



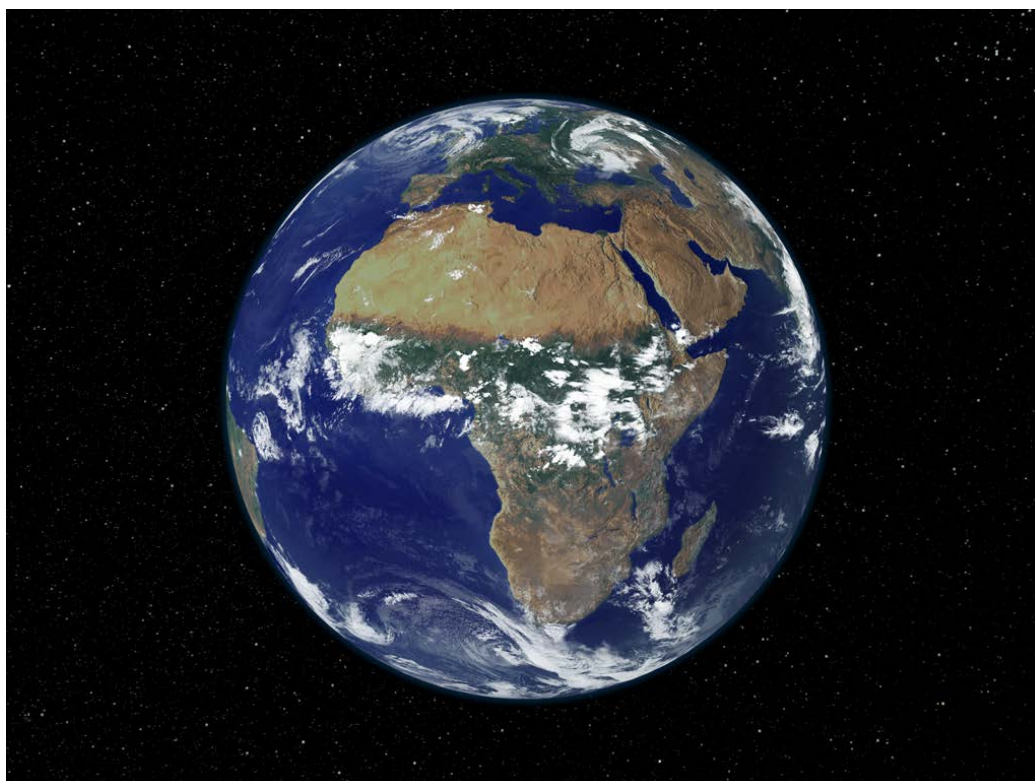
Dealing with Disasters, GCRF, UK Alliance for Disaster Research, Disasters Research Group and UK Collaborative for Development Research

## **DwD-GCRF-UKADR-DRG-UKCDR International Conference, 2019**

17<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> July @ Northumbria University, Newcastle upon Tyne, UK

## **New points of departure in transitioning disaster reduction and sustainability challenges**

### **Programme**



## Contents:

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Conference Outline</b>	<b>2</b>
<b>3</b>	<b>Conference Programme</b>	<b>5</b>
	Day One: Wednesday 17 <sup>th</sup> July	5
	Day Two: Thursday 18 <sup>th</sup> July	8
	Day Three: Friday 19 <sup>th</sup> July	11
<b>4</b>	<b>Conference Guidelines</b>	<b>14</b>
	Registration	
	Oral Presentations	
<b>5</b>	<b>General Information</b>	<b>15</b>
	Contact Information	
	Travel Enquiries	
	Emergencies	
	Wi-Fi Access	
	ATM	
	Reception and Dinner	
<b>6</b>	<b>About UKADR, GCRF, UKCDR and Dwd/DDN Northumbria</b>	<b>17</b>
<b>7</b>	<b>Host Organisation Contact Information</b>	<b>17</b>
<b>8</b>	<b>Maps</b>	<b>25</b>

## 1 Introduction

**The conference aims to stimulate debate and advance thinking around ‘New Points of Departure in Transitioning Disaster Reduction and Sustainability Challenges’ building on the progress made in the recent United Nations Global Platform 2019 and in anticipation of the forthcoming Climate Summit. New points of departure are needed in relation to science and technology, political will and behaviour to bring systemic changes to the way people take on disaster threats and sustainability challenges, to survive and to thrive.**

Multiple examples of attempts to address disaster risk and sustainability have been well represented to date across the many institutions networked within the organisations of this event. This reflects a wide range of advances in research, policy and practice ideas influential globally. However, an expansive array of challenges demand greater and more urgent transitions into safer, more interconnected impacts if rates of progress are to be improved.

The theme of this event is driven by scholarly work and extensive experience from a multi-disciplinary array of allied fields of disaster management, emerging from wide-reaching contributions including via Dealing with Disasters conferences over the years. The Dealing with Disasters series associated with the **Disaster and Development Network (DDN)** at Northumbria began in 2006 and has been hosted by various partners in the UK, Africa and Asia.

Supported by the Resilience portfolio of the UKs **Global Challenges Research Fund (GCRF)** the occasion combines the 12<sup>th</sup> Dealing with Disasters (DwD) and 3<sup>rd</sup> **UK Alliance of Disaster Research (UKADR)** Conferences, Disaster Research Group (DRG) and UK Collaborative for Development Research (UKCDR) in examining current advances and future research needs. The event celebrates the **10<sup>th</sup> Anniversary of the Disasters Research Group (DRG)**.

### Structure of the event

The conference includes 100 presentations, five workshops and a symposium structured into six plenary and 18 parallel sessions.

Plenary sessions reflect the following aspects of the conference topic:

- Setting the scene – why we need new points of departure for disaster reduction and sustainability
- Facing changing challenges of disaster management policy and implementation
- Transitioning health and well-being in Disaster Risk Management
- Future systemic challenges
- Action and hope in transitioning from disaster scenarios to sustainable futures
- New points of departure in transitioning disaster reduction and sustainability challenges

The parallel presentation sessions, workshops and symposium included in the programme are as follows:

- Advancing hazard impact assessment and modelling
- Vulnerability, engagement & disaster risk management
- UNDRR / ISC Hazards Working Group - Workshop
- Institutional and intersectional disaster risk, sustainability and governance
- Culture, values and perception-based departures in preparedness, response and reaction to risk
- UN STAG Data Working Group - Workshop
- WHO Thematic Platform for Health Emergency and Disaster Risk Management Research Network - Symposium
- Progressing change in disaster management planning for critical infrastructures
- DRR and preparedness for very extreme scenarios - Alliance to Feed the Earth in Disasters Workshop
- GCRF Research Hubs; 'Tomorrow's Cities and Living Deltas' - Workshop
- Advancing impact assessment, preparedness and early warning
- Technology Enhanced Disaster Risk Reduction and Response
- The Youth Voice - Workshop
- Environmental sustainability, demands on science and people in resisting critical harm
- Technical disasters, human Induced seismicity, hydraulic fracturing and crime
- Concatenated urban / high density risk and recovery
- Strategic local level interventions and resiliency responses to crises

The event includes the Annual General Meeting of the United Kingdom Alliance for Disaster Research (UKADR) as scheduled in this programme. This meeting is open to all participants of the conference.

## 2 Conference Outline

Date:	17 <sup>th</sup> -19 <sup>th</sup> July
Venue:	City Campus East, Northumbria University, Newcastle upon Tyne, UK
Accommodation:	Local Hotels
Host:	Northumbria University
Chair:	Professor Andrew Collins, Leader of the Disaster and Development Network, Co-Chair of United Kingdom Alliance for Disaster Research, Department of Geography and Environmental Sciences, Faculty of Engineering and Environment, Northumbria University, UK

## Conference Committee:

- Andrew Collins (Northumbria University, UKADR and GADRI)
- Mark Pelling (Kings College London, UKADR, GCRF and DRG) – Conference Co-Chair
- Virginia Murray (Public Health England, UKADR and DRG) – Conference Co-Chair
- Adrian Bucher (UKCDR and DRG) – Conference Co-Chair
- John Rees (British Geological Survey, UKADR, GCRF and DRG) – Conference Co-Chair
- Mark Ashley Parry (Northumbria University)
- Becky Richardson (Northumbria University)
- Richard Kotter (Northumbria University)
- Simon Griffiths (Northumbria University)

## Administration

- Barry Nicholson (Campus Services, Northumbria)
- Rachel Cottiss (Campus Services, Northumbria)
- Alison Vipond (Research and Innovation Services, Northumbria)
- Maureen Edwards (UK Research and Innovation)

## Supporting

### Organisations:

Public Health England (PHE)  
Integrated Research on Disaster Risk (IRDR)  
University of Bristol Cabot Institute  
Collaborating Centre for Oxford University and Chinese University of Hong Kong for Disaster and Medical Humanitarian Response (CCOUC)  
United Nations Office for Disaster Risk Reduction  
WHO Thematic Platform for Health Emergency and Disaster Risk Management  
Global Alliance of Disaster Research Institutes (GADRI)



Collaborating Centre for Oxford University and CUHK  
for Disaster and Medical Humanitarian Response  
CCOUC 災害與人道救援研究所



**Conference Features:** Short abstracts are provided in the form of an abstract proceedings document online. A conference report will be produced by the end of August.

**Local Organizer:** Disaster and Development Network, Department of Geography and Environmental Sciences, Faculty of Engineering and Environment, Northumbria University

**Dedication:** In memory of Dr. Bernard Siambabala Manyena 1968 - 2018

## New Points of Departure in Transitioning Disaster Reduction and Sustainability Challenges

Tuesday 16<sup>th</sup> July, 2019

15:00 – 17:00 Registration: Main Foyer, City Campus East  
17:00 – 18:00 Meeting of Conference Host and Co-Organisers – Room 018, City Campus East

### Wednesday 17<sup>th</sup> July, 2019 (Day One)

08:00 - 08:45 Registrations in main Foyer of City Campus East – breakfast refreshments

**08:45 - 09:15**

**Opening Session:** Lecture Theatre 002  
Chair: **Andrew Collins**, Northumbria University

- *Welcome Address:* **Lucy Winskell** OBE, Pro Vice-Chancellor (Employability and Partnerships), Northumbria University
- *UK Disasters Research Group (DRG):* **John Rees**, United Kingdom Research and Innovation (UKRI), Global Challenges Research Fund (GCRF) Challenge Lead
- *UK Collaborative for Development Research (UKCDR):* **Adrian Bucher**, Research and Policy Officer
- *UK Alliance for Disaster Research (UKADR):* **Andrew Collins**, Co-Chair of UKADR, Disaster and Development Network (DDN)

**09:15 - 10:45**

**Plenary Session One:** Lecture Theatre 002  
*'Setting the Scene – Why we need new points of departure for disaster reduction and sustainability'*

*Presentation 1: Global Assessment Report and the Global Risk Assessment Framework*

**Ricardo Mena**, Chief of the UNDRR Supporting and Monitoring Sendai Framework Implementation Branch, representing the Special Representative of the United Nations Secretary-General (RSG) for Disaster Risk Reduction and Head of UNDRR, Geneva

*Presentation 2: DFID concerns and interests*

**Roger Bellers**, Senior Humanitarian Adviser, Department for International Development (DFID)

*Presentation 3: Research investment that responds to global challenges*

**Ruth Kelman**, Head of Resilient Environment, UKRI Natural Environment Research Council (NERC)

10:45 - 11:00

Tea and Coffee

11:00 - 13:00

Parallel Sessions

Lecture Theatre 002	Seminar Room 223b	Seminar Room 213
<p>Session: <b>'Advancing hazard impact assessment and modelling'</b> Chair: <b>Qihua Liang</b>, Loughborough University</p> <p>1. <i>Rapid post disaster damage mapping with satellite imagery, citizen scientists and machine learning</i> <b>Olga Isupova</b>, Danil Kuzin, University of Oxford, UK, <b>Brooke Simmons</b>, University of Lancaster, UK and <b>Steven Reece*</b>, University of Oxford, UK</p> <p>2. <i>Estimation of Snow Cover and climatic variability using MODIS data of Teesta river basin Sikkim, India</i> <b>Jaydeo K. Dharpure*</b>, <b>Ajanta Goswami</b>, Institute of Technology Roorkee, India, <b>Anil V. Kulkarni</b>, Indian Institute of Science, India</p> <p>3. <i>Using expert judgement and expert elicitation to assess or forecast natural hazards: a systematic review</i> <b>Shreyasi Choudhury*</b>, Bruce D. Malamud, King's College London, <b>Amy Donovan</b>, University of Cambridge</p> <p>4. <i>Hydrodynamic modelling Glacier Lake Outburst Floods (GLOFs) and impact in Nepal</i> <b>Qihua Liang</b>, Loughborough University, UK</p>	<p>Session: <b>'Vulnerability, engagement &amp; disaster risk management'</b> Chair: <b>Wenyang Fu</b>, Northumbria University</p> <p>1. <i>Narratives of vulnerability: how institutions shape everyday perceptions of a disaster</i> <b>Anshu Ogra*</b>, King's College London, <b>Amy Donovan</b>, University of Cambridge, <b>George Adamson</b>, King's College London, UK</p> <p>2. <i>Policies, politics and practices of landslide risk management in post-earthquake Nepal: Perspectives from above and below</i> <b>Katie Oven*</b>, Durham University, <b>Shubheksha Rana</b>, Kathmandu, Nepal, <b>Nick Rosser</b>, Durham University, <b>Gopi Basyal</b>, Durham University and National Society for Earthquake Technology, Nepal, <b>Mark Kinney</b> and <b>Alex Densmore</b>, Durham University, UK</p> <p>3. <i>'Everyday-life preparedness': case studies and applicability</i> <b>Kaori Kitagawa</b>, UCL Institute of Education, UK</p> <p>4. <i>Socioeconomic vulnerability to wildfires in NW Spain</i> <b>María-Luisa Chas-Amil</b>, University of Santiago de Compostela, <b>Jeffrey P. Prestemon</b>, USDA Forest Service, North Carolina, United States, <b>David Butry</b>, National Institute of Standards and Technology, Gaithersburg, United States, <b>Julia Touza</b>, University of York, UK</p> <p>5. <i>The making of man-made disasters: corruption and law violations as catalyst in increasing vulnerability</i> <b>Ayesha L Khalil</b>, University College London, UK</p>	<p>Workshop: <b>'UNDRR / ISC Hazards Working Group'</b> Chair: <b>Virginia Murray</b> and <b>Lucy Fagan</b>, Public Health England</p> <p>This session will comprise:</p> <p>i) A presentation relating to new points of departure in the identification of hazards categorisation in the disaster risk nexus.</p> <p>ii) Group discussions about hazard classification.</p> <p>iii) Opportunity to contribute to the process of implementing the Sendai Framework for Disaster Risk Reduction.</p>

13:00 - 14:00

Lunch

14:00 – 15:30

Plenary Session Two: Lecture Theatre 002

*'Facing changing challenges of disaster management policy and implementation'*

Chair: **Jane Entwistle**, Faculty Pro Vice-Chancellor (Research and Innovation), Engineering and Environment, Northumbria University



**Presentation 1: Strengthening European disaster management through rescEU and the Union's Civil Protection Mechanism**

**Julia Stewart-David**, Head of Unit, Civil Protection, European Commission - ECHO

**Presentation 2: The UK Space Agency on increasing resilience to disasters in developing countries**

**Caroline Harper**, Lead Science Programme Manager, UK Space Agency

**Presentation 3: Supporting more equitable resilience**

**Helen Rogers**, Senior Portfolio Manager, Economic and Social Research Council, UKRI (by remote link up)

**Presentation 4: Bringing communities together for disaster risk reduction**

**Daryl Oprey**, The International Emergency Team UK

15:30 – 15:45

Tea and Coffee

15:45 – 17:45

**Parallel Sessions**

Lecture Theatre 002	Seminar Room 223b	Seminar Room 213
<p>Session: <b>'Institutional and intersectional disaster risk, sustainability and governance'</b> Chair: <b>Jacob Miller</b>, Northumbria University</p>	<p>Session: <b>'Culture, values and perception-based departures in preparedness, response and reaction to risk'</b> Chair: <b>Christine M. Kenney</b>, Massey University, New Zealand</p>	<p>Workshop: <b>'UN STAG Data Working Group'</b> Chair: <b>Andrew Collins</b> and <b>Becky Richardson</b>, Northumbria University</p>
<p>1. <i>Climate information services for resilient smallholder agriculture</i> <b>Alison Sneddon*</b>, <b>Mirianna Budimir</b> and <b>Sarah Brown</b>, Practical Action</p> <p>2. <i>Missing voices: An intersectional approach to understanding gender and disaster risk</i> <b>Sarah Brown*</b>, <b>Mirianna Budimir</b> and <b>Alison Sneddon</b>, Practical A.</p> <p>3. <i>The growth of municipalities and risk governance in Nepal</i> <b>Hanna Ruszczyk</b>, University of Durham</p> <p>4. <i>Civil Society: Top down &amp; Bottom Up</i> 4.1 <i>Top down: Making aid agencies work: potential and challenges for civil society organizations supporting transitioning disaster reduction and sustainability</i> 4.2 <i>Bottom up: DRR to development: Local level perspectives in bridging the practitioner / academic divide</i> <b>Terry Gibson</b>, Inventing Futures</p>	<p>1. <i>Love in a time of terror: Revisiting an indigenous love story in Christchurch New Zealand</i> <b>Christine M. Kenney</b> and <b>Suzanne R. Phibbs</b>, Massey University, New Zealand</p> <p>2. <i>Perceptions on coping and adaptation strategies to environmental and climate stressors in Caribbean coastal communities</i> <b>Julia Touza*</b>, University of York, <b>Carmen Lacambra</b>, Grupo Laera, Colombia, <b>Alexandra Kiss</b>, <b>Rosa Mato Amboage</b>, Instituto de Investigaciones Marinas y Costeras (INVEMAR), Colombia, <b>Paula Sierra</b>, <b>Martin Solan</b>, <b>Tom Spencer</b>, University of Southampton, <b>Piran C. L. White</b>, University of Cambridge</p> <p>3. <i>Developing a "culture of preparedness" – lessons from the CARISMAND project</i> <b>Sandra Appleby-Arnold*</b>, University of Edinburgh, <b>Noellie Brockdorff</b>, University of Malta</p>	<p>This session will comprise:</p> <p>i) A presentation on new points of departure for Action Data in disaster risk reduction and resilience.</p> <p>ii) Group discussions regarding the improved role of data for disaster risk reduction.</p> <p>iii) Opportunity to contribute to the process of implementing the Sendai Framework for Disaster Risk Reduction.</p>

<p>5. DRR related legal and institutional structures of Nepal <b>Dilli Poudel</b>, Southasia Institute of Advanced Studies, Nepal</p>	<p>4. Yonmenkaigi System Method as an educational framework for Climate Change within the United Kingdom: A pilot study <b>Mark Ashley Parry</b>, Northumbria University, UK</p> <p>5. Disaster risk perception of the Rohingya Refugees in Cox's Bazar, Bangladesh <b>Bayes Ahmed*</b>, <b>Peter Sammonds</b>, <b>Shamrita Zaman</b>, IRDR, University College London, <b>Taifur Rahman</b>, Health Management BD Foundation, Bangladesh</p>	
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18:00 – 19:30

Welcome Reception at Conference Venue

## Thursday 18<sup>th</sup> July (Day Two)

08:15 – 09:00

Breakfast refreshments (main foyer outside Lecture Theatre 002)

**09:00 - 10:40**

**Plenary Session Three:** Lecture Theatre 002

*'Transitioning health and well-being in Disaster Risk Management'*

Chair: **Ryoma Kayano**, WHO Kobe Centre, Japan

*Presentation 1: WHO's Health Emergency and Disaster Risk Framework (Address by remote link up)*

**Jonathan Abrahams**, Disaster Risk Management Focal Point, World Health Organization Emergencies Programme, WHO Geneva

*Presentation 2: Thematic Platform for Health Emergency and Disaster Risk Management Research Network*

**Ryoma Kayano** and **Virginia Murray**, Head of Global Disaster Risk Reduction, Public Health England

*Presentation 3: Health communication in Hong Kong's civil unrest*

**Gloria K.W. Chan**, Deputy Director, Collaborating Centre for Oxford University and Chinese University of Hong Kong for Disaster and Medical Humanitarian Response (CCOUC), Hong Kong

*Presentation 4: Prevention and treatment of acute malnutrition in humanitarian emergencies: A multi-organisation collaboration to increase access to synthesized evidence*

**Ben Heaven Taylor**, Chief Executive Officer, Evidence Aid

10:40 – 11:00 Tea and Coffee

**11:00 - 13:00 Parallel Sessions**

Lecture Theatre 002	Seminar Room 223b	Seminar Room 213
<p>Symposium: <b>WHO Thematic Platform for Health Emergency and Disaster Risk Management Research Network</b> Chair: <b>Gloria Chan</b>, CCOUC, Hong Kong</p>	<p>Session: <b>‘Progressing change in disaster management planning for critical infrastructures’</b> Chair: <b>Derek Johnson</b>, Northumbria University</p>	<p>Session: ‘DRR and preparedness for extreme scenarios - workshop with ALLFED, Alliance to Feed the Earth in Disasters’ Chairs: <b>Peter Alexander</b>, GCRF rugs-project.uk, <b>Sonia Cassidy</b> and <b>Ray Taylor</b>, ALLFED</p>
<p>1. <b>Ryoma Kayano</b>, WHO Kobe Centre, Japan</p> <p>2. <i>Enhancing H-EDRM research and education for urban community resilience – the case of Mangkhut</i> <b>Carol Ka-Po Wong</b>, CCOUC, Hong Kong</p> <p>3. <i>Health impact of flood disaster: experience of children from a slum community in Lagos State, Nigeria</i> <b>Ruth Ochanya Adio-Moses</b>, University of Ibadan, Nigeria</p> <p>4. <i>Innovative communication and engagement for children’s hand washing behaviour in high risk environments</i> <b>Becky Richardson</b>, University of Northumbria, UK</p> <p>5. <i>Food security and climate adaptation on South Sudan</i> <b>Kennedy Odhiambo Onjweru</b>, South Sudan Development Agency, South Sudan</p> <p>6. <i>Antimicrobial resistance</i> <b>Scott Barret</b>, Northumbria Health Care Trust, UK</p>	<p>1. <i>Shared leadership in dangerous contexts: The implication for emergency response teams</i> <b>Merrel Knox</b> and <b>Richard Kotter</b>, Northumbria University</p> <p>2. <i>Becoming a recognised ‘good practice’ case study for urban risk management: An analysis of critical junctures for institutional development in Manizales, Colombia</i> <b>Julia Wesely*</b> and <b>Cassidy Johnson</b>, The Bartlett Development Planning Unit, University College London</p> <p>3. <i>Cascading effects on Overhead Line Equipment (OHLE) of extreme wind and flood events</i> <b>Chayut Ngamkhanong*</b>, <b>Sakdirat Kaewunruen</b> and <b>Charalampos Baniotopoulos</b>, University of Birmingham, UK</p> <p>4. <i>Disaster Adaptation to Mitigate Storm Surge (DAMSS) – A framework proposal towards storm surge resilience</i> <b>Anitha Karthik*</b>, <b>Sean R. Smith</b>, <b>Naren Gupta</b>, Edinburgh Napier University, UK</p> <p>5. <i>Community needs of host and displaced communities following a disaster and conflict-induced mass displacements: a review of literature</i> <b>R.R.J.C Jayakody*</b>, <b>C. Malalgoda</b>, <b>Dilanthi Amaratunga</b> and <b>Richard Haigh</b>, University of Huddersfield, UK</p>	<p><b>THEMES:</b></p> <p><b>UK, Asia and global resilience</b> to abrupt scenarios</p> <p><b>Cases:</b> Naples/Tambora eruptions; 2 years without rain</p> <p><b>Multiple Breadbasket Failure (MBBF)</b></p> <p><b>International responses</b> to extreme scenarios</p> <p><b>Resilience</b> via large scale alternative foods</p> <p><b>Media</b> and communication</p> <p><b>Inter-discipline</b> DRR + GCR (Global Catastrophic Risk)</p> <p><b>Financing</b> GCR preparedness and resilience</p> <p><b>Research</b> funding + priorities for GCR resilience</p> <p>Participants can focus on their priority theme</p>

13:00 - 14:00 Lunch

14:00 – 16:00

Parallel Sessions

Lecture Theatre 002	Seminar Room 223b	Seminar Room 213	Seminar Room 222
<p>Symposium: <b>WHO Thematic Platform for Health Emergency and Disaster Risk Management Research Network</b> Chair: <b>Virginia Murray</b>, Public Health England</p>	<p>Session: <b>GCRF Research Hubs; ‘Tomorrow’s Cities and Living Deltas’</b> Facilitators: <b>Hugh Sinclair</b>, Edinburgh University and <b>Andy Large</b>, Newcastle University Chairs: <b>Kate Crowley</b>, Edinburgh University and <b>Louise Bracken</b>, Durham University</p>	<p>Session: <b>‘Advancing impact assessment, preparedness and early warning’</b> Chair: <b>David Gleeson</b>, Faculty Pro Vice-Chancellor, Arts, Design and Social Sciences, Northumbria University</p>	<p>Session: <b>‘Technology Enhanced Disaster Risk Reduction and Response’</b> Chair: <b>Terrence Fernando</b>, University of Salford, UK</p>
<p>1. <i>The inverse response law: A global gaze on institutional failure in the aftermath of disaster</i> <b>Suzanne Phibbs</b> and <b>Christine M. Kenny</b>, Massey University, New Zealand</p> <p>2. <i>Bringing US long-term care and skilled nursing facilities up to acceptable levels of emergency preparedness compliance</i> <b>John J. Walsh Jr</b>, Vanderbilt University Medical Center, USA</p> <p>3. <i>Health and well-being of displaced population in disaster settings: victims and survivors reactions to losses and refugees’ trauma</i> <b>Amer Hosin</b>, University of Ulster, UK</p> <p>4. <i>Tackling persistent exclusion of older people and people with disabilities in humanitarian responses: Towards critical capacity building of humanitarian organisations</i> <b>Supriya Akerkar</b>, Oxford Brookes University, UK</p> <p>5. <i>Mental Health in Complex Emergencies: Brief Overview of Issues and Controversies</i> <b>Jane Gilbert</b>, Consultant Clinical Psychologist, UK</p> <p>6. <i>Please mind the gap between the train and the platform edge: the sanitary systems of railways: perception, reality and behaviour</i> <b>Anthony Corkin</b>, Northumbria University</p>	<p><b>Hugh Sinclair</b>, Edinburgh University <b>Andy Large</b>, Newcastle University</p> <p><b>Andrew Collins</b>, Northumbria University <b>Brian Golding</b>, Meteorological Office, UK <b>Dilli Poudel</b>, Southasia Institute of Advanced Studies <b>Jenni Barclay</b>, University of East Anglia <b>Louise Bracken</b>, Durham University <b>Qihua Liang</b>, Loughborough University <b>Sophie Blackburn</b>, Kings College London</p>	<p>1. <i>Reflections on flood early warning systems in Nepal and Peru</i> <b>Mirianna Budimir</b>, <b>Sarah Brown</b>, <b>Alison Sneddon</b>, Practical Action</p> <p>2. <i>Collaborative Early Warning System: An integrated Framework for mitigating impacts of natural hazards in the UAE</i> <b>Abdulla Al Hmoudi</b>, Abu Dhabi Police Emergency Department and Rabdan Academy, UAE</p> <p>3. <i>Global food security impacts of abrupt shocks, and research priorities</i> <b>Peter Alexander</b>, GCRF rugs-project.uk, <b>Aron Mill</b>, ALLFED Berlin, <b>Ray Taylor</b>, ALLFED, <b>Simon Day</b>, UCL, <b>David Denkenberger</b>, Alaska, Fairbanks</p> <p>4. <i>Communities’ perspectives on effective community participation in Disaster Risk Reduction (DRR)</i> <b>Subhajyoti Samaddar*</b>, <b>Hirokazu Tatano</b>, Disaster Prevention Research Institute (DPRI), Kyoto University, Japan</p>	<p>1. <i>The use of satellite technology for predicting landslides</i> <b>Andrew Iwanoczko</b>, Telezpazio Vega UK Ltd</p> <p>2. <i>Assessment of the impact of floods through modelling and simulation support</i> <b>Neil Entwistle</b>, AquaUS – Salford University</p> <p>3. <i>Multi-agency collaboration platform for supporting disaster risk reduction and response</i> <b>Terrence Fernando</b>, THINKlab, University of Salford, UK</p> <p>4. <i>Challenges in implementing a digital approach to multi-agency collaboration in DRR: UK Perspective</i> <b>Ian Everall</b>, MirrorWorld Technologies Ltd</p>

- 16:00 – 16:15      Tea and Coffee
- 16:15 - 17:15**      **Plenary Session Four:** Lecture Theatre 002  
*'Future systemic challenges'*  
 Chair: **Phil O'Keefe**, Emeritus Professor, Northumbria University, UK
- Presentation 1: Why we need to invent stewardship cities*  
**Peter Taylor**, Emeritus Professor, Northumbria University, UK
- Presentation 2: Existential Threats – modern agile conflict*  
**Maitland Hyslop**, DDN Affiliate, Northumbria University, UK
- 17:15 – 18:30      UKADR Annual General Meeting: Room 002
- 19:00 – 21:30**      **Conference Dinner - The Great Hall, Sutherland Building, Northumbria University**

### Friday 19<sup>th</sup> July (Day Three)

- 08:15 – 09:00      Breakfast refreshments (main foyer outside Lecture Theatre 002)
- 09:00 - 10:40**      **Plenary Session Five:** Lecture Theatre 002  
*'Action and hope in transitioning from disaster scenarios to sustainable futures'*  
 Chair: **Adrian Bucher**, UK Collaborative for Development Research
- Presentation 1: Challenges of interagency collaboration in emergency response in Nigeria*  
**Tajudeen Akanji**, Institute for Peace and Strategic Studies, University of Ibadan, Nigeria
- Presentation 2: Interdisciplinary approaches to community-led disaster risk reduction: time to open up citizen science?*  
**Jenni Barclay**, **M. Teresa Armijos**, University of East Anglia, **Anna Hicks**, British Geological Survey, UK
- Presentation 3: Influencing policy and practice agendas through disaster risk, resilience and climate change research into action*  
**Sarah Blackburn** and **John Rees**, UKRI, GCRF

10:40 – 11:00

Tea and Coffee

11:00 - 13:00

Parallel Sessions

Lecture Theatre 002	Seminar Room 223b	Seminar Room 213
<p>Symposium: <b>'The Youth Voice'</b> Chair: <b>Mark Ashley Parry</b>, Northumbria University</p>	<p>Session: <b>'Environmental sustainability, demands on science and people in resisting critical harm'</b> Chair: <b>Luke Parry</b>, Lancaster University, UK</p>	<p>Session: <b>'Technical disasters, human induced seismicity, hydraulic fracturing and crime'</b> Chair: <b>Paul Stretesky</b>, Northumbria University</p>
<p>Presenters:</p> <p><b>Jonathan Nicholls</b>, Werneth School, Stockport, UK  <b>Alexander Virgili</b>, Corpo Italiano di San Lazzaro, Italy and United Nations Major Group for Children and Youth  <b>Francis McIlhenny and Robyn Miller</b>, Disaster and Development Society, Northumbria University, UK  <b>South African Youth Centre for Disaster Risk Reduction</b>, North-West University, Potchefstroom, South Africa</p> <p>Greta Thunberg Speech (video)  Extinction Rebellion Review</p> <p>Panel:</p> <ul style="list-style-type: none"> <li>- <b>Alexander Virgili</b>, Corpo Italiano di San Lazzaro</li> <li>- <b>Mark Ashley Parry</b>, Northumbria University, UK</li> <li>- <b>Peter McGowan</b>, King's College London, UK</li> <li>- <b>Richard Kotter</b>, Northumbria University, UK</li> <li>- <b>Subhajyoti Samaddar</b>, Kyoto University, Japan</li> <li>- <b>Virginia Murray</b>, Public Health England, UK</li> </ul>	<p>1. <i>Strengthening capacities to manage flood risk in Senegal: enhancing heavy rainfall and impact nowcasting, and reviewing the communication and use of warnings</i>  <b>Steven J. Cole*</b>, Centre for Ecology &amp; Hydrology, UK, <b>Emma Visman</b>, VNG Consulting, UK, <b>Tanya Warnars</b>, Centre for Ecology &amp; Hydrology, UK, <b>Mariane Diop-Kane</b>, <b>Moustapha Kamara</b>, Agence Nationale de l'Aviation Civile et de la Météorologie (ANACIM), Senegal, <b>Malick Diagne</b>, GeoRisk Afric, Senegal, <b>Seonaid R. Anderson</b>, <b>Christopher M. Taylor</b>, <b>Cornelia Klein</b>, Centre for Ecology &amp; Hydrology, UK</p> <p>2. <i>Slow emergencies? Amazonian droughts, (dis)connecting jungle cities and everyday harm</i>  <b>Luke Parry</b>, Lancaster University, UK</p> <p>3. <i>Towards a hybrid epistemology: Why social and physical science should work together in the El Niño Southern Oscillation research</i>  <b>George Adamson</b>, Department of Geography, King's College London</p> <p>4. <i>From man-made disaster to environmental hazard: Strategic Design Intervention of a learning centre for Rohingya children considering future reclamation of nature</i>  <b>AKM Sirajuddin</b>, BRAC University and <b>Yasmin Ara</b>, Lancaster University</p> <p>5. <i>Your disaster research is even more important than you think! A global perspective on vulnerability to extreme, complex and cascading scenarios</i>  <b>Aron Mill</b>, ALLFED, <b>Matthijs M Maas</b>, Centre for International Law, Conflict and Crisis, University of Copenhagen, Denmark</p>	<p>1. <i>Natural, Technological, and Natech disaster research: toward a convergence of perspectives</i>  <b>Duane Gill</b>, Oklahoma State University</p> <p>2. <i>Perceptions associated with human-induced seismicity: qualitative findings from Oklahoma and Colorado</i>  <b>Liesel Ritchie</b>, Oklahoma State University)</p> <p>3. <i>A systematic review of the relationship between shale gas development and crime</i>  <b>Paul Stretesky*</b>, Northumbria University and <b>Philip Grimmer</b>, University of Heidelberg</p> <p>4. <i>Improving organisational resilience to the cascading effects of technological failures</i>  <b>Gianluca Pescaroli*</b>, <b>Ilan Kelman</b>, <b>Rob Wicks</b>, <b>David Alexander</b>, University College London</p>

13:00 - 14:00 Lunch

**14:00 - 16:00 Parallel Sessions**

Lecture Theatre 002	Seminar Room 223b
Session: <b>'Concatenated urban / high density risk and recovery'</b> Chair: <b>Mike Deary</b> , Northumbria University	Session: <b>'Strategic local level interventions and resiliency responses to crises'</b> Chair: TBC
<p>1. <i>Real time research and supporting urban self-recovery after disasters. The case of Cyclone Idai, Beira, Mozambique</i> <b>Holly Schofield</b>, Care International, UK</p> <p>2. <i>The 2019 contingency associated with increased volcanic activity at Popocatepetl Volcano, Mexico</i> <b>Ana Lillian Martin Del Pozzo*</b>, <b>Carmen Jaimes-Viera</b>, <b>Sandra Gonzalez</b>, <b>Montserrat Luna</b>, <b>Amiel Nieto-Torres</b>, <b>Mario Díaz</b>, <b>Fernando Franco</b>, <b>Alberto Paz</b> and <b>Natalie Guerrero</b> Universidad Nacional Autónoma de México, México</p> <p>3. <i>Major air pollution incidents and a model for estimating the risk from acute particulate exposure on public health</i> <b>Simon Griffiths</b>, University of Northumbria</p> <p>4. <i>A Flood Preparedness Model For Resilience Around Fluvial Disasters</i> <b>Isaac Dziya</b>, University of Huddersfield, UK</p> <p>5. <i>Construction Health, Safety &amp; Resilience in post-Disaster/Emergency Response</i> <b>Simon Daly</b>, O'Halloran &amp; O'Brien Ltd</p>	<p>1. <i>Negotiating NGO-state relations for equitable resilience: evidence from the Andaman Islands</i> <b>Sophie Blackburn</b>, Kings College London, UK</p> <p>2. <i>Towards measurement of resilience of educational communities</i> <b>R Parajuli</b>, <b>M Xanthou</b>, <b>J Agarwal</b>, <b>A Sextos</b>, University of Bristol, <b>Maria G. Xanthou*</b>, University of Bristol, Harvard CHS, Hellenic Open University</p> <p>3. <i>Building resiliency and capability in the wake of challenges, risks and vulnerability: The UAE case example</i> <b>Ibrahim Almarzouqi</b>, United Arab Emirates</p> <p>4. <i>Assemblage Theory and the future of Disaster Risk Management (DRM) in Kalimpong, India</i> <b>Peter McGowran</b>, King's College London</p> <p>5. <i>Viewing community resilience in the South through the "eyes" of Mega Storms: A conceptual analysis</i> <b>Henry Bang*</b> and <b>Lee Miles</b>, Bournemouth University</p>

16:00 – 16:15 Tea and Coffee

**16:15 - 16:50 Plenary Session Six:** Lecture Theatre 002

**Facilitated Group Discussion**

*Chairs: Andrew Collins et al.*

*Topic: "New points of departure in transitioning disaster reduction and sustainability challenges"*

**16:50 – 17:00** Closing: Conference Chairs – Lecture Theatre 002

## 4 Conference Guidelines

### Registration

Registrations must be completed by the start of the event on 17<sup>th</sup> July.

Registration includes the cost of conference documentation, reception, lunches and tea breaks. You can select to attend the conference dinner. If not booked for the conference dinner, it is possible to see one of the conference staff during the first two days as attendance may be still possible subject to places being available and a booking being made.

### Oral Presentations

All presentations should be concise and to the point. Unless an alternative arrangement has been made the maximum length of a **plenary presentation is 20 minutes**. **Parallel session presentations should be no more than a maximum of 15 minutes**. The timing is crucial so that there is time in every session for questions and open debate. PowerPoint facilities are provided in all session rooms. If using PowerPoint, you can email your presentation to Rachel Cottiss [rachel.cottiss@northumbria.ac.uk](mailto:rachel.cottiss@northumbria.ac.uk) by 12:00 on Tuesday 16<sup>th</sup> July to have it preloaded. Alternatively bring it on a USB device for uploading in the room your presentation will take place in prior to the start of the session. Even if mailing it in advance please also bring it on a USB device as back up.

### Workshops

Flip charts are available for the workshops.



## 5 General Information

### Contact Information

Please contact a member of the team if you have any questions regarding your event.

Conferencing & External Hire Team – [07712237231](tel:07712237231)

For all events after 5pm or at weekends when you are on campus, please call **Security**.

Security and a first aider can be contacted 24/7 on [0191 227 3999](tel:01912273999)

### Travel Enquiries

Rail Enquiries

Tel: +44 (0)8457 484 950

[www.nationalrail.co.uk](http://www.nationalrail.co.uk)

Airport Enquiries

Newcastle International Airport

Tel: +44 (0)871 882 1122

[www.newcastleairport.com](http://www.newcastleairport.com)

### If Feeling Unwell

Please notify the conference organiser, Security and a first aider can be contacted 24/7 on [0191 227 3999](tel:01912273999)

### Taxi Numbers

Noda Taxis: 0191 222 1 888

Blueline Taxis: 0191 262 6666

### Wi-Fi Access

#### Guest Wi-Fi

Here are the steps to get you setup and on your way:

1. From your device connect to the network **WiFi Guest**
2. Open a web browser

**Note:** If you received a Certificate notice, select **Proceed Anyway** to continue

3. From The Cloud landing page locate the box **Get online at Northumbria University** and click **Go**
4. Scroll down to select **Create Account**
5. Enter your details and your account will be created.

You will then be connected to **WiFi Guest**

### Eduroam

Visitors to Northumbria can log on to our Wi-Fi network using the username and password from their home university or college, if their institution is an Eduroam member. Visitors should check out how to connect to Eduroam at their home university/college before arriving at Northumbria.

### **Drinks Reception & Conference Dinner**

A conference drinks reception will take place on Wednesday 17<sup>th</sup> July at 6pm in City Campus East foyer area.

If you have signed up to the Conference Dinner, it will take place Thursday, 18<sup>th</sup> July in The Great Hall, Sutherland Building.

### **ATM Machine**

There is an ATM machine located in the foyer area of the conference venue in City Campus East.

## **6 About UKADR, GCRF, UKCDR and Dwd/DDN Northumbria**

### **United Kingdom Alliance for Disaster Research (UKADR)**

The primary motivation for the UKADR ([www.UKADR.org](http://www.UKADR.org)) is to bring together the UK's rich and diverse disaster research community. This facilitates collaboration and partnership to aid representation of the research community at government level in the UK, and, where appropriate, help with the implementation of the Sendai Framework for Disaster Risk Reduction.

The Alliance is independent and managed by voluntary contributions from the UK research community. Membership is open to staff and PhD students of any research-and-capacity-building institute based in the UK that is active in researching disaster risk and its management. This includes universities and other educational institutions, charitable trusts, think tanks and research departments within government agencies, private businesses or civil society organisations. Disaster risk reduction, prevention and preparedness, disaster response, reconstruction and recovery are all of interest.

The focus of the UKADR is all contexts and systems of disaster risk, recognising the UK's role in this field across an interconnected world. UKADR understands that the science of disaster risk and its management is interdisciplinary. There is an emphasis on integrated and applied dimensions of knowledge production that is also rooted in fundamental science. This includes work from the natural sciences, engineering and technology, medical and health sciences, agricultural science, social sciences and humanities, and includes information technology, economics and behavioural sciences. UK science on disaster risk is widely recognised as world leading. UKADR aims to support excellence in science and enhance opportunities for impact on policy and practice by acting as:

- an alliance of the academic disaster research community, to facilitate collaboration and partnership across the UK
- an advocate of UK science to UK Government
- a contact point for UK Government seeking the best UK science input
- a mechanism for UK Government to communicate emerging needs to the UK science community

To help meet these aims, UKADR also sits in the UK Disaster Research Group, a committee of research funders, government departments and charitable donors, which has been hosted by the UK Collaborative on Development Sciences (UKCDS), now UK Collaborative on for Development Research (UKCDR) since 2009.

The UK Government first called for improved interaction with the disaster science community in its 2011 Humanitarian Emergency Response Review. This was repeated in the 2012 Government Office of Science Foresight Report on Reducing the Risk of Future Disasters. In 2015, UK Government's responsibilities under the UNISDR Sendai Framework for Disaster Risk Reduction 2015–2030 placed renewed emphasis on science and on evidence-based policy and practice. In 2016, many from the international science community attended the United Nations Office for Disaster Risk Reduction (UNISDR) Science and Technology Conference on the implementation of the Sendai Framework for

Disaster Risk Reduction 2015–2030, and a roadmap for supporting Sendai was shared under the leadership of the UNISDR Science and Technology Advisory Group.

UKADR provides a national contact point for international efforts to coordinate scientific efforts to reduce the global impacts of disaster. It collaborates with other international agencies engaged in supporting Sendai. These include: [International Council for Science \(ISC\)](#), [UNISDR-sponsored programme on Integrated Research on Disaster Risk \(IRDR\)](#) and [Global Alliance of Disaster Research Institutes \(GADRI\)](#).

To date the UKADR has been fulfilling its aims through incremental involvement in helping to steer UKRI GCRF calls including through short review studies and a joint workshop, providing an impetus to the establishment of other regional Alliances – e.g. North American Alliance, African Alliance and European Alliance, also in collaboration with the Global Alliance (GADRI), and in establishing a conference series. The current conference is the third in the series following earlier ones at Kings College London (2017) and Bristol University (2018). The themes of these were:

- (2017) What are the areas of data, knowledge and capacity that research funders should prioritize to maintain UK's international science leadership and responsibility under the Sendai Framework?
- (2018) Complex hazards, complex vulnerabilities

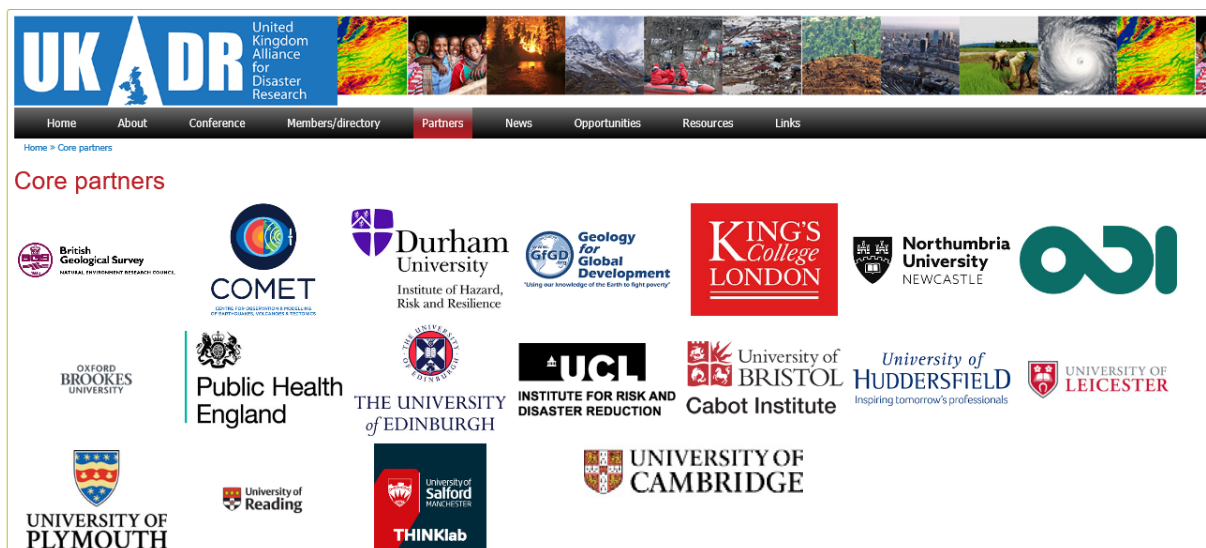
Leadership of the UKADR is through election amongst its membership. The constitution established during the start up period specifies that elections need to take place every three years. The current Co-chairs and positions were elected in 2017 following an interim start up period and therefore new elections need to take place for the period from 2020. The current roles are:

Co-Chairs: Mark Pelling (King's College London); Andrew Collins (Northumbria University)

Membership Secretary: Amy Donovan (Cambridge University, formerly King's College London)

Web Manager: Lina Hannaford (British Geological Survey), replacing Gemma Nash.

Committee Members: Virginia Murray (Public Health England), Peter Sammonds (University College London), David Alexander (University College London), Louise Bracken (Durham University), Ryerson Christie (University of Bristol), Emily Wilkinson (Overseas Development Institute), Susanne Sargeant (British Geological Survey), John Reese (UKRI). The UKADR constitution is available in more detail at the website [www.UKADR.org](http://www.UKADR.org). Current core partner members include those indicated in the web screen image below.



## Disasters Research Group (DRG)

The Disasters Research Group (DRG) is a forum convened by the UK Collaborative on Development Research (UKCDR) comprising of senior representation from 20 organisations in the UK that fund and/or support disaster risk reduction research including the Department for International Development, UK Research and Innovation and the Wellcome Trust, as well as national representatives of UNDRR, IRDR, IPCC, WMO, WHO and GEO.

The aim of the DRG is to enhance research and technology-based disaster risk reduction through improved coordination of UK and international funders, research providers and users as well as delivering components of the UK's commitment to disaster risk reduction. The group also serves to review trends in disaster risk reduction funding, identifying associated opportunities, and guiding direction of future funding.

In doing this, the key roles of the DRG include:

- The sharing of information on UK funding activities and encouraging collaboration between members;
- The providing of readily available and relevant information on research gaps and foci that may support relevant and/or associated mapping works to funders, research providers and users;
- The developing and recommending of processes to facilitate and sustain research uptake across multiple user communities;
- The influencing of international and national research and innovation agenda for DRR.

Since its establishment 10 years ago in 2009, the DRG has played an influential role in discussions surrounding disaster risk resilience – both at the national and international levels. Among the key achievements of the group was its role in advocating and promoting the inclusion of science and scientific evidence in the post-2015 development agenda for disaster risk reduction. With support from bodies such as the International Council for Science, UNESCO, and the World Health Organisation, the DRG led the way in calling for a coordinated approach and a unified agenda to strengthen resilience to disasters and extreme events, where research would be more actionable, coupled with more effective ways of providing evidence-based advice to support disaster policy and practice.

This work by the DRG earned recognition by the United Nations Office for Disaster Risk Reduction; the DRG was credited as one of the most influential bodies in framing the role of science and technology within the Sendai Framework for Disaster Risk Reduction - the latest global framework to strengthen disaster resilience.

## Global Challenges Research Fund (GCRF)

The Global Challenges Research Fund (GCRF) is a £1.5 billion fund announced by the UK Government in late 2015 to support cutting-edge research that addresses the challenges faced by developing countries. Alongside the other GCRF delivery partners we are creating complementary programmes that:

- promote challenge-led disciplinary and interdisciplinary research, including the participation of researchers who may not previously have considered the applicability of their work to development issues
- strengthen capacity for research, innovation and knowledge exchange in the UK and developing countries through partnership with excellent UK research and researchers
- provide an agile response to emergencies where there is an urgent research need.

GCRF forms part of the UK's Official Development Assistance (ODA) commitment, which is monitored by the Organisation for Economic Cooperation and Development (OECD). The GCRF delivery partners are: UK Research and Innovation, Scottish Funding Council, Higher Education Funding Council for Wales, Higher Education Division Northern Ireland, Academy of Medical Sciences, Royal Society, British Academy, Royal Academy of Engineering and UK Space Agency.

GCRF has three challenge areas, which are a vision for change and not intended to constrain innovative approaches in other areas that also address these aims.

### Equitable Access to Sustainable Development

Our vision is to create new knowledge and drive innovation that helps to ensure that everyone across the globe has access to:

- secure and resilient food systems supported by sustainable marine resources and agriculture
- sustainable health and well being
- inclusive and equitable quality education
- clean air, water and sanitation
- affordable, reliable, sustainable energy.

### Sustainable Economies and Societies

The pace, nature and patterns of economic growth are threatening the future of our climate and eco-systems and are placing a major burden on the Earth's resources. At the same time populations are increasingly shifting from rural to urban areas. Each of the five challenge areas listed above must be placed in the context of the need to create prosperous economies and societies. There is also a need to understand and address the local and global challenges of population growth and pressure on the environment and climate, as well as new socio-economic models based on enabling technologies such as digital technologies. The GCRF will also encourage research and innovation that in the longer-term, builds:

- sustainable livelihoods supported by strong foundations for inclusive economic growth and innovation
- resilience and action on short-term environmental shocks and long-term environmental change
- sustainable cities and communities
- sustainable production and consumption of materials and other resources.

### **Human Rights, Good Governance and Social Justice**

It is increasingly recognised that development, human rights, good governance and social justice are indivisible. Developing an understanding of the institutions that embed and promote human rights, good governance and social justice - and the means to strengthen these - is paramount. Progress against the pursuit of the Sustainable Development Goals (SDGs) has been particularly challenging in fragile and conflict-affected states, while multiple refugee crises are applying mounting pressure in countries of origin, transit and destination. The GCRF will also support research and innovation that enables us to:

- understand and respond effectively to forced displacement and multiple refugee crises
- reduce conflict and promote peace, justice and humanitarian action
- reduce poverty and inequality, including gender inequalities.

### **United Kingdom Collaborative for Development Research (UKCDR)**

The UK Collaborative on Development Research ([www.UKCDR.org](http://www.UKCDR.org)) is a group of government departments and research funders working in international development. For over a decade, it has brought UK research funders together to discuss priorities and coordinate efforts to garner maximum impact. The UKCDR is a neutral and impartial entity governed by the Strategic Coherence of ODA-funded Research (SCOR) Board.

#### **Vision**

Accelerating global development through the power of research and knowledge.

#### **Strategy**

At the core is a principal commitment to data mapping, analysis and foresight, with our remaining activities built upon this strong foundation of knowledge and evidence. We have four integrated and overlapping aims:

- Mapping, analysis and foresight
- Convening for collaboration and joint action
- Sharing information, learning and best practice
- A collective voice to shape policy

## Motivation

In recent decades, there has been unprecedented global development progress. Since the 1990s, the world has managed to more than halve the numbers of child deaths and of people living in extreme poverty. But there is still much progress to be made, in a world that is rapidly changing and where major development, demographic and environmental transitions are bringing new challenges that require different transdisciplinary and innovative approaches. In 2015, recognising the complexity of the world in which we live, the UK along with 192 leaders across the world agreed on a set of 17 Global Goals to make the world a better place by 2030, by reducing poverty, ending hunger, halting climate change, strengthening global peace, and promoting prosperity.

UK Universities and research institutes have a long tradition of outstanding work in, for and with developing countries. Recognising the value of research, in 2015 the UK government made a dramatic shift within its international development efforts – a yearly incremental rise in aid spend specifically for research from under £400 million in 2015 to over £1.2 billion in 2021. UKCDR firmly believes that research across disciplines and in partnership with low and middle income countries is essential to drive global development progress. This changing funding landscape provides a fantastic opportunity to address the global goals through generation of knowledge.

## History

The UK Collaborative on Development Sciences (UKCDS) was established in 2007, in response to a House of Commons Science and Technology Select Committee inquiry into the use of science in international development. In March 2015, the UK government reaffirmed its commitment to spend 0.7% of its Gross National Income on Official Development Assistance (ODA). Since November 2015, it has taken a whole of government approach to its international development effort, leveraging wider expertise through the UK's world-leading science, research and development base to tackle global problems.

While the Department for International Development (DFID) is still the main delivery channel, more ODA funding for research and development is now administered by other departments to draw on their complementary skills. Given this new approach, and the uplift of ODA research funding in departments other than DFID, in July 2016 the House of Lords Science and Technology Committee recommended the creation of a coherence and coordination mechanism for government ODA-research funds. Following this recommendation, the Strategic Coherence for ODA-funded Research (SCOR) Board was established in 2017 to provide high-level coherence for UK ODA research. In June 2018, UKCDS rebranded to the UK Collaborative on Development Research (UKCDR) to reflect this diverse and changing landscape, with our new vision and aims under the strategic direction of the SCOR Board.



## Disaster and Development Network, Northumbria University

The Disaster and Development Network (DDN) through its research aims to develop teaching, learning, knowledge and skills to address hazards, disasters and complex emergencies. The Network facilitates research in disaster risk reduction, sustainable development and resilience building. It also addresses human security and wellbeing for individuals, groups and institutionally in contexts of current and potential crises.

In 2000, Northumbria University launched an acclaimed postgraduate programme in Disaster Management and Sustainable Development followed by the establishment of a Disaster and Development Centre until 2012 and becoming the Disaster and Development Network (DDN). This work has included research and education collaborations with stakeholders, including DFID, EU, World Bank, WHO, UNHCR, UNICEF, Research Councils, ELRHA and other local, national and regional actors. The network is made up of staff at Northumbria University together with affiliates from institutions internationally. Its research and engagement spans:

- **Disaster Resilience and Human Security** - including; People Centred Disaster Reduction, Disaster Education and Communication, Sustainable Livelihoods, Natural Resources Management, Rights Based and Conflict Risk Reduction Approaches.
- **Health Centred Disaster Risk Reduction** - including; Health Security, Infectious Disease Risk Management, and Integrated Food and Livelihood Security.
- **Wellbeing in Disaster and Development** - including; Community Mental Health and Wellbeing, Social Care in Disaster and Development, Gender and Disaster, Migration and Displacement.
- **Disaster Response and Adaptation** - including; Integrated Emergency Management, Energy Security, Relief and Restoration and Climate Change Adaptation.

Academic staff and affiliates connected to the Network have international research and engagement profiles, meaning that students studying the **MSc Disaster Management and Sustainable Development** and its associated studies become part of a global community, maximising potential for a career upon graduation through the contacts encountered. In 2012 the then Disaster and Development Centre (DDC) also launched the process of a multi-institution Disaster and Development Alliance (DDA) of institutional networks supported by then MPs, MEPs and several of the UK's academic and NGO entities including an early initiative to identify 'champions of change'. Early in its evolution this process subsumed alongside other initiatives leading to the establishment of the UKADR nationally and the Global Alliance of Disaster Research (GADRI) at world level.

As part of its mission to enhance integrated disaster and development initiatives worldwide a Dealing with Disasters Series of conferences was started in 2006 based on its hosting of several

successful pre-events in preceding years. The **Dealing with Disasters** series has comprised the following conference themes to date:

- 2006: 'Planning Response and Investigation' (UK)
- 2007: 'Resilience, Response and Investigation' (UK)
- 2008: 'Putting Resilience into Response' (UK)
- 2009: 'Resilience through Local Governance' (Nepal)
- 2010: 'Linking Disasters and Development: the next 10 years' (UK)
- 2011: 'Reflections on Recent Disasters: the last 10 years' (UK)
- 2013: 'From Opportunity to Action: Bridging the Gap between Disaster Reduction and Development through Science(s), Technology and People Centred Actions' (UK; jointly with IDRiM Society)
- 2014: 'Building Disaster Resilience is Everybody's Business' (South Africa)
- 2015: 'Health Centred Disaster Risk Reduction: a new agenda for a new era' (UK)
- 2016: 'Conflict Prevention, Post-Conflict Transformation, and the Conflict, Disaster Risk and Sustainable Development Debate' (Sierra Leone; jointly with IPRA)
- 2017: 'The Impact of Hazard, Risk and Disasters on Societies' (UK; jointly with Durham IHRR)
- 2019: 'New Points of Departure in Transitioning Disaster Reduction and Sustainability Challenges' (UK; jointly with UKADR, DRG, GCRF, UKCDR)

The DDN also supports a further initiative emergent at local levels on the Youth Voice in disaster and development, also referred to as the Youth Voice in Disaster Risk Reduction, in climate and variously. At the home of the DDN in Northumbria this is expressed as an entirely student owned **Disaster and Development Society (DDS)**.

The DDN is hosted by the Department of Geography and Environmental Sciences which is situated within the Faculty of Engineering and Environment of Northumbria University. Northumbria University is committed to delivering ground-breaking interdisciplinary research which is responsive to the needs of society and communities, both nationally and internationally. It has invested considerably in eight new Multidisciplinary Research Themes, all of which seek to orient to addressing the world's grand challenges including Environmental and Global Justice, Extreme Environments, Integrated Health, Bio-Economy, Future Engineering, Digital Living and Critically Aware Design Innovation. These and the Universities overall commitment to **Take on Tomorrow** [www.northumbria.ac.uk](http://www.northumbria.ac.uk) resonate well with disaster and development research, policy and practice going forward.

## 7 Host Organisation Contact Information

Conference website: [www.northumbria.ac.uk/dwd2019](http://www.northumbria.ac.uk/dwd2019)

Email: [sz.dwdconf@northumbria.ac.uk](mailto:sz.dwdconf@northumbria.ac.uk)

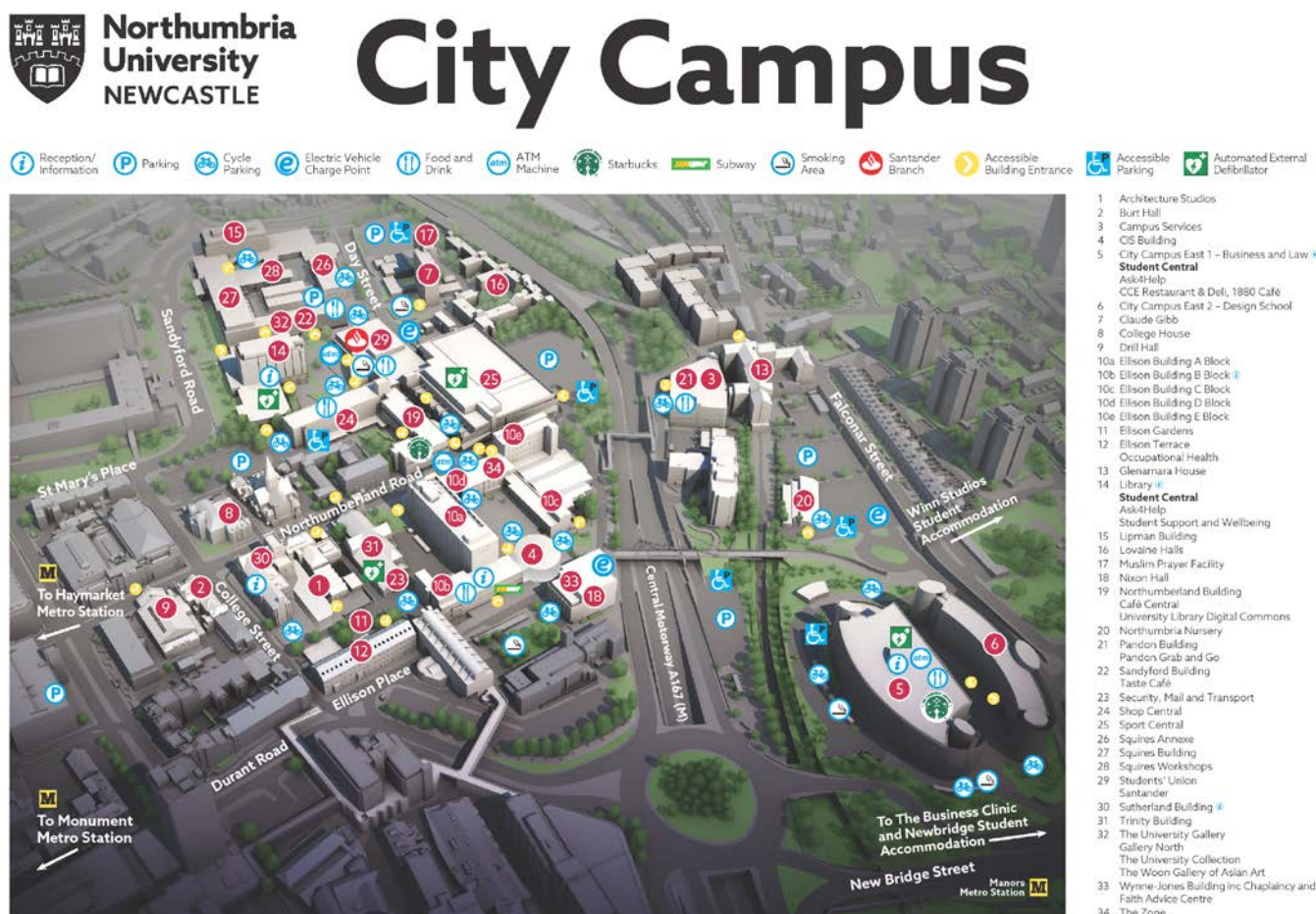
Northumbria University Disaster and Development Network (DDN)

Department of Geography and Environmental Sciences, Faculty of Engineering and Environment,  
B308, Ellison Building, Newcastle upon Tyne NE1 8ST, United Kingdom

Telephone: +44(0)191 227 4215

Website: [www.northumbria.ac.uk/ddn](http://www.northumbria.ac.uk/ddn)

## 8 Maps



## Newcastle upon Tyne

