Institutional research context

In its recently launched 2020-25 research strategy, the University of Glasgow (UofG) continues its commitment to three core principles: valuing quality of research over quantity; recognizing that the University succeeds when individual researchers succeed; and emphasizing that how research is conducted is as important as what is achieved. Our strategy identifies collaboration, creativity and careers as focal points for achieving our ambition for the next five years: by working in teams, building on each other's ideas, and making Glasgow the best place to develop a career, our research transforms lives and changes the world.

Our GCRF Small Grants Fund, which is supported by our QR GCRF funding, is conceived and managed to mirror the values articulated in the University research strategy and our GCRF strategy. Specifically, our GCRF funding supports development of equitable and reciprocated relationships with diverse partners, support for early career researchers in the UK and Low-and-Middle-Income Countries (LMICs), and development of capacity both in the UK and LMICs to tackle global challenges. Our funding does not support core UofG staff or activities but is wholly invested in activities to address specific global challenges. This commitment has yielded significant strategic successes, both for UofG and our partners. In 2019-20, we partnered with 105 unique organizations in 32 countries including hospitals, government ministries, NGOs and industry collaborators. Partnerships developed through previous years of funding enabled us to quickly support our partners' response to COVID-19 in 5 countries. Teams supported by our GCRF Small Grants go on to have high degrees of success in external funding calls to continue their work. Our ongoing commitment to partnership development, support for early career researchers and capacity strengthening ensures we remain agile and responsive to future global challenges and crises while producing world-leading research outputs.

In addition to the broader strategic context, examples of individual project outcomes highlight the success of our programme:

- One of our 2019-20 fellows led a successful £800,000 NIHR grant application to address COVID-19 and diabetes in Tanzania. This was accomplished despite her planned programme of work in Glasgow being severely impacted by the COVID-19 outbreak.
- Our COVID-19 Rapid Response project in Chocó, Colombia distributed humanitarian packs to 1,050 at-risk families. In addition to enhancing the reach of the public health messaging and incentivising participation in the study, these packs help mitigate the impact of local movement restrictions on traditional livelihoods and food security.
- Our COVID-19 Rapid Response project in Venezuela established the connections and data collection processes to launch and maintain a database

of COVID-19 key figures in Venezuela that is open access and updated regularly:

https://public.tableau.com/profile/victoria.castro#!/vizhome/Monitoreocasos IRA/MONITOREONACIONALCASOSIRA

- 3 of the 9 students participating in our Masters level parasitology exchange programme have secured PhD interviews with European institutions.
- A return visit by one of our researchers to Malawi to share the findings of previously-conducted research with study participants and stakeholders has led to an invitation to provide ongoing epidemiological support and facilitate laboratory support for national influenza surveillance.

Progress with our GCRF strategy

UofG's GCRF Strategy is built around 3 priority objectives:

- Development and support for resilient, equitable and innovative research partnerships with the Global South
- Skills development and capacity strengthening
- Support for Early Career Researchers (ECRs) in the UK and the Global South

These objectives have been achieved through a transparent competitive granting process within UofG that in 2019 offered 6 specific types of funding:

- Research Projects that have potential to develop into larger research initiatives through widening and deepening relationships with LMIC partners and conducting smaller scale preparatory studies.
- Meetings and Exchanges to develop and/or strengthen relationships with LMIC partners to progress potential collaborations. This can include exchanges of MPA, technical or research staff to create new research management, financial, or technical networks, or meetings to develop research ideas and strengthen collaborative partnerships. Funding may also be used to support team members of previously-funded activity (from any funder) to travel back to the relevant ODA communities and share the outcomes of the conducted research/activity.
- Administrative Support for existing research networks that are transitioning from nascent to self-sustaining.
- Capacity Strengthening (e.g. training courses) to build research, technical and administrative skills in UofG and/or LMIC organisations to increase capacity to deliver collaborative research activities.
- 1 year research fellowships for LMIC Early Career Researchers to enable ECRs from the Global South to develop independent early career experience.
- Masters Studentships for LMIC students to undertake a 1-year University of Glasgow Masters programme.

Each of the funding types addresses one or more of our priority objectives, thereby integrating our success across the breadth and depth of our portfolio.

As noted above, our 2019 portfolio included work with 105 unique collaborators from 32 countries, directly addressing our first main objective of partnership development. Only 49 of those collaborators were Higher Education Institutions, reflecting our stated ambition to diversify the nature of our research partnerships. Of the 59 individual initiatives funded, 13 were Meeting and Exchanges, offering teams the ability to meet in order to develop the ideas and relationships necessary to build lasting collaborations. 17 of the funded activities were pump-priming research projects, recognizing that newly-developed research relationships benefit from pilot data and joint research outputs before progressing to large scale applications. As of the August 1st, recipients of our Small Grants funding have submitted follow-on applications to external funding sources worth £17,439,949. As of December 1st, £3,881,885 of funding has been won and just over £4.8 million worth of applications are still awaiting a decision. As stated in all briefing sessions for our GCRF Small Grants call, UofG's intent is not to have successful 1-year projects, but successful enduring collaborations. This is evidenced in the option of our Meetings and Exchanges offer for teams to return to the site of previous work and share findings with local stakeholders. That so many of our initiatives successfully transition to external funding sources demonstrates our success in building sustainable partnerships that can work together to address global challenges.

Our second core objective, capacity strengthening and skills development, is addressed directly through several of the fund's components (Masters scholarships, Capacity Strengthening, Research Fellowships) and also included as a required element of all initiatives we fund. Overall, 777 individuals received training, participated in capacity strengthening workshops or engaged in knowledge exchange events. The nature of this engagement varied highly, from Masters level students embedding with labs in Glasgow on bespoke exchange programmes to community leaders in Colombia receiving guidance on how to utilize modules on grief and mourning developed collaboratively in response to COVID-19. In addition to capacity strengthening in terms of skills and knowledge exchange, we have also developed capacity at institutional levels. Our projects have supported efforts to develop new malaria diagnostic tools, have brought computers and microscope capacity to Malawi, and developed resources and databases for responding to COVID-19. When COVID-19 dramatically impacted many of our projects, we were quickly able to pivot to supporting our partners' capacity to respond to the epidemic in 5 countries. From provision of Personal Protective Equipment (PPE) and diagnostic support to studies on the risk of medical workers contracting COVID-19 and developing innovative messaging to connect with communities about the risk of COVID-19, our funding has strengthened our partners' capacity to response to global threats. The embedding of capacity strengthening in our activities and our emphasis on reciprocal knowledge

exchange ensures capacity to address global challenges is developed in the UK and the Global South. Full details on individual projects can be found in the excel template.

The third key objective outlined in our strategic plan is support for Early Career Researchers (ECRs) in the UK and the Global South. We ring-fence 25% of our funding for ECR-led initiatives, but in no year of our Small Grants Call has it been necessary to alter any aspect of our normal competitive process to ensure this ring-fenced funding is fully used. We support our ECRs to develop competitive proposals and in 2019-20, 44% of our awards were led by ECRs. These awards give ECRs at Glasgow the opportunity to develop independent partnerships, grant management and leadership skills, and explore novel research topics. In addition to supporting ECRs in Glasgow, this year we offered one-year fellowships to two ECRs in the Global South. While successful (one fellow developed a successful NIHR proposal), the COVID-19 outbreak impacted on the ability of the fellows to engage with a wide network in the UK. We have chosen not to repeat the fellowship option in our 2020 awards due to the ongoing challenges of the outbreak.

Impact of COVID-19

COVID-19 had a severe impact on our planned programme of activity for 2019-20. 31 of our initiatives were unable to complete some aspect of their planned programme of work, including 12 that were unable to proceed at all due to the pandemic. Most of these initiatives were allocated funding from our 2020-21 allocation to complete their work (those that did not were by choice of the relevant PI). We expect these projects will be forced to modify some of their original objectives due to the constraints of the pandemic.

We were able to quickly determine the amount of funds expected to be unused as a result of COVID-19 and in April launched a short-turnaround call for COVID-19 Rapid Response proposals that could be delivered in the limited time available. The focus of the call was supporting the capacity of our partners to respond to the challenge of COVID-19 and so was well within the capacity strengthening remit of our GCRF strategy. We were quickly able to mobilize 5 awards with partners in Malawi, Uganda, Tanzania, Colombia and Venezuela. The awards reflected the diversity of our partners' needs, ranging from biomedical to epidemiological to community engagement. The details of these awards can be seen in the excel template. They exemplify the work we have done to build relationships with our partners and our ability to support local response on very short notice when circumstances require. There will be no underspend in our allocated GCRF funds.

Detailed list of funded activities

The completed template is included in our report submission e-mail.

Gender Equality

The University of Glasgow's Equality and Diversity Unit is responsible for promoting and embedding all aspects of equality and diversity within the University community. The Unit brings together all relevant policies and information on the various training courses available to students and staff of the university.

With specific reference to embedding best practice for Gender Equality in the ODA/GCRF sector, a Gender Equality statement is required as part of all applications to the GCRF Small Grants Fund, specifically requesting information on how Gender Equality has been considered with respect to the project team, the recruitment of participants and the possible implications of any findings. In addition, the University's International Development Research Manager, College of Social Sciences Business Development Manager and the College of Science and Engineering's Business Development Manager maintain a joint depository of Gender Equality Statements from grant applications that are available as reference materials. Finally, the International Development Research Manager has developed a series of "Crash Course" workshops on various aspects of international development grant application and management. One of these workshops focusses entirely on Gender Equality and covers how to consider Gender Equality as part of project design and how to demonstrate such consideration in grant applications.

In terms of how Gender Equality can be demonstrated in our GCRF activities, there are several examples that highlight how this has been taken into account in individual projects. One of our initiatives invited applications from Masters-level students from across Africa to embed with parasitology labs at UofG for a period of three months. The selection process actively considered the bias against female applicants in academia (both in the UK and Africa) and chose to award spaces on the programme to female applicants in the event of a tie on all other criteria. There was one tie where this approach was utilized and created a more balanced student pool. Another example is highlighted by the illustrated book intended to encourage interest in STEM in India. The main character is female and the team also carefully chose a broad selection of skin colours for characters, as colourism is strongly present in India. These choices ensured children would feel represented in the book and were discussed with the UK's leading company for behavioural analysis, Behaviour Hackers Ltd, Birmingham, UK.

Through all of these mechanisms – institutional frameworks, best-practice sharing, and inclusion of Gender Equality in all applications to our GCRF Small Grants Fund, we continue to develop our expertise and experience to ensure Gender Equality is considered across our entire international development research portfolio.

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* Visit cancelled due to CDVID- 19. Costs reflect non- refundable portions of the planned activity.	Capacity Strengthening Programme - Teka Ngussie	UoNG-SFC-121	snipbase of COVAL-19. This project intended to support an extended visit by an employee of Ethiopian Diectric Power as Graspen to develop his capacity and retween in the area of prothermal energy in Ethiopia. The intension was for the visitor to street developer, join technical meetings and shadow clearly as the control of projectoring, before making and coVAVI-19 to with as a cancelled delayers as the Action of Engineering, before making and a COVAVI-19 to with as a cancelled delayers.	9 - Industry, Innovation and Industrialization 1.17 - Partnerships for the Goals	OSCU: 121 (History, Selectory) GCRS: Equitable Access to Sustainable Development OECD: 232 Energy generation, renewable sources	* Visit cancelled due to COVID-29	Ft: Giola Falcone@glasgow ac. uk UoNS: Many Ryan@glasgow ac. uk	Cthiopia										Directorate of Vestinisary Services, Retigs Ethiopian Electric Power, Ethiopia	ENG2.07		01/09/2019 1	1/07/2020
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						Creation of a waste management community in Uganda commissed of less statished form I Industrials of Malazana											
			This project focussed on building the foundational research skills and evidence to support a plastic waste reduction project in schools and marginalised communities in urban Uganda. The			Kampala City Council Authority, AEF Alumni 2019 and 5 primary schools in Kampala City. * Capacity strengthening programme ran in 5 primary schools in											
			It is project trectated on susking the standardous residents used and evaluate to support a man support trectate on susking the standardous products and evaluate the support has prefer to the support of the support o	6 - Quality Education 6 - Clean Water and Sanitation 12 - Basennishla Consumption and		fampala involving provisions of waste and composting bins and alternative solutions (re-cycling and re-using of plastic waste). This helped reduce the waste normally bunned by these schools. More than 250 qualis and teaches benefitted from these											
26	autic arts and EcoAction through education	UatG SFC 099	Council, five primary uchook in Xampala, etc; 2) built capacities in waste management in these sthools and stakeholder organizations; 2) strengthened Reagan's capacities in research, documentation, project management and community engagement.	12 - Responsible Consumption and Production 17 - Partnership for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 540 (Water Supply and Sanitation)	programmes. * Educational manual on waste management co-produced with local stakeholders	Pt: Mia.Perry@glasgow.ac.uk UoNG: Many.Ryan@glasgow.ac.uk	Uganda						Apala Widows and Orphanage Centre, Uganda	£10,071.98	01/09/2019	21/07/2020
			This project aims to provide Masters training in Developing and Evaluating Interventions at Glasgow University for a promising female early career mental health practitioner in Palestine. This should strengthen Palestinian capacity to develop interventions in a loadcal, evidence—														
			Gasgow University for a promising female early career mental health practitioner in halestine. This should menighten Palestinian capacity to develop interventions in a logical, widence- lassed way, to evaluate their contempological early explain these extremes through process evaluation, thus improving the effectiveness, efficiency and sustainability of health intervencions in Palestinn. All Solids has stateded there core concurs and three selected the explaint of the palestinn and solid has stateded there core concurs and three selected the explaint of the palestin and solid three selected.	4 - Quality Education		* Development of an evaluation strategy for the Guidance and Training Centre for Child and Family * Completion of a Masters programme with a focus on											
A.	Sc Developing and Evaluating Interventions studentship for a' Suboh, Projects Coordinator, Bethlehem, Palestine	UalG SFC-037	courses and attained suitable marks to proceed to conduct her masters dissertation which is to develop an evaluation strategy for her NGO in Palestine. This is in progress. Blegal mining activity is thriving in Osun and Oyo States of Nigeria. Crude manual extraction	3 - Good Health and Well-Being 17 - Partnership for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 114 (Post-secondary education)	* Completion of a Masters programme with a focus on monitoring and evaluation strategies	Pt: Danny, Wight (figliasyow.ac.uk Lioh): Many, Ryan (figliasyow.ac.uk	Palestine						The Guidance and Training Center for Child and Family, Bathlehers, Palestine	625,728.67	01/09/2019	21/07/2020
			methods are being employed by non-natives and foreigners. Their activities are having serious	6 - Clean Water and Sanitation													
* Planned workshop could not proceed due to COVID-19. This will take place in 2020-21 using funds from the 2020-21 No. 10 pt 10 p			mining there which has resulted in catastrophic socio-environmental impacts. The meetings that were able to proceed highlighted similarities and differences between both contexts and the mutual learning opportunities that further collaborations could feater. Due to the Covid-19	6 - Clean Water and Sanitation 9 - Industry, Innovation and Infrastructure 12 - Responsible Production and Consumption 17 - Partnerships for the Goals		* 8 attendees at Knowledge Exchange meetings in January 2000; where gaps in the knowledge around social impacts of artisanal mining were identified.								First Technical University, Nigeria;			
allocation.	gerun inggil mining: can we want from colombian worst actice' to awert catastrophic socio-environmental impacts?	UatG-SFC-001	pandernic, a planned project meeting in season (warrs Aulou) was canceled and the associated activities have been postponed to 2009-2021. The orimary aim of the project was a workshop with scholars from India, indonesia, Japan, and	17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 220 (Industry, Mining, Construction		Pt Mia Perry@glasgow.ac.uk UolG: Mary Ryan@glasgow.ac.uk	Nigeria	Colombia					University of Cartagena, Colombia	£3,695.31	01/09/2019 on	going
			The primary aim of the project was a workshop with scholars from India, Indonesia, Japan, and Australia, who collaborated on developing research proposals since April 2017. The workshop and the primary of the prima			* 8 participants from India and Indonesia at a 3-day knowledge exchange workshop covering issues related to resilience, adaptation and disaster risk reduction scross disciplines from the Arts and Humanities, regiseering and technology. * Funding proposal submitted to AHRC. £299,798. Outcome:											
To Co	ward Equitable Resilience: Social-Ecological Systems in the langing Climate of the Indian Ocean Littoral	UaliG SFC-100	Glasgow City Council's resilience programme was present as well.	13 - Climate Action 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 430 (Other Multisector, 43060)	the Arts and Humanities, engineering and technology. * Funding proposal submitted to AHRC. £299,798. Outcome: Unsuccessful.	Pt: Ophira. Gamilel@glasgow. ac.uk LiofG: Mary. Ryan@glasgow. ac.uk	india	Indonesia					Kerala State Higher Education Council, India; University of Hyderabad, India; Indonesian Institute of Sciences, Indonesia	£21,145.33	01/09/2019	21/07/2020
* Planned workshops and data collection could not proceed due to COVID-19. These will take place in 2020- 21 using funds from the 2020-1d 21 allocation.			Illiot trade of birdfile in indonesia is of global concern and hugely underestimated. This projects insolving meetings, exchanges and satellite activities, examines say howedge gaps regarding this life's trade by providing a forum for neuel collaborations among zoologists, conominists and sociologists. We explore new measures to change behaviour in wildlife trafficaes and consumers, as well as determine the effect that trade has on wide populations of rare and consumers, as well as determine the effect that trade has on wide populations of rare and			* Planning and organisation for the meeting was completed											
21 using funds from the 2020-1d 21 allocation.	entifying a novel approach to tackling the illegal trade of diffe in Indonesia	UaliG SFC-101		15 - Life on Land 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 410 (General Environment Protection)	Planning and organization for the energing was completed prior to carellation due to COVID-19 * Oraft questionnaires on behavioural interventions produced	Pt: Chloe Heysiffglasgow.ac.uk UofG: Many.Ryan@glasgow.ac.uk	Indonesia						Wildlife Conservation Society, Indonesia	£20,107.19	01/09/2019 on	going
* Planned workshop could not			The main aim is to create the conditions maded for effective unlearing development reperation around cancer research in Malane. We developed a co-design approach that modeled a private large periva-verbody of the main sidesing stage (deviction) in Malane. The main Malane workshop (16-10 Mann) was consoled due to Conditió Neaver, due to the agreement period of the condition of the condition of the condition of the condition of perparation period group, we were accessful in developing their adjustations and steper alignment around a common purpose and understanding between partners in Chappe and Malane. In another, objected preferred in conditions of the condition of Malane. In another object to condition terreture in foliation conditions in the condition of Malane. In another objects or the condition of the condition of Malane. In another objects or the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condit			* Joint Malawi-Glasgow stakeholder group (12 Malawi-based											
proceed due to COVID-19. This will take place in 2020-21 using funds from the 2020-21		U-40 FFC 880	the preparatory pre-design stage, we were successful in developing shared aspirations and a deeper alignment around a common purpose and understanding between partners in Glasgow and Malawi. In particular, collective interests in clinical cancer research, patient priorities,	3 - Good Health and Wellbeing	GCRF: Equitable Access to Sustainable Development	convened and identified key areas of focus. * A Glasgow beam member has been added to the PRD.	Pt: Nicol Xeith@glasgow.ac.uk UoNS: Mary-Ryan@glasgow.ac.uk	Malant							(10.340.00	as parasses	
areciston.	romiguing resiste candicapes in Cancer Research Malawi	Danie SFC-001	education and training, infrastructure and environment. To create a dynamic illustrated children's book with moveable elements to educate on gravitational wave, translated to Marathi, to help encourage children, particularly between 6-8	17 - Partnerships for the Goals	OECD: 123 (Non-communicable diseases)	supervisory group for a member of Malawi's Ministry of Health	one may selegyagow scus	made)							110,749.96	ou, tany zasokion	
			To create a dynamic illustrated children's book with mowable elements to educate on granitational waves, remotives to Marzell's, to help encourage children, particularly between 6-4 years old, it in fast or borrious shows stressory. There is a unique opportunity to premise that Management of the Children's device the building of the LIGO losing previously wave observatory and the book is a round lost of this. Furthermore, bud communities to the development of the Children's communities to the development of the children's communities to the development of the children's communities and control of the children's communities and control of the children's			* Bustrated children's book on the topic of gravitational waves and with moveable parts produced. The book is targeted at children aged 6-8 years. * The book will be launched and distributed to schools in the											
* Official launch and IB distribution delayed due to pr COVID-19 co	ustrated children's book on gravitational wave astronomy- ometing partnerships and education with local Indian mmunities	UaliG SFC-102	lower socioeconomic status, and this is an important time to create positive, long-term partnerships and to demystify science. The book contains movable gasels that allow children to manipulate flaps and show the effects of stretching and squeecing.	4 - Quality Education 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 112 (Basic Education)	areas around the LIGO India site.	Pt: Mariela Masso-Reid@glasgow.ac.uk UoNG: Mary Ryan@glasgow.ac.uk	India						Inter-University Centre for Astronomy and Astrophysics, India	£18,950.00	01/09/2019	21/07/2020
						* Virtual meetings and engagement have led to several successes * Building on a previous GCRF CR-funded project, a team member had successfully led implementation of SARF-CoV-2 full seconds semantine at the Lieumia More Description of the CoV-2 full seconds semantine at the Lieumia More Description of the CoV-2 full											
			This project was designed to bring together researches from the MSC University of Giargow Centre for Virus Research, the MSC (UMI) & 150TM Uggnds Research fulls and the KEMBI Wellcome Trust Research Programms, Fear, Two Stard-Sort enterligis were iglamed to facilitate the initial shaling of Resewings, expertise, technology and been practice, with the long-term size of inversibilities (possibly and capability in virial genomics and biointernations to long-term size of inversibilities (possibly and capability in virial genomics and biointernations to the control of the complete of the control of			member had successfully led implementation of SARC-CoV-2 full genome sequencing at the Uganda Virus Research Institute * Publication: doi: 10.1001/sHcD610.100575 * Ongoing development of a new online course on viral bioinformatics * Wellcome Trust application submitted. Value: £1,900,000.											
Sa	pporting the development of viral genomics & sinformatics capacity and capability in East Africa	UartG-SFC-103	traditate the initial sharing of knowledge, expertise, technology and best practices, with the long-term aim of strengthening capacity and capability in viral genomics and bioinformatics to address pressing viral-related public health problems in East Africa.	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development DECD: 121 (Health, General)	bioinformatics * Wellcome Trust application submitted. Value: £1,900,000. Outcome: Successful	Pt Maria McPhillips@glasgow.ac.uk UofG: Mary.Ryan@glasgow.ac.uk	Uganda						MRC/Uganda Virus Research Institute, Uganda; LSHTM Uganda Research Unit, Uganda; KEMSI Wellcome Trust Research Progamme, Kenya	69,225.15	01/09/2019	21/07/2020
			Group 8 Streptococcus (GBS) is an important cause of neonatal mortality in Ghana. Infections can be treated by providing antibiotics but current diagnosis is complex and expensive, while														
* Planned workshop and demonstration cancelled due to COVID-10 New victual			and be interested by the president of the program of the control o			* A demonstrator kit was developed to perform a mock detection of GSC in order to facilitate virtual training. This kit											
* Planned workshop and demonstration cancelled due to COVID-19. New virtual meetings have been scheduled for late 2020. di	ct-finding and user-centred approach to new point-of-care agnostic for Group & Streptococcus (G&S)	UalG SFC-106	commitments in managing the pandemic in Ghana, this was not possible. He is now invited to online workshops from a new EPSRC network grant in August and September.	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	A demonstrator kit was developed to perform a mock detection of GGE in order to facilitate virtual training. This kit was used as the template for remote training activities related to COVID-19 in Mataut.	Pt Julien Reboud(Fglasgow.ac.uk LiofG: Mary-Ryan(Fglasgow.ac.uk	Ghana	Malawi					* University for Development Studies Medical School and Walewale Hospital, Ghana	6785.00	01/09/2019	21/07/2020
I Date and another			teequitable public resource allocation is one of the major challenges in achieving sustainable			Census and household datasets acquired for Delhi and Dhaka Preliminary data analysis offers initial evidence for improving wellbeing through the build environment, including housing and											
proceed due to COVID-19 and will now take place in 2020-21 using funds from the 2020-21 Ec	july Impacts of Housing and Lirban Amenities for		resignable public resource silication is one of the major challenges is activising estationish wedgement gash in South Asian Celes. This proposed challenges current planning practice plant resource additionable where neighborshoots are detended and proposed proposed proposed proposed and the proposed proposed proposed proposed proposed which are wedges conditions of such-upstal disadventaged communities focusing on Delhi and dashs.	1 - No Poverty 11 - Sustainable Cities and Communities	GCRF: Sustainable Economies and Societies	*Census and household datasets acquired for Debit and Ohaka *Perilinizary data analysis offers initial evidence for improving settlering through the build environment, including housing and soften amendies *Walstan development work is ongoing *Walstan development work is ongoing *Core publication submitted and under review *Core publication submitted *Core publication	Pt Sohall Ahmad (Figlangow ac uk							School of Planning and Architecture, India; Khulna University, Bangladesh;			
allocation	stainable Development in South Asian Oties	UalG SFC-107	Shaka. The overall purpose of this project is to work with spousal couples from low-income families to executing them to reflect on goder norms and to provide them with some of the competencies meeded to address unequal proder relations which their own households. To	17 - Partnerships for the Goals	OECD: 160 (Other Social Infrastructure & Services)	visualisation.	UoNG: Mary Ryan@glasgow.ac.uk	india	Rangladesh					National Institute of Lirban Affairs, India	62,043.75	01/09/2019 on	ping
* Planned workshops and data collection could not proceed due to COVID-19.			achieve this end, two specific objectives were set up, namely: To co-produce a programme on reducing gender inequalities in informal settlements and pilot it to maximise the design: To			* Programme to reduce gender inequalities successfully developed with local stakeholders in Botswana, Kenya and Tanzania											
These will take place in 2020- 21 using funds from the 2020- 21 allocation.	ducing Gender inequalities in Botswana, Kenya and nzania	UalG-SFC-108	critically examine the real-life impact of the programme on participants' gender attitudes and family lives. The programme was successfully developed, while piloting the programme and examine the real-life impacts have been delayed by COVID-19.	3 - Good Health and Well-being 5 - Gender Equality 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 151 (Government and Civil Society - General)	Initial planning for 4 pilot workshops completed 9 Pre and post programme surveys have been developed to assess the impact of the programme.	Pt: Katarzyna Scrkowska@glasgow.ac.uk UoNS: Mary Syan@glasgow.ac.uk	Kenya	Tanzania	Rotewana				University of Dar-es-Salsam, Tanzania; Strathmore University, Business School, Kenya; University of Botwana, Botswana	629,613.14	01/09/2019 on	going
* Planned workshops and data collection could not proceed due to CVID-19. These will take place in 2020- 21 using funds from the 2020- 21 allocation. * Key objectives could not proceed due to CVID-19. The project will progress in 2020-21 allocation.	aliding single cell and bioinformatic analysis casability with		The project enabled a LioG registered, Kenyan PhD student, Rowland Osli to undertake training and data analysis in single cell genomics. CDVID-19 severely disrupted the planned activity, but Rowland has been remotely trained in bioinformatics analysis and has been engaging with LiofG	3 - Good Health and Well-being 4 - Quality Education 17 - Partnership for the goals	GCRF: Equitable Access to Sustainable Development	* One Kenvan student has been trained in biginformatics	Pt. James Brewer Belaseaw ac uk							Kenya Medical Research Institute/Wellcome Research Programme, Kenya Pusati University, Kenya			
2020-21 allocation.	nya	UalG-SFC-109	colleagues remotely.	17 - Partnership for the goals	OECD: 122 (Basic Health)	* Article published: doi: 10.3389/Ymmu 2020.01597 * 80 community members received training in agroecology * 40 community members received training in ethnoveterinary	LiofiG: Mary Ryandi glasgow ac uk	Kenya						Pward University, Kenya	649,525.00	01/09/2019 on	poing
* Planned workshops and knowledge exchange events			the am of this project was to eighter from university researchers and hauts could work on citizen science environmental initiatives in diagenous communities in a wey that is community led, and driven by participants' on the ground needs. The objectives of the project were to earlier her communities could be supported to lead their own water management. Through	6 - Clean Water and Sanitation		* du community members received training in ethnovetennary medicine * 46 community members received training in livestock management											
could not proceed due to COVID-19. These will take Co place in 2020-21 using funds in	emmunity Led Science for Climate Adaptation: Supporting digenous Water Management in Chiapas and Dasaca,		The aim of this project was to explore how unknownly researches and MCOs could work on citizen science environmental failures in bedgencommunities in a way that is community as, and alies by participants on the good and seed. The objectives of the project warrs to explore how communities could be supported to leaf their new water measures. Through partnership with four communities and composed and explored and establishment, we aims partnership with four communities and communities and an advanced and an advanced and an accordance of the communities of the communities of the communities of the communities of the accordance of the communities of the communities of the communities of the communities of the accordance of the communities of the communities of the communities of the communities of the accordance of the communities of the communities of the communities of the communities of the accordance of the communities of the communities of the communities of the communities of the accordance of the communities of	6 - Clean Water and Sanitation 11 - Sustainable Cities and Communities 13 - Climate Action 17 - Partnership for the Grain	GCRF: Sustainable Economies and Societies	40 community members received training in ethnoveterinary sedicine 46 community members received training in investock strangement 7 staff members at the partner institution involved in developing no approachingistal but	Pt Emma Cardwell@glasgow.ac.uk							Schools for Chiapas, Mexico Association for Economic and Social Development of Indigenou			
from the 2020-21 allocation M	exico	UatG-SFC-068		17 - Partnership for the Goals	OSCD: 540 (Water Supply and Sanitation)	icgagement strategies	Liofii: Mary Ayan@glasgow.ac.uk	Mexico						Mesicans, Mesico	640,843.56	01/09/2019 on	ping
* Planned meeting could not			becades of civil war have had long-listing impacts on South Sudan, including its technical spaciny to manage the country's rich biological develope; The Kome Madinglino Cambella spaciny to manage the country's rich biological develope; The Research Lindon Cambella space of the Research Lindon Cambella space and Cambella space and Cambella space and South States (the Indignation is almost non-waitered. Through reciprocal meeting in Charges and South States, the Indignation is almost non-waitered. Through reciprocal meeting in Charges and South States, the Indignation States States (the Indignation Cambella States (the Indignation Cambella States).			* Joint submission of £353,767 proposal to the DFID Darwin								University of Juba, South Sudan Tanzania Wildlife Research Institute, Tanzania			
* Planned meeting could not proceed due to COVID-19. These will take place in 2020- 21 using funds from the 2020- 21 allocation.	eveloping regional south-south-north capacity to study long- stance migrations in South Suries	UalG-SFC-13h	project aimed to strengthen internal capacity for South Sudan research on long-distance migrations by (1) enhancing south-south scientific knowledge exchange between Sast African countries, (2) developing a GIS database for the ecosystem, and (2) developing joint funding proposals.	15 - Life on Land 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies GECD: 410 Sciences Engineerant Endantion'	* Joint submission of £261,767 proposal to the DRID Darwin Initiative. Outcome: unsuccessful * Datasets developed, cleaned and a GIS database developed * New collaborations formed with Ethiopian colleagues as part of the anoise.	Pt:Thomas.Morrison@glasgow.ac.uk UoNG:Many.Ryan@glasgow.ac.uk	South Suden	Kena	Tanzania Ess				Tanzania Wildlife Research Institute, Tanzania University of Nairobi, Kenya Deutsche Gesellschaft für Internationale Zusammenarbeit Ethicolal	£44,976.00	01/09/2014	eoine
			This interdisciplinary project interrogated the new ecologies built by residents in the fast- growing Dzaleka refugee camp in Malawi. Glasgow and LUANAR University researchers	an angular and solding	,		Total Englishment			- Joseph							
			power collaborated with camp residence and the NGO ADO (Charch Ad and Relief Development) to analyze the farming practices and alternative modes of organizing everyday life that camp resident develop through citizen science and creative goo-visualization methods, including water, oil and a quality moralizing, majoria and walkfer interniews. Camp residents	No Poverty Good Health and Wellbeing Clean Water and Sanitation Reduced Inequalities G-Peace, Justice and Strong Institutions		Participatory research design with camp residents Symposium attended by 34 camp managers, community leaders and NGO practitioners to share project findings and											
G	erdens Can Grow Here: Humanitarian Place Making, Citizen lence, and Farming Expertises in Refugee Camps	UaliG-SEC-111	water, roll and air quality most rolling, supplied and send was got various got water, so and an applied that supported by Glasgow and LLLANAR researchers. Perliminary findings were presented to community leaders and NGO and UNHCR practitioners in Ozaleka during a Local Symposium.	16 - Peace, Justice and Strong Institutions 17 - Partnerships for the Goals	GCRF: Human Rights, Good Governances and Social Justice OECD: 720 (Emergency Response)	Symposium attended by 34 camp managers, community leaders and McO practitioners to share project findings and possible low cost responses to water and soil concerns identified 1° 3 participatory research videos produced by camp residents	Pt: Lazaros Karallotas@glasgow.ac.uk UoNG: Many Ryan@glasgow.ac.uk	Malawi						Ulongwe University of Agriculture and Natural Resources, Malawi Church Aid and Relief Development, Malawi	£70,968.64	01/09/2019	21/07/2020
			Sub-Suhuran Africa has the highest incidence, prevalence, and fatality from stroke globally, desentil lines of evidence support a link between inflammation and stroke; however, this introduced by the control of the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-														
* Majority of the work was			to date. We have proposed to measure a wide range of cardiometabolic, immune and inflammatory postein biomarkers in selected samples from the Stroke investigative Research and Educational Network (SREN) study, a multicenter, case-control study done at 15 sites in														
* Majority of the work was delayed due to the CDVID-19 outbreak and will progress in 2020-21 using funding from the 2020-21 allocation.	inflammation a risk factor for stroke in Niseri and Channel	IMG-GDC-117	Nigeria and Ghana. This approach is now possible due to Olink technology that will allow us to simultaneously assess around 400 blomarkers in few micros, of serum. The plan is to identify the main immune-inflammatory proteins lioked to stock devent and severity. At this stage, confidention of the assessmental protocol has been expended.	2 - Good Health and Wellbeing	GCRF: Equitable Access to Sustainable Development DECN: 123 Non-communicable disease.	 Optimization of experimental design has been completed. Application for £1m NHR grant "Systems-level immunosonitoring of COVID-19 Patients - Looking for Regional Differences in Sub-Saharan Africa". Outcome: Unaucceptful 	Pt: Pasquale Maffa @glasgow.ac.uk	Maria						Violumity of Barton Nissola	C3 968 05	01.09/2012	umine
	Jinkano ne svore i negra 353 (434)		This interdisciplinary proposal addresses a core problem in emerging economies of ensuring sustainable inclusion of urban marginalised young people within digitally enabled and data-	and the second second	, and a second	Personal Print Control Officerory	Calenda Bridger or vo							The state of the s	11,000.01		
* Not all components of the work could be completed due to COVID-19. This activity will take place in 2009-21 using funds from the 2020-21 allocation			driven smart cities of the global South. By foregrounding the learning needs, expectations and supirations of marginalised young people in India, the study advocated for an inclusive smart only that employs technology driven by social justice and active participation of all citizens. The	9 - Industry, Innovation and		* 2 book chapters and one report produced * Stakeholder meetings with 5-6 participants in each of 2 cities											
funds from the 2020-21 Ac allocation in	ddressing marginality and informal labour within smart cities India	UalG-SFC-113	This interdisciplinary proposal addresses a core problem in emerging economis of emuring sustandari inclusion of urban marginalised young people within digitally emisted and data propriets of marginalised people people in the first production of the production o	industrialization 10 - Reduced Inequalities 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies GECD: 160 (Other Social Infrastructure & Services)	held 1 30 interviews completed with marginalised young people	Pt Srabani Maltra (Fglasgow ac uk LiofiG: Many Ayan (Fglasgow ac uk	india							637,625.58	01/09/2019 on	going
			Total and the Control of the Control			* Primary datasets collected, transcribed, translated, analysed and stored securely * Booklet produced highlighting findings and a list of questions to facilitate clauroom discussions in local schools * Training in data collection, research ethics, data coding and											
			to falls parastessis, finalisted environments leads to pervasive uncertainty and limited appointment on the property of the p	4 - Quality Education 8 - Decent Work and Economic Growth		to facilitate classroom discussions in local schools Training in data collection, research ethics, data coding and entry, transcription and research logistics provided for 2 Kenyan season's scriptories.											
m	e insurance role of education in pastoralist communities.	UalG-SFC-069	so regizeve stocks, complementing of repairing tradecols risk metaplicin strategies (sevenoce hoarding, polyggry). Respondents typically recognised the importance of education in increasing the likelihood of obtaining alternative employment, but more general benefits of education were more rarely acknowledged.	Growth 11 - Sustainable Cities and Communities 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 311 (Agriculture)	research assutants: * Findings shared with local stakeholders including governments and non-governmental organizations via a policy brief and virtual workshops	Pt: Rebecca Mancy@glaugow.ac.uk UoNG: Mary.Ryan@glaugow.ac.uk	Kenya						Friends of Lake Turkana, Kenya	£27,545.84	01/09/2019	21/07/2020
* Some elements of the			Matibabu, a Uganda-based start-up company, developed a mobile phone-based personal device to diagnose malaria in a non-invasive manner, using optical features and magnetism.			Chaign issue identified during initial volt of Marbabu staff to Clargon in Dec 2019 **Device nedwigs completed, but testing and a second visit was not able to be completed five to CVOU-19 **Joshus Saistinge from Matbabu engaged in collaborative avaning on 30 principle for search prototyping, magnetic equipment set-up, training on 1 babVEW and malaria parasite callurine.											
* Some elements of the project could not be completed due to COVID-19. They will take place in 2020- 21 using funds from the 2020- 21 allocation D			Matibabu, a Uganda-based start-up company, developed a mobile phone-based personal elevic to diagnose relation is a non-baselse manow, usit optical features and magnetism. Any particular of the properties of the electronic monitoring of infection, coupled with respect to properties of the electronic monitoring of infection, coupled the properties of	2 - Good health and Wellbeing 9 - Innovation, Industry and Innovation 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Personness	not age to be completed due to COVID-19 * Joshua Businge from Matibabu engaged in collaborative learning on 20 printing for sensor prototyping, magnetic equipment set up, training on LabVISW and malaria namelae.	Pt Notrat Miczaidfelautowac uk										
21 allocation De	evelopment of a novel malaria diagnostic	UatG-SFC-064	feigh trials.	17 - Partnerships for the Goals	GECD: 122 (Basic Health)	culturing	UofG: Mary Ryandiglasgow ac uk	Uganda						Matibabu (ThinkiT), Uganda	£22,427.07	01/09/2019 on	joing

* The main data collection																	
* The main data collection component of this project could not proceed due to disruption form COVID-19. Due to changes in the availability of project staff, the 97 chose not to continue this project in 200-21.			Despite abundant mineral wealth, Chocó is the poorest department of Colombia, exacerbated by the rapid expansion of illegal gold mining and closely linked to Colombia's internal conflict.	6 - Clean Water and Sanitation 9 - Industry, Innovation and													
Due to changes in the availability of project staff, the PI chose not to continue	Indirect impacts of the socio-environmental conflict on		Despite abundant mineral wealth, Chood is the ponent department of Colombia, exacerbated by the rapid separation of Riging light onlineing and closely linked to Colombia's internal conflict. Our project aims to support communities in their straggle for waste infrastructure by focusing on the relationship between water quality and hashift using complementary could scientific, water chemistry and malicular genetic analyses. We trained a Colombian researcher in the UK, water chemistry and malicular genetic analyses. We trained a Colombian researcher in the UK.	Infrastructure 12 - Responsible Production and Consumption	GCRF: Sustainable Economies and Societies	* Female Colombian PhD student received training in Glasgow	n Pt: Martin. Llewellyn@glasgow.ac.uk						Un.	niversidad de Cartagena, Colombia			
this project in 2020-21.	communities' health in Chocó, Colombia	UalG-SFC-114	and members of the consortium visited Choco to initiate social scientific surveys.	17 - Partnerships for the Goals	OECD: 140 (Water Supply and Sanitation)	microbial and chemical analysis * Training of one female Malawian post-doc (Dr Tembo) in single cell RNA sequencing for parasites	UofG: Mary Ryangi glasgow.ac.uk	Colombia					Sec	cottish Catholic International Aid Fund, UK	642,778.52	01,0	31/07/2020
			Grada rell 2005 sanusacrine for 2665-sant is a transformative technology re-defining law years of			*Training of one fernále Malaviara poet-doc (Dr Terobb) is single cell BMA sequencing for parasitis *Training of malas College of Medicine junior staff member (Dr Kamwenda) in bioliformatics parabased and en-ouse *Submission of SCAQ 88 application on minimally invasive status sampling to the BIII and Medicine Gastee Foundation. *Dutomission of SCAQ 88 application to the Newton Fund or single cell literatory of cerebrating simple cell to progle cell literatory of cerebrating simple cells. Outcome: Succession of CRQ 88 application to the Newton Fund or single cell literatory of cerebrating simple pression. Outcome:											
			biology. The Wellcome Centre for Integrative Parasitology purchased a single cell device for Malawi, this grant then provided funds and harnessed Glasgow. Malawi expertise to establish this design in Malawi. — as the first single cell firetitive is cough Extend Aricy. We tended a			* Submission of £548,298 application on minimally invasive tissue sampling to the BIII and Melinda Gates Foundation.								dan of Medicina Mahud			
	IMPRESS: Integrative Malawi-Glasgow Programme for Research Examining Single cellS	Hade pro his	Single cell EVA sequencing (pcEX4-seq) is a transformative technology re-defining bay areas of soilings. The Wellcome Centre for Integrative Presentatings prochased a single cell device for the period of the pe	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	Submission of £1,009,108 application to the Newton Fund or single cell interrogation of cerebral pathogenesis. Outcome:	Pt: Christopher Moson@glasgow.ac.uk UofG: Mary.Ryan@glasgow.ac.uk	Marine					Sta Ma	antyre Malawi Project, Malawi Ialawi-Liverpool-Wellcome Clinical Research Programme,	ama	0.0	1000
	New Act Lines and Act Const.	0207370113	This interdisciplinary project including College of Social Science and College of Arts researchers	17-7-2 UNIT DIES IN DIE GOOS	CHCC- 222 (BBSC PROBIN)	ATRIAL CONTROL	One way space garges at or						ľ	MARK .	DANKA		22272020
 Workshop and data collection disrupted due to 			This interdisciplinary project including College of Social Science and College of Arts meanthers ortically examines the contribution made by make practice in developing passe educations and the contribution of the contribution of the contribution of the contribution of Social. Although Endown was disrupted by Conf. 50 Pilor pagint has dislivered revision of inference programmes, policies and degenization. The project benefitted practitioner, policy and research-leading to 100 Are explored contribution by highlight to develop research-information and research-leading research information by highlight to develop research-information and research-leading research information by highlight to develop research-information and research-leading research information of the contribution of the con	6 - Quality Education 10 - Reduced Inequalities		* Liberature review on role of music practices on peace											
* Workshop and data collection disrupted due to COVID-19. The project will progress in 2020-21 using 2020-21 funds.	The Role of Music Practices for Peace Education in Conflict (MuPPEC). A Scottish-Latin American Research Project.	UatG-SFC-116	relevant programmes, policies and organisations. The project benefitsed practitioner, policy and research-leaders in ODA-recipient countries by helping to develop research-informed- practices.	10 - Reduced inequalities 16 - Peace, Justice and Strong institutions 17 - Partnerships for the Goals	GCRF: Human Rights, Good Governance and Social Justice OECD: 151 - Government and Civil Society, General	* Literature review on role of music practices on peace education in conflict settings * Three ethnographic datasets compiled * Website and bing created (www.tai.international	Pl: Oscar.Odens@glasgow.ac.uk UofG: Mary.Ryan@glasgow.ac.uk	Mexico	Colombia	Brazil			~	utonomous University of Chihuahua, Mexico an N Corpas University Foundation, Colombia	£40,935.04	01/0	A/2019 ongoing
* Final testing of the sensor and in-person training of the Vietnames CCK was disrupted due to CVVD-19. The team intends to continue this work remotely in 2000-21 but do not required funding from the 2000-21 allocation to do so.			Streptococcus agalactiae (SAG) is a major pathogen of humans and fish, and an important threat to sustainable intensification of the acusculture industry, an economic ciliar for many														
Vietnamese ECR was disrupted due to COVID-19. The team intends to continue			low-resource countries in South-East Asia. This proof-of-concept study was aimed at adapting our lose-cost DNA origamis ensors to detect SAG in fait, directly on farms, enabling farmers to relate timely measures to not														
this work remotely in 2020-21 but do not required funding	Proving the feasibility of field-enabled authoren detection in		compression, agrantical powly is a report participan for instants are from, and an important monetast to sustainable instantification of the appropriate industry, an extension plant for many low-resource countries in Stadin-East Asia. This proof of consept study was aimed at adapting to the low-cost Old registeriameness to detect Stall in this, directly on their me, enabling faments that is training to the state of the training drug enablished the enablished area of the enablished area of the state of the state of the state of the state of the state of the that has and developed in one but confused preparation to allow larger relations to be procrossed. Volument, due to the COVID-19 enables, find level was not a provided and set procrossed. Volument, due to the COVID-19 enables, find level was not provided and the procrossed. Volument, due to the COVID-19 enables, find level was not provided and procrossed.	3 - Good Health and Wellbeing 9 - Innovation, Industry and Innovation 17 - Partnerships for the Goals	COST. Facilitable Assess to Facilitable Development		No. Letter Reduced Reducers and										
to do so.	Sish farms in Vietnam	UoNG-SEC-078	carried out in future by the Vietnam collaborator.	17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	* New point-of-need paper origami SAG sensor developed * Content on women for South African History Online has been	Pt Julien Reboud@glasgow.ac.uk UafG: Many.Ryan@glasgow.ac.uk	Vietnam					*#	Hue University of Agriculture and Forestry, Vietnam	£64,913.42	01,0	31/07/2020
						**Content on women for South African Nistary Online has been collated, gathered and edited **New material created for the website, included videou, resurcipits and ternsistation of letterviews **6 training workshops with D2-30 participants each led by the customs of the Simon's Town Museum **Interest upskilled in editing audio-visual content **New collaboration formed with the Simon's Town Museum, **New collaboration formed with the Simon's Town Museum,											
			This is a collaborative research project with the organisation and celine resource South African			* 6 training workshops with 20-30 participants each led by the curator of the Simon's Town Museum * Interns upskilled in editing audio-visual content											
Some elements of the project could not be completed due to COVID-19. They will take place in 2020-			This is an enabled order presently registed with the organization and politic resource South Atticos tomory Called Schling. The primary aim of the opport was to those on the allowed so periphenical curvatures of Scuth Attics, challenging dominate flatories, with perticular sensi- pant to working with women't volces. This project has gathered over content for their open- ances platform, creating new tracking resources, included on their promisity groups as caseigned and sautovity in even associated with the committee of the community groups are designed and sautovity in even associated with the other community groups are singlessed and sautovity in even associated and are supported to the community of the community of the community groups are sometimes of the community of	5 - Gender Equality 16 - Peace, Justice and Strong		* New collaboration formed with the Simon's Town Museum, the Western Cape's history of forced removals * Electronic equipment (flatbed scanners, hard drives, laptops, tablets, monitors) have been purchased for SAHO and the											
They will take place in 2020- 21 using funds from the 2020- 21 allocation	Capturing Silenced and Periphersized histories of South Africa Expanding and building South African History Online	UatiG-SFC-117	access platform, creating new teaching resources, instigated or all history community groups and designed and launched a new associated archive for the community in museum in Simon's Town.	16 - Peace, Justice and Strong Institutions 17 - Partnerships for the Goals	GCRF: Human Rights, Good Governance and Social Sustice OECD: 151 - Government and Civil Society, General	tablets, monitors) have been purchased for SAHO and the Simon's Town Museum to increase their capacity for capturing and archiving material safely.	Pt: Alexandra Ross@glasgow.ac.uk UoNG: Many Ryan@glasgow.ac.uk	South Africa					Sou	outh African History Online, South Africa	£33,528.06	01/0	A/2019 oneoine
			This project compares local community-based security models in Negal and Myanmar to assess why and how looting of cultural heritage takes place. It explores key issues and industrialistics.			* Preliminary research findings show theft, looting and trafficking of cultural objects is onegoing in Mysperse and Nanol											
* Some elements of the project could not be completed due to COVID-19.			This project compares local community-based searchy-models in Height and Myammar to assess why and two local or Guntual herbigat placings in the agrowing values and stathshofters related to the custodiarehy of mousble cultural herbiga, which is childrigh low the pressures of glidalizations and post-amphiquals restraction inference relevant to improvement transplant. This project results is an evidence-based countries of big local provention strategies. This project results is an evidence-based countries and for local most providence strategies, sold in Myammar and Height which demonstrates the plight individuous and comment and and formal countries and results of the providence and comment and and formal countries providence strategies, sold in Myammar and Height which demonstrates the plight individuous and comment and and formal contemporaries and and the sold of the sold in the strategies of the sold in the sold i			*Preliminary research findings show theft, looting and ratificating of cultural objects is ongoing in Majoranar and Nepal for cultural herbitings can be a powerful text for social cohesion. *Lill interviews with relevant stakeholders completed *Cohowledge exchange workflowp with 55 participants *Copacity building session with 57 stenders *Advisory meetings and report for the Department of *Advisory meetings and report for the Department of											
"Some elements of the project could not be completed due to COVID-19. They will take place in 2000- 21 using funds from the 2020- 21 allocation	Global synchronization and the Illicit antiquities trade: understanding community crime prevention in post- earthquake Nepal and Myanmar		demonstrates the (in)effectiveness of current formal and informal crime prevention strategies, leading to more effective crime prevention strategies, policy change and increased public	16 - Peace, Justice and Strong Institutions 17 - Partnerships for the Goals	GCRF: Human Rights, Good Governance and Social Justice OECD: 151 - Government and Civil Society, General	* Capacity building session with 67 attendees * Advisory meetings and report for the Department of	Pt: Emiline Smith@glasgow.ac.uk						My into	lyanmar Archaeology Association, Myanmar ternational Council on Monuments and Sites, Nepal			
21 allocation	earthquake Negal and Myanmar	UnitG-SFC-118		17 - Partnerships for the Goals	OECD: 151 - Government and Civil Society, General	econology .	UofG: Mary Ayangi glasgow.ac.uk	Nepal	Myanmar				UN	NESCO Yangon, Myanmar	£36,240.95	01,0	A/2019 ongoing
* Some elements of the			This project aims to evaluate the techno-economic and social feasibility, and socio- sessivoramental impacts of biomergy teignaenation (plicitricity, class cooking fast, and green sail conditional yighteen that tacklet the triple crisis of pore electrication, household air pollution, and terminad contamination in rural bods. This yetteen is called BioTig. A project workholp shas here had in November in indict of document of finalise action plans. A questionant's has been	1 - No Poverty 7 - Affordable and Clean Energy 9 - Industry, Innovation and		 Models developed to predict bicoil and blochar production under different conditions Life cycle assessment and cost-benefit analysis have been conducted 											
project could not be completed due to COVID-19. They will take place in 2020-			been held in November in India to discuss and finalise action plans. A questionnaire has been developed to understand the energy, resource, and new technology acceptance of rural households in India. Chemical process modelling, life cycle assessment and cost-benefit analysis has been conducted to evaluate the environmental impact and economic feasibility of	9 - Industry, Innovation and Infrastructure 12 - Responsible Consumption and Production		conducted * Questionnaire has been developed to understand socio- economic impacts * Funding application to UKRI for CQ,178,791 on waste							Cos Tos Cos	ouncil of Scientific and industrial Research - Indian Institute of oxicology Research, India ouncil of Scientific and Industrial Research - Indian Institute of			
21 using funds from the 2020- 21 allocation	Feasibility and impacts of Bioenergy Trigeneration systems (BioTrig) in disadvantaged rural areas in India	UatG-SFC-119	analysis has been conducted to evaluate the environmental impact and economic feasibility of BioTrig.	Production 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 232 (Energy generation, renewable sources)	management roadmaps was submitted. Outcome: Unsuccessfu	Pt: Siming You@glasgow.ac.uk UoNG: Many.Ryan@glasgow.ac.uk	india					Pet Gri	etroleum, India ram Utthan, India	£51,173.06	01,0	A/2019 ongoing
						* Study results disseminated through individual tailored meetings for previous study participants (60) and staff, the Blanton Community Manife Advisory Group (65) martiral staff											
						meetings for previous study participants (EQ) and staff, the blankye Community Health Adultory Group (EG), medical staff at the Queen Elizabeth Central Hospital and Gateway Clinic, on presentation at the Solnt University of MalawijAk W Annual Research Dissemination Conference, and the influence	4										
			The key aim of this funded activity was to communicate the findings from my PhD, that identified a high burden of influenza infection in adults in Blantyne, Malawi, and also highlighter MV infection, household crowding, poor sanitation and food insecurity as significant risk			Surveillance Task Force, Public Health Institute of Malawi and Ministry of Health											
	Return visit to Malawi to disseminate PhD research findings	UalG-SFC-120	factors for symptomatic influenza and severe disease. This occurred through dissemination meetings/forums with the relevant and interested stakeholders in Malaus.	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	* 91 has agreed to provide ongoing epidemiological support an facilitate laboratory support for national influenza surveillance	Pr: Antonia Hodfglasgow ac.uk UofG: Mary Ryandfglasgow ac.uk	Malawi					Ma	lalawi-Liverpool-Wellcome Trust Clinical Research Programme, Ialawi	£3,905.45	01/0	A/2019 31/07/2020
						* Six modules on grief and mourning developed for community leaders and Discour members to support gireving throllies who bourning riskals have been severely disrupted by COVID-10. Workshop delivered to approximately 100 participants on the use of these modules. * * Development of public health and containment measures for											
						Workshop delivered to approximately 100 participants on the use of these modules. * Development of public health and containment measures for											
						COVID-19 that are grounded in local traditional knowledge - th includes innovative public health messaging, such as the use of	•										
			Chocó, the pocrest and most ethnically diverse region of Colombia, has been living through a humanitarian crisis for decades due to armed conflict. The region is extremely suinerable to the			https://witter.com/ChocoSories/utshu/12236518672997322 2. The audio visual campaign had over 1280 views as of Number 1st. * A report was produced by the Diocese on lessons learned,											
			effects of the CUVI-19 panether, I life action research project enhanced the capacity of the Blooses of Quibdd – a member of Choch's Energency Response Committee – to respond to COVID-19. It developed local collective responses to the pandemic, based in recognition,			November 181. A report was produced by the Diocese on lessons learned, drawing on surveys and interviews with key local stakeholders.											
			Dock, the powers and most enthicitied, durine region of Colombia, has been living through a humanization critic feedered due to armod colomit. The region is enterin-volumental to the effects of the COVID-18 pandemic. This action research project enhanced the capacity of the Docuse of Colombia – number of Chood's Timeregor Response Committee—1 respond to COVID-10. If developed local collection responses to the pandemic, based in recognition, respect and learning from the common and their entained challenges from the distinct communities due to power, perspective Countries, and deven levelshood and cultural practices. The project's visit public beath measures and englishessical import reach algorate. Spicio.			A report to an product of your country of the count											
* Rapid Response COVID-29 Project	COVID-19 Response in Chocó, Colombia	UatG-SFC-124	people in total. These responses are generating best-practice lessons for future crisis planning is Choos and other fragile contexts.	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	Individuali) to incentivise participation in public health Initiatives.	Pt: Mo.Hume@glasgow.ac.uk GofG: Mary.Ryan@glasgow.ac.uk	Colombia					Die	locese of Quibdo, Colombia	£152,332.47	01/0	5/2020 31/12/2020
						* COVID-19 data collected via links with hospitals. Data collected includes ventilator occupancy, respiratory diseases mortality and other key indicators. Data is available at											
						https://public.tableau.com/profile/victoria.castro#i/victome/li onitoreocasosiRA/MONITOREONACIONALCASOSIRA	1										
			The Venezuelan economy has collapsed during the socio-political crisis that has gripped the country.>1.6 million citizens have fled to Colombia. Eighty percent of Venezuelans now live in extreme poverty. This hand-to-mouth screanio frustrates COVID-19 quarantine measures.			across Venezuela, Colombia and Ecuador, with manuscript published:											
			scorery, 9-16 mission citations have med to controls, lightly percent of vericolations now use a eathrem powers, This hand-to-most bis certain for traines COVID-19 quarantine measures. Healthcare infrastructure has also collapsed. Hospitals lack water, electricity or basic sanitary products, interes urbanisation, high population density, poor laring standards, and a dispositate healthcare infrastructure make vicescuels acustly and perhaps uniquely ensitive to the COVID-			preps://www.ncb.mm.nm.govjpmc_arccse/yen.essees/y * Spatiotemporal modelling of the epidemic is ongoing and has produced two monthly reports so far that document saturated before capacity, carefly widespread under reporting, and predict the peak of the epidemic in December 2000.											
			product. Interne urbanisation, high population dernity, poor living standards, and a dilapidate healthcare infrastructure make Venezuela acutely and perhaps uniquely sensitive to the COVID 10 pandemic. Meanwhile-the-Venezuelan-government-actively-supresse-health-data. Our aim was to leverage our existing GCRF network (VeCcolvin www.bduenezuelanetwork.com) to			testing capacity, quantify widespread under reporting, and predict the peak of the epidemic in December 2020. * DNA sampling and genetic epidemiological analyses suggest											
* Rapid Response COVID-29 Project	New tools for indirect and in situ mapping of COVID-19 transmission in Venezuela and Venezuelan migrants in Colombia	UatG-SFC-12S	was to Inverage our existing GCRF network (VeConVen www.ubdennouelanetwork.com) to deploy alternative surveillance tools to delineate COVID-19 epidemiology in Venezuela and dentify appropriate control measures.	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	multiple introductions of COVID-19 into Venezuela early in the outbreak follow by autochthonous community transmission later on.	Pt: Martin Llewellyn@glasgow.ac.uk UofG: Mary.Ryan@glasgow.ac.uk	Venezuela	Colombia				Un.	niversidad de Rosario, Colombia	£130,632.12		31/12/2020
						* Provision of critical PPC supplies for laboratory and clinical staff * Support for development of protocols for sample collection											
			The project aimed to provide critical support for Killmaniaro Clinical Research Invitions INCDE			start * Support for development of protocols for sample collection and testing (7 new COVID-19 SOPs have been developed for sample collection and transport, specimen receiving, sample in activation, nucleic acid extraction and qPCR based diagnostic											
* Rapid Resonant (Chillin on	COVID-19 Laboratory Diagnostive Connect for Allianning		The project aimed to provide critical support for Kilimanjaro Clinical Research Institute (GCRI) to establish capacity for COVID-19 diagnostics, geoomic analysis and epidemiological studies. During implementation some objectives were changed and funds were reallocated from diagnostics to purchase PPE and provide additional time support for clinical staff respecding to	3 - Good Health and Wallhain	GCRF: Spuitable Access to Guntainable Penul'	* Salary support for clinical and laboratory staff working to	Pt to Halidavillelaserw w 14										
Project	Clinical Research Institute	UatG-SFC-126	the COVID-19 outbreak.	17 - Partnerships for the Goals	OECD: 122 (Basic Health)	* Delivery of diagnostic test supplies for KCRI	GolG: Mary Ryandiglasgow.ac.uk	Tanzania					ion.	limanjaro Clinical Research Institute, Tanzania	£142,975.00	01/0	5/2020 30/09/2020
			The UGANCOSER project supported the creation of a Ugandan biorepository (a secure freezer with known content of biological samples linked to a database describing the sample origins) of														
			The UCANCOSTR project supported the creation of a Ugandam biorespository (a secure Preservant Novem content of biological surpoles toked to a distribute describing the surpole recipited of book unaples hand/OU-16 playsets and contensely, controls, it septembers with the liquids. Ministry of Health, two COMO-15 ampling atter at Enrichbe and Massiak Regional Referral happishal were established and upported to tack and sample; COMO-15 amplies through the content of virus infection), appropriate blood samples and circuit distributions were collected from cauce seasor loss that set of referration and appropriate should be contented to were collected from cauce seasor close to the set and of referration and proportions.														
			Respiratory awabs (for confirmation of virus infection), appropriate blood samples and clinical information were collected from autor scare close to the start of infection and appropriate times post-infection. Samples from this biorepository will be used to evaluate commercial and subvivus immonstrator to identify the more suitable test for countendation usualizance to make the start of the post-infection.			* Creation of a biorepository of blood samples from CDVID-19 patients and community controls * Two samples sites established and supported to track and											
* Rapid Response CDVID-19 Project	Uganda COVID-19 Serological Responses (UGANCOSER)	UalfG-SFC-127	in-house immunossays to identify the most suitable tests for countrywide surveillance to understand the prevalence of COVID-19 infection in Uganda.	3 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	cample COVID-19 cases	Pr: wnan. Willett@glasgow.ac.uk UofG: Mary Ryan@glasgow.ac.uk	Uganda					MS	RC/UVRI & LSHTM Uganda Research Unity, Uganda	£142,350.07	01/0	5/2020 30/09/2020
			The epidemiology of COVID-19 in Africa is poorly described. Healthcare workers (HCW) in Malawii are particularly wilnerable due to poor access to personal protective equipment (PPE)			* Cohort of 150 healthcare workers and 150 community members recruited, with testing for SARS-CoV-2 and data collected on various variables conducted at 4 and 8 weeks post											
			The optionsoling of COVID-19 is Artica is poorly described, Healthcare workers (HCR) in Middless are particularly witnessfels due to person cores too personal personal practically engineer (DVC) and infection control measures. The key aims of this project were (I) assuration swhether (MC) and infection control measures. The key aims of this project were (I) assuration swhether (MC) and Electryn, Midsell (I) for evaluate and existent ASSE-COVIC analyses (etc.) for existent and existent ASSE-COVIC analyses (etc.) for evaluate and existent ASSE-COVIC analyses (etc.) for existent and existent ASSE-COVIC analyses (etc.) for evaluate and existent assASSE-COVIC analyses (etc.) for evaluate and existence and existe			recruitment. * Healthcare workers did not appear to be at increased risk of SARS-CoV-2 infection, but the data suggests widespread											
* Rapid Response COVID-19 Project	Characterising COVID-19 occupational exposure among healthcare workers through the validation of point-of-care diagnostics	UatiG SFC-128	linked immunoscribent assays (ELISA) and point-of-care (POC) tests), and iii) to develop and evaluate low-cost POC test using reverse-transcriptase loop-mediated isothermal amplification (RT-LAMP), through a longitudinal cohort study of HCWs and community members.	2 - Good Health and Wellbeing 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 122 (Basic Health)	community transmission * Work to develop the RT-LAMP test and training of staff for us of this test is oneoins.	e Pt: Antonia Ho@glasgow.ac.uk UoNG: Mary Ryan@glasgow.ac.uk	Malawi						niversity of Malawi College of Medicine, Malawi	6136.139.25	0180	5/2020 30/09/2020
· · · · · · · · · · · · · · · · · · ·	A person and an angular and		The Sustainable Futures in Africa Network intended to apply to the UKR-NERC Reducing the		, 494 14444	Disartor of Effortion annual with Gaussia School of Arts	111111111111111111111111111111111111111							and an engine an entering an entering			
			The Soutsinable Futures is Africa Network intended to apply to the USEP NEET Reducing the impact of Pfeick Waster in Developing Countries Lending apportunity. The Fundations of the some communities in an explanate estimate in the couldn't of Explanation. The principal contribution for any other principal contribution in the couldn't of Explanation. The principal collection for project with in Future, the Countribution with USEP researchers on the development of the project with in Future. The same secretally submitted the modification of ordered but the project with in Future. The same secretally submitted the modification of ordered but the project with in Future. The same secretally submitted the modification of ordered but the project with in Future.	6 - Clean Water and Sanitation		* Director of ECD action engaged with Glasgow School of Arts students working on the Future Experiences project and expanded his UK research network interetion to Submit for the NERC Reducing the Impacts of Plastics call submitted. Outcome: Full application not taken											
	EcoAction Director visit to Glasgow	UatG-SFC-001	sasecurve surector or schacino to collaborate with USIG researchers on the development of the project while in Glasgow. The team successfully submitted the notification of interest but did not submit the full application.	12 - Responsible Consumption and Production 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 140 (Water Supply and Sanitation)	intention to Submit for the NERC Reducing the impacts of Plastics call submitted. Outcome: Full application not taken forward.	Pt: Mia.Perry@glasgow.ac.uk UoNG: Many.Ryan@glasgow.ac.uk	Uganda					80	Ouction, Uganda	£2,520.16	01,0	1/2019 31/07/2020
* Some elements of the			did not submit the full application. If the project allower no to take the first steps towards meeting multiple key parties institution face to fine in the full project allower no to take the towards for the full project and the full project for the full proje			Forward. *Fights booked and flexible hotel booking arranged *Electronic contact between the partners ongoing *Electronic contact between the partners ongoing *Electronic soccessful *£15,000 application to the Rintish Library Endangened Archive											
Some elements of the project could not be completed due to COVID-19. They will take place in 2020-				4 - Quality Education 16 - Peace, Justice and Strong Institutions	GCRF: Sustainable Economies and Societies	Outcome: Successful * £15,000 application to the British Library Endangered Archive Programme submitted. Outcome: Pending	s Pt: Rachel Douglas@glasgow.ac.uk						No.	ational Archives of Halti, Halti ational Museum of Halti, Halti			
21.	Scoping visit to Halti	UatG-SFC-129	historical archives.	Institutions 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECO: 360 (Other Social Infrastructure & Services)	120-1-1-120-1-1-120-1-1-120-1-1-120-1-1-120-1-1-120-1-1-120-1-1-1-1	UalG: Mary Ryangi glasgow ac uk	Halfs					No.	ational Museum of Halti, Halti ational Library of Halti, Halti	61,642.62	01,0	I/2019 ongoing
	Observation of computers to Majoral	UMC-SDC-130	in direct support of strategic activities and researchers working in Malawi this project covered the cost of shipping 30 relatished desktop computers from institute infection immunity & inflammation (III)* Wellcome Centre for Integrative Parasitology to College of Medicine (COM) Blantyre.	6 - Quality Education	GCRF: Equitable Access to Sustainable Development OECD: 114 (Post-secondary education)	Medicine in Blantyre, Malawi * Installation of the computers will enable remote cellule raining initiatives and fulfil a request for increased access to computing facilities by the College of Medicine	Pt: Alex Mackay@glasgow.ac.uk UofG: Mary Ayan@glasgow.ac.uk	Malaul						Name of Markinsa Makasi	G1000000	0.0	1/2019 31/07/2020
					and the second of the second	A contract of the configuration to the same	The second second second				 	 				32,0	

			This project included development of a network to progress the development and															_
			implementation of a transformative form of 3D telemedicine – allowing a patient to be seen as if co-present – in collaboration with Ministry of Health. Korle Bu Trachine Hospital, and															
			Microsoft Special Projects. This technology will facilitate remote assessment of patients in rural locations, increasing health access and follow-up. The funding supported a situational analysis	3 - Good health and Wellbeing		* Stakeholder session with 100 attendees to collect feedback or												
			in Ghana Mr Ministry of Health, Korle Bu Teaching Hospital, MTN (Network Provider), University of Ghana Medical Centre, and local Stakeholders and included remote location	9 - Innovation, Industry and Innovation	GCRF: Equitable Access to Sustainable Development	the proposal * Confirmation of remote site partnerships with hospitals in												
	Collaborator meeting for Ghana telemedicine	UoNG-SFC-131	covering of urana Medical Centre, and local Stakeholders and included remote location scouting for telemedicine sites.	Innovation 17 - Partnerships for the Goals	DECD: 121 (Health, General)	Continuation of remote size partnerships with hospitals in Kofridua and Ho	Pt: SteveniLo@gmail.com GofG: Many Ryan@glasgow.ac.uk	Ghana								£1,045.10	01/08/201	19 31/07/2020
			This funding was to support a Proposal Development Meeting leading to an application to the															
			ISRC Centres Call by a UofG-based team composed of members of the Sustainable Futures in Africa Network, the Sustainable and Healthy Learning Cities Centre and the UNTIL network. The												University of Botswana, Botswana			
			apportunity had been prompted by keen interest from Unilever, a new major external stakeholder. The meeting had been planned to take place in Malawi in March 2000, but due to												Makerere University, Liganda Lilongwe University of Agriculture and Natural Resources,			
	Project development meeting for ESRC Centre	UoRG-SFC-001	the COVID-19 pandemic, it was cancelled. Substitute meetings with identified partners took slace in Glassow and online and the demand-managed application was successfully submitted.	1 - No Poverty 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development DECD: 430 (Other Multisector)	* Application submitted for ESRC Centre, Value: £4,179,000. Outcome: Pending	Pt: Jude Robinson@glasgow.ac.uk UofG: Mary.Ryan@glasgow.ac.uk	Malawi	Nigeria	Gotowana U	Iranda				Malawi First-Technical University, Nigeria	63,179,95	01/08/201	19 31/07/2020
			Housing availability, quality and security are thought to be fundamental for health, especially															
			(approx. one million) to poor people in Brazil. Since a lottery was used to determine whether a family received a new house, this provides an opportunity to robustly investigate understand impacts on health in a way that is not outside with traditional observational research. This			* Application prepared for MRC Global Health Call. Status:												
			project aimed to demonstrate the feasibility of data access, develop a working relationship with a new Brazilian collaborator and conduct the ensurabwork for a major new erant			* Dr Oliveirs developed skills in public health research and international grant application												
			application. The mechanism for this was the extended visit of Dr Rodrigo Oliveira from Brazil			* A female PhD student in Brazil was involved in data												
	Visit by Dr. Rodrigo Oliveira to Glasgow	UaNG-SFC-132	to Glasgow. The funds for subsistence were provided by UoNG's GCRF Small Grants Fund, while salary and travel costs were provided by matched Brazilian funding.	1 - No Poverty 17 - Partnerships for the Goals	GCRF: Sustainable Economies and Societies OECD: 160 (Other Social Infrastructure & Services)	management and the development of the proposal as well, thereby developing her skills in these areas.	Pt: Vittal Katikireddi@glasgow.ac.uk UoNG: Mary Ryan@glasgow.ac.uk	Brazil								£1,968.50	01/08/201	19 31/07/2020
			These funds supported Hostile Environment Awareness Training for staff and students at the University of Glassow. Each attendee was conducting or planning to conduct work associated															
			with travel to potentially dangerous locations in LMCs e.g. South Africa, Colombia, Nigeria, Lebanon. The fund supported one session with 12 attendees and a deposit for a second session															
			that was intended to be run in May 2020. The COVID-19 pandemic has delayed the second session indefinitely, and future reporting will update on the activity supported with these funds															
* Second session could not			It is difficult to classify this activity into SDGs, GCRF and OECD categories or beneficiary countries, as the staff and students attending were working on a wide variety of projects of															
take place due to COVID-19.						* 12 UoNG staff and students received specialist training to												
Deposit has been paid and session will take place as soon as gractically possible.	HEAT Training	UelG-SFC-133	to South Africa to run a Research Managers Capacity Strengthening Workshop that supported attendees from all over Sub Saharan Africa while another attendee was a PhD student travelling		GCRF: Equitable Access to Sustainable Development	anticipate, avoid and respond to risks while working in	Pt: Mary.Ryan@glasgow.ac.uk									63,034,74		19 longoing
as practically possible.	HEAT ITSENS	00% SeC-144	to Lebanon to conduct research on healthcare provision for refugees from multiple countries). Richard Randle-Roseis attended an innovate UK convortium building and funding briefing event	17 - Partnership for the Goals	OKD:	potentially fragile or hostile environments	UofG: Mary.Ryan@glasgow.ac.uk									12,026.76	01/08/201	Hongoing
			for the Agri-Tech Africa funding call. Richard had previously received Small Grants funding to															
			support a nascent initiative to develop agro-voltaic energy production and this event was an apportunity to pitch his idea to UK industrial partners who would be interested in joining	2 - Zero Hunger		* 1 ECR attended a consortium building and funding briefing												
	Innovate UK Meeting	UoNG-SFC-134	Richard and his Kenyan partner to develop their proposal. Richard was an ECR on a fixed-term contract and has since moved to another UK university.	7 - Affordable and Clean Energy 17 - Partnership for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 232 (Energy generation, renewable sources)	event to develop partnerships for a Kenyan agro-voltaic energy proposal	Pt: Mary Ryan@glasgow.ac.uk UofG: Mary Ryan@glasgow.ac.uk	Kenya								£216.67	01/08/201	19 31/07/2020
			This funding was intended to support issisks Save from Barkins Cases to commists a Masters															
			degree at the University of Glasgow. This project was intended to enable Mr Sare to develop molecular and statistical analysis skills to further investigate how wild fungi are capable of															
	Clucidating the molecular bases of wild fungi Metarhizkum		Silling malaria mosquitoes. The funds noted in this report supported the costs of English language tests for Mr Sare. Unfortunately Mr Sare was not able to achieve the required scores.	4 - Quality Education	GCRF: Equitable Access to Sustainable Development		Pt: Francesco Baldini@glasgow.ac.uk								institut de Recherche en Sciences de la Sante (IPSS), Burkina			
	pathogeny to malaria vectors	UoNG-SFC-137	anguage texts for Mr Sare. Unfortunately Mr Sare was not able to achieve the required scores and was not able to register for his selected course.	6 - Causing Education 17 - Partnerships for the Goals	DECD: 114 [Post-Secondary Education]		UoNG: Mary.Ryan@glasgow.ac.uk	Burkina Faso							Institut de secherche en sciences de la sante (1903), auricha Faso	£38.65	01/08/201	29 31/07/2020
			Human-wildlife conflict poses a major challenge for conservation and economic development															
			in many African countries and inter-disciplinary approaches are needed to tackle its complex dimensions. This project provides supports for a Tanzanian conservation scientist, Loyce															
* The majority of funding for			Majge, to develop these skills by undertaking the Conservation Management of African Scosystems MSc at the University of Glasgow. The taught component of the MSc course will be															
the scholarship comes from the 2020-21 allocation and			complemented by research on human-elephant conflict in the Serengeti, carried out with conservation partners in Tanzania. The funds used from the 2019-20 allocation covered the															
will be reported on in next year's report.	Estimating the effect of conservation interventions to reduce human-elephant conflict in Senengeti	1146-50C-130	cost of Mr Majige's English language tests. He is now enrolled on the course and this will be fully reported on in the 2000-21 reporting cycle.	6 - Quality Education 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 114 (Post-Secondary Education)	* Scholarship student achieved the required English scores to accept the GCRF Small Grants Scholarship offer	Pt: Sarah Cleaveland@glasgow.ac.uk UofG: Mary.Ryan@glasgow.ac.uk	Tanzania								(8 538 13	01/04/201	19 nomine
			In sub-Saharan Africa, unregulated antibiotic use in livestock has been linked to the emergence															
			of antibiotic resistant infections. Concerns exist related to the onward transmission of these surfrestable infections to humans. We will support a Masters studenthillo in the Epidemiology															
			of Infectious Diseases & Antimicrobial Resistance (CIDAR) programme for a food safety															
* The majority of funding for the scholarship comes from the 2020-21 allocation and			specialist, Tadeo Klalsoca, to provide him with key skills to unrawel the transmission dynamics of antibiotic-resistant bacteris at the human-animal interface in Uganda and their associations with antibiotic use. The funds used from the 2019-20 allocation covered the cost of Mr															
will be reported on in next	The transmission dynamics of antibiotic-resistant bacteria at		Cakpora's English language tests. He is now enrolled on the course and this will be fully	4 - Quality Education	SCRF: Equitable Access to Sustainable Development	* Scholarship student achieved the required English scores to	Pt: Tiziana.Lembo@glasgow.ac.uk											
year's report.	the human-pig interface in Uganda	UofG-SFC-143	reported on in the 2020-21 reporting cycle.	17 - Partnerships for the Goals	OECD: 114 (Post-Secondary Education)	accept the GCRF Small Grants Scholarship offer	GolG: Mary.RyandJiglasgow.ac.uk	Uganda								£8,538.90	01/08/201	Blongoing
			This project builds on current University of Glassow research into everyday practices and															
			schistosomiasis transmission in rural Uganda, which found that ideas about responsibility often ran along aiready-established lines of inequality. This project builds on this to explore how															
* The majority of funding for the scholarship comes from			responsibility is constructed in relation to a novel disease – Could-19. The project will support Lazzano Mujumbusi to undertake a Masters in Global Health at the University of Glasgow with															
the 2020-21 allocation and will be reported on in next	Constructing Covid-19: Understandings, Attitudes and Health-		his research component focussed on schistosomiasis transmission in Uganda. The funds used from the 2019-20 allocation covered the cost of Mr Mujumbusi's English language tests. He is	4 - Quality Education	CORP. Produkte Assess to Contribute Descriptions	* Scholarship student achieved the required English scores to	Pt: Lucy Pickering@glasgow.ac.uk											
year's report.	Related Practices in Rural Uganda	UoNG-SFC-146	now enrolled on the course and this will be fully reported on in the 2020-21 reporting cycle.	17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 114 (Post-Secondary Education)	accept the GCRF Small Grants Scholarship offer	UofG: Mary Ryan@glasgow.ac.uk	Uganda								£199.36	01/08/201	19 longoing
			This project will support Mr Ismail Nambunga MSc studies. Ismail is an excellent early career Tanzanian researcher interested in mitiesting public health challenges. This fellowship will															
			enable him to develop important quantitative skills in this area, in particular to explore the															
 The majority of funding for the scholarship comes from 			impact of vector control interventions on malaria burden, and will also put him in ideal position to take a key note within our collaborator, Ifakara Health Institute, latest initiative to enhance in-house quantizative capacity. The funds used from the 2019-20 allocation covered the cost of															
the 2020-21 allocation and will be reported on in next	Modelling the potential impact of supplementary tools for		Mr Nambunga's English language tests. He is now enrolled on the course and this will be fully	6 - Quality Education	GCRF: Equitable Access to Sustainable Development	* Scholarship student achieved the required English scores to	Pt: Mafalda Vana@glasgow.ac.uk											
year's report.	malaria vector control in south-eastern Tanzania	UoNG-SFC-14B	reported on in the 2020-21 reporting cycle.	17 - Partnerships for the Goals	OECD: 114 [Post-Secondary Education]	accept the GCRF Small Grants Scholarship offer	UoNS: Mary.Ryan@glasgow.ac.uk	Tanzania			-		-		Ifakara Health Institute, Tanzania	£5,885.62	01/08/201	.9iongoing
			Anopheles funestus is a major majoria vector throughout Africa, but detailed understanding of															
* The majority of funding for the scholarship comes from			its' biology is limited by the difficulty of colonizing it in the laboratory. Led by Emmanuel Hape, an outstanding candidate from Tanzania, researchers at the Ifakara Health Institute have made															
the 2020-21 allocation and will be reported on in next	Strengthening capacity for laboratory colonization of the		significant progress in colonizing An. funestur. This project is enabling Mr Hape to develop the advanced quantitative skills required to identify key determinants of successful laboratory	4 - Quality Education	GCRF: Equitable Access to Sustainable Development	* Scholarship student achieved the required English scores to accept the GCRF Small Grants Scholarship offer	Pt: Heather Ferguson@glasgow.ac.uk											
year's report.	major African malaria vector Anopheles funestus	UatG-SFC-140	adaptation from his experiments, and enhance ongoing collaboration between IHI and UoG.	17 - Partnerships for the Goals	OECD: 114 (Post-Secondary Education)	* Student is currently enrolled on the Masters course	UofG: Mary Ryan@glasgow.ac.uk	Tanzania							Ifakara Health Institute, Tanzania	£8,500.00	01/08/201	\$9 ongoing
* The majority of funding for			Humans in many ODA countries depend directly on ecosystems for resources such as bushmeat															
the scholarship comes from the 2020-21 allocation and			or grazing opportunities, however estimating human impacts inside protected areas remains challenging for governments. This project supports a MSc studentship for Kelvin Munisi in the			* Scholarship student achieved the required English scores to												
will be reported on in next year's report.	Estimating the human footprint in the Serengeti ecosystem	UatG-SFC-142	CMAE program at U.G. The project brings together several partners including the Serengeti Biodiversity Programme, Grumeti Reserves, IBAHCM, and the School of Mathematics.	6 - Quality Education 17 - Partnerships for the Goals	GCRF: Equitable Access to Sustainable Development OECD: 114 (Post-Secondary Education)	accept the GCRF Small Grants Scholarship offer * Student is currently enrolled on the Masters course	Pt: Grant Hopcraft@glaugow.ac.uk LiofG: Many.Ryan@glaugow.ac.uk	Tanzania							Tanzania Wildlife Research Institute, Tanzania	£8,500.00	01/08/201	s9 longoing
			This studentship builds upon an ongoing GRCF-funded project in Tanzania (Pl Cleaveland) aimed															
* The majority of funding for the scholarship comes from			at facilitating sustainable livestock-wildlife production systems in East Africa. The funding supports Bakari Mtili, whose background in wildlife ecology (second class BSc degree in wildlife															
the 2020-21 allocation and will be reported on in next	Facilitating sustainable (vestock-wildlife production systems		management) makes him an ideal candidate for receiving training in human-wildlife interactions, and for translating this research into actionable strategies that improve	4 - Quality Education	GCRF: Equitable Access to Sustainable Development	* Scholarship student achieved the required English scores to accept the GCRF Small Grants Scholarship offer	Pt Thomas Morrison@elaseow.ac.uk								Nelson Mandela African Institution of Science and Technology.			
year's report.	in East Africa	UoNG-SEC-144	conservation outcomes of livestock vaccinations.	17 - Partnerships for the Goals	OECD: 114 (Post-Secondary Education)	* Student is currently enrolled on the Masters course	UofG: Mary Ryandfglasgow.ac.uk	Tanzania							Tanzania	£8,500.00	01/01/201	A ongoing
* The majority of funding for			Suinam Akorli is a promising female graduate from Ghana, with a keen interest in malaria control. The GCBF is gluing her the opportunity to complete a Masters programme with the															
the scholarship comes from the 2020-21 allocation and			control. The GLSS is giving net the opportunity to complete a Mutatric programma with the emphasis on infectious Disease, a major cause of death in Ghana. During the MSc, she will undertake a research project in the PTs laboratory, gaining new skills in malaria and mosquibo															
will be reported on in next	MSc infection Biology/ Effects of secreted products from		biology, which she will transfer to her home research institute, strengthening a new	4 - Quality Education	GCRF: Equitable Access to Sustainable Development	* Scholarship student achieved the required English scores to accept the GCRF Small Grants Scholarship offer												
year's report.	Anopheles midgut bacteria on human malaria parasites	UatG-SFC-147	collaboration there between PI and co-investigator.	17 - Partnerships for the Goals	OECD: 114 (Post-Secondary Education)	* Student is currently enrolled on the Masters course	GofG: Mary Ryan@glasgow.ac.uk	Ghana							University of Ghana, Ghana	£8.500.00	01/08/201	29 ongoing

Total \$2,221,639.57

Understanding and enhancing the Community-led response to COVID-19 in Colombia

The University of Glasgow partnered with the Diocese of Quibdó and the Scottish Catholic International Aid Fund (SCIAF) to understand the effect of the COVID-19 global pandemic in Chocó and to develop an effective collective response. Chocó is the poorest and most ethnically diverse region of Colombia. The project's vital public health measures and psychosocial support reached approximately 5,000 people in total.

This action research project enhanced the capacity of Diocese of Quibdó, a central member of the departmental Emergency Response Committee in Colombia, to develop a collective response to the COVID-19 pandemic in a way that recognised, respected and learned from the common and differentiated challenges faced by various ethnic communities.

Mark Camburn, Scottish Catholic International Aid Fund's Programme Officer for Latin America, said: 'It's hard to overstate just how much of an impact this project had on preventing the spread of COVID-19 and supporting vulnerable communities through lockdown. The funding allowed us to further collaborate at a time when strong international partnerships are needed most. By combining the University of Glasgow and SCIAF's knowledge and experience with local expertise in the Diocese of Quibdó, we were able to take significant steps towards reducing the spread of coronavirus in communities, so ultimately, this funding saved lives."

Understanding communities

This project, led by Professor Mo Hume, employed research methodology which ensured that the experiences and voices of local ethnic communities were heard and at the forefront of decision-making.

The research team worked together to understand and address the challenges that face local communities where the pre-existent humanitarian crisis has deepened as a direct result of COVID-19. In order to address the effects of COVID-19 in communities such as Chocó, collaborators had to develop capacity that is informed by and built on existing collective cultural practices.

Professor Hume said: "This is a really challenging time for communities in Chocó where a preexistent humanitarian crisis has become much more complex in the context of a pandemic. Existing research on COVID and other pandemics shows that ethnic minority communities experience increased inequalities that are caused by and exacerbate existing discrimination. This is critical for those who live in contexts like Chocó where limited formal health systems and ongoing armed conflict create very particular risks for Indigenous and Afro Colombian territories. At the same time,

we have much to learn from their collective responses to crises."

Workshops and communication

As with most inclusive research partnerships, workshops and communication are key to enabling successful outcomes and long-term impact. The Diocese worked with community leaders to identify families at particularly high risk to COVID-19 and the effects of lockdown. Professor Hume and colleagues developed workshops about capacity to respond to COVID-19 using culturally inclusive training and practice.



Researchers from the University of Glasgow, Diocese of Quibdó and SCIAF

Adopting a work package approach, the team focused on:

- providing pyscho-social support for communities affected by the crisis.
- tailoring public health prevention and containment measures.
- generating best-practice lessons for future crisis planning in Chocó and other fragile contexts.

The team partnered with local communications and media teams to disseminate messages to local communities that include key public health measures and background to the pandemic, as well as fostering solidarity and drawing links with the wider humanitarian crisis in Chocó.

Important to the communications was a grounding in collective cultural and historic struggles, foregrounding the importance of a holistic approach to self-care which recognise the inextricable connections between humans and the natural environment they inhabit. The team produced four videos, including the composition of a song, to help communicate these messages, which they disseminated widely among social media.

Tailored approach to supporting communities

A key issue facing communities is the impact of COVID-19 on mourning rituals, which are collective processes in Chocó where the community comes together to celebrate and mourn their dead. These collective mourning practices are prevented due to public health guidelines. The team developed six modules on grief and mourning to support affected families. These modules underpinned 18 virtual workshops with around 100 participants. These modules now form an important resource for communities dealing with a key dimension of the mental health effects of the pandemic.

Public health prevention and containment measures tailored to the specific challenges faced by communities in Chocó was a priority. In remote areas with little access to health infrastructure, traditional medicines are often the only option for marginalised communities. Training delivered by community partners supported communities to draw on local ancestral knowledge to mitigate the effects of the pandemic (including the production of a guide to using traditional medicines to treat COVID-19 symptoms). The team utilised these training sessions to address the pressing needs of the community. Humanitarian packs containing personal hygiene products, personal protective equipment and food were delivered to over 1,050 at-risk families.

Utilising their knowledge of the community the Diocese developed useful tools for data collection and grassroots responses. This approach included 61 online surveys, 10 interviews with key stakeholders and three focus groups (24 participants). A final report draws a range of lessons that are already informing the Diocese's response to the next phase of the pandemic. The report outlines the intersecting challenges of Chocó's pre-existing humanitarian crisis and COVID-19, including increased activity from armed groups during lockdown and confinement of communities. It also recognises the importance of the Diocese's unique role as a trusted and embedded local actor in communicating difficult public health messages and responding to the needs of communities.

- Collaboration with international partners designed to provide tailored and effective interventions which were **co-created with the community**.
- The project reached approx. **5,000 people**.
- Humanitarian packs were delivered to 1,050 at-risk families.
- The team supported the development of a guide to using traditional medicines to treat symptoms of COVID-19. Hugely valuable to remote communities unable to access healthcare systems.
- 'Lessons learned' report published to assist in the next phase of the pandemic.

Understanding community crime prevention to counter illicit antiques trafficking in postearthquake Nepal and Myanmar

Nepal and Myanmar are both renowned for their cultural heritage, especially their sacred artefacts. Due to a global demand for these items, material culture in these countries continues to disappear from monuments, public and private collections, and archaeological sites. Currently, there is no official reporting mechanism and a lack of available data on the causes, consequences and challenges of archaeological looting.

Dr Emiline Smith from the University of Glasgow has investigated local community-based security models in Nepal and Myanmar to assess why looting of cultural heritage takes place and the effect this has on social cohesion.

Crime prevention

Funding of £49K from the SFC Global Challenges Research Fund enabled Dr Smith to travel to Nepal and Myanmar to interview legal and cultural heritage specialists including government officials, policymakers, museum curators, community leaders, non-governmental organisation (NGO) representatives, activists and law enforcement. The common theme from the interviews with these stakeholders found that many people are committed to ending the theft, looting and trafficking of antiquities but there is no system to unify these efforts.

Dr Smith explains, "The research looks at both the global network and the local context of illicit trade, so we can identify weak points in the trafficking chain where we can effectively intervene. We have investigated interdisciplinary approaches to improve understanding of national and local crime prevention strategies to counter illicit antiquities trafficking—to see what works and what does not."



Communities around Nepal have taken it in their own hands to protect heritage, placing temples under lock and key after decades of looting.

Addressing the issues

Criminology is currently an underdeveloped academic field in both Nepal and Myanmar and the research team brought together foreign expertise and in-country capacity to advance knowledge in this area.

Whilst there is recognition that there is a global demand for the countries' cultural heritage which has led to statues and artefacts being stolen from places of worship, museums and monuments in local communities, there is an absence of more sustainable income sources within the countries, leading to the continuation of looting and trafficking.

Cultural heritage can provide a source of pride, unity, and social cohesion within low-to-middle-income countries (LMICs) and it is also a source of economic development. Countering the looting, trafficking and destruction of cultural heritage, and restoring national pride by repatriating cultural objects held abroad, contributes to more inclusive and resilient communities.

To address these challenges, Dr Smith worked with colleagues from the University of Oxford; United Nations Educational, Scientific and Cultural Organisation (UNESCO) Yangon; Myanmar Archaeology Association (MAA) and the International Council on Monuments and Sites (ICOMOS), to undertake a thorough criminological overview of the networks in place to loot, traffic and destroy cultural heritage and an assessment of potential intervention points.

The research led to the creation of a report for Department of Archaeology on future strategies to combat antiquities trafficking and improve the effectiveness of relevant legislation, policy and law enforcement. The report also analysed the effectiveness of current formal and informal crime prevention methods.

Building a network

The research team are keen to build a new working group with various stakeholders to consult when a cultural object goes missing or needs to be repatriated. To create this network, the team have hosted various advisory meetings and a capacity building session, attended by 67 participants at the Department of Archaeology in Nepal. The project team provided training on how to document cultural heritage and how to recognise and document looting. They also provided information on protective frameworks that surrounding countries have adopted to identify potential prevention strategies for Nepal.

The team also organised a knowledge exchange workshop at the Ministry of Culture, Tourism and Civil Aviation for 55 participants including representatives of government, law enforcement, non-governmental organisations (NGOs), charities and community activism groups. Following presentations from the research team, Nepal Police on formal crime prevention strategies and a museum specialist on repatriation efforts, a two-hour long roundtable took place to discuss the challenges to create a system of community-driven protection of cultural property.

The project has brought together academic and non-academic collaborators to create a new, interdisciplinary network to focus on the key issues and challenge to tackle the looting of cultural heritage. The network's report 'Strategic Planning for the Department of Archaeology' will contribute to policy development to combat the illicit antiquities trade.

The research has led to the development of a database for Nepal's Department of Archaeology, a repository of missing artefacts which will strengthen efforts to counter looting and destruction and increase protection of cultural heritage.

Future Engagement

Dr Smith and the project team are keen to continue to build capacity in Nepal and Myanmar to protect and preserve their cultural heritage. Research in Myanmar was cut short due to the Covid-19 pandemic, however, the research team will resume this work when possible to complete the overview of the protection and destruction of cultural property within this country.

The development of the new collaboration has led to a further funding application for SFC GCRF Small Grants 2020-21 funding and a new research proposal is in development for the UK Research and Innovation Newton Fund to expand the network to Indonesia and include the growing problem of wildlife trafficking.

- Collaboration with international partners to provide an evidence-based overview of looting of cultural heritage in Nepal and Myanmar.
- 'Strategic Planning for the Department of Archaeology' report published for the Ministry of Culture, Tourism and Civil Aviation on future strategies to combat antiquities trafficking.
- The research team have created a database of Nepal's stolen artefacts to increase protection of cultural heritage
- The research will lead to more effective crime prevention strategies, policy change and increased public awareness of the effects of looting and trafficking of antiquities

Establishing surveillance and modelling tools to understand and evidence the COVID-19 outbreak in Venezuela

The University of Glasgow made use of an established and embedded Global Challenges Research Funded network – Vector Borne Disease Control Network - Venezuela – to gain a deeper understanding of how COVID-19 was spreading in Venezuela and provide evidence to support COVID-19 control measures. It is estimated that 90% of Venezuelans live in extreme poverty, since 2015 five million have fled the country, with almost two million ending up in Colombia. Intense urbanisation, high population density, poor living standards, and a dilapidated healthcare infrastructure make Venezuela acutely sensitive to the COVID-19 pandemic.

By supporting Venezuelan scientists to undertake disease surveillance and modelling in the absence of state infrastructure, the main objective of this project was to mitigate the health consequences of Venezuela's rapid economic decline in the midst of the COVID-19 pandemic.

Dr Martin Llewellyn, project lead, explains the importance of the project, "Our role was to help establish mapping tools and inform modelling techniques to help health workers and key stakeholders understand the pandemic and how it is affecting the population. With the right information about COVID-19, healthcare infrastructures in Venezuela can take appropriate action to save lives that may otherwise be lost to COVID-19, famine or other indirect sources of mortality".

Data – understanding the pandemic in Venezuela

It is widely accepted that the number of cases and deaths has been underreported by the Venezuelan government. A focus for this project was to gather COVID-19 incidence and morbidity data via formal and informal channels, and data mining; providing key stakeholders with data on the extent of the pandemic.

The research team established new connections and developed existing informal links to hospitals to obtain data, develop a model and create open-source databases. These databases are updated live and provide information such as ventilator occupancy, respiratory disease mortality and other key indicators. These data are fed forward via live access to key stakeholders to help inform healthcare decisions.

Extensive modelling has been undertaken to predict the potential growth of the outbreak and, to date, two monthly reports issued, funded by this project. The two reports have been widely reported in local and international news media. Also, they have been the main alternative and accurate source of the true epidemic size and level of transmission of COVID-19 in Venezuela during the first epidemiological wave.

Dr. Maria Grillet, co-investigator says "modelling scenarios with indirect indicators of transmission is a great challenge, but the best current alternative in Venezuela, where epidemiological information is very limited. The grant was really beneficial, it allowed us to develop a set of models that generated potential epidemiological scenarios that informed health authorities and community about how was the epidemic unwrapping in Venezuela during the first COVID-19 wave".

Population – changing behaviours

Preventing the transmission of the virus requires people to change their behaviour and adopt new habits to help prevent the spread. Modifying human behaviour is challenging and requires a level of understanding knowledge, attitudes, and practices (KAPs) regarding health threats.

This study explored KAPs among people in Ecuador. An internet-based questionnaire was used to assess knowledge about COVID-19, attitudes toward ability to control COVID-19, self-reported practices related to COVID-19, and demographics. A total of 2399 individuals participated.

Participants had moderate to high levels of knowledge and expressed mixed attitudes about the eventual control of COVID-19 in Ecuador. Participants reported high levels of adoption of preventive practices. The study found that the greatest area for improvement is regarding pessimistic attitudes on the eventual control of COVID-19. The research team would recommend that suggests health education and outreach should not only focus on knowledge and prevention practices but should also promote optimistic attitudes.

Transmission between Venezuela and Colombia

Given the scale of the mass migration between Venezuela and Colombia gaining some understanding of how the virus may be acquired could help inform estimates of the growth of the pandemic and undetected transmission.

Data collection has been ongoing at two Venezuelan hospitals in Caracas and Carabobo. Testing in Colombia, coordinated by our partner Universidad del Rosario, has been ongoing for several months. The project is still to report on the outcomes of this study.

Venezuelan research team carrying out solid-phase peptide synthesis (SPPS), to produce COVID peptides.

The research team also undertook a study of the genetic similarities of COVID-19 in Venezuela and

Colombia. Genomic sequencing demonstrated similarity between SARS-CoV-2 lineages from Venezuela and viruses collected from patients in bordering areas in Colombia and from Brazil, this is consistent with cross-border transit despite preventive measures including lockdowns.

The study also found the presence of mutations at sites may potentially be associated with increased infectivity. A more transmissible mutation of the virus may pose additional challenges for the control of the virus in Latin American countries. The report advised that public health authorities should carefully follow the progress of the pandemic and its impact on displaced populations within the region.

- The project established surveillance and modelling tools which helped scientists and stakeholders understand the COVID-19 outbreak in Venezuela; providing much needed scientific evidence to support COVID-19 control measures.
- The project has resulted in reports modelling the potential path of the outbreak. These represent the only accurate account of the pandemic in Venezuela.
- Results from genomic sequencing suggest that cross-border transmission is taking place highlighting the overall risk to the Latin America region and the need for public health authorities to monitor the pandemic and its impact on displaced populations.

Exploring sustainable livelihoods and farming practices in Malawi refugee camps

Ongoing crises and conflict have led to 18 million people - around 26% of the world's refugee population- to live in refugee camps across Sub-Saharan Africa. These areas have become new urban ecologies with significant political, economic, and environmental vulnerabilities. The largest refugee camp in Malawi is Dzaleka with over 42,000 residents.

A team of researchers from the University of Glasgow led by Dr Lazaros Karaliotas has collaborated with researchers from the Lilongwe University of Agriculture and Natural Resources (LUANAR), Malawi and the non-governmental organisation, CARD (Church Aid and Relief Development) to analyse the farming practices and the modes of organising everyday life within Dzaleka and work with residents of the camp to support sustainable everyday livelihoods.

Co-designing solutions

In Dzaleka, camp residents, with the support of humanitarian place making interventions, have developed small-scale farming and gardening practices to cover some of their everyday needs. A £74K SFC Global Challenges Research Fund grant enabled the research team to investigate the economic, social, and ecological challenges faced by displaced people within the camp and how communities can build sustainable livelihoods in vulnerable conditions.

The funding enabled Dr Karaliotas and his colleagues to work with CARD, local university staff and resident gardeners, farmers and market traders as well as community leaders to map out past, present environmental challenges and future sustainable living spaces.

Dr Karaliotas explains, "We encouraged a 'citizen science' approach to the research and worked closely with CARD to train ten camp residents to collect and analyse environmental data such as soil, air and water quality throughout the camp to understand and analyse how these factors impact on farming and everyday activities such as washing and cooking in refugee communities. The residents had a key role in shaping the project."



Camp residents, Borel, Joseleni and Nisha, perform water quality testing in Dzaleka with research assistant Grace Chilongo.

The project's methodology was co-designed with CARD and piloted in Malawi in November 2019. The residents of the camp were also involved with co-designing the research sites and questions.

The research team conducted walking interviews and focus groups to explore how camp residents' experiences and farming strategies can create a sense of belonging to the land they live on. The residents were able to raise concerns around living conditions in the camp and three research videos were co-produced with camp residents to highlight such issues.

Working together

The research team are building a collaborative and responsive consortium to promote the welfare of camp residents and the sustainability of the environments which they inhabit, bringing together expertise to address and respond to problems identified by local communities.

The team planned, with Lilongwe University, a regional symposium on 'Humanitarian Place Making in Refugee Camps' to bring together key stakeholders of the refugee camps including refugee representatives, government officials and camp managers to discuss humanitarian place making interventions, which is the approach to planning, designing and managing public spaces, capitalising on a local community's assets. The Symposium was due to take place in May 2020 but was cancelled due to the pandemic.

However, a smaller, focused local symposium was arranged during the research team's visit to Malawi, which has facilitated research capacity building through the creation of strong links with refugee representatives, United Nations High Commissioner for Refugees staff and nongovernmental organisations practitioners. The camp residents who took part in the initial research presented



Camp residents, Joseleni and Borel, perform soil quality testing in Dzaleka with research assistant Grace Chilongo.

their findings and the concerns about soil and water quality to make plans to improve living conditions in the camp. Three posters summarizing key findings, response strategies and 'Guidelines for best practice' will be disseminated in the camp through CARD to raise awareness in the camp communities.

Future Steps

The project's participatory design has placed refugee communities at the heart of research as coproducers of knowledge. It has created a strong network of collaborators who are keen to continue to work together to support the residents of the fast-growing Dzaleka refugee camp.

The research team have a successful follow-on SFC Global Challenge Research Fund bid (Understanding Refugee Re-location in Malawi in the context of Covid-19) in collaboration with Malawi partners to identify refugee concerns. This new research project will lead to a large-scale GCRF funding bid on humanitarian place making with the network of collaborators.

In the long-term, the research team will continue to seek to upscale and diversify the research through interdisciplinary partnerships.

Key Facts:

- 42,000 people live in the Dzaleka refugee camp in Malawi
- A £74K SFC Global Challenges Research Fund grant enabled Dr Karaliotas and his research team to investigate the economic, social, and ecological challenges faced by displaced people within the camp.
- The project placed refugee communities at the heart of research as co-producers of knowledge. Camp residents were given training to collect and analyse environmental data throughout the camp to understand and analyse how these factors impact on farming and everyday activities.
- A strong network of collaborators has been created to support the residents of the refugee camp.

Understanding & mitigating the impact of HIV infection on the burden and severity of influenza illness in Malawi

Acute respiratory infections (ARI) account for 2.4 million deaths globally and 27% of these deaths occur in sub-Saharan Africa. In Malawi, they are most common cause of adult hospital admissions, putting severe strain on the health care system.

Dr Antonia Ho, Clinical Senior Lecturer at the Medical Research Council (MRC)-University of Glasgow Centre for Virus Research, is working with the local community, healthcare staff and national policy makers in Malawi to improve understanding of influenza infection – in terms of how it presents, who it affects and what time of year it circulates – also highlighting the increased risk of symptomatic influenza and severe disease in HIV-infected people, and emphasising the importance of influenza surveillance.

Dr Ho's initial research identified that HIV-infected individuals are more at risk of ARIs such as influenza infection, and they are five times more likely to have severe disease, compared with HIV-uninfected people. The research, funded by a Wellcome Trust Clinical PhD Fellowship, conducted two observational studies at the Queen Elizabeth Central Hospital in Blantyre, Malawi, recruiting over 1700 patients. The study found that 57% of influenza-associated hospitalisations were attributable to HIV. Other factors such as household overcrowding, poor sanitation and food insecurity also contribute to risk of severe influenza illness in Malawi.

Embedding research learnings

Funding of £4.8k from the Scottish Funding Council Global Challenges Research Fund enabled Dr Ho to return to Malawi to share her findings directly with study participants and stakeholders.

Dr Ho presented her research findings to the participants and staff in the hospital who took part in her original research to make them aware of the risks of influenza and the importance of infection control measures.

Dr Ho explains, "We followed the study participants for two years, so my study team and I developed a good relationship with them. The people who share their lives with researchers seldom see the results of their efforts. Sharing study results with the participants signals not only the openness and accessibility of researchers, but also raises a positive profile of research in general and highlights the need for interventions that may decrease the risk of future harm."

One study participant praised the good practice of sharing the research results and felt improved "self-worth" that they had "contributed to an overall enrichment of scientific knowledge."

Limbikani Chaponda from the Public Health Institute of Malawi said, "Dr Ho's visit was timely as it laid the foundation for Influenza Surveillance. Her continued support will enable the Ministry of Health to start testing circulating viruses and report flu data to WHO which will lead to access to vaccines."

During the visit Dr Ho was able to discuss the prescription of antibiotics for the treatment of influenza illness and other respiratory viral infections. Antibiotics are often prescribed for influenza. However, as it is a viral illness, they won't treat the disease, and can lead to people developing antibiotic resistance. Dr Ho's discussions with the Blantyre Community Advisory Group and medical staff at the Queen Elizabeth Central Hospital highlighted the symptoms associated with flu and discouraged the prescription of antibiotics if doctors felt the chest infection was caused by a virus rather than bacteria.



Dr Ho and Sitithana Muyaso, clinical officer for the BASH-FLU study, disseminating study findings to previous study participants.

The funding has also enabled Dr Ho to engage with the local scientific community and national policymakers within the Ministry of Health to discuss strategies to reduce the burden and severity of influenza illness amongst HIV-infected adults.

Next steps

Currently there is no routine respiratory viral surveillance or national influenza immunisation programme in Malawi. Dr Ho was invited by the Influenza Surveillance Task Force to visit three potential study sites in Bwaila District Hospital, Mchinji District Hospital, and Kamuzu Central Hospital to give recommendations for the development of future respiratory viral surveillance and influenza preventative strategies, such as vaccination.

Dr Ho is keen to continue to support the implementation of respiratory viral surveillance in Malawi, which will be key to the country's pandemic preparedness strategy. During the COVD-19 pandemic, Dr Ho has continued supporting the Malawi Ministry of Health. She has led a prospective cohort study of healthcare workers and community members to ascertain the occupational exposure to SARS-CoV-2, and has recently received funding from the Wellcome Trust to implement a SARS-CoV2 serosurveillance study, in partnership with the Ministry of Health and Malawi Epidemiology and Intervention Research Unit (MEIRU).

- Dr Ho's initial research study found that 57% of influenza-associated hospitalisation was attributed to HIV.
- A £4.8k SFC Global Challenges Research Fund grant enabled Dr Ho to disseminate research findings to former study participants and engage directly with healthcare staff, the local community and policy makers.
- Inclusive research practices are about equitable partnerships and inclusion.
 Importantly participants of the study learned the outcomes of the research, and the importance of infection control measures.
- Dr Ho is currently working with the Ministry of Health on a study on SARS-COV-2 serosurveillance.