# Building resilience to natural disasters using financial instruments

Networking Event Attendees  
28 July 2017, Radisson Blu Portman Hotel, London

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Organisation</th>
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<tbody>
<tr>
<td>Jonathan Reeves</td>
<td>Policy adviser, resilience and climate change</td>
<td>ActionAid UK</td>
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<tr>
<td>Elias Lewi Teklemariam</td>
<td>Associate Professor</td>
<td>Addis Ababa University</td>
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<tr>
<td>Shane Latchman</td>
<td>AVP</td>
<td>AIR Worldwide Ltd</td>
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<tr>
<td>David Williams</td>
<td>Business Development Manager</td>
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<tr>
<td>John Alexander</td>
<td>Managing Director</td>
<td>Aquobex</td>
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<tr>
<td>Angela Vodden</td>
<td>Solicitor</td>
<td>Avac Ltd (with the University of Central Lancashire)</td>
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<tr>
<td>Claire South</td>
<td>Director</td>
<td>AWAHA Consulting</td>
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<tr>
<td>Olga Mursajew</td>
<td>CEO</td>
<td>b2b Protect GmbH</td>
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<tr>
<td>Sheri Lim</td>
<td>Climate Change &amp; Resilience Team Leader</td>
<td>CARE International UK</td>
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<tr>
<td>Richard Dixon</td>
<td>Director</td>
<td>CatInsight</td>
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<tr>
<td>Bryony Townhill</td>
<td>Marine Climate Change Scientist</td>
<td>Cefas</td>
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<tr>
<td>Charlie Stratford</td>
<td>Water Sector Engagement Manager</td>
<td>Centre for Ecology and Hydrology</td>
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<td>Richard Ewbank</td>
<td>Global Climate Advisor</td>
<td>Christian Aid</td>
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<tr>
<td>Paula Jarzabkowski</td>
<td>Associate Dean of Research &amp; Enterprise</td>
<td>City, University of London</td>
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<tr>
<td>Julie Calkins</td>
<td>Programme Manager - Climate Risk</td>
<td>Climate-KIC</td>
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<tr>
<td>Dolores Rey</td>
<td>Lecturer in Water Policy and Economics</td>
<td>Cranfield University</td>
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<td>Nicola Ranger</td>
<td>Senior Insurance and Risk Advisor</td>
<td>DFID</td>
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<tr>
<td>Ken Wright</td>
<td>Climate &amp; Water Adviser</td>
<td>DFID</td>
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<tr>
<td>43</td>
<td>Hanna Ruszczyk</td>
<td>Research Fellow, Durham University</td>
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<td>52</td>
<td>Helena Wright</td>
<td>Senior Policy Advisor, E3G</td>
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<td></td>
<td>Paul Sanderson</td>
<td>Deputy Head, Economic Performance and Environment, ESRC</td>
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<tr>
<td>72</td>
<td>Stuart Fraser</td>
<td>Consultant to IDF Risk Modelling and Mapping Group, Fraser Disaster Risk Consulting</td>
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<tr>
<td>74</td>
<td>Simon Young</td>
<td>Strategic Consultant, GeoSY Ltd</td>
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<tr>
<td>95</td>
<td>Christina Schubert</td>
<td>Advisor, German Corporation for International Cooperation</td>
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<tr>
<td>82</td>
<td>Paul Henshaw</td>
<td>Director of Technology and Development, Global Earthquake Model (GEM) Foundation</td>
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<tr>
<td>73</td>
<td>Juan Marcano</td>
<td>Business Development, Global Parametrics</td>
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<td>91</td>
<td>John Plevin</td>
<td>Actuary, Government Actuary's Department</td>
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<td>67</td>
<td>Giulio Tirabassi</td>
<td>CAT Research Analyst, Guy Carpenter</td>
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<td>78</td>
<td>Darren Lumbroso</td>
<td>Technical director, HR Wallingford</td>
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<td>Ralf Toumi</td>
<td>Professor, Imperial College London</td>
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<td>71</td>
<td>Matt Foote</td>
<td>None, Independent</td>
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<tr>
<td>61</td>
<td>Clare Shakya</td>
<td>Group Director - Climate Change, International Institute for Environment &amp; Development</td>
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<td>86</td>
<td>John Bevington</td>
<td>Technical Director, JBA Consulting</td>
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<td>Lenny Smith</td>
<td>Professor, London School of Economics</td>
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<td>42</td>
<td>Alistair Milne</td>
<td>Professor of Financial Economics, Loughborough University</td>
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<td>19</td>
<td>Robby Soetanto</td>
<td>Senior Lecturer, Loughborough University</td>
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<td>31</td>
<td>Katarzyna Werner</td>
<td>Senior Lecturer, Manchester Metropolitan University</td>
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<td>21</td>
<td>Tanya O'Garra</td>
<td>Lecturer, Middlesex University</td>
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<td>76</td>
<td>Soenke Kreft</td>
<td>Executive Director, Munich Climate Insurance Initiative / United Nations University</td>
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<td>4</td>
<td>Kevin Horsburgh</td>
<td>Head of Science for International Development, National Oceanography Centre</td>
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<td>1</td>
<td>Lisa Bettington</td>
<td>Programme Manager (Innovation)</td>
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<td>2</td>
<td>Komal Aryal</td>
<td>Research Associate (Disaster Risk Management)</td>
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<td>Bernard Manyena</td>
<td>Senior Lecturer</td>
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<td>Wendy Chapple</td>
<td>Deputy Director, International Centre for CSR</td>
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<td>5</td>
<td>Rebecca Nadin</td>
<td>Head of Programme, Risk and Resilience</td>
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<td>Lena Weingaertner</td>
<td>Research Assistant</td>
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<td>7</td>
<td>Tracy Carty</td>
<td>Climate Change Policy Adviser</td>
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<td>Rozana Himaz</td>
<td>Senior Lecturer in Economics</td>
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<td>9</td>
<td>Colin McQuistan</td>
<td>Senior Advisor DRR and CC</td>
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<td>Meghan Bailey</td>
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<td>Mark Harvey</td>
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<td>John Auburn</td>
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<td>Stephen Moss</td>
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<td>14</td>
<td>Robert Muir-Wood</td>
<td>Chief Research Officer</td>
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<td>15</td>
<td>Victor Murinde</td>
<td>AXA Professor in Global Finance</td>
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<td>Christine Oughton</td>
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<td>Matthew Raywood</td>
<td>Catastrophe Research Analyst</td>
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<td>Andrew Smith</td>
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<td>Miroslav Petkov</td>
<td>Head of Financial Services Climate Change Research</td>
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<td>Luke Caley</td>
<td>Crisis Anticipation Advisor</td>
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<td>Clare Harris</td>
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<td>Will Simonson</td>
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<td>Serge Guillas</td>
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<td>Lucy O'Shea</td>
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<td>41</td>
<td>Meng Tong</td>
<td>Academic Staff</td>
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<td>1</td>
<td>Michael Walz</td>
<td>Postgraduate research Student</td>
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<tr>
<td>98</td>
<td>Valentina Noacco</td>
<td>Research Associate - Water and Environment Research group</td>
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<td>48</td>
<td>Max Werner</td>
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<td>Andrew Voysey</td>
<td>Director, Sustainable Finance</td>
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<td>Yi He</td>
<td>Lecturer in Hydrology</td>
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<td>Andres Felipe Alonso Rodriguez</td>
<td>Research Fellow</td>
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<td>Tristano Sainati</td>
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<td>Tim Foster</td>
<td>Lecturer in Water-Food Security</td>
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<td>David Schultz</td>
<td>Professor of Synoptic Meteorology</td>
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<td>Carl Adams</td>
<td>Principal Lecturer</td>
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<td>Konstantinos Vergos</td>
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<td>Richard Lamb</td>
<td>Knowledge Exchange Manager</td>
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<td>Research Scientist</td>
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<td>Patrick Doncaster</td>
<td>Professor in Ecology</td>
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<td>26</td>
<td>Candice Howarth</td>
<td>Senior Lecturer Sustainability &amp; Climate Comms</td>
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<td>6</td>
<td>Dominic Kniveton</td>
<td>Professor of Climate Science and Society</td>
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<td>Olalekan Adekola</td>
<td>Research Fellow</td>
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<td>3</td>
<td>Mark Everard</td>
<td>Associate Professor of Ecosystem Services</td>
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<td>16</td>
<td>Piran White</td>
<td>Professor of Environmental Management</td>
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<td>64</td>
<td>Kevin Huttly</td>
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<td>Daniel Fairweather</td>
<td>Director - Livestock, Aquaculture, Fisheries</td>
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<td>65</td>
<td>David Simmons</td>
<td>Managing Director: Capital, Science and Policy</td>
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<td>56</td>
<td>Jason Garrett</td>
<td>Resilience Programme Adviser</td>
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<tr>
<td>NAME</td>
<td>Michael Walz</td>
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<td>ORGANISATION &amp; LOGO</td>
<td>UNIVERSITY OF BIRMINGHAM</td>
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**WHAT DO YOU DO?**
- Postgraduate Research Student in Meteorology/Climatology
- Working with storms (Tropical/Extra-tropical)
- Identifying drivers for extreme events
- Severity quantification
- Exploiting ensemble forecasts
- Predictability and Impact studies

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Tropical cyclones in developing countries
- Event Based approach
- Return levels of extreme events
- Future changes in extreme storms

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Experience with loss data in developing countries
- Potential financial instruments
- Validation methods of financing instruments
- Mutual understanding of disaster risk financing

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Expertise in storm events
- Application of extreme value statistics
- Experience with ensemble forecast handling
- Climatological expertise -> Climate change

**REQUESTS FOR CONTACT AFTER THE EVENT**
- Preferably via email to me -> maw526@bham.ac.uk
- Or to Dr Gregor Leckebusch -> g.c.leckebusch@bham.ac.uk
**WHAT DO YOU DO?**
Atmosphere and ocean modelling

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
DROUGHT, FLOOD, TROPICAL CYCLONE

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
RE-INSURANCE BROKERS
CATASTROPHE MODELLERS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
STOCHASTIC AND PHYSICAL MODELLING OF HAZARDS

**REQUESTS FOR CONTACT AFTER THE EVENT**
YES
<table>
<thead>
<tr>
<th>NAME</th>
<th>Dr Mark Everard</th>
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<tr>
<td>ORGANISATION</td>
<td>University of the West of England</td>
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<td>EMAIL</td>
<td><a href="mailto:mark.everard@uwe.ac.uk">mark.everard@uwe.ac.uk</a></td>
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<td>TELEPHONE</td>
<td>07747-120019</td>
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**WHAT DO YOU DO?**
- Ecosystem services: theory and practice
- Natural resource management
- Aquatic ecosystems including wetlands: 'wise use', conservation and sustainable livelihoods
- Developing world programmes: research and capacity-building around NRM
- Member of the Ramsar Convention STRP
- Science/policy interface including public communication

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
Regeneration of linked socio-ecological systems (SEs), with specific current foci for this workshop:
- Regeneration of catchments for the security of linked rural, urban, irrigation and wildlife dependents
- Forest regeneration for multiple ecosystem service outcomes
- The potential for PES, zero interest/low-interest bonds and other novel financial instruments to achieve regeneration of linked SESs

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Practical skills in applied financial instruments related to the building or rebuilding of resilience in developing world contexts (urban, rural, ecological and their close interdependencies)
- Related expertise in my current areas of interest in India and the wider South Asian region, or with my former areas of interest in southern and east Africa

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- My skill set is elaborated above in terms of what I have been done (and published) and can do
- I also have extensive practitioner networks in various parts of India, most prominently and currently in Rajasthan, Tamil Nadu, and in the Himalayas (Uttarakhand as well as into Nepal) around SES regeneration

**REQUESTS FOR CONTACT AFTER THE EVENT**
- I am keen to collaborate with others as part of a team to progress my catchment-related programme in Rajasthan, other water-related interests in the Himalayas, but also forest-related issues in Tamil Nadu... and/or to rekindle my work in Africa
<table>
<thead>
<tr>
<th>NAME</th>
<th>KEVIN HORSBURGH</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:kevinh@noc.ac.uk">kevinh@noc.ac.uk</a></td>
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<tr>
<td>TELEPHONE</td>
<td>07921 959320</td>
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<td>ORGANISATION &amp; LOGO</td>
<td>NATIONAL OCEANOGRAPHY CENTRE</td>
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**WHAT DO YOU DO?**
I lead international scientific development for the National Oceanography Centre (NOC). My own research is in the field of coastal flood risk, storm surges and extreme sea levels. I lead an international expert team on coastal hazards forecasting and in that capacity manage several projects that deliver coastal flood warning systems and capability to the world’s most vulnerable regions.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
For coastal nations with developing economies the marine environment is an opportunity for economic growth. Maritime emerging economies need mechanisms to ensure they are resilient to both economic and environmental shocks.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
Partners from all sectors and wider disciplines to use marine information to help developing coastal economies achieve:

- Increased resilience to climate change
- Food and energy security
- Accelerated blue economies

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
NOC has world leading expertise in: habitat and resources mapping, advanced ocean modelling, use of autonomous ocean sensors and platforms, use of satellite data, sea level science and coastal hazards forecasting.

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<th>NAME</th>
<th>Tim Foster</th>
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<td><a href="mailto:timothy.foster@manchester.ac.uk">timothy.foster@manchester.ac.uk</a></td>
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**WHAT DO YOU DO?**
I am Lecturer in Water-Food Security in the School of Mechanical, Aerospace and Civil Engineering.

My research develops and integrates crop growth models, earth observation datasets, and economic and financial techniques to evaluate water risks in agriculture, and design solutions to support resilient water management and food security.

I am actively involved in several projects spanning a range of topics and regions, including precision irrigation design (China, Europe), agricultural groundwater management (United States), and hydropower-irrigation trade-offs (SSA, SE Asia).

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Development and validation of weather indices for agricultural drought risk insurance
- Understanding how local water supply constraints affect performance of index-based crop insurance
- Use of remote sensing to quantify and monitor crop yield losses and livelihood impacts from extreme weather events
- Moral hazard and behavioural responses to crop insurance

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Drought and other agricultural risk insurance developers or providers, in particular related to design of index/parametric insurance contracts
- Household surveys, interviews, and other social science methods for understanding drivers of risk exposure (e.g. related to water supply constraints)
- Climate/weather modelling and prediction of extreme weather events under current and future climate
- Remote sensing and satellite image processing

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Crop modelling (e.g. AquaCrop-OS: [www.aquacropos.com](http://www.aquacropos.com)), and use for assessing weather and water scarcity impacts on crop yields/productivity
- Application of remote sensing for monitoring of crop growth, yields, and water use
- Analysis of farm water use decision-making and agricultural economics

**REQUESTS FOR CONTACT AFTER THE EVENT**

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<th>Prof Dom Knivetton</th>
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**WHAT DO YOU DO?**
- DFID-NERC SHEAR project FORPAC looking at 'Forecast based action for humanitarian agencies around drought and flood risks in Kenya';
- DFID-ESRC-NERC Future climate for Africa ‘AMMA2050’ project looking at improving climate resilience in West Africa;
- DFID-ESRC/RGS project 'Supporting the social mobility of trapped populations in very poor urban areas';
- GCRF project ‘Social learning around the use of climate information to build resilience’;
- EU’s JRC on Foresight, Behavioural Insights and Design for Policy looking at ‘The future of migration in Europe’

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

(I) **FORECAST BASED FINANCE**

(II) **THE DEVELOPMENT OF SELF ASSESSED RISK BASED CREDIT AND INSURANCE SCHEMES** (through individualised index thresholds) combined with community pooled resources

(II) **LEVERAGE OF REMITTANCE BONDS TO FUND CREDIT AND INSURANCE SCHEMES**

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

FINANCIAL-ECONOMIC-MATHEMATICAL AND TECHNICAL EXPERTISE TO CO-DEVELOP AND FORMALISE RESEARCH IDEAS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

EXCELLENT CASE STUDY LOCATIONS ACROSS AFRICA AND SOUTH ASIA

EXPERIENCE OF WORKING AT MULTIPLE LEVELS WITH STAKEHOLDERS FROM GOVERNMENTS, HUMANITARIAN ORGANISATIONS, COMMUNITY BASED ORGANISATIONS, FARMERS, AGREOPASTORLAISTS, PASTORALISTS AND MIGRANTS

REQUESTS FOR CONTACT AFTER THE EVENT
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<th>Prof. David Schultz</th>
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<td>ORGANISATION &amp; LOGO</td>
<td>School of Earth and Environmental Sciences</td>
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<td>The University of Manchester</td>
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### WHAT DO YOU DO?

Professor of Synoptic Meteorology

Climatology and societal impacts of extreme weather: tornadoes, large hail, lightning, and lightning fatalities.

2012 UK floods: How bad could they have been?

“What’s the Worst that Can Happen? Re-examining the Most Destructive Convective Storms over Europe”.

Working with the Risk Prediction Initiative, which funds translation of academic research into actionable results for its member insurance companies.

First European-wide evaluation of severe-thunderstorm and tornado-warning programmes.

Examining the decisions made by individuals under the threat of tornado warnings.

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?

Applications of knowledge of extreme weather occurrence and intensity to end-users.

Considering the worst-possible case scenarios of extreme weather events.

Interdisciplinary studies of how extreme weather events affect society.

Decision-making under the threat of climate change.

Changes in extreme weather under climate change.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?

Knowledge of financial instruments for risk assessment.

Developing financial instruments for risk assessment.

Beneficiaries of financial instruments for disaster risk financing.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?

Quantifying threat of storms and risk to society through development of historical datasets of extreme weather events.

Understanding risk of climate change to extreme weather events.

Quantifying predictability of extreme weather events.

### REQUESTS FOR CONTACT AFTER THE EVENT

Does extreme weather affect you?

Do you need information about the risk of extreme weather and don’t know how to obtain data?

Let’s talk!
<table>
<thead>
<tr>
<th>WHAT DO YOU DO?</th>
<th>WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• A hydrologist and have research experience in hydrological modelling, uncertainty assessment, extreme value statistics, flood forecasting, and water quality modelling.</td>
<td>• Develop a novel method to estimate flood footprint, the economic impact directly and indirectly incurred to the flooded region and wider economic systems.</td>
</tr>
<tr>
<td>• My work has been funded by NERC, ICUK, ESRC, DEFRA, China 985 Programme, and China Huai River Basin Public Research Programme.</td>
<td>• Use the flood (or hazard-complex) accounting outcomes to inform investment priorities, identify risk mitigation responsibilities, and enhance business and public awareness of the total damage due to floods.</td>
</tr>
<tr>
<td>• My work also attracts funding from industries including EDF Energy Group and Aon’s Impact Forecasting LLC.</td>
<td>• To spread the cost amongst stakeholders in the demand and supply chain, based on the “who benefits, who pay” principle, and help reduce government’s financial burden for flood risk management.</td>
</tr>
<tr>
<td>• Lead the project to develop a pan-European flood model funded by Impact Forecasting LLC.</td>
<td></td>
</tr>
<tr>
<td>• Collaborate with environmental economists to develop a flood footprint model to assess direct and indirect losses of floods.</td>
<td></td>
</tr>
<tr>
<td>• Led the publication of the first full modelling cascade of an ensemble flood forecasting system in 2008.</td>
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</table>

<table>
<thead>
<tr>
<th>WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?</th>
<th>WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Calculation of losses for both direct and indirect damages to the flooded area and wider economic systems.</td>
<td>• Flood modelling and uncertainty assessment.</td>
</tr>
<tr>
<td>• Industries such as insurance or reinsurance companies and organisations who have access to database of losses.</td>
<td>• Previous work on floods research in developing countries.</td>
</tr>
<tr>
<td>• Flood footprint accounting model.</td>
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REQUESTS FOR CONTACT AFTER THE EVENT
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<tr>
<th>NAME</th>
<th>C. Patrick Doncaster</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:cpd@soton.ac.uk">cpd@soton.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>02380 594352</td>
</tr>
<tr>
<td>ORGANISATION</td>
<td>University of Southampton</td>
</tr>
<tr>
<td></td>
<td>Biological Sciences</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**
- Professor in Ecology.
- Research on:
  - cooperative behaviours;
  - public goods;
  - population dynamics.
- Collaborations with researchers in economics and social psychology.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- PARAMETRIC INSURANCE FOR QUANTIFYING COSTS OF CLIMATE-CHANGE ADAPTATION.
- INCENTIVISING CLIMATE-CHANGE MITIGATION.
- MITIGATION AS A NO-CLAIMS BONUS FOR PARAMETRIC INSURANCE.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- INTEREST FROM:
  - INSURANCE SECTOR,
  - BANKING SECTOR,
  - GOVERNMENT,
  IN POTENTIAL FOR CATASTROPHE INSURANCE TO LEVERAGE CLIMATE-CHANGE MITIGATION.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- MODELLING COOPERATIVE BEHAVIOUR.
- MODELLING RATIONAL / IRRATIONAL ECONOMIC BEHAVIOUR
- LABORATORY EXPERIMENTS ON DECISION-MAKING

REQUESTS FOR CONTACT AFTER THE EVENT
I MANAGE CEH’S ENGAGEMENT WITH THE WATER SECTOR, REPRESENTING OUR WORK IN DROUGHT AND FLOOD RISK.

MY BACKGROUND IS IN WETLAND HYDROLOGY, WORKING PARTICULARLY IN UNDERSTANDING HOW WETLANDS DELIVER ECOSYSTEM SERVICES INCLUDING FLOOD MITIGATION AND HABITAT PROVISION.

KEEN TO DEVELOP LINKS TO STAKEHOLDERS WITH AN INTEREST IN HYDROLOGICAL RISKS (FLOODS AND DROUGHT), INCLUDING THOSE OPERATING IN DATA-SPARSE REGIONS.

CEH HAS AN ESTABLISHED TRACK RECORD IN UNDERSTANDING EXTREME HYDROLOGICAL EVENTS.

WE DEVELOPED THE WIDELY USED FLOOD ESTIMATION HANDBOOK AND GRID TO GRID HYDROLOGICAL MODEL.

WE WORK AT A FINE SPATIAL RESOLUTION.

CEH IS COMBINING PROCESS AND STATISTICALLY-BASED TECHNIQUES FOR FLOOD ESTIMATION IN DATA SPARSE AREAS.

WE ARE DEVELOPING OPERATIONAL SYSTEMS FOR FLOOD FORECASTING (5 TO 7 DAY FORECAST).

REQUESTS FOR CONTACT AFTER THE EVENT
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<tr>
<th>NAME</th>
<th>Serge Guillas</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:s.guillas@ucl.ac.uk">s.guillas@ucl.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>0207 679 1867</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>University College London (UCL)</td>
</tr>
</tbody>
</table>

**Professor of Statistics**, with expertise in Uncertainty quantification of computer modelling simulations (e.g. climate, tsunamis)

- PI on 2017 NERC-ESRC-AHRC GCRF project on “tsunami risk for the western Indian ocean: steps toward the integration of science into policy and practice”
- PI on several NERC and EPSRC grants to build a tsunami catastrophe model for NW Pacific (now available on Oasis and ELEMENTS platforms)

**My interests and ideas**

- to help policy makers and insurers co-develop cat modelling capabilities for emerging markets
- improve the ability of (re)insurers to price risk more accurately in these regions where uncertainties are large
- to help decision makers act on planning issues, and reduce risk
- to integrate insurance into risk mitigation

**Looking for**

- expertise and interest in modelling insured risk for new markets: (re)-insurers who want expand in these markets and mitigate risks
- NGOs interested in employing catastrophe models for their characterization of the risk, e.g. new types of risks not yet quantified in cat models such as lives and livelihoods.

**What I can offer**

- expertise in developing cat modelling for tsunamis
- already established collaboration across UCL (Statistics, Earth Science, Planning), LSE (decision-making under severe uncertainty), and Indian partners (I.I.I. in policy-making, IISc in science)

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<th>NAME</th>
<th>Piran White</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:piran.white@york.ac.uk">piran.white@york.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+44 (0)1904 324062</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td><img src="image" alt="University of York Logo" /></td>
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**WHAT DO YOU DO?**

- Professor of Environmental Management at the University of York, UK (Environment Department)
- Director of NERC Biodiversity and Ecosystem Service Sustainability (BESS) programme

My research is focused on biodiversity, ecosystem services, health, wellbeing and livelihoods, and the interface between them. Geographically, I have worked on projects in the UK, Europe, Australia and New Zealand, and Latin America.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- With partners at ODI, I recently coordinated a workshop associated with the Global Platform for Disaster Risk Reduction, on building resilient solutions for disaster risk management, focusing on Mesoamerica and the Caribbean.
- I am currently leading two projects focusing on resilience and vulnerability in Colombian Caribbean coastal communities in relation to long-term stressors and short-term shock events.
- In another project, on emerging plant and animal diseases, I am working with colleagues at York to understand private decisions and their implications for public goods, as well as on risk sharing and public-private partnerships.
- I am interested in how financial resilience can be enhanced against a wider range of disasters including flooding, drought and emerging disease, how an understanding of socio-ecological interdependencies can inform the development of improved ‘triggers’ for payments, and how management to enhance the protective role of ecosystems could be recognised in financial instruments to build resilience.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- Individuals with expertise in insurance and catastrophe bonds.
- Insurance companies and risk management professionals interested in working collaboratively with researchers to develop equitable solutions.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- My core expertise is in ecosystem management but I work regularly with social scientists and humanities researchers, using both quantitative and qualitative approaches.
- I am representing a wider team of researchers at York across the Departments of Environment, Management, Politics and History, with combined expertise in public-private partnerships, development policy, public health, investment decisions and risk, and natural capital and ecosystem services.

**REQUESTS FOR CONTACT AFTER THE EVENT**

16
### WHAT DO YOU DO?

- **TAMSAT** have pioneered the use of satellite-based rainfall estimation over Africa since the 1980s, providing high resolution, daily *rainfall estimates* from 1983 to the delayed present for all Africa (example given opposite): [www.tamsat.org.uk](http://www.tamsat.org.uk)

- TAMSAT rainfall estimates are currently used by the financial sector through weather index-based insurance schemes across Africa, insuring 100,000’s of farmers.

- The **Financial Instruments Sector Team** at the **IRI** have played a crucial role in index insurance projects across the world, taking advantage of remote sensing products and ensuring the data are used appropriately: [http://iri.columbia.edu/our-expertise/financial-instruments/](http://iri.columbia.edu/our-expertise/financial-instruments/)

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?

- Both **TAMSAT** and **IRI** are interested in the application of remote sensing products and other data in **agricultural insurance** to build resilience to meteorological hazards, particularly drought.

- We are looking at ways in which we can use other streams of data, not just rainfall, to make insurance products more viable in the long-term.

- In particular, we are looking at ways to address **basis risk** – the mismatch between agricultural loss and the insured index.

- Our main focus area is Africa having worked in many countries across the continent.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?

- Effective application of index insurance is non-trivial and as such, we are seeking expertise or experience in the following areas:
  - social/behavioural science
  - design science
  - communication ideas

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?

- As leaders in our fields, **TAMSAT** and **IRI** can offer:
  - Knowledge in earth observation and remote sensing, particularly in satellite-based rainfall estimation and application to risk assessment.
  - Index-insurance expertise. TAMSAT and IRI are world leaders on the provision of index-based insurance using satellite rainfall estimates.
  - Participatory research expertise. IRI have carried out extensive participatory research in Africa on the role of index insurance in poverty alleviation.

### REQUESTS FOR CONTACT AFTER THE EVENT

For further information, contact Ross Maidment (r.i.maidment@reading.ac.uk)
<table>
<thead>
<tr>
<th>NAME</th>
<th>Dr Robby Soetanto</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:R.Soetanto@lboro.ac.uk">R.Soetanto@lboro.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+44 1509 228748</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**
- Researching flood resilience for 16 years, focusing on implementation approaches of measures for household and community
- Currently, PI for a Newton’s project on Blue-Green Infrastructure (BGI) for enhancing flood resilience in Semarang, Indonesia
- Previously, Lloyds TSB Research Fellow and Co-I in EPSRC’s Community Resilience to Extreme Weather (CREW) project

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Drivers and barriers influencing take-up of financial measures to flood resilience
- Optimum balance between risk reduction and risk transfer - To what extent that risk transfer can impede or encourage risk reduction?
- Public Private Partnership in risk reduction and transfer
- Governance and role of government

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- The ways financial instruments can build resilience
- Alternatives disaster/ flood risk financing
- Flood risk modelling
- Flood insurance in low and middle income countries
- Psychology of risk financing

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Reinstatement of flood damaged domestic properties
- Flood resilience measures for household and community adaptation and mitigation
- Natural flood management via Blue-Green Infrastructure (BGI)
- Local, government stakeholders in Indonesia

**REQUESTS FOR CONTACT AFTER THE EVENT**
I am open to any potential areas of collaboration and partner institutions/countries, where I can deliver benefit.
Paula Jarzabkowski  
P.Jarzabkowski@city.ac.uk  
+44 (0)7951 222114  
Cass Business School,  
City, University of London

### WHAT DO YOU DO?

**Professor of Strategic Management**  
**Associate Dean of Research and Enterprise**

### RESEARCH ON

- Global insurance and reinsurance industry  
- Interaction between governments and markets in addressing the protection gap  
- Complex, pluralistic problems with multiple competing stakeholders and objectives

### IMPACT

- Extensive industry reports, presentations, media, and industry engagement  
- ESRC Outstanding Impact on Business Award, 2013

### METHOD:

Large-scale qualitative research on global issues

### WHAT ARE YOUR INTERESTS / IDEAS?

**INSURANCE-BASED PRACTICES i.e.**

- The relation between insurance-based practices/disaster risk financing tools and a country’s disaster preparedness, risk management & risk mitigation  
- Uses of loss payments post-disaster and their effects in coordinating wider management of aid and resources

**MANAGING COMPLEX INTERDEPENDENCIES i.e.**

- Incorporating sovereign cultural differences within a risk pool  
- Managing market and non-market objectives and stakeholders within a common insurance mechanism

**STRATEGIC USE OF MODELS & DATA i.e.**

- Open access vs IP  
- Streamlining models, avoiding proliferation  
- ‘Competition’ between/over models

### SKILLS, KNOWLEDGE YOU ARE LOOKING FOR

**NATURAL SCIENCES KNOWLEDGE**  
(e.g. Climate, meteorology, seismology, etc.)

- Technical aspects of risk mitigation and resilience  
- Risk/environmental model development, model ecologies, and model integration

**QUANTITATIVE/ DATA METHODS**

- Quantitative data management, collecting data in low information contexts, integrating databases

**POLICY-MAKING, AID, POLITICAL ECONOMY**

- Policy-makers and practitioners working in aid and donor organizations  
- Knowledge of political economy in ODA country contexts

### SKILLS, KNOWLEDGE YOU CAN OFFER

**DEEP KNOWLEDGE OF**

- Disaster risk financing products (e.g. Cat Bonds) and risk transfer processes  
- Insurance, reinsurance and capital markets  
- Relevant parties in industry, risk pools, and inter-governmental organizations  
- Strategic decision-making expertise on complex problems, and implementing complex policies across organizations and industries

**SKILLS IN**

- Large-scale, multi-site, multi-stakeholder team-based qualitative methods including interview, observation, and documentary analysis  
- Impact and engaging widely with practitioner and policy audiences

### REQUESTS FOR CONTACT AFTER THE EVENT
**WHAT I DO:**
- I am an environmental and behavioural economist in the Department of Economics
- My research uses experiments to test the impact of behavioural, educational and social-influence mechanisms on behaviour
- I examine collective action around common pool resources & public goods using experimental games
- I head the Sustainable Development Research Cluster at Middlesex University

**INTERESTS / IDEAS IN THIS AREA?**
- Use of experimental games to engage potential users in the design of successful financial instruments
- The impact of leadership & trust on uptake of financial instruments
- Group versus individual schemes, & interactions with preferences for savings versus insurance
- The influence of social information (peer effects) on uptake
- Testing the influence of different informational mechanisms on uptake

**WHAT SKILLS, KNOWLEDGE OR APPROACHES AM I LOOKING FOR?**
- Climate scientists, NGOs & policy-makers that are developing &/or scaling-up financial instruments
- Research groups seeking social science & economics input to engage farmers and other users in the design of financial instruments

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN I OFFER?**
- Expertise in the design, development & implementation of experimental games in the field
- Economic valuation of ecosystem services and novel technologies
- Randomized evaluations of novel educational tools
- Knowledge of behavioural interventions that may impact uptake of instruments

**REQUESTS FOR CONTACT AFTER THE EVENT**
<table>
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<tr>
<th>NAME</th>
<th>Dolores Rey</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:d.reylvicario@cranfield.ac.uk">d.reylvicario@cranfield.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+44(0) 1234 758309</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td><img src="image" alt="Cranfield University Logo" /></td>
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</tbody>
</table>

**WHAT DO YOU DO?**
- Lecturer in Water Policy and Economics
- 8+ years of research experience in water availability risks for agriculture
- Current research: UK Drought and Water Scarcity Programme (my work focuses on agriculture)
- Research interests: water economics, water related risk, climate change, water trading, crop insurance

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Financial instruments for water related risks in agriculture
- Drought index insurance
- Financial instruments design
- How much financial instruments contribute to resilience in comparison with other management options?
- Factors affecting people’s decisions on contracting a financial instrument

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Insurance industry knowledge
- Experience in developing countries
- Crop modelling
- Remote sensing
- Big data

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Knowledge of water related risks for agriculture
- Crop insurance
- Economics
- Water derivatives

**REQUESTS FOR CONTACT AFTER THE EVENT**
<table>
<thead>
<tr>
<th>NAME</th>
<th>Olalekan Adekola</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:lekan.adekola@uwe.ac.uk">lekan.adekola@uwe.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>01173287578/07578526751</td>
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<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>University of the West of England, Bristol</td>
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</table>

**WHAT DO YOU DO?**

I conduct research on topics that explore interdisciplinary approaches, within and across the various social sciences, and between the social, natural and applied sciences to understand and solve environmental challenges.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

How to harness financial innovation to strengthen Disaster resilience.

What are the contextual challenges in developed and developing countries on how to build resilience through financial incentives?

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

Skills and knowledge to fully understand the implications of any proposed policies and their interactions with existing policies and customs.

Innovative models/best practice in the design and use of financial incentives.

Industry (e.g. insurance companies) perspective on their involvement and approaches to disaster risk management.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Research skills
Stakeholder engagement
Institutional analysis
Ability to analyse lots of information from different sources
Economic valuation

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<th>NAME</th>
<th>Bernard Manyena</th>
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<td>EMAIL</td>
<td><a href="mailto:bernard.manyena@northumbria.ac.uk">bernard.manyena@northumbria.ac.uk</a></td>
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<tr>
<td>TELEPHONE</td>
<td>01912273811</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>Northumbria University at Newcastle</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**

SENIOR LECTURER – HUMAN GEOGRAPHY

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

DISASTER RESILIENCE

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

PARAMETRIC /INDEX-BASED INSURANCE FOR DROUGHT IN AFRICA; AFRICAN RISK CAPACITY’S (ARC) AFRICA RISK VIEW MODELLING AND ITS ROLE IN EARLY WARNING AND CONTINGENCY PLANNING; RISK RETENTION BY COUNTRIES AND POTENTIAL ROLE OF REGIONAL BODIES

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

RESILIENCE THEORY AND APPROACHES; DISASTER GOVERNANCE, RISK ASSESSMENTS AND EARLY WARNING SYSTEMS, CONTINGENCY PLANNING FOCUSING ON EASTERN AND SOUTHERN AFRICA

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<th>NAME</th>
<th>CANDICE HOWARTH</th>
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<td>EMAIL</td>
<td><a href="mailto:Candice.howarth@surrey.ac.uk">Candice.howarth@surrey.ac.uk</a></td>
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<tr>
<td>TELEPHONE</td>
<td>+44(0) 1483 689371</td>
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<td>ORGANISTATION &amp; LOGO</td>
<td>![University of Surrey Logo]</td>
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<tr>
<td></td>
<td><strong>Senior Lecturer in Sustainability &amp; Climate Change Communication</strong></td>
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<td></td>
<td><strong>ESRC Nexus Network fellow exploring decision making in context of nexus shocks</strong></td>
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<td></td>
<td><strong>UCL Policy Commission on Communicating Climate Science</strong></td>
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<td></td>
<td><strong>BSA Climate Change Study Group</strong></td>
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<td></td>
<td><strong>Associate of CECAN (Centre for Evaluation of Complexity Across the Nexus)</strong></td>
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<tr>
<td></td>
<td><strong>Role of scientific knowledge in informing responses to disasters</strong></td>
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<td><strong>Role/limitations of financial instruments</strong></td>
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<td><strong>Role of social sciences in informing responses to disasters</strong></td>
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<td><strong>Impact of climate change</strong></td>
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<td></td>
<td><strong>Innovative approaches to developing, implementing and testing financial instruments relevant to local context</strong></td>
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<td><strong>Risk assessment and pricing mechanisms for effective responses to disasters</strong></td>
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<td><strong>Quantitative and modelling approaches</strong></td>
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<td></td>
<td><strong>Skills:</strong> semi-structured interviews, focus groups, workshops, surveys, cross-stakeholder engagement**</td>
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<td><strong>Knowledge:</strong> Nexus shocks, climate change, science-policy interface, climate communication, practitioners, co-production, local, decision making**</td>
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<td><strong>Expertise:</strong> Policy (DECC secondment), Co-production, communication of complex science to different audiences**</td>
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</table>

**REQUESTS FOR CONTACT AFTER THE EVENT**
**NAME** | Carl Adams  
---|---  
**EMAIL** | Carl.adams@port.ac.uk  
**TELEPHONE** | 02392 846447  
**ORGANISATION & LOGO** | University of Portsmouth  

**WHAT DO YOU DO?**
The application and impact of technology:-  
- Alternative and community funding & money; bottom-up approaches to support systems; e-money (see for instance “Adams C & Mouatt S (2010) Corporate and social transformation of money and banking. Palgrave Macmillan”)  

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Developing robust theoretical foundations for interventions (see Adams C. and Hallsworth A. (2015) Virtual Non-productive value (NoPV) creation and Store of Value (SoV) as causes of economic instability. Fourth Global Conference on Economic Geography, Oxford University)  
- Innovation in financial & capability support

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Robust alternative investment evaluation mechanisms  
- Approaches that complement the Capability Approach  
- Commercial insurance / finance knowledge (large and/or small scale)  
- Knowledge of communities facing disaster risk  
- Mechanisms to blend bottom-up and top-down investments

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Bottom-up support, crowdfunding / resourcing, community funding, innovation  
- Sen’s Capability Approach  
- Long-term analysis capturing multiple stakeholders’ perspective (TSEA approach)  
- SurveyPRISM risk and investment evaluation approach  
- Existing networks, through SEES at UoP, with communities facing disaster risks (Dominica, Sri Lanka; & refugees in Jordan)

**REQUESTS FOR CONTACT AFTER THE EVENT**
Would welcome collaboration with  
- Micro-finance organisation  
- Insurance / finance organisation  
- Other networks with access to communities facing disaster risk  
- Other researchers in the area
<table>
<thead>
<tr>
<th>NAME</th>
<th>Dr Wendy Chapple</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:Wendy.chapple@nottingham.ac.uk">Wendy.chapple@nottingham.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+44(0)115 9515278</td>
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**WHAT DO YOU DO?**

I am an Associate Professor in Industrial Economics and Deputy Director of the International Centre for Corporate Social Responsibility.

**KEY RESEARCH AREAS:**
- The influence of institutions and systems of governance on sustainability.
- Corporate social performance and impact measurement.
- Socially responsible investment.
- Role of multinationals in developing countries.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- How can financial instruments lead to co-governance processes (multi-actor governance) in building disaster resilience in developing countries?
- How can financial instruments enable/reinforce agile and integrated risk management systems for disaster relief?
- What institutional/governance configurations need to be in place for financial instruments to be effective?

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- Instrument specialists: particularly how instruments can be bundled.
- Practitioner organisations who work at local regional and national levels in disaster resilience building and/or funding.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- Multi-level governance analysis
- Developing country expertise
- Qualitative and quantitative modelling and analysis
- Understanding complementarity and conflicts in systems

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<th>NAME</th>
<th>DR. KOMAL RAJ ARYAL</th>
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<td>EMAIL</td>
<td><a href="mailto:komal.aryal@ncl.ac.uk">komal.aryal@ncl.ac.uk</a> <a href="mailto:ggadrr@gmail.com">ggadrr@gmail.com</a></td>
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**WHAT DO YOU DO?**
- Participatory action based research and programme development for national and local disaster risk management, humanitarian response coordination and community based programmes.
- Gather and analyse “Earth Observation (EO) imagery based geological and socioeconomic risks intelligence” to improve disaster risk governance under the supervision of Prof. Zhenhong Li.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Disaster Risk Management and Humanitarian Financing with Earth Observation
- Local Hazard and Risk Zoning
- Participatory integrated vulnerability and capacity analysis.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- I am interested to meet people who are interested to apply earth observation (EO) based geophysical and social intelligence application for sustainable risk financing programmes.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Imaging Geodesy Team (IGT) at Newcastle University can offer earth observation (EO) based geophysical and social intelligence application for sustainable risk financing programmes.

**REQUESTS FOR CONTACT AFTER THE EVENT**
If you are interested in satellite geodesy and its applications to risk financing for building resilience communities please feel free to write to us.
Prof. Zhenhong Li (zhenhong.li@ncl.ac.uk)
Dr. Komal Raj Aryal (komal.aryal@ncl.ac.uk) or ggadrr@gmail.com

Thank You!
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<tr>
<th>NAME</th>
<th>Katarzyna Werner</th>
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<td>EMAIL</td>
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<td>TELEPHONE</td>
<td>0161 247 3881</td>
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<td>ORGANISATION &amp; LOGO</td>
<td>Manchester Metropolitan University</td>
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**WHAT DO YOU DO?**

I am a Senior Lecturer in Economics, with research interests in Environmental Economics, Industrial Organisation, Decision Theory and more broadly Behavioural Economics.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- Comparative statics concerning the comparison of policy instruments for reduced pollution
- Applications of non-EU models of individual decision making under risk and uncertainty to insurance markets with adverse selection and moral hazard
- Providing solutions to environmental problems in developing Latin-American countries

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- Qualitative and quantitative approaches to assess the effectiveness of insurance/loans
- Ways of assessing affordability and commercial viability of relevant insurance products

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- Behavioural literature on insurance take-up
- Data on insurance take-up in Ecuador and Peru/ knowledge of Latin-American countries
- Links with the universities via post-doc position

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<th>NAME</th>
<th>Dr. Angela Vodden</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:info@avac-ltd.co.uk">info@avac-ltd.co.uk</a></td>
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<td>+447427404586</td>
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AVAC LTD IN COLLABORATION WITH THE UNIVERSITY OF CENTRAL LANCASHIRE

I am the Solicitor, Director of AVAC Ltd, a niche law firm that focuses upon providing procurement solutions and commercial contract advice for governments pursuing major developments and regeneration projects through Public Private Partnerships (PPP). This has involved working collaboratively with the University of Central Lancashire amongst others in relation to research projects in the field of Public Private Partnerships (PPP) and Private Finance Initiatives (PFI).

The impact of Natural Catastrophes is wide reaching. Global climate change is increasing occurrences of Natural Catastrophes on a world-wide basis.

Public Private Partnerships (PPPs), in its many guises, can assist in responding to Natural Catastrophes, when government financial resources are strained.

Insurance companies in Western cultures (e.g. Swiss Re – Switzerland, Flood Re - England) have started to step up to the challenge of dealing with some elements of this problem in order to encourage governments to engineer and implement preventative infrastructure solutions safeguarding vulnerable communities.

But many other stakeholders such as construction, engineering, legal and finance industries are behind in developing effective strategies to find solutions to this significant problem.

The AVAC/UCLAN collaboration in this project is looking to research how developing countries including Sri Lanka and Bangladesh, who have suffered from Tsunami and Flooding crises on more than one occasion can be helped to provide viable and effective solutions to safeguard their communities sustainably and on a long-term basis. By enabling academic and professional exchanges of knowledge and infrastructure strategies and designs from countries who have already taken steps to overcome such challenges and who have been able to implement preventative measures to reduce the socio-economic, environmental and personal horrors and devastation that such natural catastrophes leave in their wake.

AVAC has a wealth of experience in dealing with the procurement of a myriad of £ billion construction and sustainable energy redevelopment and regeneration projects. This includes the sourcing and establishment of appropriate PPP’s in their many forms with different contractors and consortia to address innovative regeneration developments with.

Working with UCLAN collaboratively AVAC has undertaken various research projects relating to PPP infrastructure.

REQUESTS FOR CONTACT HAVE BEEN MADE FROM
HUW EVANS – DIRECTOR GENERAL ASSOCIATION OF BRITISH INSURERS AND NON EXECUTIVE DIRECTOR FLOOD RE; CIOB – POLICY TEAM; DELOITTES FINANCIAL ADVISORS (UK) - RESEARCH; UNIVERSITY OF ESSEX; GLOBAL DISASTER RESILIENCE CENTRE – HUDDERSFIELD; AMCO- ENGINEERING LTD
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<th>Konstantinos Vergos</th>
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**WHAT DO YOU DO?**

Senior Lecturer in Finance, University of Portsmouth

I represent a team of academics
(our team includes Professor Ishizaka and Dr. Chakar from Operating Research of University of Portsmouth)

with knowledge and research experience in the area of
- Derivatives and Asset Pricing,
- Credit Risk,
- Multicriteria Analysis, Decision Support Systems and
- Spatial Modelling and Analysis
that plan to involve, collaborate and facilitate development of partnerships in disaster risk financing.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- Common research on behalf of University of Portsmouth (it is eligible for RCUK funding). We are also eligible to act as PIs.
- A combination of top-down and bottom-up approach that probably involves
- Risk measurement at a country-, regional- and company-level. This may require a combination of GARCH, MS-VAR methods and geographical data
- Decision making methods to decide among alternative solutions (prevention or/and insurance) based on specific criteria (e.g., Life, human capital, financial capital) could be employed.
- Different solutions, depending on the area may be chosen.
- Financial products based on the risk to be covered (it may include Cross hedging) could be employed in problem solution.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

Interested in partnership with practitioners and/or companies that would like to act as project partners on successful projects in the area of disaster risk.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- Risk measurement/Decision making/Financial product designing.
  Background:
  - Dr. Vergos: PhD in Finance (Bangor, Wales) in derivatives & asset pricing. MA in Banking and Finance (Bangor, Wales). Director of Analysis & Corporate Depts in brokerage and banking for more than 14 yrs. Research: Asset pricing, Credit Risk, ESG. Funded, for projects regarding CDS
  - Pr. Ishizaka: PhD in Inf. Systems (Basel). Dep. Director, Centre for OR and Logistics -long-standing experience in project bidding in multicriteria analysis.
  - Dr. Chakar: PhD in Computer Science (Paris-Dauphine, France). Worked at Centre for Research in Reg. Planning and Development, University Laval, Canada. 11 yrs projects geogr.data & multicriteria decision methods.

**REQUESTS FOR CONTACT AFTER THE EVENT**
NAME | Martin C. Steinwand  
---|---  
EMAIL | martin.steinwand@essex.ac.uk  
TELEPHONE | 07828 827722  
ORGANISATION & LOGO | ![University of Essex Logo](image)  

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<th>WHAT DO YOU DO?</th>
<th>WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?</th>
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| ● Increasing disaster resilience requires sustained **local collective action**.  
● Researchers have mainly studied individuals.  
● Incentives for **communities** to spend on increased resilience is poorly understood.  

⇒ Find robust causal evidence how innovative financing mechanisms affect communities’ incentives to build resilience. | ● Randomize rollout of innovative finance mechanisms.  
● Measure resilience indicators before, during and after implementation.  
● Account for institutional diversity across treatment areas. |

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| ● Partners with experience in designing financial mechanisms for low income countries.  
● Partners who want to test group-level financial instruments to promote proactive investments in resilience. | ● Design and implementation of impact evaluations.  
● Field operations and contacts in Malawi, Mozambique, South Africa, Zambia, Uganda, and Rwanda.  
● Expertise on disaster preparedness, resilience, and fitting development interventions to local contexts. |
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<tr>
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<td>Overseas Development Institute</td>
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**WHAT DO YOU DO?**
- Multidisciplinary research on financing for resilience and adaptation (e.g. on financing disaster risk reduction, risk transfer, the role of ODA and climate finance in national economic resilience, etc.)
- Facilitating knowledge exchange on risk and resilience
- Research and advisory on decentralised climate finance

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Comprehensive approaches to disaster risk financing & supporting integration of disaster risk reduction and climate change adaptation efforts for greater resilience
- Decision support tools
- Innovative financial mechanisms (e.g. FbF)
- Implications of basis risk in parametric insurance and approaches to addressing this
- Streamlining resilience financing in international frameworks
- Cross-scalar synergies of resilience financing approaches

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Practitioner insight in meso level disaster risk insurance approaches
- Practitioner experience and/or interest to engage with innovative mechanisms to tackling basis risk and understanding this in the context of longer term climate change scenarios

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Broad expertise in economic, social science and geographic research methodologies
- Longstanding experience in facilitating stakeholder engagement and knowledge exchange at regional, national and sub-national level
- Innovative research approaches and methods
- Geographic expertise in West Africa, East Africa and SIDS

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<th>Lucy O'Shea</th>
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<td>TELEPHONE</td>
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**WHAT DO YOU DO?**
Senior Lecturer in Economics

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Financial instruments in a developing country context
- Modelling resilience within an economic framework
- Making strong links between theory & implementation
- Integrating environment and development

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Practical examples of financial instruments to manage risk
- Understanding better, the alternatives to standard insurance mechanisms within developing country contexts
- Financial instruments – purely monetary or also in-kind?

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Economic (households & firms) approach to maximising welfare & the trade-offs involved
- Understanding of economic-ecology links
- The role and evaluation of policy

**REQUESTS FOR CONTACT AFTER THE EVENT**
ECSLCMO@BATH.AC.UK
### NAME
Prof. Christine Oughton

### EMAIL
co12@soas.ac.uk

### TELEPHONE
020 78984410
07710 355978

### ORGANISATION & LOGO
School of Finance and Management, SOAS
University of London

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### WHAT DO YOU DO?
- Professor of Management Economics doing research on finance, environmental economics/management and innovation, including FinTech.
- I enjoy working in interdisciplinary teams comprising social scientists, scientists, policy makers and practitioners.
- I was co-investigator on the ESRC Seminar Series, Complexity Economics for Sustainability.
- Currently working in the area of finance with Professors Harris, Lensink, Murinde and Soumare, exploring how new financial instruments can be used to improve inclusion, innovation diffusion, and resilience, including environmental resilience.
- Member of a joint ESRC-National Natural Science Foundation of China project with work streams on: inclusive finance and insurance; and green finance.

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- The diffusion of innovations that build environmental resilience and reduce risk of damage.
- The design of financial instruments to mitigate risk and limit damage and disruption caused by environmental disasters.
- FinTech and use of big data, both micro and macro.
- Complex systems theory and simulations to design financial instruments and policy.
- Building policies and financial instruments tailored to the needs of local communities by engaging with local actors, practitioners and policy makers in those communities.
- My areas of interest include Africa and China.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- Environmental scientists with understanding of environmental risks and disasters from natural science perspective.
- Practitioners working in the fields of environmental risks, insurance and disaster management.
- Policy makers from national, regional and local government and from NGOs.
- Practitioners/policy makers from a wide range of organisations that work and engage with, or represent, local organisations e.g. small businesses, housing associations, local residents etc.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- Good understanding of design of private, public, NGO and hybrid insurance schemes.
- Up to speed with recent financial innovations (FinTech) and use of big data.
- Experienced in the construction of indices, correlation, risk etc.
- Research and policy experience on regional innovation systems, including the engagement of local actors in the design and implementation of policies.
- Understanding of agent based modelling, complex systems theory and use of simulations for policy design.

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### REQUESTS FOR CONTACT AFTER THE EVENT

My contact details are:

Professor Christine Oughton
School of Finance and Management
SOAS, University of London
Thornhaugh Street, Russell Square
London WC1H 0XG
Tel: 020 7898 4410 (Office); 07710 355978 (Mobile). As I am currently on sabbatical it is best to use my mobile number or email.
Email: co12@soas.ac.uk
WHAT DO YOU DO?

- I am AXA Professor of Global Finance, in the School of Finance and Management at SOAS University of London.
- The research programme of my Chair, endowed by AXA, involves not only researching catastrophic risk finance but also building networks with government departments, NGOs, and international insurers.
- The research programme involves colleagues in School of Finance & Management at SOAS University of London (e.g. Professors Laurence Harris and Gerhard Kling)
- I work with a global network of multi-disciplinary teams, using mixed methods: e.g. Professor Robert Lensink at the University of Groningen, The Netherlands: conducting randomised controlled trials (RCT) for informing new financial products for weather risk insurance.

WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?

- Modelling mega trends in global finance that shape developments in disaster risk financing
- Conducting randomised controlled trials (RCT) for informing new financial products for weather risk insurance.
- Insurance cycles and catastrophic risk (Prof Issouf Soumare, Department of Finance, Insurance and Real Estate, Laval University)
- Modelling uncertainty in flow-of-funds, with stochastic simulations to explore policy options (see also Christine Oughton)

WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?

- Further networks with practitioners and policy makers
- Multidisciplinary skills: including law, political economy and sociological aspects of disaster risk
- Environmental economists working on low carbon technological innovations to reduce global warming (see also Christine Oughton)
- Conducting randomised controlled trials (RCT) for informing new financial products for weather risk insurance
- Skills and knowledge of undertaking large scale surveys of households and firms in disaster-prone regions

WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?

- Knowledge (theory and empirics) of risk financing tools (see above)
- Practice of risk financing tools (e.g. from my recent role in development banking), in particular, long-term financing for disaster preparedness
- Regional focus on Africa

REQUESTS FOR CONTACT AFTER THE EVENT

- CONTACT DETAILS FOR POTENTIAL COLLABORATORS AND STAKEHOLDERS:
  Professor Victor Murinde, PhD
  AXA Professor in Global Finance
  School of Finance & Management, SOAS University of London
  Thornhaugh Street, Russell Square, London WC1H 0XG
  Tel: +44 (0)20-7898-4057 (direct) | +44 (0)7764606232 (mobile)
  E-mail: V.Murinde@soas.ac.uk | Twitter: @VictorMurinde
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<tr>
<th>NAME</th>
<th>Rozana Himaz</th>
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**WHAT DO YOU DO?**

I am an applied economist with 20 years of expertise in the following areas:

- **Program impact evaluation** using non-experimental data
- Field-level evaluation of **micro-finance** projects
- Poverty and **welfare measurement/analysis** especially child and adolescent
- **Within household resource allocation**

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- Can issues particular to **child and adolescent welfare** be incorporated into the measurement of actual loss/damage and selection of triggers?
- Should payouts be sensitive to **within household biases** in resource allocation?
- Limitations of particular indices for particular contexts: how much does the **local political economy** matter?
- Open to other ideas/discussions

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- Open to any collaboration that complements/enhances my skill set and has a real impact on changing outcomes positively
- Looking at not just ‘conventional’ natural disasters such as earthquakes but **unconventional** (and more recent) **disasters** such as garbage landslides and environmental disasters following dam building.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- **Statistical** and econometric skills required for **index building**, program **impact evaluation**, instrument **development**
- **Field level knowledge** about the local political economies of countries such as Sri Lanka, parts of India.
- Expertise in working on social issues in Africa (Ethiopia), India, Vietnam and Sri Lanka

**REQUESTS FOR CONTACT AFTER THE EVENT**

Please contact me on rhimaz@brookes.ac.uk. A brief biography can be found in [http://business.brookes.ac.uk/about/staff/profile.asp?id=p0077322](http://business.brookes.ac.uk/about/staff/profile.asp?id=p0077322)
Building Resilience to Natural Disasters Using Financial Instruments

Dr. Meng Tong
Email: mengtong0822@gmail.com
Tel: 07341 703477

Introduction

- A multidisciplinary approach to the study of natural disasters in many developed and developing countries, with an emphasis on post-disaster management, firm response, resilience building and future disaster planning
- Apply scientific models and methods to detect local damage and fiscal losses
- Examine the economic impact of natural disasters in various countries on output, productivity and performance of firms
- Using detailed geo-localized data on firms and households, understand and address what strategies and channels they choose and adopt for recovery
- A greater understanding of the dynamics of economic resilience to natural disasters

Motivation

- Discuss the damage created by extreme weather events such as typhoons, floods and earthquakes
- Investigate and measure the short-term and long-term disaster losses
- Discuss how pre-disaster planning and post-disaster aid from financial institutions (for instances, banks, insurance companies) can help firms recover
- Design a financial mechanism to quantify the potential environmental and geo-hazard risk that policymakers may face post-disaster
- Further explore the mechanisms by which different sources of aid (direct/indirect) affect firm behaviour and link this with labour market outcomes

Expertise and Experience

- A unique combination of natural scientists and social scientists from Universities in the UK, France and Switzerland
- Experience in grant applications and excellent natural disasters data that will allow us to work on a large number of different research questions
- Widely published in the science and social science of natural disasters including publishing papers in some of the top journals in earthquake science and the economics of natural disasters
- Comprehensive experience of working on developing countries and have published widely on topics relative to developing countries (e.g. China, Philippines, Thailand, Vietnam and so on)
- A close working relationship with other world-leading universities and institutions

Expected Skills

- Familiar with a variety of risk models
- ArcGis and data management skills
- Advanced econometric techniques
- Knowledge of every step of the recovery operation chain in developing countries, from resource mobilisation to execution
- A record of research in risk management, risk measurement and quantitative finance and economics

Potential Team Members

- Prof. Eric Strobl (University of Bern)
- Prof. Robert JR Elliott (University of Birmingham)
- Prof. Matthew Cole (University of Birmingham)
- Prof. David Maddison (University of Birmingham)
- Dr. Meng Tong (University of Birmingham)
- Dr. Yi Liu (University of Birmingham)
- Prof. Andreas Heinen (University Cergy-Pontoise)
- Dr. Preeya Mohan (University of West Indies)
- Thomas Tviet (University Cergy-Pontoise)
NAME | Alistair Milne
---|---
EMAIL | a.k.l.milne@lboro.ac.uk
TELEPHONE | 07941 627451
ORGANISATION & LOGO | Loughborough University

**WHAT DO YOU DO?**
My lifelong research interests are macroeconomics, money, the financial sector and information technology in financial services from a policy perspective. I have published research on financial regulation, systemic financial risk; sovereign debt; bank capital management and regulation; the impact of bank balance sheets on monetary transmission; development finance and on financial infrastructure and technology. I am the author of a comprehensive account of the global credit crisis. I engage extensively with central banks, regulators and private sector firms on both economic policy and business strategy.

**WHAT ARE YOUR INTERESTS / IDEAS?**
From my extensive experience of analysing financial sector and fiscal policy issues I observe a lack of clarity in official thinking e.g. around the newly announced London Centre Centre for Global Disaster Protection. We need to identify when private sector instruments can improve on public sector outcomes. The crucial issue is failure of fiscal governance both within donor countries aid programmes or developing countries. Private sector instruments are not magic. They are relatively costly but can improve outcomes by imposing financial disciplines that are otherwise absent.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES DO YOU OFFER?**
I bring provocative independent thinking … I hope this is welcome.

I envisage us addressing the call (improved assessments of disaster risk; widening range of hazards; identifying triggers for response) through targeted case studies, working with one or two partner countries and focusing on specific threats (e.g. flooding, seismic, volcanic).

I see us also develop accompanying ‘cost-benefit’ assessment of moving from status quo (financing from general government budgets) to various alternatives (using private sector disciplines in government financial decisions; using government sponsored financial instruments, or turning to external private sector insurance). When are adoptions of these financial instruments helpful?

One further context (where we have in house expertise) is organisational resilience, focusing perhaps on financial aspects of organisational continuity and response using financial instruments.

**WHAT ARE YOU LOOKING FOR?**
We can run a smaller project largely by ourselves, exploiting our sectoral expertise and good links with particular low/ middle income countries.

A larger project will strengthened working with partners to covers areas where we are not so strong (e.g. drought, food security) and further links with other low/ middle income countries. We have yet to identify practitioner partners (in addition to countries we will work with).

I also hope to find recognition of my (personal) view, that the research requested in this call (improved assessments of disaster risk; widening range of hazards; identifying triggers for response) will only change future outcomes if it is developed clearly within the broader context of fiscal governance. Technical work without the broader calculus of fiscal decision-making will go nowhere.
“Building resilience to natural disasters using financial instruments” networking event

Hanna Ruszczyk
Julian Williams
Dennis Philip

h.a.ruszczyk@durham.ac.uk
julian.williams@durham.ac.uk
dennis.philip@durham.ac.uk

IHRR – focuses on natural hazards, risk and resilience. It is a collaboration between Geography, DUBS, Engineering, Maths, Applied Social Sciences, English Studies, Earth Sciences, indeed, all depts in the university, see: https://www.dur.ac.uk/ihrr/.

DUBS – focuses on quantitative methods, financial technology, business risks, economic and financial literacy and financial inclusion. Financial innovation and microfinancing. We have on-going geo-hazard and financial management projects.

WE ARE LOOKING FOR:
User cases and perhaps more specific in country user cases with a broader remit.

We have current links with:
NEPAL, INDIA, BANGLADESH, SOUTH AMERICAN, KENYA, GHANA, TANZANIA, ZIMBABWE AND LAND AUTHORITIES IN SEVERAL OTHER AFRICAN COUNTRIES.

REQUESTS FOR CONTACTS:
Financial and Technological Firms, Practitioners, Co-Investigators

IHRR OFFERS a wealth of coordination experience for in country research, across a broad canvass of project areas. Currently interested in geo hazards, water security and flood risk.

DUBS OFFERS collaboration with Indian financial regulators interested in mitigating agri-risks, and with Land and Natural Resource Authorities across Africa.

IHRR KEY AREAS OF INTEREST:
• Geo hazards (earthquakes and landslides)
• Water and flood risk
• Urban hazards
• Migration

DUBS KEY AREAS OF INTEREST:
• Financial technology
• Insurance and actuarial analysis
• Economics of disaster risk mgmt
• Economics of insurance
• Financial modelling
• Applied choice modelling
• Financial inclusion and literacy
• Financial fragility
**NAME**  |  Tristano Sainati  
**EMAIL**  |  t.sainati@leeds.ac.uk  
**TELEPHONE**  |  07946040849  

**ORGANISATION**  
UNIVERSITY OF LEEDS  

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**OUR INTERESTS**  
Effective partnerships with organisations having complementary interests and capabilities.

**OUR IDEAS**  
- Modelling risks from natural disasters, particularly concerning: flooding, public health, environmental quality, resiliency of water and sanitation infrastructures.
- Co-design financial instruments to cope with natural disaster: we can provide legal and financial interface.
- Sustainability of water and sanitation service delivery.

**WHAT WE CAN OFFER**  
**Capabilities:** Water modelling, feasibility studies in infrastructure delivery and services.  
**Data:** we have access to a large database concerning water and sanitation infrastructure.  
**Network:** connections with international development organisations (WHO, UNESCO, World Bank) and local government/communities in developing countries (Sub-Saharan Africa, South and South-East Asia, Latin America)

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**WHAT ARE WE LOOKING FOR?**  
- **Advance financial expertise:** e.g. insurance policies, financial derivatives,  
- **Advanced Legal expertise:** contracts, multinational jurisdictions, etc.

**CONTACTS:**  
Professor Barbara Evans (B.E.Evans@leeds.ac.uk), Dr Andrew Sleigh (P.A.Sleigh@leeds.ac.uk), Dr Miller Alonso Camargo-Valero (M.A.Camargo-Valero@leeds.ac.uk), Dr Giorgio Locatelli (G.Locatelli@leeds.ac.uk).

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**Staff:** Prof Barbara Evans, Dr Miller Alonso Camargo-Valero, Dr Andrew Sleigh, Dr Giorgio Locatelli, Dr Louise Fletcher, Dr Dani Barington.

**What do we do?**  
Our research activities centre on:  
- Sanitation, hygiene and water services in the global south  
- Costing and financing of water and sanitation infrastructure and service delivery  
- Sustainability and equity in community-wide approaches  
- Social and environmental impacts from water and sanitation service delivery  
- Flooding risk modelling

**Current research projects:** C-CUS (Bill and Melinda Gates Foundation), HyCristal (NERC, DFID), HARVEST (NERC).

---

**iPHEE**  
Institute for Public Health and Environmental Engineering
DEVELOPMENT OF RESILIENT CITIES THROUGH WIDESPREAD USE OF STRUCTURAL HEALTH MONITORING SYSTEMS AND BIG DATA

Andres Alonso-Rodriguez Ph.D.
Research Fellow, Shaking Tunnel Vision Initiative

**AIM:** To allow for shock survival and continuous improvement of cities by analysing data from real-time intelligent monitoring of critical infrastructure

**Team:** Dr. Raul Fuentes, Associate professor, Dr. Nikolaos Nikitas, Lecturer, and Dr. Andres Alonso-Rodriguez

**Bio:** *PhD in Earthquake Engineering and Engineering seismology from ROSE/SCHOOL IUSS. Chartered Civil Engineer in Colombia and Chile; worked as consultant as bridge and structural engineer. *Director of models in the Business Intelligence division of a Colombian insurance company with a revenue of $200M.*

**Shaking Tunnel Vision in Pictures**

- Earthquake induced damage in Tunnels
- Test Cases in Chile, Project sponsored by the Newton Fund
- International research PPP with worldwide reach

**Going further**
- Remote sensing for detailed design of infrastructure
- Structural and ambient real-time monitoring during construction and operation
- Assessment of observed response with simplified models
- Integration with large exposure databases

**Solutions for Diverse Stakeholders**

- Worldwide Bond Market: Improved vulnerability models to assess losses in large portfolios.
- Support for Infrastructure financing: better reserve requirement metrics, beyond AAL
- More reliable infrastructure in extremes reduces unforeseen spill-over losses
- Regional Insurance: Monitoring during whole life cycle reduces total over-costs lowering expenses to all users
- Private Sector/Community: Loss scenarios within minutes after catastrophe occurrences.

**Cenaalo@leeds.ac.uk.**

sites.engineering.leeds.ac.uk/shaking-tunnel-vision
<table>
<thead>
<tr>
<th>NAME</th>
<th>Max Werner</th>
</tr>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:max.werner@bristol.ac.uk">max.werner@bristol.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>0117 3315014</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>University of Bristol Cabot Institute</td>
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</tbody>
</table>

### WHAT DO YOU DO?
- Earthquake resilience research
- Applied statistics in earthquake hazard/risk
- Seismic hazard assessment
- Earthquake interaction, clustering and triggering
- Stress transfer during earthquake cascades
- (Human-) Induced seismicity

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Role of time-dependence of seismic risk in financial instruments
- Modelling cascading earthquake risks, e.g. damaging aftershocks, or secondary perils (landslide triggering)
- Effect of long-range correlations on risk diversification

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- Earthquake hazard and risk modellers in academic/industry
- Catbond modellers/issuers
- Disaster insurance experts
- Multi-hazard/risk approaches
- Community-based financial disaster risk governance
- International development practitioners

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- Earthquake science/seismology
- Co-I on 2 GCRF projects in Bhutan and Nepal (NERC/EPSRC)
- Probabilistic seismic hazard assessment (and risk)
- Applied statistics: point processes, extreme values, risk measures, etc.

### REQUESTS FOR CONTACT AFTER THE EVENT

48
We are the IEA

We deliver value from Big Data Environmental data analytics & visualization specialists.

The IEA is a cutting edge R&D organisation focussed on applying big data analytics in the environmental sector.

We specialise in solving your challenges using data, open data, big data and linked data through our world-leading skills in data analysis, software development and visualization.

We are looking for project partners, with a need to process, analyse or visualise environmental data

We want to help you add value and gain deeper understanding to your data

We will apply our expertise to your problem to show the “art of the possible” using novel data analytics techniques

The IEA offers world-leading expertise in the whole value chain of environmental data; from data acquisition, through data management, processing and analytics to delivery of products and services.

We are a powerful partnership of Universities, Industry and the Public Sector, providing a unique set of end-to-end capabilities to maximise the benefits that can be gained from environmental data.

- Delivering Value from Big Data
- Environmental Data
- Data Analytics
- Training
- Climate data
- Climate Change Data
- Earth Observation
- Innovation
- Training
- Open Data
- Linked Data
- Visualization
- Data from Space
- Renewable energy

The Institute for Environmental Analytics is a unique flagship centre, formed in January 2015 with £5.6m from the HEFCE Catalyst Fund and coordinated by the University of Reading. Read about the challenges we have solved and the global projects we are leading at www.the-iea.org or email us at info@the-iea.org

Follow us on Twitter and Linked In

REQUESTS FOR CONTACT AFTER THE EVENT
<table>
<thead>
<tr>
<th>NAME</th>
<th>Richard Ewbank</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:rewbank@christian-aid.org">rewbank@christian-aid.org</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>020 75232438</td>
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**ORGANISATION & LOGO**

![Christian Aid Logo](image)

**WHAT DO YOU DO?**
Resilience directly covers about half our programming, working through local partners across long-term risk management, inclusive market development, disaster risk reduction and humanitarian response. This covers short-term intensive risks to long-term extensive risk and incremental stress, with a particular focus on local and community participation and agency in all stages of resilience building.

**INTERESTS/IDEAS IN THIS AREA?**
- EARLY WARNING & EARLY ACTION TO FAST & SLOW ONSET EMERGENCIES
- CLIMATE INFORMATION SERVICES
- DECENTRALISED CLIMATE FINANCE
- RESILIENCE IN INCLUSIVE VALUE CHAINS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- RESEARCH METHODOLOGIES
- RISK MODELLING CAPACITY
- CLIMATE SCIENCE EXPERTISE
- INCORPORATION OF RISK MITIGATION/CLIMATE ADAPTATION MEASURES INTO PRICING OF FINANCING INSTRUMENTS, INCL. INSURANCE
- FURTHER DEVELOPMENT OF EARLY WARNING/EARLY ACTION SYSTEMS LINKED TO THE RELEASE OF RESERVE FUNDS FOR RISK MITIGATION WORK AND SCALING OF SAFETY NETS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- A RANGE OF EXPERT LOCAL PARTNERS
- EXPERIENCE IN PARTICIPATORY APPROACHES ESP. PVCA
- RESILIENCE IMPACT ASSESSMENT CAPACITY
- PROGRAMME EXPERIENCE IN CLIMATE SERVICES, CLIMATE RISK ASSESSMENT IN VALUE CHAINS
- PROGRAMME EXPERIENCE IN VARIOUS APPROACHES TO DECENTRALISED CLIMATE FINANCE

**REQUESTS FOR CONTACT AFTER THE EVENT**
AS ABOVE, ALSO DEIRDRE O’SULLIVAN-WINKS - DO’SULLIVAN-WINKS@CHRISTIAN-AID.ORG
<table>
<thead>
<tr>
<th>NAME</th>
<th>Dr Helena Wright</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:helena.wright@e3g.org">helena.wright@e3g.org</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>020 7593 2030 / 07825 894188</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td><img src="image" alt="E3G Logo" /></td>
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**WHAT DO YOU DO?**
I am a Senior Policy Advisor in E3G’s London Office, focusing on driving the reform of international financial institutions to deliver the global climate change goals.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
Interested in understanding of the in-country political economy context as well as an understanding of who pays, and who is responsible for climate-related risks. Would be interested in analysing risk mechanisms in countries and identifying potential new ones to address the existing gaps.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
Interested in working in coalition with like-minded partners, particularly those with experience in developing countries.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
I have a PhD in climate change finance from Imperial College London, as well as experience working for the United Nations and UK Government.

E3G has extensive expertise in climate risk management, sustainable finance and climate diplomacy, including political economy mapping.

**REQUESTS FOR CONTACT AFTER THE EVENT**
Email: helena.wright@e3g.org or contact me on 07825 894188
<table>
<thead>
<tr>
<th>WHAT DO I DO?</th>
<th>WHAT ARE MY IDEAS IN THIS AREA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• SENIOR POLICY AND PRACTICE ADVISER ON CLIMATE CHANGE AND DISASTER RISK REDUCTION</td>
<td>• INNOVATIVE FINANCING MECHANISMS THAT REACH THE POOREST AND MOST VULNERABLE</td>
</tr>
<tr>
<td>• AREAS OF INTEREST; SYSTEMS APPROACHES, COMPLEXITY, RISK AND RESILIENCE</td>
<td>• UNDERSTAND IN THESE COMMUNITIES THE GAP BETWEEN SOCIAL PROTECTION AND INSURANCE</td>
</tr>
<tr>
<td>• ENGAGED WITH UNISDR AND UNFCCC GLOBAL NEGOTIATIONS ESPECIALLY LOSS AND DAMAGE</td>
<td>• CONTEXT FOR EXISTING COPING MECHANISMS HOW THEY WORK AND POSSIBILITIES FOR ADAPTATION</td>
</tr>
<tr>
<td>• CO-CHAIR THE BOND RESILIENCE LEARNING GROUP AND STEERING COMMITTEE FOR ROCKEFELLER MEASURING RESILIENCE COP</td>
<td>• OPPORTUNITIES TO LINK WITH FORECAST BASED FINANCING</td>
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<tr>
<th>WHAT AM I LOOKING FOR?</th>
<th>WHAT CAN I OFFER?</th>
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<tbody>
<tr>
<td>• HOW TO MAKE RISK FINANCING WORK FOR THE POOREST AND MOST VULNERABLE</td>
<td>• SHEAR PROJECTS IN S. ASIA</td>
</tr>
<tr>
<td>• EXPERTISE IN INNOVATIVE FINANCIAL RISK TRANSFER, HOW TO FINANCE AND HOW TO OPERATIONALISE</td>
<td>• COMMUNITY CLIMATE RISK PROJECTS IN MALI, SENEGAL, NIGER, KENYA, ZIMBABWE, NEPAL AND BANGLADESH</td>
</tr>
<tr>
<td>• HELP TO EXPLORE THE LINKS BETWEEN SOCIAL PROTECTION AND INSURANCE AND THE GAP BETWEEN</td>
<td>• LOCAL PARTNERS AND ACCESS TO NETWORKS AT DIFFERENT SCALES</td>
</tr>
<tr>
<td>• ANALYTICAL SUPPORT FOR POTENTIAL MECHANISMS TO PLUG THE GAP</td>
<td>• MARKET BASED SYSTEMS APPROACHES WHICH WORK WITH THE POOREST AND MOST VULNERABLE (EMMA, PMSD, PCMA)</td>
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REQUESTS FOR CONTACT AFTER THE EVENT
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<tr>
<th>NAME</th>
<th>Sheri Lim</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:lim@careinternational.org">lim@careinternational.org</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>02070916061</td>
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<td>ORGANISATION &amp; LOGO</td>
<td>care</td>
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**WHAT DO YOU DO?**

CARE International UK is a humanitarian and international development organisation operating in more than 90 countries around the world, implementing poverty-fighting programmes and delivering life-saving aid.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

*How to better engage communities in:*
  A) Informing models, setting of triggers and validating data
  B) Determining information needs for decision-making around risk

*Improved understanding of socio-political systems and structures needed for action once triggers are met;*  
*Better understanding of how insurance is being used and how can be used (e.g. humanitarian early intervention, early recovery, repaying losses and debts, assisting community groups, etc.);*  
*Open to other ideas!*

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- Community-level experience in climate & weather data collection and validation
- Participatory engagement with communities and facilitating multi-stakeholder processes
- Focus on user-based climate information services
- Experienced humanitarian delivery agency

**REQUESTS FOR CONTACT AFTER THE EVENT**
### NAME
Jason Garrett

### EMAIL
jason.garrett@worldvision.org.uk

### TELEPHONE
01908-841031

### ORGANISATION & LOGO
![World Vision Logo](image)

### WHAT DO YOU DO?
- Support World Vision National Offices in designing projects to build resilience to disasters and the impacts of climate change
- Training and capacity building of WV staff in Disaster Risk Reduction, Climate Change Adaptation and Natural Resource Management

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Integrating financing mechanisms into wider resilience programming
- Using financing mechanisms to mitigate risk and build resilience before an event

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- New financing mechanisms for risk reduction and preventive measures
- Working with more excluded, marginalised groups, eg pastoralists
- Research and evidence of impact of different financial instruments

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- WV’s community based programming footprint
- Innovative approaches to Natural Resource Mnt
- Seasonal forecasting in local languages - Uganda
- WV’s micro-finance institution Vision Fund

### REQUESTS FOR CONTACT AFTER THE EVENT
<table>
<thead>
<tr>
<th>NAME</th>
<th>Luke Caley</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Luke.caley@startnetwork.org">Luke.caley@startnetwork.org</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>07946614493</td>
</tr>
<tr>
<td>WHAT DO YOU DO?</td>
<td>Crisis Anticipation Advisor</td>
</tr>
<tr>
<td></td>
<td>The Start Anticipation team aims to enable earlier action by the 42 member Start Network by improving access to forecasting information, coordinating joint analysis, building an evidence base of the value of early action and brokering risk modelling and analytical services to enable improved anticipatory interventions.</td>
</tr>
<tr>
<td>WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?</td>
<td>I am interested in using forecasting and probabilistic information to intervene early and reduce harm and loss as a result of disasters.</td>
</tr>
<tr>
<td>WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?</td>
<td>I convene a group of experts focussed on early warning early action, called Forewarn or the Forecast-based Warning, Analysis and Response Network. This group includes scientists, risk modellers, and field practitioners. We want to build a network which can support our members to access scientific advice and apply it to improve humanitarian outcomes.</td>
</tr>
<tr>
<td>WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?</td>
<td>My skills are focussed on GIS, spatial analysis, risk analysis, remote sensing and managing humanitarian operations.</td>
</tr>
<tr>
<td>REQUESTS FOR CONTACT AFTER THE EVENT</td>
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<tr>
<td>ORGANISATION &amp; LOGO</td>
<td><img src="image.jpg" alt="Start Network Logo" /></td>
</tr>
</tbody>
</table>
NAME | Kevin Huttly
---|---
EMAIL | kevin_huttly@wvi.org
TELEPHONE | 07887051668

WHAT DO YOU DO?
I work for VisionFund International as the project manager for Financial Disaster Risk Management and Recovery Lending within the Insurance Division.

I am currently transforming the work of the project into an insurance scheme to provide our MicroFinance Institutions with the financial and operational capability to provide recovery loans to our clients post disaster using a blend of contingent credit and catastrophe index linked insurance.

WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
Discovering innovative ways of providing efficient solutions to those unable to access insurance, not only in protecting them and their assets, but also in enhancing their opportunities by mitigating uncertainty.

I believe the private sector has much to offer this sector but has not always been best informed or has set its stall out in a position which the sector finds hard to utilise fully or understand.

WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
I am looking for more assistance with measuring and reconciling severity of hazards and their impact on the poor.

I am looking for innovative financial instruments or mechanisms that provide efficiency particularly when used infrequently.

I am looking for other organisations who could use and benefit from our work, to add scale and diversity and in doing so bring rating down.

How to get these quite complex messages across to audiences that don’t always understand, often have more seemingly pressing problems, or business models that don’t accommodate this thinking.

How to offer novel solutions in non-existent or immature regulatory markets.

WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
I am only a year into this part of my career having spent 30 years underwriting and managing underwriters in the Lloyds’ of London marketplace so I offer a wealth of commercial experience across a wide range of classes of business in particular Financial and Professional risks.

I believe a commercial background can bring a great deal to this sector and that my experiences to date at VFI being focused on agricultural and rural markets and therefore heavily exposed to climate risk, may be of assistance.

REQUESTS FOR CONTACT AFTER THE EVENT

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<table>
<thead>
<tr>
<th>NAME</th>
<th>David Simmons</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:david.c.simmons@willistowerswatson.com">david.c.simmons@willistowerswatson.com</a></td>
</tr>
<tr>
<td>PHONE</td>
<td>+44 20 3124 8917</td>
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<tr>
<td>COMPANY &amp; LOGO</td>
<td>Willis Towers Watson</td>
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</table>

**WHAT DO YOU DO?**

We are re/insurance brokers and risk advisors. We work with corporate clients, insurers, governments, cities and NGOs to help them to:
- Understand their risks
- Manage their risks
- Model their risks
- Design appropriate insurance solutions
- Place the business as cheaply as possible

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

Insurance and related tools, eg Resilience bonds, can be a key element in improving disaster response: not just as a source of post-event financing but also as a catalyst or indeed reward for better risk understanding, management and preparedness. The insurance market has huge appetite for this risk and, properly broked, cover has never been cheaper or the market more willing to be creative; the opportunity is huge if we seize it.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

The major blockage to growth of this market is appreciation of what can be done and the benefits that the insurance process and mechanism can bring – meeting parties who have a need and/or who know someone who does. Good sources of data about hazard, exposure and vulnerability also welcome.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Willis Towers Watson is broker to the two largest Emergency response insurance schemes in the World, CCRIF (Caribbean) and RC (Africa). We have unrivalled expertise in risk modelling, product structure and product placement. We are willing to work on a consultancy basis or to close a transaction.

**REQUESTS FOR CONTACT AFTER THE EVENT**
<table>
<thead>
<tr>
<th>NAME</th>
<th>Dan Fairweather</th>
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<td>EMAIL</td>
<td><a href="mailto:dan.fairweather@willistowerswatson.com">dan.fairweather@willistowerswatson.com</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>020 3124 8436</td>
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<tr>
<td>ORGANISTATION &amp; LOGO</td>
<td>Willis Towers Watson</td>
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</table>

**WHAT DO YOU DO?**

- Director of Livestock, Aquaculture and Fisheries
- Risk Consultant
- Insurance broker and advisor
- ‘Traditional’ insurance practitioner, exploring novel approaches to risk transfer

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- CURRENTLY WORKING ON RISK TRANSFER MECHANISMS INVOLVING BOTH INDEMNITY BASED AND PARAMETRIC INSURANCE STRUCTURES.
- AREAS OF FOCUS – LIVESTOCK, FISHERIES, MARINE ECOSYSTEMS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- THOSE INVOLVED IN:
  - FISHERIES
  - MARINE DATA
  - CLIMATE CHANGE

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- TRAINED FISH BIOLOGIST
- PREVIOUS ROLE AS SENIOR AQUACULTURE UNDERWRITER
- LEADING ON A NUMBER OF NOVEL INSURANCE PROJECTS LOOKING AT AGRICULTURE AND SUSTAINABLE DEVELOPMENT OF THE BLUE ECONOMY

REQUESTS FOR CONTACT AFTER THE EVENT
<table>
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<tr>
<th>NAME</th>
<th>Giulio Tirabassi</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:giulio.tirabassi@guycarp.com">giulio.tirabassi@guycarp.com</a></td>
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<tr>
<td>TELEPHONE</td>
<td>+353 (0) 1 604 8323</td>
</tr>
<tr>
<td>ORGANISTATION</td>
<td>GUY CARPENTER</td>
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</table>

- I am a CAT Risk Research Analyst working in Dublin for Guy Carpenter, a reinsurance broker
- I am part of a research group, CAT Risk Studio, mainly devoted to the systematic and rigorous quality assessment of the most important CAT models used in the insurance and reinsurance industry
- Among other things, we use these models to design parametric risk transfer solutions, such as CAT bonds
- Improving the state of the art of parametric risk transfer solutions for hurricanes

- Natural hazards modelling skills: hurricane modelling
- Statistical competencies
- Experience with the insurance and reinsurance industry
- Expertise in securities and capital markets
- Experience in CAT bond triggers design
- Further connections with academic institutions
- Expertise in trigger optimization
- Compendium of 10k damage functions

REQUESTS FOR CONTACT AFTER THE EVENT
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<th>NAME</th>
<th>Miroslav Petkov</th>
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<td>EMAIL</td>
<td><a href="mailto:miroslav.petkov@spglobal.com">miroslav.petkov@spglobal.com</a></td>
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<tr>
<td>TELEPHONE</td>
<td>02071767043</td>
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<td>ORGANISATION &amp; LOGO</td>
<td>S&amp;P Global Ratings</td>
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</table>

**WHAT DO YOU DO?**

Head of Financial Services Environmental and Climate Risk Research. Led the development of S&P Green Evaluation framework for adaptation projects. Author of several S&P articles on the impact of climate change and natural catastrophes on the rating profiles of financial services and corporates.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

Assessing the environmental/resilience benefit of adaptation projects.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

Quantifying the impact of climate change on extreme weather events.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Providing benchmarks to investors for assessing the relative resilience benefit of adaptation projects.

REQUESTS FOR CONTACT AFTER THE EVENT
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<th>NAME</th>
<th>Dr. Claire Souch</th>
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<td>EMAIL</td>
<td><a href="mailto:claire@awhaconsulting.com">claire@awhaconsulting.com</a></td>
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<tr>
<td>TELEPHONE</td>
<td>+44 7487 630083</td>
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<td>ORGANISTATION &amp;_logo</td>
<td>Insurance Development</td>
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<td></td>
<td>Forum Risk Modelling and</td>
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<td>Mapping Group</td>
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**WHAT DO YOU DO?**
- Independent consultant on catastrophe and agri risk modelling and management in the re/insurance sector. Over 15 years experience in the sector
- Working with the IDF RMMG on risk data and modelling to support the development of new risk transfer mechanisms for the developing world
- Program manager developing new risk models for the developing world in partnership with academics and in-country partners

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Increasing the flow of data/expertise from the academic sector
- Broaden the understanding and usage of cat risk models to other stakeholders involved in disaster risk reduction and climate change adaptation
- Building capability in a broader set of stakeholders in the developing world in the development and use of catastrophe risk models

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Data and approaches to creating parametric insurance triggers and setline claims in areas with sparse historical and real-time data, including remote sensing
- Data, models and modelling techniques which exist or can be applied for the v20 countries to develop risk models quickly
- Data and techniques to develop databases of the built environment and its vulnerability to natural hazards

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Knowledge of global cat and agri-risk and insurance landscape
- Coordination with members of the IDF RMMG
- Overview of scientific topics of interest to the re/insurance sector
- Advice on data/model and research output requirements by the re/insurance industry

**REQUESTS FOR CONTACT AFTER THE EVENT**
| **NAME** | Andrew Voysey  
Director, Sustainable Finance |
| **EMAIL** | andrew.voysey@cisl.cam.ac.uk |
| **TELEPHONE** | +44 7595 106458 |

**What do you do?**
- Bridge between practitioner and expert insights to deliver actionable solutions on sustainable finance.
- Convene leadership groups from across the financial services sector, with a special focus on the global insurance industry via ClimateWise.
- Develop the skills and toolkits to support the financing of resilient cities.
- Provide executive education to build capacity, globally.
- Provide advisory services for governments and financial policymakers.

**What are your interests/ideas in this area?**
- We have a goal to ensure cities thrive in the face of climate-related natural disasters through appropriate support from the financial sector.
- We are particularly focused on **City Innovation Partnerships** – capacity building programmes that draw on both environmental and social science research to enable city authorities to understand and act on the value of the insurance industry’s risk assessment capabilities in urban planning and infrastructure investment.
- The public sector benefits from a richer understanding of how insurance sector analytics can help them.
- Insurers can subsequently benefit from market development opportunities.

**What skills, knowledge or approaches are you looking for?**
- We wish to further develop the City Innovation Partnership model in other city contexts.
- Expertise (e.g. climate modelling research) on natural catastrophes in city regions.
- Knowledge of local financial and infrastructure systems in developing countries.
- Knowledge of local sustainability and climate pressures in developing countries.
- Knowledge of local sensitivities/custom in developing countries.

**What skills, knowledge or approaches can you offer?**
- Market experience of having built capacity in Tanzania and China in this way already.
- We a long-time convenors of a leadership group of over 25 insurers (alongside banks and institutional investors)
- Access to University of Cambridge and partner expertise.
- A long history of successfully cross-sector facilitation and capacity building.
- In-depth knowledge of sustainable finance market and regulatory practices, globally.

**Requests for contact after the event**

<table>
<thead>
<tr>
<th>NAME</th>
<th>Stuart Fraser</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:stuart@disaster-risk.uk">stuart@disaster-risk.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+44 7455 048 044</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>Insurance Development Forum Risk Modelling and Mapping Group</td>
</tr>
</tbody>
</table>

### WHAT DO YOU DO?
- Independent consultant to Insurance Development Forum RMMG and others
- RMMG supports risk modelling for disaster risk financing
- Core work in risk modelling (multiple hazards), managing risk assessment projects, and developing tools to share risk information more widely
- Over 10 years of experience across development sector, insurance industry, emergency management, and academia

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Increasing sharing of existing tools and data (from academia and commercial providers)
- Collaborative development of open-access tools and data
- Improving efficiency and sustainability in risk analysis
- Promoting interoperability and common data standards
- Building capability in risk analysis (esp. in developing countries)

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- **Exposure** development in data-scarce areas – structures, infrastructure, agriculture
- Methods to assess **dynamic exposure** and project trends for better estimation of current and future risk
- **Vulnerability** expertise, esp. non-seismic
- **Drought** risk expertise (agrri, hydrological) to improve drought risk assessment
- **Existing data** that could be applied in development and trigger of insurance products

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- Coordinate with RMMG and IDF for
  - review and advisory role
  - expertise in risk analysis for finance
  - links to ongoing initiatives
- Current requirements and focus areas for data and analysis
- Design / best-practice in risk assessment

### REQUESTS FOR CONTACT AFTER THE EVENT
<table>
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<tr>
<th>NAME</th>
<th>Juan Marcano</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:jmarcano@globalparametrics.com">jmarcano@globalparametrics.com</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>020 7960 6000</td>
</tr>
<tr>
<td>ORGANISATION</td>
<td>Global Parametrics</td>
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### WHAT DO YOU DO?
Natural Disaster Risk Management Advisory and Financial Solutions

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
GP's goal is to help the most vulnerable communities build resilience and mitigate the impact of natural disaster by providing data to make better decisions, advice on how best allocate the resources available and the option to transfer the risk.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
Forecasting
Flood Modelling
Numerical Modelling

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
We offer an innovative approach to disaster risk management.

### REQUESTS FOR CONTACT AFTER THE EVENT
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<tr>
<th>NAME</th>
<th>Simon Young</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:simon@geosy.com">simon@geosy.com</a></td>
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<td>TELEPHONE</td>
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<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>Willis Towers Watson</td>
</tr>
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**WHAT DO YOU DO?**

Strategic Consultant to the Capital, Science & Policy Practice at Willis Towers Watson.

Consultant in disaster and climate risk management and financing services.

Advisor for African Risk Capacity Insurance Company (ARC)

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

Volcanologist (ex-Director of the Montserrat Volcano Observatory)

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Wide experience in disaster and climate risk management and financing services including for Caribbean Catastrophe Risk Insurance Facility (CCRIF) ; Pacific pilot risk pool, PCRAFI, African Risk Capacity Insurance Company

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>🌐 African Risk Capacity</td>
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### WHAT DO YOU DO?
- Representing the African Risk Capacity

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Enhancing understanding of vulnerability and exposure
- Integrating non-rainfall impacts on food security into ARC’s drought model;
- Modelling excess rainfall through better ground data;
- Simulating future rainfall
- Modelling perennial cash crops
- Improving drought model parameters;

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
ACADEMICS WITH KNOWLEDGE OF:
- Vulnerability modelling and modelling drought impact on populations;
- Excess rainfall modelling;
- Simulating future rainfall
- Perennial cash crop modelling;
- Drought modelling and how to enhance parameters’ effectiveness.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- ARC supports African governments in managing drought, cyclone and flood risk through early warning, contingency planning and parametric insurance.
- ARC has knowledge of disaster risk & vulnerability modelling; parametric insurance & planning.

### REQUESTS FOR CONTACT AFTER THE EVENT
- ROSS MAIDMENT - UNI OF READING (REMOTE SENSING, CLIMATOLOGY)
- DAVID SCHULTZ - UNI OF MANCHESTER (SYNOPTIC)
- TIM FOSTER - UNI OF MANCHESTER (BIOPHYSICAL MODELS, WATER-FOOD SECURITY)
- DOMINIC KNIVETON - UNI OF SUSSEX (CLIMATE SCIENCE AND VULNERABILITY)
- BERNARD MANYENA - NORTHUMBRIA UNIVERSITY (DRM)
- SERGE GUILASS - UCL (STATS PROF)
- MENG TONG - UNI OF BIRMINGHAM (ENVIRONMENTAL ECONOMICS)
- VALENTINA NOACO - UNI OF BRISTOL (WATER AND ENVIRONMENT)
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<tr>
<th>NAME</th>
<th>Matthew Raywood</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:matthew.raywood@sompocanopius.com">matthew.raywood@sompocanopius.com</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>020 3540 7027</td>
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**WHAT DO YOU DO?**
- Sompo Canopius is a global specialty (re)insurer, underwriting largely in North America, Europe and Asia. Offices in London, Chicago, Zurich and Singapore.
- Our Catastrophe Management team work collaboratively with academia and third parties to further develop our expertise in emerging areas of risk and of modelled and non-modelled perils.
- We use in-house developed models along with vendor catastrophe models to assess risk for property damage.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- As a global (re)insurer we have a strong interest in emerging marketplaces and opportunities to close the protection gap.
- Previously collaborated on development of cyber projects with Cambridge Risk Studies group and RMS.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Research projects which can help quantify and build understanding of risk in developed and developing countries provide an excellent opportunity for collaboration.
- Ongoing projects to develop views of risk for hazard and vulnerability on a regional and location basis.
- Looking to conduct further research in to seasonal forecasting, global event sets, teleconnections and risk correlation and earthquake spatio-temporal clustering.
- A particular interest in working with researchers who have novel statistical and computing methods for assessing risk.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- A broad range of experience in the team across natural hazards, engineering, economics and maths.
- Pioneered the use of academic flood modelling sources in assessing US flood risk.
- Offer a specialist insurance and catastrophe modelling knowledge background.

**REQUESTS FOR CONTACT AFTER THE EVENT**
- Having previously attended a NERC workshop we are keen to engage and collaborate with the academic community. Please speak with me during the networking event or email me at the above address if you would like to discuss anything in the future.
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<tr>
<th>NAME</th>
<th>Darren Lumbroso</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:d.lumbroso@hrwallingford.com">d.lumbroso@hrwallingford.com</a></td>
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<td>TELEPHONE</td>
<td>01491 822383</td>
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**WHAT DO YOU DO?**

- Early warning systems for floods and droughts
- Strategies for developing national early warning systems
- Disaster risk reduction
- Risk assessments for water-related hazards

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- Flood forecasting
- Drought forecasting
- Utilising forecasting models in data poor regions
- Disaster risk reduction

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

Possible partners for research and consultancy especially NGOs, universities, economists

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- Links to networks such as the Global Water Partnership
- Experience of working in some 40 low income countries

**REQUESTS FOR CONTACT AFTER THE EVENT**

-
**NAME**  |  John Auburn  
---|---
**EMAIL**  |  j.auburn@rheagroup.com  
**TELEPHONE**  |  07921 051781  

### WHAT DO YOU DO?
- SPACE ENGINEERING
- DEVELOPMENT OF DFMS: DROUGHT AND FLOOD MITIGATION SERVICE
- HELP UGANDAN AGRICULTURE
- WATER RESOURCES / FLOOD FORECASTS
- PROVIDE SEASONAL FORECASTS
- EO SERVICE PLATFORMS

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- EARTH OBSERVATION DATA
- AGRI–INSURANCE
- EARLY WARNING SYSTEMS
- SPACE BASED FINANCIAL MODEL V&V
- IMPROVING LIVESTOCK / AGRI YIELDS
- CLIMATE CHANGE IMPACT MITIGATION

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- INSURANCE PARTNERS
- BASIS RISK
- 3RD WORLD PARAMETRIC BASED SYSTEM
- AGRICULTURE MODELS
- CLIMATE AND METEOROLOGY
- FINANCIAL SOCIAL SCIENCE RESEARCHERS

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- DEEP SPACE TECHNOLOGY KNOWHOW
- BIG DATA AGGREGATORS
- ACCESS TO ESA & CATAPULT
- GOV/NGO NETWORK IN AFRICA
- SPACE AND GROUND DATA FOR RISK PREDICTION/MITIGATION
- ACCESS TO HISTORICAL DATA

**REQUESTS FOR CONTACT AFTER THE EVENT**  
PLEASE EMAIL/CALL
**NAME**
Mark Harvey

**EMAIL**
mark@resurgence.io

**TELEPHONE**
+ 44 7703 180 524

**ORGANISATION & LOGO**
Resurgence

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**WHAT DO YOU DO?**

Open Data - Risk Communication - City Climate Resilience

➢ Resurgence works to close the climate protection gap in cities through capacity building in open risk modelling, risk visualisation and risk communication.

➢ We help public officials transform climate risk data into informed urban development policy and action on the ground: into climate risk informed urban planning, into risk mitigation measures for infrastructure and communities, into insurance uptake and into behavioural change.

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**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

We are seeking to enhance the Vizonomy City Climate Risk Terminal that we have with stronger financial modelling, cost-benefit analysis and decision support tools to support disaster finance related decision-making.

We are looking for academic expertise in:

➢ Hazard, exposure and vulnerability modelling
➢ Financial modelling around damage and loss from climate natural hazards
➢ Cognition and Psychological Aspects of Climate Data Visualisation
➢ Information and media systems dynamics
➢ Political economy of disaster financing uptake in climate vulnerable countries

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**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Resurgence can offer skills in:

➢ Local Open Data Infrastructure Development for Cities
➢ Collaborative Data Collection and Modelling
➢ Risk Visualisation Tactics and Design
➢ Risk Communication Programme Design
➢ Information and Media Ecosystem Mapping
➢ Early Warning System Design
➢ Risk Governance Support Programmes
➢ Journalism Training in risk literacy

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**REQUESTS FOR CONTACT AFTER THE EVENT**

YES - PLEASE CONTACT ME IF INTERESTED
<table>
<thead>
<tr>
<th>NAME</th>
<th>Shane Latchman</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:slatchman@air-worldwide.com">slatchman@air-worldwide.com</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>02037640346</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>AIR Worldwide</td>
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**ASSISTANT VICE PRESIDENT, RESEARCH AND CONSULTING**

**CATATROPHE MODELLING, UNCERTAINTY QUANTIFICATION**

Collaboration on projects linked to Public risk such as quantification of disaster risk mitigation, financing and model development where no commercial cat models currently exist

- Catastrophe risk models for 100+ countries worldwide and other countries on bespoke basis

REQUESTS FOR CONTACT AFTER THE EVENT
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<tr>
<th>NAME</th>
<th>Paul Henshaw</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:paul.henshaw@globalquakemodel.org">paul.henshaw@globalquakemodel.org</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+39 0382 51 69 865</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>Global Earthquake Model (GEM) Foundation</td>
</tr>
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</table>

**WHAT DO YOU DO?**

GEM is a private-public partnership that drives a collaborative effort for transparent earthquake risk assessment. Working with stakeholders around the world, GEM produces open software tools, data sets and models of earthquake hazard, physical risk (losses and damage) and social vulnerability and impact.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

GEM works primarily through collaboration and is always interested in discussing possible opportunities for partnerships and projects for earthquake risk assessment.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

GEM is interested in interoperability and compatibility with other to other natural hazards, through partnerships with experts in non-seismic hazard, promotion and development of open standards, and interoperability with existing tools. Similarly, GEM is interested in working with experts and stakeholders from the financial and other sectors to investigate synergies and collaboration possibilities.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Open source software tools, open data sets, seismic hazard, exposure, vulnerability, risk assessment, social vulnerability and resilience. Global collaboration network, public/private, non-profit.

**REQUESTS FOR CONTACT AFTER THE EVENT**

paul.henshaw@globalquakemodel.org
<table>
<thead>
<tr>
<th>NAME</th>
<th>JOHN ALEXANDER</th>
<th>EMAIL</th>
<th><a href="mailto:john.alexander@aquobex.com">john.alexander@aquobex.com</a></th>
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<tbody>
<tr>
<td>TELEPHONE</td>
<td>07909 700 777</td>
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<tr>
<td>ORGANISATION</td>
<td>AQUOBEX</td>
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<td>FLOOD MANAGEMENT SOLUTIONS</td>
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**WHAT DO YOU DO?**
- Flood Consultancy
- Specialist flood solutions provider
- Flood Research, properties
- Early warning system, fire, flood, heatwave
- Product Development (5 patents)

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
1. INSURANCE MECHANISMS FOR IMPROVED DATA COLLECTION
2. MORE EFFECTIVE PAYMENT SCHEMES
3. SPENDING MONEY EFFECTIVELY ON DELIVERING REAL WORLD SOLUTIONS (OUTCOMES)

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- HOW TO GET THE MONEY INTO THE HANDS OF LOCAL DELIVERY PARTNERS?
- HOW TO TRANSFER SKILLS TO LOCALS
- RETURN ON INVESTMENT SO THE MONEY CONTINUES TO FLOW EFFECTIVELY

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- RESEARCH BACKED UNDERSTANDING OF INSURANCE MECHANISMS
- PARTNERS WHO CAN PROVIDE DATA SETS
- SOLUTIONS PROVISION
- EARLY WARNINGS

**REQUESTS FOR CONTACT AFTER THE EVENT**
- NGOS
- INSURERS
- (DISASTER) RISK MANAGERS
<table>
<thead>
<tr>
<th>NAME</th>
<th>David Williams</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:david.williams@ambiental.co.uk">david.williams@ambiental.co.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>0203 857 8545 / 07889 245 979</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>Ambiental <a href="http://www.ambiental.co.uk">www.ambiental.co.uk</a></td>
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</tbody>
</table>

**WHAT DO YOU DO?**
Support the use of Ambiental’s proprietary UK and International flood maps, data sets and catastrophe models, in improvement of loss-prediction systems and other scenarios benefiting from detailed analyses of flood risk.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
I am interested in understanding challenges organisations and individuals are experiencing relating to financial risk in the event of flood-related disaster.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
Ambiental nurtures numerous collaborative partnerships, globally, across a range of challenges, so I would be keen to discuss potential for innovation incorporating deployment of flood-risk assessment.

Particular interest in speaking to academia in the field of AI algorithms.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
Ambiental is a flood specialist, with extensive technical knowledge and understanding requiring engineering and mathematical knowledge, expertise in geomorphology, climatology and computer programming. Both ambitious and pragmatic, we aim to give people the insight they need to make better decisions about flooding around the world.

**REQUESTS FOR CONTACT AFTER THE EVENT**
Please feel free to leave me your details to discuss Ambiental’s services, or if I can put you in touch with any other member of the Ambiental team.
## NAME
Olga Mursajew

## EMAIL
Olga.Mursajew@b2bProtect.de

## TELEPHONE
+495121 9356060

## ORGANISATION & LOGO
b2b Protect GmbH

### WHAT DO YOU DO?
- Development of new (climate risk) insurance products together with international insurance/reinsurance companies, brokers and DFIs
- Bringing (climate risk) insurance solutions from concept to product stage
- Providing consultancy and recommendations in the field of technical insurance design (underwriting, trigger selection, legal and financial structuring)

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Development and establishment of new/ innovative (climate risk) insurance projects in development countries
- Using new technologies in order to overcome efficiency deficits and/ or to ensure insurability

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- Risk taking entities with the willingness to use innovative approaches e.g. based on new data sources, claim settlement processes, etc.
- Natural Hazard Modelling Expertise,
- Improvements in index-design,
- Data-analysis experts e.g. for banking portfolios regarding climate risks/ dependencies
- Experts/cooperation partners for future insurance related (tender) projects

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- Expertise in index-based insurance products
- Technical insurance design
- Knowledge of insurance/reinsurance sector and the product development cycle
- Linkage between clients/insurance sector/ DFIs

### REQUESTS FOR CONTACT AFTER THE EVENT
NO RESTRICTIONS!
<table>
<thead>
<tr>
<th>NAME</th>
<th>John Bevington</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:john.bevington@jbaconsulting.com">john.bevington@jbaconsulting.com</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>07866 902 582</td>
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**WHAT DO YOU DO?**

- FLOOD RISK MANAGEMENT
- FLOOD FORECASTING
- HYDROLOGY & HYDRAULIC MODELLING
- DEVELOP GLOBAL FLOOD HAZARD DATA & CAT. MODELS
- SOFTWARE DEVELOPMENT (INC. WEB-GIS)

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

1. REAL-TIME & FORECAST FLOOD INUNDATION DATA UNDERPINNING PARAMETRIC INSURANCE PRODUCTS
2. FUSION OF MODEL AND OBSERVATIONAL DATA
3. USE OF RISK DATA TO TARGET DEVELOPMENT OF NEW FINANCIAL PRODUCTS / POOLS
4. INTERNATIONAL DEMONSTRATION OPPORTUNITIES

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- ACADEMIC INPUT: DESIGN OF FINANCIAL MECHANISMS
- ACADEMIC INPUT: SENSOR INTEGRATION AND DATA ASSIMILATION
- IDENTIFY END-USERS – GOVERNMENTAL OR NGOS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- OPERATIONAL FLOOD FORECASTING SYSTEM
- GLOBAL FLOOD HAZARD DATA AND FLOOD CAT MODELS
- HYDROLOGY/HYDRAULICS/FLOOD SKILLS
- EXISTING SOFTWARE/WEB TOOLS

**REQUESTS FOR CONTACT AFTER THE EVENT**
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<th>NAME</th>
<th>RICHARD DIXON</th>
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<td>EMAIL</td>
<td><a href="mailto:richard@catinsight.co.uk">richard@catinsight.co.uk</a></td>
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<tr>
<td>TELEPHONE</td>
<td>07866159983</td>
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<td>ORGANISATION &amp; LOGO</td>
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### WHAT DO YOU DO?
- CONSULTANT TO INSURANCE INDUSTRY IN CATASTROPHE MODEL EVALUATION / BUILDING / RESEARCH (17 YRS EXPERIENCE)
- VISITING RESEARCH FELLOW AT DEPT OF METEOROLOGY, UNIVERSITY OF READING, LOOKING AT HOW WE CAN BETTER USE CLIMATE MODELLING IN CATASTROPHE RISK
- INVOLVED WITH INSURANCE DEVELOPMENT FORUM (IDF) RISK MAPPING AND MODELLING GROUP
- KEEN TO FOSTER WELL-DIRECTED ACADEMIC RESEARCH THAT BENEFITS INDUSTRY AND ACADEMIA IN NOVEL TOPICS

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- CAN WE USE EXISTING CLIMATE MODEL DATA (THAT MAY HAVE BEEN RUN FOR DIFFERENT PURPOSES) FOR CATASTROPHE RISK ASSESSMENT?
- DESIRE TO DEVELOP AN INVENTORY OF “WHAT IS OUT THERE?” IN TERMS OF AVAILABLE DATA IN CLIMATE MODEL RESEARCH THAT COULD BE REPURPOSED FOR DISASTER RISK PURPOSES
- DEVELOPING AN UNDERSTANDING OF WHAT IS PROPERLY USABLE IN CLIMATE MODEL-BASED RISK ASSESSMENT (MODEL BIASES? RESOLUTION DEPENDENCE OF CERTAIN RISKS?)

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- EXPERIENCED CLIMATE MODELLERS WHO UNDERSTAND MODEL BIASES/LIMITATIONS TO HELP IDENTIFY PRE-EXISTING CLIMATE MODEL STUDIES THAT COULD BE USED AS STARTING POINT FOR CATASTROPHE RISK ASSESSMENT
- WAYS OF OVERCOMING MODEL BIASES/LIMITATIONS TO UTILISE THE MANY THOUSANDS OF YEARS OF CLIMATE MODEL DATA THAT ALREADY EXIST
- WAYS OF RE-PACKAGING GRIDDED MODEL DATA FOR MORE INSURANCE-SPECIFIC RISK ASSESSMENT PURPOSES
- ASSISTANCE IN DEVELOPING CLIMATE MODEL DATA “WHAT IS OUT THERE?” INVENTORY

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- BACKGROUND OF PHD IN METEOROLOGICAL RESEARCH BUT MANY YEARS OF PRACTICAL EXPERIENCE WITHIN THE CATASTROPHE MODELLING INDUSTRY IN THE BUILDING, RESEARCH AND EVALUATION OF CATASTROPHE MODELS
- A WORKING POSITION THAT STRADDLES BOTH ACADEMIA AND INSURANCE!

### REQUESTS FOR CONTACT AFTER THE EVENT
PLEASE CONTACT VIA EMAIL IF:
- ANY OF THE ABOVE HAS BEEN ANSWERED ALREADY ELSEWHERE
- YOU FEEL YOU CAN HELP IN THE ABOVE QUESTIONS.
<table>
<thead>
<tr>
<th>NAME</th>
<th>Andrew Smith</th>
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<tr>
<td>EMAIL</td>
<td><a href="mailto:a.smith@ssbn.co.uk">a.smith@ssbn.co.uk</a></td>
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<tr>
<td>TELEPHONE</td>
<td>07969054433</td>
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<td>ORGANISATION &amp; LOGO</td>
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**WHAT DO YOU DO?**

I build flood models. Since completing my PhD at the University of Bristol, I co-founded a company that specialises in building flood models at large scales and in data poor areas. We currently license data with global coverage, servicing numerous industries including (re)insurance, corporates and disaster response.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

- Make cutting edge science available to a wide variety of end users
- Continually develop flood model capability
- Provide risk information in areas with no provision
- Partner with various organisations to develop bespoke tools

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- Anyone requiring or interested in flood risk data
- Flood forecasting experts

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- World leading flood model capability
- Expertise in working in data poor regions
- Access to multiple clients/markets

**REQUESTS FOR CONTACT AFTER THE EVENT**
<table>
<thead>
<tr>
<th>NAME</th>
<th>Robert Muir-Wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:robertm@rms.com">robertm@rms.com</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>07775667208 &amp; 02074447700</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td><a href="http://www.rms.com">www.rms.com</a></td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**

I am the Chief Research Officer at RMS.

- My mission is to explore new areas and new applications of risk modeling.
- I have been a lead author for two IPCC reports, writing on climate change and catastrophes, and am a visiting professor at UCL’s Institute for Risk and Disaster Reduction.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

I am very interested in how to expand the insurance mechanism to support risk reduction.

- However the insurance mechanism can only work where there is a quantified understanding of the risk.
- Risk modelling should also underlie all DRR planning.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

- We are always on the lookout for new science and new data to improve risk modeling, and in particular what is material in affecting casualties, damage and disruption
- and funding and collaboration opportunities

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

- I have 25 years experience of working on how to structure and calibrate a wide range of risk models,
- In the next five years, catastrophe models will be widely employed by aid agencies, city administrations and national governments

**REQUESTS FOR CONTACT AFTER THE EVENT**

Or contact on robertm@rms.com
Stephen Moss
smoss@rms.com
+44 7884 664558, +44 207 444 7767

http://www.rms.com/

WHAT DO YOU DO?
- My role within RMS is to identify and develop new markets for RMS modelling and analytics.
- Historically, this has been in capital management and capital markets risk-transfer products.
- Increasingly my work has been focussed on (quasi-) governmental bodies and is becoming more focussed on corporate usage of modelling in broader risk management activities.

WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Underinsurance is a major issue globally – in both developing and in developed economies. Facilitating access to well-priced capital to support risk transfer products and reduce volatility of loss is essential.
- Development of risk transfer products requires robust analytics to facilitate discussion around the level of risk.
- But insurance (and related products) is only one area of my interest as they are just one part of the broad risk management (RM) spectrum.
- Catastrophe analytics enable the capability to compare-and-contrast which RM ‘tools’ are most effective and efficient in reducing risk to an individual, organisation, government or society in general.

WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- I’m looking to collaborate with organisations with a strong analytical bent who are seeking innovative ways to protect economies from catastrophic damage;
- I hope to engage with experts in risk adaptation, mitigation and risk transfer.

WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- I have over 12 years’ experience working within the risk management industry having worked with re/insurance companies, brokers, investors, government ministries, NGOs and corporates.
- I have significant experience in the application of catastrophe analytics including in the development of risk transfer solutions and capital management mechanisms in both emerging and developed economies.

REQUESTS FOR CONTACT AFTER THE EVENT
Contact via email is preferred
<table>
<thead>
<tr>
<th>NAME</th>
<th>John Plevin</th>
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</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:John.blevin@gad.gov.uk">John.blevin@gad.gov.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>020 7211 3422</td>
</tr>
<tr>
<td>ORGANISATION</td>
<td>![Government Actuary’s Department Logo]</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**  
- I am an actuary at the Government Actuary’s Department  
- I work with a range of public sector organisations to think about financial risk  
- In particular I work with DFID and the World Bank, providing modelling, analysis, and advice around disaster risk financing  
- I also sit on an Institute and Faculty of Actuaries board which is overseeing the production of a paper considering catastrophe risk pooling mechanisms for extreme weather

**WHAT ARE YOUR INTERESTS IN THIS AREA?**  
I am interested in:  
- disaster risk management and financing both in the UK and in low-income countries  
- how financial instruments can be used to meet or even reduce liabilities in the event of a catastrophe  
- how actuaries, scientists, and policy makers can influence decision makers to put in place robust disaster risk finance strategies

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**  
I am keen to better understand what drives the decisions of governments, individuals, and organisations with respect to disaster risk management and financing

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**  
As an actuary I specialise in financial risk management. Strong technical backgrounds paired with broader understanding of risk and decision making makes actuaries well placed to:  
- build models and carry out analysis around financial scenarios  
- communicate complex ideas to a range of stakeholders  
- develop thinking in novel areas

**REQUESTS FOR CONTACT AFTER THE EVENT**  
Please feel free to contact me for an informal chat, or to engage more formally with me or my GAD colleagues
## NAME
JONATHAN REEVES

## EMAIL
jonathan.reeves@actionaid.org

## TELEPHONE
Skype: jonathan.reeves.aa

### ORGANISATION & LOGO
![actionaid](image)

### WHAT DO YOU DO?
I CONDUCT:
- PARTICIPATORY & ACTION RESEARCH
- POLICY ANALYSIS AND INFLUENCING

IN THE BROAD THEMATIC AREA OF RESILIENCE AND CLIMATE CHANGE, AND MORE SPECIFICALLY IN:
- RESILIENT, SUSTAINABLE & EQUITABLE AGRICULTURE, FOOD SYSTEMS AND LIVELIHOODS
- SOCIAL PROTECTION AND RISK FINANCE, INCLUDING INSURANCE

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
IMPACTS OF CLIMATE & DISASTER INSURANCE ON:
- EQUITY,
- SUSTAINABILITY & RESILIENCE
& MEANS TO MITIGATE ADVERSE EFFECTS, INCL. ALTERNATIVES

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- ASSESSMENT OF DISTRIBUTIONAL IMPACTS OF FINANCIAL SCHEMES
- ASSESSMENT OF INTERACTION BETWEEN INSURANCE & SOCIAL PROTECTION (STATE AND COMMUNITY)
- ASSESSMENT OF BEHAVIOURAL EFFECTS, ESP. ON SMALLHOLDERS, OF I) BEING INSURED; II) PREMIUM SUBSIDIES; III) BASIS RISK; IV) BUNDLING OF INSURANCE WITH LOANS & AGRICULTURAL INPUTS

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- PARTICIPATORY VULNERABILITY AND RESILIENCE ASSESSMENT
- EQUITY, RESILIENCE AND SUSTAINABILITY OF DIFFERENT FARMING SYSTEMS
- POWER, GENDER ANALYSIS

### REQUESTS FOR CONTACT AFTER THE EVENT
<table>
<thead>
<tr>
<th>NAME</th>
<th>Will Simonson</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:will.simonson@unep-wcmc.org">will.simonson@unep-wcmc.org</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>07906 341595</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>UN Environment World Conservation Monitoring Centre (UNEP-WCMC)</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**
- Working with governmental, non-governmental and private sector actors in promoting ecosystem-based adaptation and nature based solutions to climate change, DRR and other sustainable development challenges in the developing world

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Dependencies of communities and economic sectors on natural capital and ecosystem services for climate change adaptation and disaster risk reduction
- Assessing disaster risk on the basis of drivers of environmental degradation and tipping points of ecosystem service provision

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Disaster risk financing instruments (and systems that trigger their application) that can incorporate data on hazards related to environmental degradation and loss of ecosystem services

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Scientific and technical understanding of natural capital/ecosystem service dependencies
- Expertise in the development of decision support tools and policy guidance
- Extensive network of partners in Asia, Africa and South America

**REQUESTS FOR CONTACT AFTER THE EVENT**
- Would be interested to hear from potential collaborators on the above topics
<table>
<thead>
<tr>
<th>NAME</th>
<th>Bryony Townhill</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:bryony.townhill@cefas.co.uk">bryony.townhill@cefas.co.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>01502 524510</td>
</tr>
<tr>
<td>ORGANISTATION &amp; LOGO</td>
<td>![Cefas Logo]</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**

I am a Marine Climate Change Scientist, working particularly in small island developing states to assess marine and coastal risks and vulnerabilities to climate change and disasters, and to help community adaptation and preparedness.

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**

Cefas are working in the Caribbean developing an assessment methodology for parametric insurance and fisheries adaptation. We also are researching the effects of storminess on UK fishing.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**

Anyone working in marine or coastal areas and with insurance in particular. Also any financial products, other than insurance, which need marine and coastal input.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**

Cefas has a wide range of aquatic research capabilities, including risk assessment, modelling and climate change impact and adaptation research.
<table>
<thead>
<tr>
<th>NAME</th>
<th>Christina Schubert-Fiebig</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:Christina.Schubert@giz.de">Christina.Schubert@giz.de</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+49 228 4460-1671</td>
</tr>
<tr>
<td>ORGANISTRATION &amp; LOGO</td>
<td>InsuResilience Secretariat</td>
</tr>
</tbody>
</table>

### WHAT DO YOU DO?
- We support the development of pro-poor and demand-led climate risk insurance solutions in developing countries and enhances the visibility of the InsuResilience initiative.
- We foster communication and cooperation among all the relevant actors of the InsuResilience initiative, facilitate knowledge management of the initiative, ensure progress, and target achievement.
- We bring together all actors: donors and partner countries as well as actors from politics, the insurance sector, civil society and academia across the globe.

### WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- The InsuResilience initiative has a unique focus on providing climate risk insurance for poor and vulnerable people in developing countries.
- The Secretariat wants to reveal data and information on its schemes to be as transparent as possible.
- InsuResilience supports a number of projects and programs related to climate risk insurance across the globe.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- We always look for new ideas for climate risk insurance.
- We are looking for knowledge in setting up and coordinating a Monitoring & Disclosure framework.

### WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- InsuResilience is a multi-stakeholder initiative that builds on close partnerships between the InsuResilience partners and developing countries.
- InsuResilience utilizes a combination of direct and indirect climate risk insurance schemes with funds and projects that foster resilience against the effects of extreme weather events.

### REQUESTS FOR CONTACT AFTER THE EVENT
You can find more information about InsuResilience here: [www.insuresilience.org](http://www.insuresilience.org)
Red Cross Red Crescent Climate Centre

WHAT DO YOU DO?
Climate Risk Management.

WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
1. Forecast-based Financing
2. Adaptive social protection
3. Finance & the most vulnerable

WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
1. Systems analysis
2. Estimating and communicating uncertainty
3. A portfolio of risk financing strategies across timescales (long-term resilience, short-term Forecast-based Financing, insurance, and residual humanitarian relief)

WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
1. Co-design with the most vulnerable
2. Forecasts
3. Link between development and humanitarian finance

REQUESTS FOR CONTACT AFTER THE EVENT
<table>
<thead>
<tr>
<th>NAME</th>
<th>Valentina Noacco</th>
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<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:valentina.noacco@bristol.ac.uk">valentina.noacco@bristol.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>0117 3315028</td>
</tr>
<tr>
<td>ORGANISTATION &amp; LOGO</td>
<td>University of Bristol</td>
</tr>
</tbody>
</table>

1) WHAT DO YOU DO?
- I am a Research Associate in Applied Sensitivity Analysis in Civil Engineering department, Water and Environment Research group.
- My research uses global sensitivity analysis to better capture the risks and the uncertainties embedded in models used in the insurance sector, with more structured approaches to validate models and test impact of assumptions on the model results.

2) WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?
- Assessing models used in the insurance industry.
- Opportunities for new integrated models (linking hazard and human decision making) to utilise our expertise in mathematical modelling.
- Develop models for microinsurance that take into account cognitive bias of the client and the factors influencing decision-making in the face of uncertainty.
- General interest in hydrology (to use research group experience in this area) - especially integration of hydro hazards (floods and droughts), rather than looking at either in isolation.

3) WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?
- Looking for people interested in talking about opportunities in the areas listed above in 2) – such as integrated models, linking catastrophe and human decision making/cognitive bias.

4) WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?
- Expertise in Global Sensitivity Analysis (GSA) and on the GSA toolbox SAFE.
- Develop mathematical models to gain hydrological understanding using MATLAB and R.
- Estimate model parameters and quantify uncertainty using advanced statistical models.
**NAME**  Ayesha Siddiqi  
**EMAIL**  ayesha.siddiqi@rhul.ac.uk  
**TELEPHONE**  
**ORGANISATION**  Royal Holloway University of London  
**AND LOGO**  

<table>
<thead>
<tr>
<th>WHAT DO YOU DO?</th>
<th>WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?</th>
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</table>
| * Lecturer in Human Geography at Royal Holloway University of London  
* I study the political impacts of climate and ‘natural’ disasters on vulnerable communities in the Global South  
* This has included considerable work in the area of G2P (Government to Person) transfers and other development interventions in the aftermath of disasters  
* I have extensive experience of doing fieldwork in difficult humanitarian and disaster contexts  
* Countries I have worked in include: Pakistan, Philippines, Vietnam, Morocco, Malawi, Bolivia and Peru | * I am interested in working on developing or extending micro-finance solutions that are socially grounded and culturally sensitive to communities vulnerable to extreme hydro-climatic or geological hazards in Asia, Africa or South America  
* Given recent floods and typhoons in large urban centres such as Tacloban & Lime, I would be particularly interested in exploring innovative financial solutions for the urban poor  
* I am equally interested in understanding mechanisms to make public-private partnerships in this area work  
* Equally, I am also interested in exploring the ways large state social programmes can be tied in to disaster risk finance in countries in the Global South |

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<th>WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?</th>
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</table>
| * I am looking to work with an academic and/or practitioner partner with skills in financial inclusion particularly microfinance, microinsurance or another payment system  
* I think examining something that working well in one region with a view to adapting and extending it to another, could be as enjoyable as developing something new  
* Some knowledge or experience of working on payment systems for the urban poor  
* A technically robust approach that is people-centred and builds on community experience and information systems | * Bring a local community & socially grounded perspective to hard finance  
* Knowledge and skills in disaster research in development and humanitarian contexts  
* Network in academia and social enterprises of particular relevance to this call  
* Research partners in Pakistan, Philippines, Tajikistan, Vietnam, Morocco, Malawi, Bolivia and Peru  
* Working on a current AHRC Global Challenges Project on typhoons and security in the Philippines that has obvious overlaps with this call  
* Able to easily grasp and write about theory, policy and implementation |

**REQUESTS FOR CONTACT AFTER THE EVENT**
<table>
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<tr>
<th>WHAT DO YOU DO?</th>
<th>WHAT ARE YOUR INTERESTS / IDEAS IN WWF is interested in:</th>
</tr>
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<tbody>
<tr>
<td>• WWF has worked in the finance sector for more than a decade to integrate</td>
<td>1. Mainstreaming water considerations, especially</td>
</tr>
<tr>
<td>environmental risk into mainstream finance, as well as ensure</td>
<td>the impacts of climate change – floods and</td>
</tr>
<tr>
<td>environmental protection is integrated into development plans of</td>
<td>droughts – into investor and lender decisions. This</td>
</tr>
<tr>
<td>governments and business plans of companies</td>
<td>will include expanding data for WWF’s Water Risk</td>
</tr>
<tr>
<td>• In water, WWF is working with FIs and their corporate and public</td>
<td>Filter down the supply chain for potentially the</td>
</tr>
<tr>
<td>sector clients to address material water risks.</td>
<td>top 1000 global companies and increasing investor</td>
</tr>
<tr>
<td>• WWF partners with multinationals in key sectors (food &amp; beverage, mining,</td>
<td>awareness of their exposure and use of risk tools.</td>
</tr>
<tr>
<td>apparel etc.) and river basins to increase de-risk water issues in their</td>
<td>2. Developing guidance for lenders that provide debt for</td>
</tr>
<tr>
<td>supply chain.</td>
<td>corporates or projects to decrease water risk at a</td>
</tr>
<tr>
<td>• WWF is now creating a wider pool of lenders, investors, and donors reduce</td>
<td>river basin level.</td>
</tr>
<tr>
<td>water related risk, both for an individual company or piece of</td>
<td>3. WWF would like to create case studies and engage with</td>
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<tr>
<td>infrastructure (e.g. hydropower) by identifying the right investment</td>
<td>financial institutions to design green infrastructure</td>
</tr>
<tr>
<td>criteria and by encouraging collective action to reduce external risk</td>
<td>investments that have an acceptable risk-return</td>
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<tr>
<td>to the asset class.</td>
<td>profile and a positive impact on climate resilience</td>
</tr>
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<td></td>
<td>for communities and ecosystems.</td>
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<tr>
<th>WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?</th>
<th>WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?</th>
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<tbody>
<tr>
<td>• Academic partners that can support data analysis of</td>
<td>• WWF has the unique ability to have global-to-local</td>
</tr>
<tr>
<td>supply chains and assets of global companies in order</td>
<td>capacity across a range of geographies- providing</td>
</tr>
<tr>
<td>to assess climate risks exposure (floods and droughts)</td>
<td>tools and approaches that speak to the mainstream</td>
</tr>
<tr>
<td>of these companies</td>
<td>set of investors.</td>
</tr>
<tr>
<td>• Investor/lender partners that are interested in working</td>
<td>• WWF has a global team of experts working on</td>
</tr>
<tr>
<td>on FI tools and approaches to water risk</td>
<td>Sustainable Finance Solutions (both at product and</td>
</tr>
<tr>
<td>• Financial institutions (investors. Lenders and donors),</td>
<td>fund level)</td>
</tr>
<tr>
<td>companies and government interested in developing</td>
<td>• WWF’s Water Risk Filter (WRF), developed in</td>
</tr>
<tr>
<td>green infrastructure projects in river basins and</td>
<td>partnership with KfW/DEG to assess water risks for</td>
</tr>
<tr>
<td>using innovative finance instruments, which can be</td>
<td>companies and banks, is adding value to existing</td>
</tr>
<tr>
<td>used as case studies for improved natural disaster</td>
<td>tools used by investors.</td>
</tr>
<tr>
<td>resilience and water management.</td>
<td>• WWF’s experts are members and chairs of global</td>
</tr>
<tr>
<td>• Local non-governmental organizations in the southern</td>
<td>boards working on green infrastructure for</td>
</tr>
<tr>
<td>hemisphere that can mobilize communities and identify</td>
<td>watershed management and corporate water risk.</td>
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<tr>
<td>investment needs in green infrastructure</td>
<td>• With 100 colleagues working in 20 river basins,</td>
</tr>
<tr>
<td></td>
<td>WWF has a wealth of knowledge on local water</td>
</tr>
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<td></td>
<td>issues, water infrastructure, and how water</td>
</tr>
<tr>
<td></td>
<td>interfaces with economic development.</td>
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REQUESTS FOR CONTACT AFTER THE EVENT
Please contact for partnership opportunities on this funding call or to discuss other ways we may work together.
<table>
<thead>
<tr>
<th>NAME</th>
<th>Jorge Diaz</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:jdiazteja@itesm.mx">jdiazteja@itesm.mx</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>+52 55 53784740</td>
</tr>
<tr>
<td>ORGANISATION &amp; LOGO</td>
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**WHAT DO YOU DO?**
- Research related to Disaster Risk Management
- Technical Assistance on Climate Change
- Project Management and Report Presentation
- Capacity Building and Learning Methodologies
- Partnership Development
- Local Community Engagement

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- SHARE GLOBAL COMPARATIVE CASE-STUDIES
- MULTI-DISCIPLINARY RESEARCH & PRACTICE
- CITY RECONSTRUCTION PROJECTS REVIEW
- SCALE UP THE INCIDENT COMMAND SYSTEM
- DEVELOP A TOOLBOX FOR DRM PLANNING
- UNDERLYING CAUSES & CASCADING EFFECTS

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- EMBED DRM & CLIMATE CHANGE IN PLANNING
- LOCAL COMMUNITY EMPOWERMENT GAPS & STRENGTHS WITHIN CURRENT PRACTICES
- DEVELOP CLUSTERS OF COOPERATION RISK INSURANCE DEVELOPMENT LIVELIHOOD RESTORATION

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- CONCEPTUAL, EMPIRICAL AND PRACTICAL
- DEVELOPED AND DEVELOPING WORLD NETWORKING ON A GLOBAL SCALE RESILIENCE BUILDING-PERSONAL EXPERIENCE TRANSPORTATION PLANNING WITHIN DRM INFOGRAPHIC FOR REPORT PRESENTATION

**REQUESTS FOR CONTACT AFTER THE EVENT**
<table>
<thead>
<tr>
<th>NAME</th>
<th>Professor Arjan Verschoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:a.verschoor@uea.ac.uk">a.verschoor@uea.ac.uk</a></td>
</tr>
<tr>
<td>TELEPHONE</td>
<td>01603 592806</td>
</tr>
<tr>
<td>ORGANISATION</td>
<td>University of East Anglia</td>
</tr>
</tbody>
</table>

**I’M A BEHAVIOURAL DEVELOPMENT ECONOMIST WORKING ON AGRICULTURAL INVESTMENT AND AGRICULTURAL INSURANCE IN DEVELOPING COUNTRIES**

**MY INTERESTS/IDEAS IN THIS AREA ARE:**

Agricultural insurance that combines protection against covariate shocks affecting whole communities (e.g. droughts and natural disasters) and idiosyncratic shocks (e.g. local infestation of crops). Weather index insurance products would be developed that are offered to farmers’ groups with good risk-sharing mechanisms in place, e.g. village savings and loans associations. In this way, so-called basis risk – the mismatch between insurance against community-wide calamities and individual shocks – may be minimised. The study country would be Uganda where we already have established the partnerships with insurance companies, micro-finance institutions, and umbrella organisations of farmers’ groups required for developing and testing the products.

**SKILLS, KNOWLEDGE OR APPROACHES I AM LOOKING FOR**

- SPECIALISED KNOWLEDGE IN THE MODELLING OF WEATHER-RELATED HAZARDS AND NATURAL DISASTERS; AND HOW THESE AFFECT THE INSURANCE CONTRACT (PREMIUM, INDEX TRIGGER, ETC)

**SKILLS, KNOWLEDGE AND APPROACHES I CAN OFFER?**

- COMMERCIAL AND CIVIL SOCIETY PARTNERS IN UGANDA
- IDEAS FOR INDEX INSURANCE PRODUCTS BACKED UP BY RESEARCH AMONG 2,000 FARMERS
- ECONOMIC EXPERIMENTS FOR TESTING PRODUCT SPECIFICATIONS
- RECENTLY ESTABLISHED DEDICATED RESEARCH SERVICES INSTITUTE IN EASTERN UGANDA

**UNFORTUNATELY I AM NOT ABLE TO ATTEND THE EVENT BUT FEEL VERY FREE TO CONTACT ME BY EMAIL**
<table>
<thead>
<tr>
<th>NAME</th>
<th>Dr Ian Pattison</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAIL</td>
<td><a href="mailto:i.pattison@lboro.ac.uk">i.pattison@lboro.ac.uk</a></td>
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<td>+44 1509 228737</td>
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<tr>
<td>ORGANISATION &amp; LOGO</td>
<td>Loughborough University</td>
</tr>
</tbody>
</table>

**WHAT DO YOU DO?**
- Catchment scale flood management / mapping using numerical modelling and fieldwork.
- Catchment Hydrology, Natural Flood Management (NFM) / Sustainable Urban Drainage Systems
- Currently, PI for NERC grant investigating impact of soil compaction on flooding
- Flood Forecasting data based modelling and statistics in Mexico (EPSRC GCRF grant)

**WHAT ARE YOUR INTERESTS / IDEAS IN THIS AREA?**
- Barriers of flood management on a wider scale (Natural Flood Management) (making mainstream).
- How can land owners / farmers be compensated / incentivised to implement and maintain NFM
- Raising flood management on land planning agenda for urban resilience
- Links between floods and droughts in Agricultural industry

**WHAT SKILLS, KNOWLEDGE OR APPROACHES ARE YOU LOOKING FOR?**
- Financial instruments to enhance flood resilience (Payment for Ecosystem Services)
- Social science methods for engaging with stakeholders to understand barriers and overcome them.

**WHAT SKILLS, KNOWLEDGE OR APPROACHES CAN YOU OFFER?**
- Flood Modelling (numerical, statistical) at a range of spatial scales (urban and rural)
- Understanding of the physical drivers of flood risk.
- Case studies and stakeholder contacts in the UK and Mexico
- GIS mapping of risk

**REQUESTS FOR CONTACT AFTER THE EVENT**