nutrition and promoting sustainable agriculture – aligned to ending hunger (Goal 2). Priorities are to build on recent Newton Fund and GCRF awards for research into climate change resilient rice crops and developing rice straw for animal feed in China and Southeast Asia, as well as expanding research into sustainability of barley crops in Ethiopia.

Our Centre for Energy, Petroleum Mineral Law and Policy (CEMPLP) works extensively with policy makers and industry in developing countries, particularly in Africa and South America.

Founded over 40 years ago CEPMLP has a global reputation for technical understanding and practical options around energy and mining sector development issues and has received over £1.8M funding from the World Bank, Adam Smith International, DfID and H2020 in the last 10 years. Recent appointments bring new expertise in energy transitions aligned to Goal 7, seeking to ensure access to affordable, reliable, sustainable and clean energy for all.

The University is home to the only UNESCO Centre for Water Law, Policy and Science in the UK and is an area of strategic importance for the University – with a mission statement centred around Goal 6 (water and sanitation for all). The University has long-standing collaborations globally (e.g. Malawi, Zambia, Zimbabwe, Bangladesh, Vietnam, Laos) and recently commenced a major £2M interdisciplinary water management ‘River Health’ project in the Ganges Basin in India exploring the impact of increasing population and rapid economic development on water resources. We also aim to apply our research capacity in remote sensing and satellite technology for a variety of land-use and climate related activities such as looking at El-Nino impacts on forest resilience, subject of a GCRF award, and observing changes in the world’s largest lake systems through a £2.9M NERC consortium grant (Globalakes).

Over the GCRF investment programme our strategy is to build on these relevant areas of research strengths in line with our mission to *Transform Lives Locally and Globally* and develop research related to our four interdisciplinary themes and exploit synergies between our Research and Internationalisation strategies. As such, the GCRF Strategy will enhance our research quality, sustainability and focus on increasing interdisciplinary and impactful research as well as support a focus on priority geographic regions, forge strong partnerships with in-country institutions, and develop synergies between teaching and research and work to support and develop Early Career Researchers both in Dundee and at our partner institutions.

b. Summary of the key aspects of your three-year strategic plan for formula GCRF in light of the criteria and objectives for the GCRF outlined in the guidance.

The University’s three-year SFC GCRF Strategy will deliver an ambitious investment Programme to support capacity building in the University of Dundee designed to deliver impact in LMICs within the University’s four areas of thematic strength at the interface of the GCRF thematic priorities. In the Research Excellence Framework 2014 University of Dundee was rated overall first in the UK for Biological Sciences and first for impact in Clinical Medicine. Along with our established strengths, building on the already strong research areas described above and recognising the University’s well understood research strengths with particular reputational power (quality and volume) in biomedical, health and natural sciences – as well as in pockets of excellence distributed across the University in art and design, engineering, education, social sciences and the humanities. The University’s strategy to 2022 emphasises the importance of challenge-orientated and interdisciplinary research. Table 1 illustrates the interplay of the University’s four interdisciplinary themes and three priority GCRF themes. The GCRF strategy aligns to the new University Strategy to 2022 which features four interdisciplinary research themes which map to the priority themes of the GCRF vision for change:

Table 1 Intersection of GCRF thematic priorities the University's interdisciplinary themes

		UoD Interdisciplinary Themes			
		Understanding and improving health and wellbeing	Life-enhancing creativity and design	Innovating technological solutions to tomorrow's problems	Promoting social change to enhance diversity, justice and prosperity
GCRF Broad Thematic Priorities					
Leave no one behind	<ul style="list-style-type: none"> • Sustainable health and wellbeing; • Inclusive and equitable quality education; • Secure and resilient food systems; • Affordable, reliable, sustainable energy; • Clean air, water and sanitation 	✓	✓	✓	✓
Sustainable societies & economies	<ul style="list-style-type: none"> • Sustainable livelihoods supported by inclusive economic growth and innovation; • Resilience to short-term shocks and long-term environmental change; • Sustainable cities 	✓	✓	✓	✓
Support for peace & justice	<ul style="list-style-type: none"> • Reduce conflict and promote peace, justice and humanitarian action; • Respond effectively to forced displacement and multiple refugee crises; • Reduce poverty and inequality including gender inequalities 	✓	✓		✓

The overarching aims of the investment programme to deliver the GCRF Strategy:

- Intensify activity which is based on already recognised relevant excellent research at the interface of the University's four themes and the GCRF thematic priorities;
- Enhance challenge-led research with clear impact potential in specific and named LMIC's and on specific Sustainable Development Goals (SDGs);
- Increase interdisciplinary research and collaborations across Schools and with partners in the UK, International and in LMIC's;
- Develop the potential to win other development-related funding;

- Build enduring partnerships in LMIC's by developing existing or accessing new networks.

The programme will support activities which meet the objectives of the GCRF guidance including:

- Capacity and capability building within the University and in LMIC's, e.g. through GCRF Programme Awards, Global Citizen Doctoral Programme;
- Mono-disciplinary, interdisciplinary and collaborative research, e.g. by conducting pilot studies in LMIC or host the researchers from LMIC at Dundee for joint research project;
- Pump-priming e.g. exploratory projects, host International visiting scholars; visits from LMIC delegations; reciprocal exchanges with LMIC, meetings of project teams ready to apply for development related funding;
- Generating impact from research by translating solutions from one context to the context of a LMIC and by ensuring research projects are developed in collaboration with partners in LMIC's;
- Rapid response to emergencies with an urgent research need by providing travel funds to visit disaster zones, as appropriate;
- fEC shortfall, as appropriate.

c. How activity funded through GCRF fits into your broader strategy and priorities for all development related research activity.

The University has a broad portfolio of excellent, well-established and impactful development related research as outlined in section a. above. The University's broader strategy and priority objectives over the next five years are outlined in for development related research are shown in Table 2 against the fit with the GCRF investment:

Table 2. Relationship between development-related strategy and GCRF investment

Development-related Strategy	GCRF investment
Intensify research activity which is based on excellent research, and is at the interface of the University's themes and the GCRF thematic priorities;	Select and focus investment in three priority areas through GCRF Programme Awards
Develop challenge-led interdisciplinary research which address challenges of developing countries;	Build capacity at the interface of interdisciplinary themes and GCRF thematic priorities, invest in interdisciplinary pilot and pump prime projects, build teams which can attract other GCRF/development funding and facilitate collaboration through Dundee Interdisciplinary and Innovation Forum (DIIF) events and other underpinning activity
Build capacity and change research culture by developing Early Career Researchers in Dundee and LMIC's	Develop Early Career Researchers through Global Citizen Doctoral Programme and underpinning activity such as a GCRF Crucible programme
Build enduring partnerships in LMIC's by developing existing or accessing new networks;	A Partnership Development Officer to enable strategic partnership development together with a number of mobility funds

Increase global scope and reach of our research impact	Partnership development and pilot projects and programmes with clear pathways to impact
Place people at the centre of the research	Engagement with people in LMIC's and across disciplines enabled by the investment programme
Increase academic awareness of opportunities and Global Challenges which lead to high quality GCRF research funding applications	High profile of GCRF Strategy, regular activity, reports and events
Scale up existing development-related research activity by translating to new, lower income countries	Investment in activities which build on networks in a region and extend these into other areas of research
Collaborate with other Scottish (or UK) HEI on complementary GCRF research	Collaboration through events, GCRF Crucible and by sharing knowledge

In line with the University's Internationalisation strategy, the GCRF strategy will consolidate LMIC research expertise and network regions. Dedicated regional working groups have been established to consider integration of efforts across teaching, research and partnership opportunities. A priority area for development features strengthening relations with existing partners, build capacity in LMICs and to grow research expertise to meet the challenges in these countries.

Currently our most intensive development-related research is in the following geographic regions:

- **India and Pakistan:** We have strong established networks in these countries in a range of research areas including *diabetes, craniofacial, anti-microbial resistance, tropical medicine, river health, water resources*
- **China:** We have synergies with teaching and research including plant sciences (food security) *medical imaging and energy transitions*
- **Africa:** in particular in Uganda, Malawi, Ethiopia, Nigeria, Rwanda, Ghana, Eritrea, South Africa including research in *human rights, health care systems, displaced communities, colonial-legacies, medical education, food security*
- **Middle East:** in particular Lebanon, Syria, Palestine, Kuwait, examples include *displaced communities, trauma recovery, health*
- **South-East Asia:** in particular Malaysia, Vietnam & Philippines, examples include *rainforest ecology, rice production, antimicrobial resistance*
- **South America:** in particular Colombia, Brazil, Argentina particular emphasis on indigenous and transgenerational equity issues in mining developments

The GCRF strategy will contribute to our broader development-related strategy by developing the current portfolio of regional engagement to concentrate our focus in some of these regions by extending our existing networks into relevant new LMICs.

d. How activity funded through GCRF relates to the UK strategy for the GCRF.

Activity funded through GCRF will contribute to the delivery of the UK strategy for the GCRF, by:

- Promoting challenge-led disciplinary and interdisciplinary research
- Strengthening capacity for research, innovation and KE in the UK and in developing countries

- Providing responses to emergencies, as appropriate

At Dundee, the GCRF funding enables us to invest in few priority areas of research which can make an important contribution to the UK and Scotland’s GCRF strategy. It will permit the initiation of multiple solution-focused research projects, which will spark original and transformative approaches. These will be strongly aligned SDG’s and be sensitive to local needs, wherever possible co-designing problem identification and development response. We will focus on areas of research excellence and invest in projects which contribute new interdisciplinary perspectives. We will advocate projects which can extend the scope and reach of research impact by addressing environmental and human-made challenges, in particular around conflict, climate change, water, health and wellbeing. We will invest in research capacity building at Dundee and LMICs and in developing sustainable global partnerships.

e. How your development-related and GCRF strategies relate to your wider institutional strategy for using REG.

The University’s strategy for using REG is to reward research quality and intensity. The REG funding is allocated to academic Schools proportionate to the value of their REF contribution. Much of our REG funding supports the research excellence in health related research. The REG funding is used to support the sustainability of our research excellence and the delivery of research impact by making a contribution to supporting infrastructure and support staff. In particular, it helps to sustain the large amount of charity-funded research which takes place at this University by meeting some of the FEC shortfall. Much of this charity-funded research is of direct relevance to development countries, for instance drug development research for neglected diseases funded by the Wellcome Trust and the Gates Foundation. The REG funding, therefore enables the University to conduct development-related as well as other excellent research. The GCRF strategy and related investment is targeted at areas of research excellence which have the most immediate relevance to LMICs and invests in interdisciplinary collaborations internally and externally as well as in partnerships with LMICs to enhance the impact of this research.

f. Likely key barriers and enablers to implementing your strategy (Table 3).

Table 3 Potential Barriers and Proposed Enabling Strategies to Effective Delivery

Barrier	Enabler
Culture change required for interdisciplinary collaboration	<p>Enabled by University’s strategic priority on interdisciplinary, supported by <i>Dundee Interdisciplinary and Innovation Forum (DIIF)</i>, a platform for workshops and interdisciplinary meetings.</p> <p>GCRF focused events to engage researchers at the interface between the four University themes and the GCRF thematic priorities and through dialogue prepare teams for future funding opportunities.</p>
LMIC networks limited to few senior members of staff	<p>Investment in developing Early Career Researchers (e.g. GCRF Scottish Crucible), exchanges, visits and using the DIIF platform to share knowledge between senior and junior academics.</p> <p>Regional cluster working groups embedded as part of the University International Strategy with a clear remit to integrate</p>

	recruitment and research partnership opportunities
Limited academic awareness of GCRF opportunities and expertise in ODA compliance	Investment in staff capacity and training and development, DIIF and annual GCRF Symposium, high profile annual competitions for investment alongside knowledge sharing events to raise awareness and profile across academic teams and disciplines

- g. The key activities by which you will realise your objectives, such as capacity and capability building; mono-disciplinary interdisciplinary and collaborative research; generating impact from research; meeting the full economic cost of GCRF activity funded through other sources; rapid response to emergencies with an urgent research need; and pump priming.**

The University will adopt a twin-approach of investing in established excellence to maximise impact, through capacity building locally and with international partners, and a programme of competitive funding awards intended to provide a diverse portfolio of opportunities for academics with differing levels of experience in LMIC related research. This investment will be underpinned by researcher development and knowledge exchange activities, including a GCRF Crucible Programme, a Dundee Global Challenges Annual Symposium, GCRF focused Dundee Interdisciplinary and Innovation Forum (DIIF) events. To accelerate wider and deeper engagement with LMICs and develop sustainable partnerships and enhance the academic engagement in LMICs, a (initially) two-year GCRF Partnership Development Officer post will be created. As required, we will support fEC shortfall of GCRF activity funded by other sources, in particular the Newton Fund, and support visits to disaster zones in response to emergencies with an urgent research need.

GCRF Programme Awards

Funding is available to support three **ambitious challenge-led research projects** to build capacity at the interface of the University's four themes and the GCRF thematic priorities. These awards will each be for two years in duration and selected in a competitive process overseen by the GCRF Strategy Steering Group.

Global Citizen Doctoral Programme

Four three-year PhD projects with the option of matching funding for a 4th year will be supported to build capacity and capabilities in research at the interface of the University's four themes and the GCRF thematic priorities. This competition will be open to International students including from LMIC's.

Pilot Projects

These will fund small to medium sized mono or interdisciplinary research projects in LMIC's or with involvement of LMIC researchers. They are also available to projects which translate impact from one context to another LMIC country.

Pump-Prime Fund

These will fund small exploratory collaborations with partners in LMIC's which will build research teams which lead to follow-on funding from GCRF or other development-related funding sources.

Academic Exchange Visits

These will fund reciprocal visits between the University of Dundee research team and LMIC partners. The exchange trips should have a combined duration of between 1-3 months with all activities spread across a total of six months.

Short-term Mobility Awards

These support the establishment of new and the development of existing collaborations with researchers from LMICs, through either incoming or outgoing visits of less than one month in duration. Funding is available to support ten Short-term Mobility Awards.

International Networking and Conference Events

To support the attendance at events with clear GCRF focus, for instance the regional networking events organised by RCUK or similar ODA-related platforms. Funding will be made available to support attendance at ten international or national conferences or networking events.

Underpinning support activities

A "Scottish GCRF Crucible"-type programme for Early Career Researchers in collaboration with other HEI's will be organised. An annual Dundee GCRF Symposium will be organised and be open to other HEIs and research organisations. In 2018, for example, support is being provided to enable a GCRF/CECHR [Centre for Environmental Change and Human Resilience] Symposium that is being held on 21 May 2018 to showcase ongoing work, extend community building and facilitate idea generation ready for internal or external GCRF funding bids. Support will also be given to enable a number of Dundee Interdisciplinary and Innovation Forum (DIFF) events, to encourage and facilitate interdisciplinary collaborations, to generate lasting impact and solve major challenges linked to the GCRF. Funding support for a GCRF Partnership Development Officer to work with funded projects, engage with LMIC partner organisations and ensure that the impact and benefits derived from the UoD GCRF funding allocation are maximised in LMICs.

h. The main Development Assistance Committee (DAC) list developing countries you intend to collaborate with.

See section 1.c above summarised by Global Region

Q 2: Provide details of the main intended outcomes and impacts of your strategy.

Table 4 below summarises the activities supported by formula GCRF allocation, their expected Outcomes and associated Impacts. These are disaggregated to distinguish between Outcomes and Impacts predominantly intended for the benefit of developing countries (*) and developed countries (**)

Table 4 Key Elements of the GCRF Strategy and Anticipated Impacts

	Outcome	Impact
GCRF Programme Awards	* Three projects to enhance capability to conduct challenged research in collaboration with LMIC partners.	<p>* Equitable and sustainable partnerships with researchers and other organisations in developing countries.</p> <p>*, ** Knowledge exchange, capacity and capability enhancement between developed and developing country partners</p> <p>* Contributions to the achievement of project specific SDGs.</p>
Global Citizen Doctoral Programme	Four fully funded PhD studentships to address Global Challenges of developing countries, open to International students including from LMIC's.	<p>* Enhanced research capacity in LMICs</p> <p>* Co-authored publications, policy brief and other relevant knowledge exchange outputs</p> <p>* Contributions to the achievement of project specific SDGs.</p>
Pilot Projects	Four small scale research projects delivering impact in LMIC's	<p>* Equitable and sustainable partnerships with researchers and other organisations in developing countries.</p> <p>*, ** Knowledge exchange, capacity and capability enhancement between developed and developing country partners</p> <p>* Contributions to the achievement of project specific SDGs.</p> <p>* ** Follow-on project funding from GCRF or other development-related funding</p>

		sources
Pump-prime fund	12 small exploratory projects	<p>* Equitable and sustainable partnerships with researchers and other organisations in developing countries.</p> <p>*, ** Knowledge exchange, capacity and capability enhancement between developed and developing country partners</p> <p>* Contributions to the achievement of project specific SDGs.</p> <p>* ** Follow-on project funding from GCRF or other development-related funding sources</p>
Short-Term Mobility Awards	*, ** 10/year new or enhanced strategic partnerships developed	<p>* Knowledge exchange between research teams</p> <p>* Sustainable partnerships relevant to ODA-focused research</p>
Academic Exchange Visits	*, ** 3/year new or enhanced strategic partnerships developed	<p>*, ** Knowledge exchange between research teams</p> <p>* Development of:</p> <ul style="list-style-type: none"> • Joint teaching programmes • student exchange programmes • joint supervision opportunities • joint funding applications <p>* Sustainable partnerships relevant to ODA-focused</p>

		research
International Networking/Conferences	* 10/year GCRF focussed national, regional or international networking events or conferences attended.	** Professional best practice exchange and learning
GCRF Crucible Programme	** An Early Career Researcher focussed “Scottish Crucible” programme organised in collaboration with other Scottish HEI’s	** Building active and lasting research networks between Scottish HEIs ** Professional best practice exchange and learning ** Increased awareness of ODA-focused research and development of next generation researchers
Dundee Global Challenge Annual Symposium	** An annual academic symposium focussing on challenges of global significance hosted	** Building active and lasting research networks between Scottish HEIs
DIIF events	** Two GCRF-focussed interdisciplinary forum events/year	** Building active and lasting research networks within UoD ** Increased awareness of ODA-focused research
Partnership Development Officer	** Post with specific remit to develop partnerships and enhance academic engagement in LMIC’s and GCRF activities	** Equitable and sustainable partnerships with researchers and other organisations in developing countries. * , ** Knowledge exchange, capacity and capability enhancement between developed and developing country partners ** Professional best practice exchange and learning

Management of GCRF

Q3: How will your HEI monitor and evaluate its progress and compliance in ODA and GCRF activity, including assessing geographical distribution of activity, outputs, outcomes and economic and social impacts. Please describe the policies, procedures and approach you have in place to measure progress, evaluate outcomes, identify lessons learned, and ensure ODA compliance.

A Steering Group has been established to oversee the implementation of the GCRF Strategy, including setting and reviewing direction, monitoring progress and outcomes including from funded activities through the GCRF investment programme as well as leading on sharing knowledge and learning.

The Steering Group will assess applications for the GCRF investment programme against the selection criteria and in the context of the GCRF Strategy as well as Internationalisation and Research Strategy, as detailed above. The Steering Group will ensure the investments are directed to activities which are at the interface of our four research themes and the GCRF thematic priorities and meet the aims of the investment programme, including ODA compliance and consolidating LMIC regional priority areas.

The University will carry out due diligence on all proposed partners using established Due Diligence Questionnaires and by carrying out in-house finance, media and country checks. Our initial due diligence is a two stage process involving a “short form” questionnaire at application stage followed by a “full-stage” due diligence check at award stage.

The information collected during due diligence feeds into a Risk Assessment procedure. Responses are graded on a traffic light system with Green considered low risk and requiring no further review. Amber is considered medium risk and requires review by the relevant staff in either Research Development, Legal, Finance or Governance, depending on the issue raised. Red is high risk and will be referred to the Steering Committee for mitigating measures to be agreed.

Project design of GCRF Programme Awards and pilot projects will be required to incorporate Pathways to Impact and Theory of Change principles, building on existing academic experience with RCUK funding applications. The University will provide additional Professional Development training on specific monitoring, evaluation and learning best practice from the development sector, through engagement with relevant trainers and the NGO sector. Consideration will also be given to more innovative monitoring and evaluation (M&E) through contact, for example with practitioners in Participatory M&E techniques.

At application stage, ODA compliance checks will be carried out by RIS and ratified by the Steering Group.

The University is committed to the UUK Concordat to Support Research Integrity and the SFC Financial Memorandum and all projects taken forward within the GCRF Strategy will be required to comply with the University’s policies and procedures under these frameworks. Policies governing research integrity include provisions for incident reporting, see the ‘Code of Policy and Procedures for Investigating and Resolving Allegations of Misconduct in Research’ (<https://www.dundee.ac.uk/research/governance-policy/misconduct-whistleblowing/#!faq-0>) which applies to all employees, research students and visiting researchers of the University, including persons with honorary positions, conducting research within, or on behalf of, the University. This policy forms part of the Research Governance and Policy Handbook (<https://www.dundee.ac.uk/research/governance-policy/>)

which includes the Code of Good Practice in Research (<https://www.dundee.ac.uk/research/governance-policy/policyroadmap/>). Consistent with the recommendations of the Concordat to Support Research Integrity, the Research Governance and Policy Sub-Committee provides an annual report to Court on its activities which includes information on any formal investigations of potential research misconduct (<https://www.dundee.ac.uk/research/governance-policy/concordattosupportresearchintegrity/>).

SFC GCRF Strategy funds will be safeguarded by following the same internal financial management and control mechanisms as other SFC funding, including ensuring the open and transparent use of funds, economic and efficient use of funds, risk management, monitoring performance and accounting for the use of funds.

We will implement a project review process to provide critical evaluation of completed projects and interim reviews of GCRF Programme Awards. Part of the responsibility of the Steering Group will be to review outcomes and outputs against stated plans and ensure continued ODA compliance. Where GCRF Programme Awards projects are deemed to be failing to meet the stated Goals, Outcomes, Objectives and Activities, the PI will be notified of a risk to termination of funding. In these projects the Partnership Development Officer will work closely with the PI to ensure progress and compliance.

We will run a series of interdisciplinary research workshop events cross-university to share professional best practice and experiences and provide reflective learning opportunities. Two of our past workshops have focused exclusively on GCRF, particularly exploring ODA compliance, planning for impact and effective evaluation and monitoring tools. These events will provide an arena to share best practice in development research.

Section B: Use of GCRF 2018-19 allocation and future formula GCRF priorities

Q4: See ANNEX 2 for 2018/19

Q5: Explanatory notes on how you have completed Annex 2

Descriptions of the activities to be funded in 2018/19 from the formula GCRF funding are provided in Annex 2. The activity type and level of funding allocated to each are given. The column requesting information on RCUK or other GCRF- related funding has been left blank. It is expected that the supported activities will attract new or cross benefit from funding from other sources and we will be able to provide this information once individual activities we support in 2018/19 have been selected.

In the DAC nations column we have not specified individual countries, DAC beneficiaries will be dependent on the individual projects/activities selected, with likely benefits regions of established partnerships and International regional working groups, including India, China, Africa, Middle East, South East Asia, South America. We request the identification of the DAC countries benefiting from every project proposal put forward for internal selection. Once projects are selected, we will communicate the DAC countries to SFC in our annual reports.

For activities where there are intended to be direct benefits to DAC nations, these will be dependent on the topic areas of the awards funded, and these will be at the interface of the

University's four Thematic areas and the three GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 & 17. We have put processes in place to ensure that funded activities will be directly or indirectly beneficial to developing countries. Specifically activities described in lines 11 – 14, the selection criteria for proposals for International networking and conferences will ensure that only engagement activities in ODA-related geographical regions are supported with the aim of developing relevant sustainable partnerships. The GCRF Scottish/International Crucible Programme will be planned in collaboration with other Scottish HEI's and is aimed at developing Early-Career Researchers both in Scotland and in LMIC's to build capacity for research collaborations addressing Global Challenges. The annual Symposium and DIIF (Dundee Interdisciplinary and Impact Forum) events aim to build interdisciplinary research collaborations within Dundee and beyond and develop the ideas which are required to address Global Challenges for the benefit of LMIC's.

Q6: What are your GCRF priorities for 2019/20 (how will activity profile adjust to increases in funding)

By 2019/20, it is anticipated that development of the three priority areas which have been selected as the GCRF Programme Awards will drive the intensification of GCRF activity. These will benefit from the contribution of the Partnership Development Officer who will be working as part of these teams and develop synergies between the supported projects, building and enhancing partnerships in LMIC's both in terms of a regional strategy and consolidating networks across the broader project portfolio of funded activities. The role will ensure that project outcomes and outputs are delivered for the benefit of LMIC's and findings inform the concepts of new projects which can be presented for additional funding. The investment in activities for 2019/20 will broadly include the same elements as 2018/19, with continuity of funding in GCRF Programme Awards, year 2 of the Global Citizen Doctoral Programme, capacity building Mobility Funds for short-term engagement with LMIC's, Academic Exchange Visits, attendance at International conferences and networking events and the range of internal, underpinning support activities. The anticipated increase in allocation in 2019/20 will enable us to support additional Pilot Projects and Pump Prime exploratory projects, as described above.

Q7: What are your priorities for 2020/21 (how will activity profile adjust to increases or decreases in funding)

The priorities for 2020/21 will see the continuity of year 3 of the Global Citizen Doctoral Programme, support further Mobility Funds for short-term engagement with LMIC's, Academic Exchange Visits, attendance at International conferences and networking events and the range of internal, underpinning support activities. To take account of the anticipated decrease in allocation, we may or may not be able to continue investment in GCRF Programme Awards, support pilot projects or pump-prime projects and continue to support the Partnership Development Officer post. We anticipate that other sources of development-related funding will by then have been secured to enable the sustainability of the post and other relevant activities.

Annex A2: Global Challenges Research Fund: Three-year institutional GCRF strategies (academic year 2018-19 onwards)

Table A: Detailed proposals for spending of QR GCRF in academic year 2018-19

Note: 'GCRF' = 'Global Challenges Research Fund'; 'DAC' = 'Development Assistance Committee'.

Project	Type of activity	Formula GCRF (£)	Research Council or other (£)	DAC nations	Benefits to DAC nations	Outputs and impacts
Description of the activity or project title.	Capacity and capability building. Mono-disciplinary, interdisciplinary and collaborative research. Generating impact from research. Meeting full economic costs of research funded by other sources. Rapid response to emergencies with an urgent research need. <u>Pump-priming.</u>	Level of funding used from formula GCRF allocation.	Project funding from Research Councils or other sources (please indicate whether these are GCRF awards).	Nations involved or benefitting as listed by the DAC.	Description of primary benefits to economic and welfare development in partner DAC nations.	Description of intended outputs and impacts.
GCRF Programme Awards	Mono or Interdisciplinary collaborative research/ Generating Impact from Research	300000	It is likely that the supported activities will attract new or cross benefit from funding from other sources	DAC beneficiaries will be dependent on the GCRF Programme Awards selected, with likely benefits regions of established partnerships and international regional working groups, including India, China, Africa, Middle East, South East Asia, South America.	Benefits will be dependant on the topic areas of the GCRF Programme Awards funded, at the interface of the Universities 4 Thematic areas and the 3 GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 &17	Interdisciplinary collaboration. Identification of novel research questions. High quality, co-authored academic publications. Partnership development with LMIC partners. Exchanges and visits. Co-authored, GCRF-related funding applications, Early Career Researcher capacity building,
Global Citizen Doctoral Programme	Capacity and capability building. Generating impact from research	140000		DAC beneficiaries will be dependent on the Global Citizen Doctoral Programmes selected, with likely benefits regions of established partnerships and International regional working groups, including India, China, Africa, Middle East, South East Asia, South America.	Benefits will be dependant on the topic areas of the Global Citizen Doctoral Programmes funded, at the interface of the Universities 4 Thematic areas and the 3 GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 &17	Interdisciplinary collaboration. Identification of novel research questions. High quality, co-authored academic publications. Partnership development with LMIC partners. Exchanges and visits.
Short-Term Mobility Awards	Capacity and capability building. Pump-priming	30000		DAC beneficiaries will be through visits in regions to strengthen and extend established partnerships and International regional working groups, including India, China, Africa, Middle East, South East Asia, South America.	Benefits will be dependant on the research and impact activity visits lead to and will be at the interface of the Universities 4 Thematic areas and the 3 GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 &17	Interdisciplinary collaboration. Identification of novel research questions. Partnership development with LMIC partners. Exchanges and visits. Collaborative GCRF and other development related funding applications.
Academic Exchange Visits	Capacity and capability building. Pump-priming	20000		reciprocal exchange visits between the UK and LMIC's in regions to strengthen and extend established partnerships and International regional working groups, including India, China, Africa, Middle East, South East Asia, South America.	Benefits will be dependant on the research and impact activity visits lead to and will be at the interface of the Universities 4 Thematic areas and the 3 GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 &17	Identification of novel research questions. Partnership development with LMIC partners. Exchanges and visits. Collaborative GCRF-related funding applications.
International Networking/Conferences	Capacity and capability building	20223		DAC countries will have a downstream benefit through academic engagement opportunities in regions we focus on to strengthen and extend established partnerships and International regional working groups, including India, China, Africa, Middle East, South East Asia, South America.	Benefits will be dependant on the research and impact activity visits lead to and will be at the interface of the Universities 4 Thematic areas and the 3 GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 &17	Interdisciplinary collaboration. Identification of novel research questions. Partnership development with LMIC partners. Exchanges and visits. Collaborative GCRF-related funding applications.

GCRF Scottish Crucible Programme	Capacity and capability building	10000		DAC countries will have a downstream benefit through capacity building of Early Career Researchers with a focus on development related, challenge-led and interdisciplinary research.	Indirect benefits will primarily be related to knowledge exchange, capacity and capability building at individual and institutional level.	Interdisciplinary collaboration. Identification of novel research questions. Enhanced capacity and capabilities of Scottish HEI academics. Collaborative GCRF-related funding applications.
Dundee Global Challenge Annual Symposium	Capacity and capability building	5000		DAC countries will have a downstream benefit through knowledge exchange and capacity building of researchers from the UK and LMIC's with a focus on development related, challenge-led and interdisciplinary research.	Indirect benefits will primarily be related to knowledge exchange, capacity and capability building at individual and institutional level.	Interdisciplinary collaboration. Identification of novel research questions. Early Career Researcher capacity building. Knowledge exchange. Collaborative GCRF and other development related funding
Dundee Interdisciplinary and Impact Forum Events	Pump Priming. Capacity and capability building	10000		DAC countries will have a downstream benefit through knowledge exchange and capacity building of researchers from the UK and LMIC's with a focus on development related, challenge-led and interdisciplinary research.	Indirect benefits will primarily be related to knowledge exchange, capacity and capability building at individual and institutional level.	Interdisciplinary collaboration. Identification of novel research questions. Early Career Researcher capacity building. Knowledge exchange. Collaborative GCRF and other development related funding
GCRF Partnership Development Officer and knowledge exchange with research development staff in LMIC's	Capacity and capability building	52000		DAC countries will benefit through development of partnerships including development of LMIC partners' capacity in developing research collaborations and focus on enhancing the impact of development-related research.	Benefits will be dependant on the research selected as GCRF Programme Awards and the partnerships in LMIC's developed and will be at the interface of the Universities 4 Thematic areas and the 3 GCRF Thematic Priorities. Contributions will be made to LMIC country's attainment of UN SDGs - specifically SDG 1, 3, 6, 7, 12, 13, 14, 15, 16 & 17	Partnership development with LMIC partners. Exchanges and visits. Collaborative research projects and development-related funding applications. Research development staff capacity building in LMIC's.
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