



Dan Haydon

Director

Glasgow Centre for International Development

**WORLD
CHANGING
GLASGOW**



A vision for internationalization

- To build a globalized research community
- Through long-term equitable partnerships
- With local partners possessing complementary expertise
- That addresses research questions of global importance
- With cutting-edge, interdisciplinary and ethical science
- Based in emerging research environments
- Supported by a diverse and expanding funding base
- Delivering real impact
- Attracting and supporting world-class researchers





University of Glasgow

Three basic strategies

- Support for Resilient, Equitable & Interdisciplinary Partnerships
- Skills development here and overseas
- Support for early career researchers

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University of Glasgow

Learning from experience

<u>Financial Year</u>	<u>Total Portfolio</u>	<u>Number of active grants</u>
2008-09	£23,000,000	88
2009-10	£16,500,000	105
2010-11	£20,300,000	77
2011-12	£21,100,000	68
2012-13	£19,300,000	70
2013-14	£18,400,000	81
2014-15	£34,753,205	
2015-16	£25,890,029	
2016-17	£25,790,667	95
2017-18	£41,342,293	93



The Glasgow Centre for International Development

GCID is a pan-University of Glasgow network that supports and showcases our international development activity.

Key Aims

- To showcase world-leading research and impact in LMICs from across the University
- To promote capacity building and cultural exchange between LMICs and Scotland
- To promote new models that will develop and strengthen international research partnerships




Glasgow Centre for International Development

- Connect and support locally
- Complement internationally
- Reflect and synthesize





**University GCRF
Coordination Group**

- Equal representation of all of our 4 Colleges
- Forge strategy
- Administer internal competitions
- de-snap processes



**Glasgow 2020: A
Global Vision**

Vision: A world-class, world-changing university

Mission: To bring inspiring people together to create a world-class environment for learning and research, empowering staff and student to discover and share knowledge that can change the world





University of Glasgow

Allocated GCRF

Scottish Funding Council GCRF QR Allocations (~£2m pa)
Global Impact Accelerator Accounts (~£300k pa)

- By this year we will have made ~ 120 pump-priming awards

Our scheme

- Research Projects
- Meetings and Exchanges
- Administrative Support
- Capacity Strengthening
- Fellowships for LMIC researchers
- Masters Studentships for LMIC students


GCRF competitive calls



Open calls


Call title	Council	Closing date
A Combined Food Systems Approach to Scaling-up Interventions to Address the Double Burden of Malnutrition	BBSRC	7 May 2019
Education as a Driver of Sustainable Development	ESRC	25 April 2019
Cultures, Behaviours and Histories of Agriculture, Food, and Nutrition	AHRC	16 May 2019
Development-based approaches to protracted displacement	ESRC	8 May 2019
Gender and intersectionality and Education as a driver of sustainable development network plus	ESRC	11 April 2019
Protection in Contexts of Conflict and Displacement	AHRC	9 April 2019
Education in Conflict and Crisis Research	AHRC	9 April 2019
Preventing Conflict, Building Sustainable and Inclusive Peace	AHRC	9 April 2019






New ways of doing research

- Identifying challenges against which we can deploy our skills
- Delivering the impact of our research
- Embedding research into the broader development framework




The future

- **Global campuses**
(joint faculties, staff exchanges, reciprocal sabbaticals, shared infrastructure)
- **Sandwich north-south graduate programs**
(based on AAS/Commonwealth model, progressive fee waiver policy, fuller accounting of benefits of LMIC graduate programs)
- **De-colonized research partnerships**
(equitably created, led, funded, and managed research and capacity strengthening programs)
- **Diversified R&T oriented communities**
(shared spaces with Govt, NGOs)
- **Closer integration of policy and research**
(using research capacity in adaptive management)
- **Closer integration of research with communities**
(who the research is intended to benefit) Progressive gender and diversity policies



Optimizing decentralized low-cost waste water infrastructure by managing the microbes

Project Overview and Progress March 2019

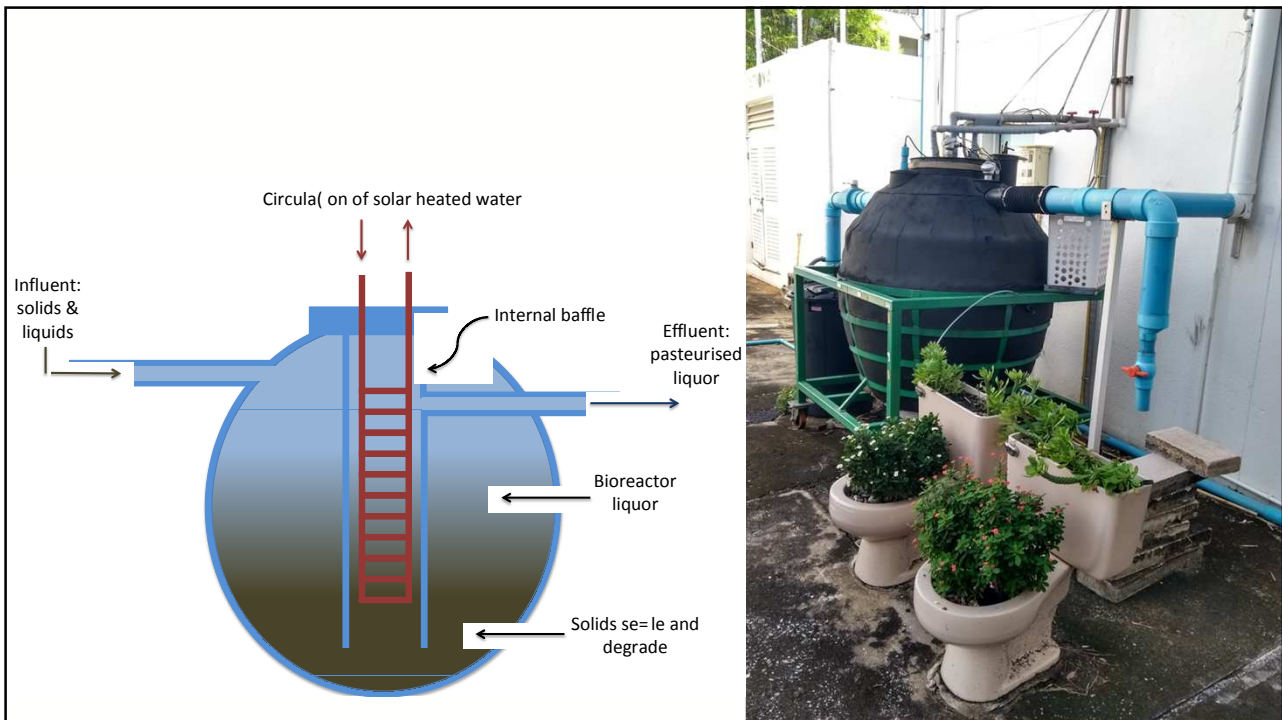
Stephanie Connelly



A fortunate meeting!

- 2016 meeting at the Technology (AIT), visit to Glasgow
- Introduction of the suite of technologies developed at AIT to the Glasgow team
- Introduce the suite of molecular tools used at Glasgow to monitor and model microbial communities
- Award of ISF seed fund





The limits of industrial biotech

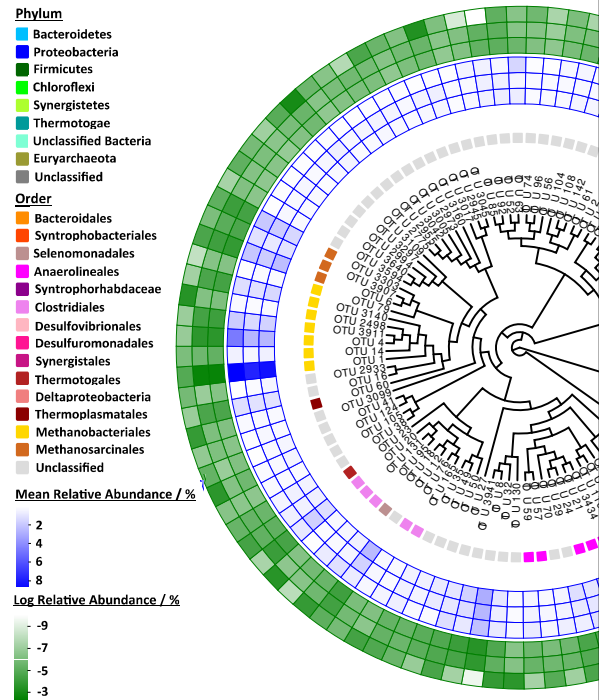
Even at full-scale biology can be fickle

No rational design or control of microbial communities that underpin treatment

Unpredictable performance compensated by redundancy offered in the grid



WS1 In the field:
 Detailed operation and performance data
Baseline Study
 feeding forward
 transfer to AIT in molecular methods
 16S V4 region amplicon library for next generation sequencing
 Linking microbial community with system function

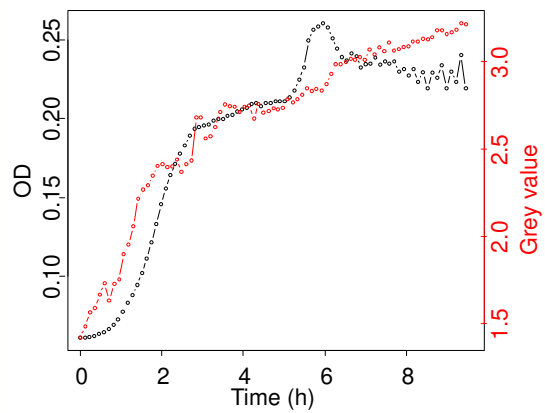
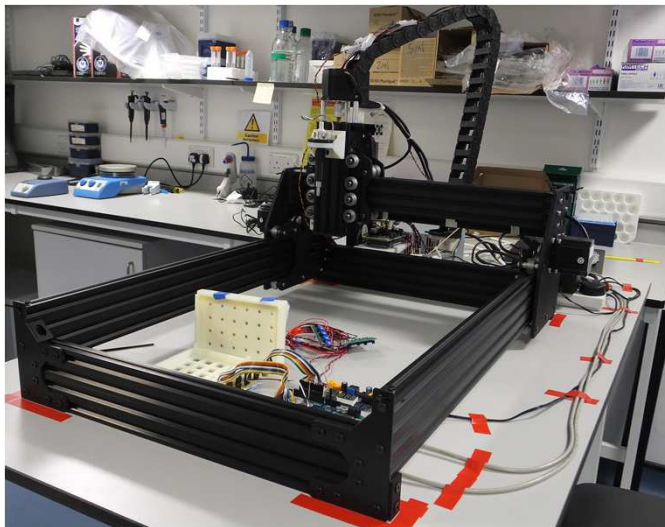
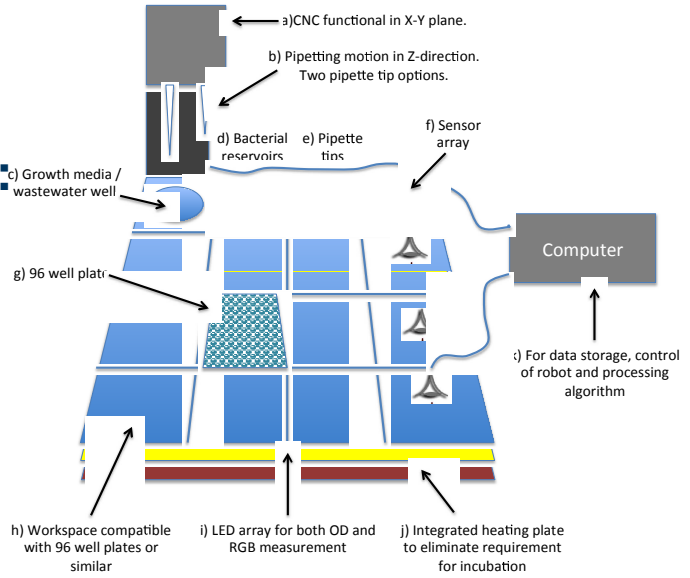


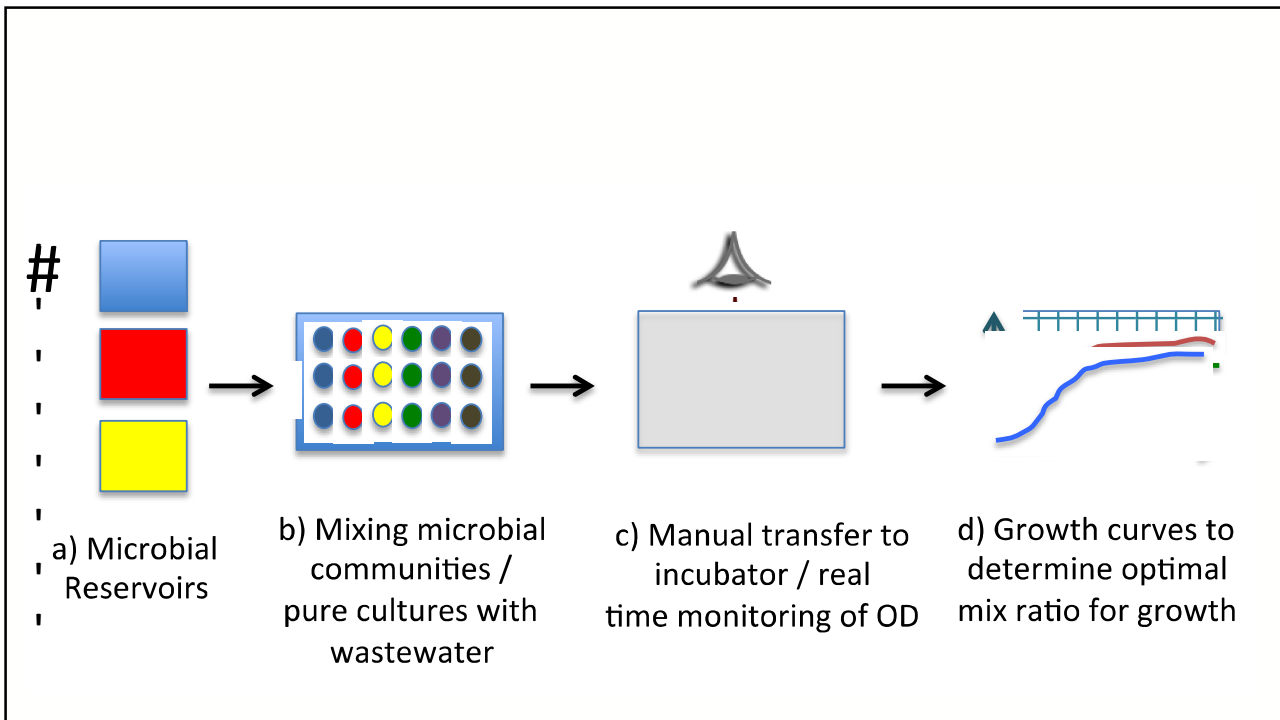
WS2 Low cost
 low cost diagnostic tool:
microbial monitoring:
 Paper folding for detection
 of malaria
pathogen detection
 Multiplex for ultra-low cost
 point of use microbial
 monitoring
 Pathogens in effluent
 Predictor microbe



WS3 Microbial management by the limit state approach: Wastebot

Robotics platform combining:
 Incubation space
 Liquid handling
 Monitoring of microbial growth or activity
 Software for data interpretation
 Algorithm for optimization





AIT, UoG, EPSRC-GCRF!



Resilience Challenge Portfolio Session

Overview of session:

15-20 minute presentation on Resilience Portfolio and calls

10 minutes of break-out discussion around 3 key questions

15 minutes of plenary feedback around questions / general Q&A around theme

GCRF Resilience Challenge Portfolio

GCRF Resilience Portfolio to June 2018: 209 Projects

GCRF portfolio research leadership observed:

- **Integrated hazards and vulnerability** work for fuller range of policy/practice options.
- **Local and scientific knowledges** or participatory methods deployed alongside technical analysis to understand adaptive experience, behaviour and policy/practice options.

Emerging:

- **Knowledge production methods** – e.g. role of uncertainty and ambiguity in risk modelling, policy analysis and communication.
- The role of **mediating systems** in the transition from hazard to impact: emphasis on infrastructure, decision-making, everyday practices, beliefs.



Geographical distribution – 78 countries;
29% in Kenya, India, Nepal, Tanzania, South Africa.
Or: 31% in C'bean, Kenya, India, Nepal, Tanzania

Closest synergies with urban and food security.

GCRF Context to Resilience Calls

- **Equitable Resilience: ensuring resilience enhances the Sustainable Development Goals**
- **Multihazard and Systemic Risk**

GCRF Context:

GCRF legacy research:

Including: NERC/AHRC/ESRC Building Resilience programme

GCRF currently active:

including: Hubs, Growing Research Capability

GCRF future:

including: UKRI GCRF Collective Programme

Equitable resilience: ensuring resilience enhances the Sustainable Development Goals

Scope:

We aim to fund 10 research proposals of up to 36 months duration.

A short Expression of Interest (EOI) should have been completed by 16:00 on 7 March 2019.

All proposals must be submitted through the Je-S system by 16:00 on 17 April 2019.

Grants are expected to start by 1 November 2019.

Equitable resilience: ensuring resilience enhances the Sustainable Development Goals

Global Context:

The ambition of the UNISDR Sendai Framework is to 'build back better'.

The ambition of the SDGs is to 'leave no-one behind'.

Equitable Resilience aims to provide **an evidence base** on the ways in which climate change adaptation, humanitarian action, risk management and resilience can enable **pathways for transition to sustainable development** - ensuring equity across poor and marginalised communities in developing countries.

Equitable resilience: ensuring resilience enhances the Sustainable Development Goals

Structure:

Transformative adaptation

Survivor-led humanitarian response

Enhancing local capacity through understanding and reducing risk

Risk management-development co-benefits

Requires interdisciplinary work embedded with practice and policy actors and/or working closely with those at risk.

Multiple and Systemic Risks

Launched

Outline Bid deadline: 15 May 2019.

Up to £3.5m per project, total spend = £7m.

To start April 2020 for 3 years.

All projects are required to have a principal investigator based in a UK research organisation eligible for UKRI funding

webinar 1 - 09:00-11:00 BST/GMT+1 on 5 April 2019

webinar 2 - 14:00-16:00 BST/GMT+1 on 8 April 2019.

Details about how to register / dial-in will be provided on **1 April 2019**.

<https://nerc.ukri.org/research/partnerships/international/gcrf/news/ao-ukri-risks/>

Multiple and Systemic Risks

Motivation:

The UNFCCC and WTO have highlighted **the importance of environmental shocks, and stresses, as triggers for wider risk cascades spreading across sectors** and resulting in economic disruption, political instability and health crisis, particularly in low and middle income countries.

Projects will improve our understanding of how environmental shocks and stresses propagate through systems to create impacts across sectors, and **how developing world countries can effectively build resilience to these systemic risks.**

Multiple and Systemic Risks

Focus:

The research required incorporates characterization of the exposure and **vulnerability** of communities and infrastructure to **multiple environmental processes** that have potential to cause damage especially through hazard and risk **cascades and contagion**.

Multi-hazards and Systemic Risks: that include but spread beyond natural hazards risk and impact

Multiple and Systemic Risks

The programme has three Research Challenges:

1. Understanding the drivers of multi-hazard events.
2. Characterising the cumulative impacts of risk chains
3. Increasing resilience to multi-hazards and systemic risks.

Projects must address all three Research Challenges listed above.

It is envisaged that the projects will take a case study approach, such as a watershed or small island state. Working across scales and over time and system.

Breakout Session

Instructions for break-out discussions

- Each table has three questions.
- On your table please select a question. For the next 10 minutes discuss with a view to formulating a statement of questions for open discussion.
- On returning to plenary tables will be invited to offer a comment or question.
- In plenary we then continue with any outstanding comments or questions specific to the Resilience portfolio.

Breakout Session

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Table Questions:

1. What additional support/guidance could funders provide that would help you in your roles?
2. Who are the key research partner and stakeholder organisations we should be partnering with to deliver research in this area and enable research outputs to have impact?
3. How can we engage key research partner and stakeholder organisations better to deliver the research and enable research outputs to have impact?

Global Challenges Research Fund

Cities and Sustainable Infrastructure
Dr. Jaideep Gupte – Challenge Leader







Cities and Sustainable Infrastructure



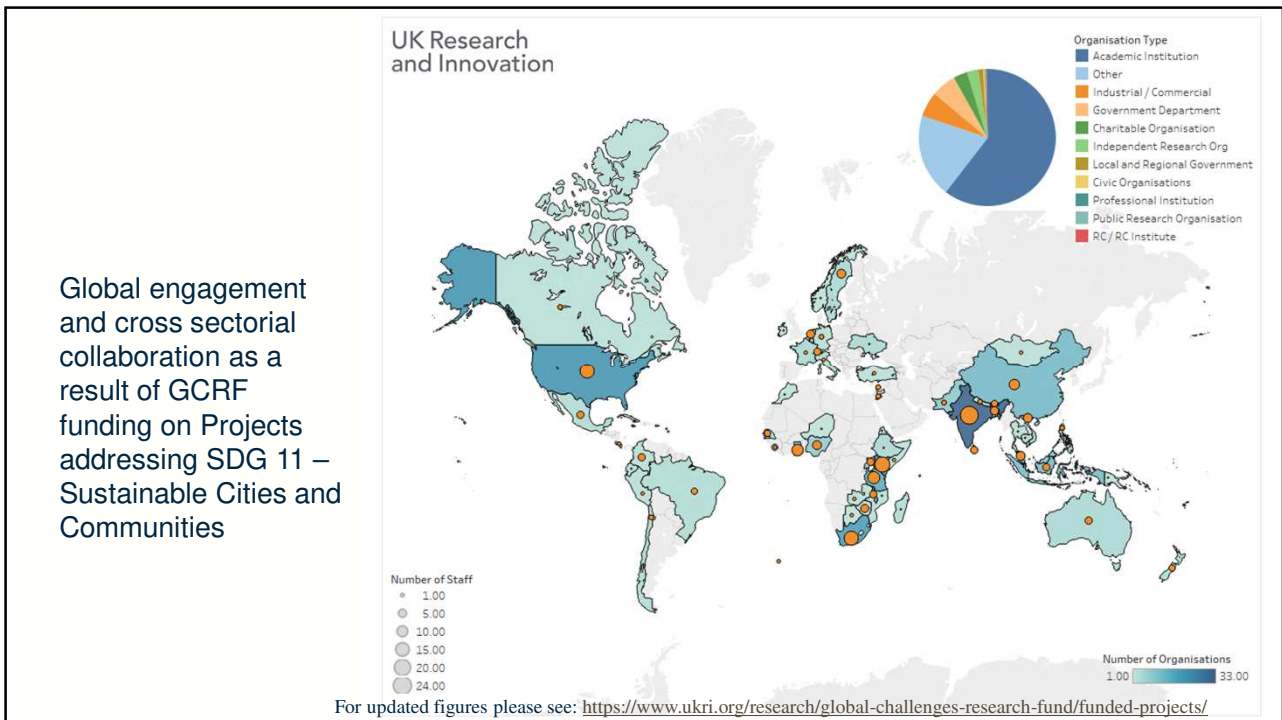
Interconnected SDGs

Complex urban challenges

Cities and Sustainable Infrastructure

- 465 GCRF projects across all Research Councils and Academies with relevance to “urban issues”.
 - 262 – “Urban Economy”
 - 415 – “Urban Environment”
 - 221 – “Urban Governance”
 - 216 – “Urban Society”
 - 184 – “Urban Innovation”
 - 314 – “Infrastructure and essential services”
- 2607 individuals; 553 organisations; 83 countries. (Of these, 1943 people, 395 organisations and 58 countries are on active awards)
- 101 projects fall explicitly within the Cities and Sustainable Infrastructure portfolio

For updated figures please see: <https://www.ukri.org/research/global-challenges-research-fund/funded-projects/>



GROW and Hubs foster coherence within and between portfolios

- Significant recent investment on urban complexities:
 - **GROW**: Sustainable + Healthy Neighbourhoods SHLC (Glasgow); UrbanKNOW (DPU); PEAK_Urban (Oxford)
 - **Hubs**: Water Security (Newcastle); Urban Disaster Risk (Edinburgh); Accountability for Informal Urban Equity and Health (Liverpool)
- Everyday realities are relational; but sense of priority to foreground the **most marginalised (least resourced) urban residents**
- Explicitly speak to ODA priorities; South-South and “lighthouse” linkages
- Interdisciplinarity and seek to create meaningful involvement of urban practices within research
- In ways that are legible to local change makers; local cultures; local histories

New Global Research Hubs to tackle complex development challenges

Urban Disaster Risk Hub	Water Security and Sustainable Development Hub	Accountability for Informal Urban Equity Hub
<p>■ Rapid urbanisation presents a time-limited global opportunity to embed disaster risk management in urban development especially when you consider 80 per cent of the area expected to be urban by 2030 is yet to be built. This Hub will work with international agencies to bring disaster risk management to the centre of global urban policy and practice, strengthening the voice and capacity of the urban poor. The Hub will work across Quito, Nairobi, Kathmandu and Istanbul. Bringing together leading researchers with inspiring community and government leaders, the Hub will work at an unprecedented scale to deliver real impact through interdisciplinary research.</p> <p>£17.6M 12 partner countries 54 partner organisations Lead organisation: University of Edinburgh Principal Investigator: Professor John McCloskey</p> <p>1. People 2. Planet 3. Prosperity 4. Peace 5. Partnerships 6. Policy 7. Practice 8. People 9. Planet 10. Prosperity 11. Peace 12. Partnerships</p> <p>Geographical focus: South America, East Africa, Middle East and South Central Asia Contact details: Professor John McCloskey john.mccloskey@ed.ac.uk</p>	<p>■ Eighty per cent of the world's population live in areas threatened by water security yet efforts to resolve this are repeatedly thwarted by pressures such as pollution, extreme weather, urbanisation, over-abstraction of groundwater and land degradation. This Hub takes a broad view of water systems to explore the challenges and barriers to water security from the impact of different technical, social, cultural and environmental values of water through to the consequences of fragmented water governance. It will tackle these barriers by providing a forum open to all stakeholders, to jointly question, discuss, and construct new ideas to resolve water security issues.</p> <p>£17.7M 12 partner countries 55 partner organisations Lead organisation: Newcastle University Principal Investigator: Professor Richard Dawson</p> <p>1. People 2. Planet 3. Prosperity 4. Peace 5. Partnerships 6. Policy 7. Practice 8. People 9. Planet 10. Prosperity 11. Peace 12. Partnerships</p> <p>Geographical focus: South America, East Africa and South Central Asia Contact details: Professor Richard Dawson richard.dawson@newcastle.ac.uk</p>	<p>■ Over half of the world's population live in cities and one in three of these live in informal settlements in low and middle income countries. But inadequate access to services and limited opportunities to shape their environment lead to a wide range of physical and mental health risks. This Hub will support marginalised people to claim their health rights and help build government accountability and capacity through evidence based research to inform policy change at all levels.</p> <p>£12.1M 4 partner countries 11 partner organisations Lead organisation: Liverpool School of Tropical Medicine Principal Investigator: Professor Ruby Threlkeld</p> <p>1. People 2. Planet 3. Prosperity 4. Peace 5. Partnerships 6. Policy 7. Practice 8. People 9. Planet 10. Prosperity 11. Peace 12. Partnerships</p> <p>Geographical focus: East Africa, West Africa and South Central Asia Contact details: Dr Rachel Tshumd rachel.tshumd@liverpool.ac.uk</p>

UK Research
and Innovation

Healthy housing for the displaced: Improving refugee shelters



EPSRC-supported researchers are leading an international project to improve the living conditions of millions of refugees by designing better shelters. The interdisciplinary project is creating low-cost housing that is easy to construct in refugee camps. The new shelters are being designed to moderate extreme temperatures and provide privacy and security, allowing residents to live in dignity.

Researchers at the University of Bath are working alongside colleagues from the Princess Sumaya University for Technology and German Jordanian University in Jordan, and Turkey's Mersin University are using new combinations of conventional and non-conventional materials including recycled plastic, bamboo, mud and straw to design shelters that can provide warmth in winter and cool conditions during the summer.

The researchers are conducting the largest-ever global study monitoring air quality, thermal and social conditions in refugee camps. The findings from this research will be used to create a new manual for use by aid agencies, such as the United Nations High Commissioner for Refugees, which will feature guidelines on shelter design and construction in camps.

In December 2017, the project won the Royal Institute of British Architects President's Award for Research in Housing, with the judging panel describing it as 'important and timely'.

GRI Link: <http://gtr.ukri.org/projects?ref=EP%2FP029175%2F1>



Image: NOT LICENCED-FROM GOOGLE



Coherence within and between portfolios

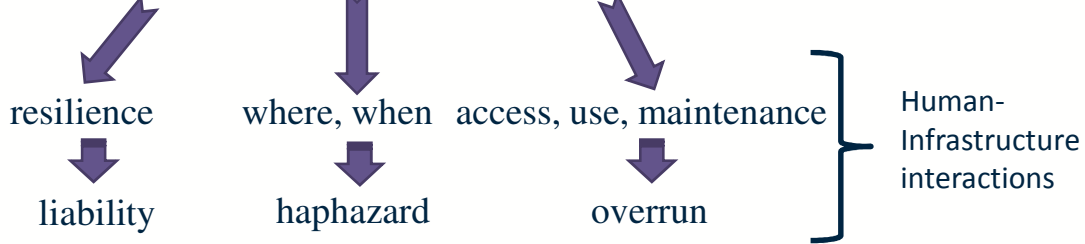
- “The city” / ‘urban’ as complex systems
 - Concentrate opportunities, jobs, and services
 - Important constellations of knowledge and culture
 - Not immune to failure
 - The built environments is gendered, unequal, segregated, racialised...
 - Urban is not simply a location.
- For example:
 - ✓ Rural ↔ urban ↔ land
 - ✓ Built ↔ social ↔ natural environments
 - ✓ On-grid ↔ off-grid
 - ✓ Surface ↔ sub-surface

Coherence within and between portfolios

Grand Challenge: Current infrastructure stock barely accommodates 3 billion people; we will need to built as much infrastructure in the next 40 years as we have in the last 1000 years. We must get this right.

HOW this is done is an important factor defining how cities will respond to/be resilient to natural disasters and displacement crisis.

HOW = (materials + design) + (planning + governance)



Global Challenges Research Fund

- > UKRI GCRF regional engagement event
- GCRF Collective Programme**
- > Global Engagement Networks
- > GCRF Global Impact Accelerator Accounts
- > Interdisciplinary Research Hubs
- > Strategic Advisory Group
- > Challenge Leaders
- > GCRF Agile Response to Emergencies
- > UKRI International Development Peer Review College
- > Funded projects
- > Criteria of funding

Themes and programmes

- International
- Infrastructure
- Industrial Strategy Challenge Fund

Home > Research > Global Challenges Research Fund > GCRF Collective Programme

UKRI GCRF Collective Programme

The UKRI GCRF Collective Programme is a series of calls designed to enhance the overall impact across the six strategic GCRF Challenge portfolios:

- Cities and Sustainable Infrastructure
- Education
- Food Systems
- Global Health
- Resilience to Environmental Shocks and Change
- Security Protected Conflict, Refugee Crises and Forced Displacement

The programme is an interdisciplinary programme delivered by UK Research and Innovation and steered by the GCRF Challenge Leaders.

Applicants from all relevant disciplines are encouraged to apply for each call and proposals should be challenge-led and interdisciplinary in nature notwithstanding which council is leading. Links to each call under the UKRI GCRF Collective Programme can be found below:

Cities and Sustainable Infrastructure

- GCRF (Re)thinking the off-grid city
- GCRF Sustainable energy and international development: beyond technology

Education

- GCRF Education as a driver of sustainable development Network Plus
- GCRF Education in conflict and crisis research
- GCRF Education Interventions for Early Childhood Development

Food Systems

- GCRF Cultures and histories of agriculture, food, and nutrition
- GCRF A combined Food Systems approach to developing interventions to address the Double Burden of Malnutrition

Global Health

- GCRF Health and Context

Resilience to Environmental Shocks and Change

- GCRF Equitable Resilience: ensuring resilience enhances the Sustainable Development Goals
- GCRF Multiple and systemic Risks

Security Protected Conflict, Refugee Crises and Forced Displacement

- GCRF Development-based approaches to Protracted Displacement
- GCRF Preventing Conflict, Building Sustainable and Inclusive Peace
- GCRF Protection in Contexts of Conflict and Displacement

Calls that cut across the portfolios

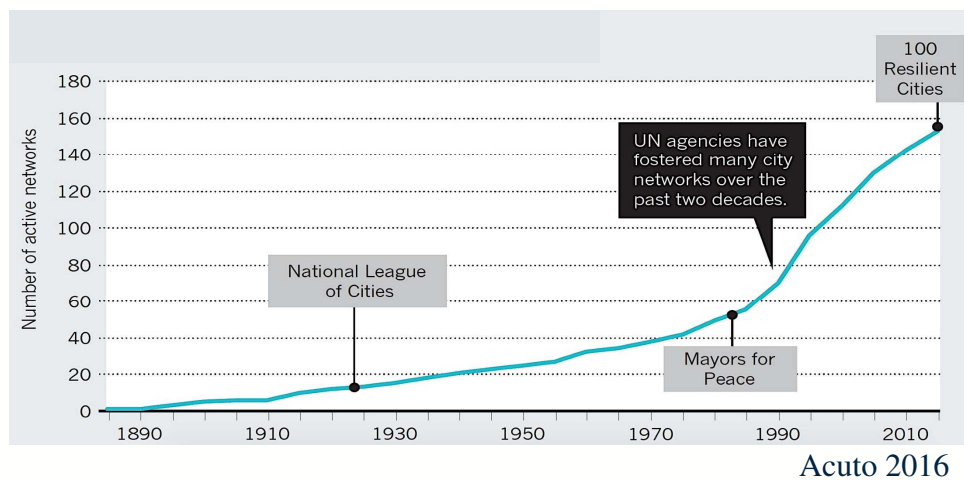
- GCRF Coherence Grants
- GCRF Gender and Intersectionality Network Plus
- GCRF Global Engagement Networks

GCRF: Key Criteria

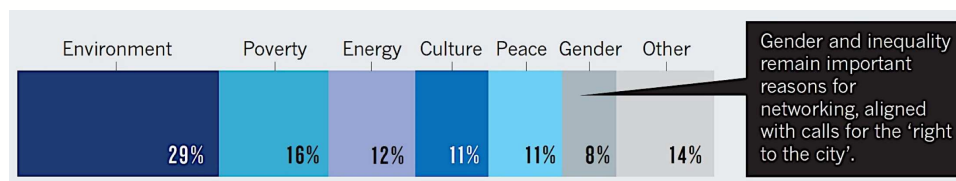
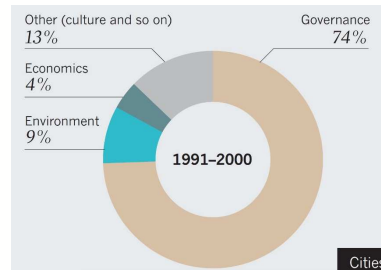
- ✓ Research Excellence
new approaches not constrained by traditional methodologies or disciplinary silos
- ✓ Official Development Assistance (ODA) compliance
OECD guidelines
- ✓ Equitable Partnerships and Building Capacity
strong and enduring partnerships between UK and developing-country researchers to enhance the research and innovation capacity of both
- ✓ Impact: Problem and Solution Focused
substantial impact on improved social welfare, economic development, and environmental sustainability

No city is alone – no need to reinvent the wheel

Examples: C40; WHO healthy cities; Safe Cities; federations + collectives of slum dwellers



City-networks are getting more focused (Climate, Gender, Peace, Poverty)



Acuto 2016

Carry on the conversation!

- To contact any of the challenge leaders please email challengeleaders@ukri.org
-  Twitter: @GCRF ; @JaiGupte



In groups:

What scales are relevant to our research interests (metro regions-cities-towns-neighbourhoods)?

Who are the key research partner and stakeholder organisations we should be partnering with to deliver research in this area and enable research outputs to have impact?

Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...



Global Challenges Research Funding
University of Glasgow
19 March 2019



Scottish Funding Council
 Promoting further and higher education



Comhairle Maoineachaidh na h-Alba
 A' brosnachadh foghlam adhartach agus àrd ìre

National Performance Framework

Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...



OUR PURPOSE
 To focus on creating a more successful country with opportunities for all of Scotland to flourish through increased wellbeing, and sustainable and inclusive economic growth.

OUR VALUES
 We are a society which treats all our people with kindness, dignity and compassion, respects the rule of law, and acts in an open and transparent way.

"The national and international dimensions to poverty and inequality are interlinked. Scotland cannot act with credibility overseas, if we are blind to inequality here at home. And our ambitions for a fairer Scotland are undermined, without global action to tackle poverty, promote prosperity and to tackle climate change."

First Minister, July 2015



Scottish Funding Council
Promoting further and higher education



Comhairle Maoineachaidh na h-Alba
A' brosnachadh foghlam adhartach agus àrd ìre

National Performance Framework

Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...

A Theory of Change

- Mapping research strengths to global challenges
- Creativity and inter-disciplinary work
- Co-design of research with DC partners
- Developing capacity, here and overseas
- Boost to the sector's outward-facing activities
- Realising Scotland's international ambitions



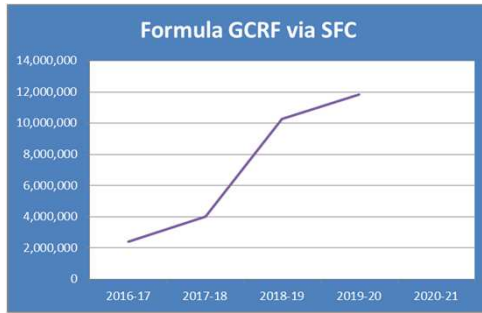
Scottish Funding Council
Promoting further and higher education



Comhairle Maoineachaidh na h-Alba
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Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...

Funding Outlook



2016-17: £2.392m
 2017-18: £4.012m
 2018-19: £10.279
 2019-20: £ ?
 2020-21: £ ?



Formula GCRF: Scottish university activity AY2016-17

£2.393m
120 projects
51 DAC partners



GCRF 2016-17

Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...

Main Research areas

- Human Health
- Agriculture
- Security / conflict
- Renewable energy
- Pollution
- Cultural Heritage



Formula GCRF: Scottish university activity AY 2017-18

£4.012m
330 projects
75 DAC partners



Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...

Some observations to date

- Rapid broadening of sector engagement
- Investment in capacity & partnerships
- Developing routes to impact
- Developing thematic networks
- Development of GCRF Strategies



Scottish Funding Council
Promoting further and higher education



Comhairle Maoineachaidh na h-Alba
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Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...

'..Build a global community of researchers committed to sustainable development and the eradication of poverty' UK GCRF Strategy

- GCRF Strategies & annual reports
- Planning and longer term view of ODA
- Reporting and transparency (assessment begins 3/19)
- Enabling & supporting collaboration



Scottish Funding Council
Promoting further and higher education



Comhairle Maoineachaidh na h-Alba
A' brosnachadh foghlam adhartach agus àrd ìre



Our ambition is that Scotland will be the best place in the world to learn, educate, research and innovate...

Questions & Discussion



Scottish Funding Council
Promoting further and higher education



Comhairle Maoineachaidh na h-Alba
A' brosnachadh foghlam adhartach agus àrd ìre



New and Forthcoming Calls

Sarah Burgess – Strategy and Development Manager, AHRC
&
Daniel Robinson – Senior Research Portfolio Manager, ESRC

GCRF | Global Challenges Research Fund



GCRF (Re)thinking the off-grid city: Human-infrastructure interactions in the context of urban crises and urban change

GCRF | Global Challenges Research Fund



<https://www.devex.com/news/in-kenya-s-largest-slum-the-world-bank-battles-cartels-for-control-of-electricity-93878> Photo: Peter DiCampo



GCRF (Re)thinking the off-grid city



- Delivery partners: ESRC, NERC, AHRC, EPSRC and British Academy
- Objective: to support the most marginalised and least resourced urban residents in the face of acute shocks, chronic stresses and urban change. The call will focus on human-infrastructure interactions and support research that leads to actionable policy alternatives, engineering solutions and social innovations.
- Proposed size of the grants: £500k-£2m (up to 3 years)

GCRF | Global Challenges Research Fund



GCRF (Re)thinking the off-grid city



- Key dates:
 - Call opens: 23rd April 2019
 - Intention to submit deadline: 29th May 2019
 - Call closes: 24th July 2019
 - Panel: November 2019
 - Grants start: 1st February – 1st April 2020
- Enquiries: GCRFOff-GridCities@esrc.ukri.org
or ESRCGCRFQueries@esrc.ukri.org

<https://esrc.ukri.org/funding/funding-opportunities/gcrf-re-thinking-the-off-grid-city-human-infrastructure-interactions-in-the-context-of-urban-crises-and-urban-challenge/>

GCRF | Global Challenges Research Fund



GCRF Sustainable energy and international development: beyond technology

GCRF | Global Challenges Research Fund



GCRF Sustainable energy and international development



- Delivery partners: ESRC, NERC and InnovateUK.
- Objective: Deliver cutting-edge research that enriches our understanding of the intertwined social, environmental, cultural, political and economic factors that affect and shape energy production, access and use in developing countries. Projects should be multi-sectoral and interdisciplinary.
- Proposed size of the grants: £1m - £1.5m (3 years)

GCRF | Global Challenges Research Fund



GCRF Sustainable energy and international development



- Key dates:
 - Call opens: 1st week of April 2019
 - Intention to submit deadline: 15th May
 - Call closes: 2nd week of July 2019
 - Panel: November 2019
 - Grants start: 1st February – 1st April 2020
- Enquiries: GCRFEnergy@esrc.ukri.org

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Equitable Resilience – ensuring resilience enhances the Sustainable Development Goals

- Delivery partners: led by ESRC, in partnership with NERC, AHRC and EPSRC
- Objective: To provide a systematic and rigorously researched evidence base on the ways in which climate change adaptation, humanitarian action, risk management and resilience can enable pathways for transition to sustainable development - ensuring equity across poor and marginalised communities in developing countries.
- The call is structured around four areas: Transformative adaptation , survivor-led humanitarian response, enhancing local capacity through understanding and reducing risk and risk management-development co-benefits
- Proposed size of the grants: Aim to fund 10 proposals of up to £1 million fEC (36 months max)



Equitable Resilience – ensuring resilience enhances the Sustainable Development Goals

- Key dates:

- Call closes: **17th April 2019**
- Panel: September 2019
- Panel Outcomes: October 2019
- Grants start: 1st November 2019

- Enquiries: EquitableResilience@esrc.ukri.org

www.esrc.ukri.org/funding/funding-opportunities



Multi-hazards and Systemic Risks

- Delivery partners: led by NERC
- Objective: To provide a better understanding of the drivers of multi-hazard events, how the impacts of these events cascade through socio-economic systems and to use this knowledge to determine which interventions and policies are effective at mitigating the risks, particularly for vulnerable groups. The focus is on multiple natural hazards and the interrelated environmental, social, economic, cultural and health risks, and effects that can be triggered by these events, or can amplify or compound their impacts.
- Proposed size of the grants: two projects of up to £3.5 million will be funded, lasting up to three years



Multi-hazards and Systemic Risks

Key dates:

- Webinars: 5 and 8 April 2019
- Deadline for outline proposals: **15 May 2019**
- Closing date for invited full bid: September 2019
- Projects start: April 2020

- Enquiries: GCRFResilience@nerc.ukri.org
www.nerc.ukri.org/funding/application/currentopportunities



Key Criteria



GCRF: Fund Level Assessment Criteria

- ✓ **Research Excellence**
new approaches not constrained by traditional methodologies or disciplinary silos
- ✓ **Official Development Assistance (ODA) compliance**
OECD guidelines
- ✓ **Equitable Partnerships and Building Capacity**
strong and enduring partnerships between UK and developing-country researchers to enhance the research and innovation capacity of both
- ✓ **Impact: Problem and Solution Focused**
substantial impact on improved social welfare, economic development, and environmental sustainability

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What is GCRF looking for?

- Proposals need to be ODA challenge-led/solution-focused - compliance statements need to be focused on and specific to the partner/target countries
- Applicants need to demonstrate a deep understanding of the context (societal, cultural, political, historical, economic etc.)
- In-country partners need to be appropriate, involved in the scoping and delivery of the research, and add value
- Support adaptability and resilience by focusing on key competencies/expertise required rather than specific work streams and staff
- Be clear and realistic about the potential impact
 - Directly associated with this grant
 - What are the benefits beyond the lifetime of the grant?

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Je-S

Check the specific call documentation about Principal and Co-Investigator eligibility.

Entering applicants

- All Principal and Co-Investigators must have a fully registered 'Research Proposal' type Je-S account
- Please ensure that you **submit any account requests as soon as possible**.

Contact Je-S helpdesk for technical queries

- JeSHelp@rcuk.ac.uk
- 01793 444164

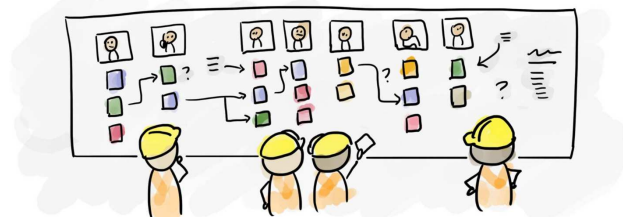
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Pathways to Impact

Should:

- provide timelines and milestones for grant specific activities
- identify a breadth of significant and measurable impacts
- demonstrate understanding of the societal and cultural context of the research
- outline the approaches taken to ensure sustainability and potential for legacy beyond the initial investment



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Notes on Costs

- Principal investigators must be based at an eligible UK RO (ESRC 80% contribution)
- ESRC will fund the justified costs for international co-investigators from ROs of comparable standing with UKRI-recognised UK ROs at 100%
- No cap on costs associated with international co-investigators' contribution but all costs to be fully justified
- International co-investigators from countries not on the DAC list are expected to make a significant contribution to their own research costs and will not be eligible for indirect costs
- Contributions to indirect & estates costs for organisations from DAC list countries are eligible

Please see costings guidance for further detailed information



Points to Note

- Applications must demonstrate:
 - ODA compliance
 - Research excellence
 - Appropriate leadership
 - Interdisciplinarity
 - Development of equitable partnerships
 - Multi-partner engagement and collaboration
 - Value for money and sustainability

