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**COUNTRY/REGION: AFRICA**

**PROGRAMME TITLE: REGIONAL DISASTER RISK AND VULNERABILITY REDUCTION**

**CAPACITY DEVELOPMENT (PERIPERI U)**

**AGREEMENT AID-OFDA-G-16-00115**

**QUARTERLY REPORT FOR THE FIRST QUARTER OF 2017-2018 REPORTING PERIOD**

01 April – 31 June 2018

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## GENERAL ACCRONYMS

<b>ADPC</b>	Asian Disaster Preparedness Center
<b>BRICS</b>	Brazil, Russia, India, China and South Africa
<b>BSc</b>	Bachelor of Science
<b>CBDRR</b>	Community Based Disaster Risk Reduction
<b>CDI</b>	Centro de Documentação e Inovação (Documentation and Innovation Center)
<b>CGHS</b>	Centre for Global Health Studies
<b>CILSS</b>	Comité permanent inter-État de lutte contre la sécheresse au Sahel
<b>CSIR</b>	Council for Scientific and Industrial Research
<b>DM</b>	Disaster management
<b>DMGRC</b>	Multidisciplinary Disaster and Risk Management Master Programme
<b>DRM/DRR</b>	Disaster Risk Management/Disaster Risk Reduction
<b>ENSTP</b>	National Higher School for public Works
<b>FaTHUM</b>	Forecasts for Anticipatory Humanitarian Action
<b>FAO</b>	Food and Agricultural Organisation
<b>GNDR</b>	Global Network of Civil Society Organisations for Disaster Reduction
<b>GIMI</b>	Galilee International Management Institute
<b>GRAF</b>	Global Risk Assessment (Framework)
<b>GREThA</b>	Groupe de Recherche en Economie Theorique et Appliquee
<b>HEI</b>	Higher Education Institution
<b>ICA</b>	Integrated Context Analysis
<b>IFAD</b>	International Fund for Agricultural Development
<b>IGAD</b>	Intergovernmental Authority on Development
<b>INGC</b>	Instituto Nacional de Gestão de Calamidades (National Institute of Disaster Management)
<b>IPC</b>	Integrated Food Security Phase Classification
<b>MA</b>	Master of Arts
<b>MDM</b>	Masters in Public Health Disaster Management
<b>MDRM</b>	Master of Disaster Risk Management
<b>MoU</b>	Memorandum of Understanding
<b>MPhil</b>	Master of Philosophy
<b>MPPSPF</b>	Ministry of Population, Social Protection and Women Promotion
<b>MSc</b>	Master of Science
<b>NDMC</b>	National Disaster Management Centre
<b>NDRMC</b>	National Disaster Risk Management Commission
<b>NEPAD</b>	New Partnership for Africa's Development
<b>(NEPAD) ARCH</b>	(New Partnership for Africa's Development) African Resilience Coordination Hub
<b>NGO</b>	Non-Governmental Organisation
<b>NIH</b>	National Institutes of Health
<b>NIPA</b>	National IT Industry Promotion Agency
<b>OIF</b>	Organisation Internationale de la Francophonie'
<b>ORC</b>	Online Resource Centre
<b>PARM</b>	Platform for Agricultural Risk Management

<b>PDF</b>	Portable Document Format
<b>PDNA</b>	Post Disaster Needs Assessment
<b>PGDip</b>	Post Graduate Diploma
<b>PhD</b>	Doctor of Philosophy
<b>PIROI</b>	Plate-forme d'Intervention Régionale de l'Océan Indien
<b>TCU</b>	Tanzania Commission for Universities
<b>TRCS</b>	Tanzania Red Cross Society
<b>UN</b>	United Nations
<b>UNDP</b>	United Nations Development Programme
<b>UNISDR</b>	United Nations Office for Disaster Risk Reduction
<b>USAID</b>	United States Agency for International Development
<b>USD</b>	United States Dollar
<b>WFP</b>	World Food Program
<b>WHO (AFRO)</b>	World Health Organisation (Regional Office for Africa)

## **PARTNER ACCRONYMS**

<b>ABU</b>	Ahmadu Bello University, Nigeria
<b>ARU</b>	Ardhi University, Tanzania
<b>BDU</b>	Bahir Dar University, Ethiopia
<b>UGB</b>	Gaston Berger University, Senegal
<b>Makerere</b>	Makerere University, Uganda
<b>Moi</b>	Moi University, Kenya
<b>Periperi U</b>	Partners Enhancing Resilience for People Exposed to Risks
<b>RADAR</b>	Research Alliance for Disasters and Risk Reduction
<b>SU</b>	Stellenbosch University, South Africa
<b>Tanà</b>	University of Antananarivo, Madagascar
<b>UBUEA</b>	University of Buea, Cameroon
<b>UDM</b>	Universidade Técnica de Moçambique, Moçambique
<b>UG</b>	University of Ghana, Ghana
<b>USTHB</b>	University of Sciences and Technology – Houari Boumediene, Algeria

## 1. OVERVIEW

This report describes the progress of the Periperi U Consortium of Universities from 01 April - 31 June 2018, as required in terms of USAID Agreement AID-OFDA-G-16-00115. It describes the consortium's progress with specific reference to the eight key focus areas of the Periperi U programme. These eight key focus areas fall within two sub-sectors, namely:

### **Sub-sector 1: Global advocacy and engagement in disaster risk reduction – focus on higher education**

- **Focus Area 1:** Strategic advocacy to define higher education as a crucial player in DRR education, capacity building and research, reframing HEI engagement from its current peripheral, implicit and under-utilised position
- **Focus Area 2:** Identification and mobilisation of funding mechanisms for both developing country HEIs to advance DRR education and research and for students (especially women)
- **Focus Area 3:** Promotion of disaster risk-related education and research as legitimate domains in contemporary scholarship in Africa

### **Sub-sector 2: Integration/Enhancement of DRR within Education and Research Programmes**

- **Focus Area 1:** Institutional effectiveness, maturation and sustainability of the Periperi U partnership including stability of funding arrangements
- **Focus Area 2:** Strategic scaling-up of DRM/DRR educational activities across Africa to extend capacity-building, technical support and disaster risk research services
- **Focus Area 3:** Institutional embedding of active disaster risk reduction scholarship in each partner including sustainability of staffing and financing
- **Focus Area 4:** Establishment and/or enhancement of core disaster risk activities in each partner, including academic programmes, short courses, risk research and community outreach at local/national scales to advance understanding risk and disaster risk governance as well as strengthen preparedness and resilience-building.
- **Focus Area 5:** Strategic engagement by each partner to advance robust DRM policy and practice from local to global scales

Tables appended at the end of this report also provide details on activities undertaken by individual partners from 01 April - 30 June 2018. During this period, 204 staff contributed to research, teaching and/or administrative activities across the consortium. 1 587 students were enrolled across 37 academic programmes and 15 modules across the 12 partner universities. Four short courses, convened by three partners, reached 118 people. Periperi U consortium members also attended and engaged in 32 strategic and technical meetings held at international, regional, national and local levels that were attended by an estimated 1 700 people.

## 2. SUB-SECTOR 1: Global advocacy and engagement in disaster risk reduction – focus on higher education

At global scale, the Periperi U secretariat continued to advocate for a more purposive profile for higher education efforts in advancing disaster risk reduction. This was reflected in the submission of a concept note for the 2019 Global Assessment of Risk Report, titled *Beyond fragility: how high-value human capital advances risk reduction and resilience in fragile and high-risk African countries*, which was approved for full paper submission.

### 3. SUB-SECTOR 2: Integration/Enhancement of DRR within education and research programmes

#### 3.1 Focus Area 1: Institutional effectiveness, maturation and sustainability of the Periperi U partnership including stability of funding arrangements

The consortium's staffing decreased slightly from the last quarter with 204 teaching/research/ support staff engaged across the 12 participating universities (including 52 women, 25.5% of those engaged). There was considerable variability in staffing levels among partners, ranging from five staff members at **UG** to 32 at **Makerere**. This had implications for the scale of engagement of the respective institutions, including student enrolment and capacity for short courses and other extension activities.

Reduced staffing levels were primarily attributable to lower numbers of contributing staff (such as guest lecturers and support staff) who had been engaged to teach specific academic course components or assist in research. **Makerere** reported the largest decrease, with contributing staff numbers decreasing from 39 to 13.

UG and UDM experienced institutional transitions during this quarter. **UG** reported the establishment of succession arrangements for its outgoing and incoming project coordinators. Similarly, **UDM** staff relocated to new office space in accordance with their move from the Faculty of Engineering to the Centro de Documentação e Inovação<sup>1</sup> (CDI). The CDI is a new institute responsible for coordinating and overseeing **UDM's** research. The new venue provides greater office space for **UDM** staff as well as classrooms for academic teaching and short courses. **UDM** also reported continued assessment by the Ministry of Higher Education to accredit its academic programmes and short courses. A positive assessment outcome from the Ministry's accreditation would provide **UDM** with the opportunity to apply for funding from government to support its academic activities.

#### 3.2 Focus Area 2: Strategic scaling-up of DRM/DRR educational activities across Africa to extend capacity-building, technical support & disaster risk research services.

A key activity this quarter for **ARU, BDU, Makerere, SU** and **UBuea** was planning for the 'Periperi U Risk Methods School', a summer school-styled event from 10 -22 September to be hosted by **ARU** in Dar es Salaam. During the reporting period, five Periperi U partners collaborated intensively to develop the School's curriculum, and to put in place the operational architecture for the event (<http://www.riskreductionafrica.org/events/periperi-u-risk-methods-school.html>).

Planning activities involved in-depth consultation with **SU's** African Doctoral Academy (ADA), as well as WHO and United Nations Development Programme (UNDP). In this context, both UN agencies will be offering courses at the School. The WHO has been working with staff from **Makerere** to develop two courses under the health risk and vulnerability stream. Similarly, the African Doctoral Academy (based at **SU**) has assisted in the design and content of courses under the research methods stream. UNDP will offer a dedicated five-day course on Post Disaster Needs Assessment.

#### 3.3 Focus Area 3: Institutional embedding of active disaster risk reduction scholarship in each partner including sustainability of staffing and financing

Periperi U partners actively seek out opportunities for staff capacity development. The value of these human capital investments was clearly highlighted this past quarter by the **UBuea's** Periperi U project manager's participation in a Volcano Monitoring Training Course at the Centre for the Study of Active Volcanoes in Hilo, Hawaii (from 27 May – 21 July 2018). The course's timing (fortuitously) coincided with Mount Kilauea's most recent eruption and ongoing volcanic activity (since April 2018). Not only has this experience provided **UBuea's** project manager an opportunity to monitor and study an active

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<sup>1</sup> Documentation and Innovation Center

volcano, but also given her the chance to observe first-hand the emergency response to the eruptions (including the evacuations of hundreds of local residents).

**3.4 Focus Area 4: Establishment and/or enhancement of core disaster risk activities in each partner, including academic programmes, short courses, risk research and community outreach.**

**3.4.1 Academic Programmes**

***Consortium-wide enrolment***

1 587 students (885 males and 654 females) were enrolled in academic programmes, modules and courses across the 12 Periperi U universities during this reporting period, with student numbers remaining consistent. For many partners, this also involved concluded their academic programmes and courses with students writing examinations and finalising theses. **BDU** reported that 28 students (12 men and 16 women) graduated with DRM-related undergraduate and postgraduate degrees in June 2018.

***Developing and restructuring curricula***

Over this period, five consortium members reported either revising their disaster risk curricula or developing new academic programmes. **ARU** applied three complementary strategies to strengthen its DRM offerings. These included:

- convening a stakeholders' workshop for critical feedback on the curricula of its existing DRM courses as well as its proposed MSc degree on the 'Environment, Climate Change and DRM'. These inputs were included in the final curriculum before submission to the University approving organs and later to the Tanzania Commission for Universities (TCU) for accreditation. **ARU** plans to implement the new curriculum in the 2019/20 academic year (to start in October 2019).
- introduction of a new undergraduate elective course, 'DM 101: Introduction to DRM'.
- purposive introduction of disaster risk related elements across diverse undergraduate degree programmes at the university. This has increased awareness and knowledge of DRM/DRR themes and issues among students in other faculties.

**BDU** continued to develop curricula for its proposed DRM-related Masters, while its proposed disaster risk science PhD level programme is currently under revision. It is still in the process of establishing a satellite campus in Addis Ababa to offer disaster risk related undergraduate and postgraduate programmes. However, this has been delayed due to institutional challenges.

At **UG**, meetings took place with University Management and the Head of Department of Geography and Resource Development to approve the development and launch of a "fully-fledged programme in DRR". **UG** expects imminent feedback on the approval for this programme. Similarly, **UDM** is still awaiting approval from the Ministry of Science and Technology for its MSc Course on Environmental Engineering and Risk Management.

On 25 May, **UBuea's** Periperi U coordinator consulted with the Director of Civil Protection in Yaoundé and the Head of the Department of Earth Sciences of the University of Yaoundé on the structure and mode of delivery of its proposed MSc degree in Disaster Risk Management and Safety. On 15 June 2018, **UBuea's** Academic Planning Committee approved the degree. The Department of Environmental Science will host the new programme, expected to launch next quarter, at the start of the 2018/2019 academic year.

***Internships and student funding***

This quarter saw the end of one series of student internships at **ARU** and the beginning of another at **GBU**. In April, 11 **ARU** students completed internships they had begun at various local and international institutions across Tanzania in December 2017. (This was established by **ARU** in collaboration with the Humanitarian Leadership Academy of Kenya, the Tanzania Red Cross Society



(TRCS) and the Universities of Dar es Salaam, and Dodoma). At the same time, four **GBU** students (three males and one female) commenced internships with the WFP in Senegal. This took forward the implementation of a joint MoU between **GBU** and the WFP signed during the previous quarter.

**SU** attended the National Disaster Management Centre's (NDMC) first quarterly meeting of the National Disaster Management Bursary steering committee. This bursary aims to support deserving students in pursuing under-graduate and post-graduate studies in disaster risk management and related fields.

### 3.4.2 Short Courses

Nine partners reported specific short course-related activities. These included actual short course delivery as well as consultations around new training collaborations. Several also noted that because this quarter involved end of semester/end of academic year exams, graduations and vacation scheduling, competing pressures had made it difficult to organise and implement short courses.

**GBU, Moi** and **USTHB** held short courses, reaching 118 people (78 men and 40 women).

**GBU** was involved in two courses. The first required **GBU** staff to present at an 'Agricultural Risk Management in the Sahel' workshop in Niamey, Niger from 22 to 26 April 2018 (see section 3.5.3). The second, directly hosted by **GBU** on *Integrated Context Analysis (ICA)*, was held from April 30 to May 4 2018. This aimed to train **GBU** staff members and students (18 males and nine females) involved in a collaborative research programme being conducted between **GBU** and WFP.

**Moi** hosted one short course on Community Based Disaster Risk Reduction (CBDRR) for community health workers and village elders from 4 - 15 June 2018 at Port Victoria in Busia, Kenya, a highly flood prone area.

**USTHB** convened a single day short course on 15 April 2018 that focused on progress in implementing the Sendai Framework for Disaster Risk Reduction 2015-2030.

On 11 April, **SU** held its annual Public Open Seminar as part of its Honours teaching programme. This year's seminar titled 'Urban Water Crisis,' focused on the Western Cape drought. It brought a panel of experts to address the current crisis in the region from their respective disciplinary perspectives. Approximately 100 people attended, including students, invited guests from disaster management and the general public.

Since 2017, Periperi U has actively explored scope for collaboration with NEPAD (New Partnership for Africa's Development) and the World Food Program (WFP) through the NEPAD ARCH (African Resilience Coordination Hub) Programme. This initiative, which seeks to advance agricultural risk management in risk-prone African countries, specifically prioritises partnerships with Africa's HEIs. Between 15-17 May, Periperi U co-facilitated a technical meeting between the consortium and representatives from NEPAD and WFP. This consultation, hosted by Makerere University in Kampala, Uganda, focused on the role that Periperi U universities might play in introducing and training in WFP's '3PA' process,<sup>7</sup> as well as contributing to research and overseeing programme monitoring and evaluation.

In addition, during this quarter, **Makerere, BDU, UG** and **ABU** explored new training collaborations. Specifically:

- **Makerere** reported ongoing collaboration with the World Health Organization's African Regional Office (WHO AFRO) finalise its short course programme for Rapid Response Training. This aims to strengthen in-country capacity to investigate, detect and provide an early response for public health-related emergencies. The inaugural training course (35 participants) is planned for 12-20 July 2018.
- **BDU** participated in developing the curriculum for an agricultural risk management short course held between 29 May - 2 June 2018, organized by Platform for Agricultural Risk Management (PARM), International Fund for Agricultural Development (IFAD) and Hawassa University.

- **UG** reported discussions with Ghana’s National Fire Service and the Fire Service College to potentially contribute to its firefighting and rescue training programmes, which train fire and rescue personnel from across the West African region.
- **ABU** established a memorandum of understanding (MoU) with the Galilee International Management Institute (GIMI) in Israel to collaborate on teaching on the theme of Urban Conflicts to students at both institutions. ABU plans to discuss the logistics of implementing these courses with GIMI in the next quarter.

**Tanà** and **UDM** noted plans for short courses during the next quarter. **ABU** reported challenges in short course delivery - that despite their efforts to advertise short courses to government departments, local authorities and private agencies - the response had been very poor. In response, **ABU** staff is focusing on “repackaging “and redesigning their short courses to make these more accessible

### 3.4.3 Risk research and Publications

#### ***Periperi U staff research and Publications***

Strengthening understanding of disaster risk represents a central priority for Periperi U. This was reflected through a diversity of faculty research initiatives from local to national levels, as well as published, peer-reviewed articles.

These efforts included projects such as **USTHB’s** continuing collection and analysis of data to establish a nationwide loss and damage database for the National Delegation for Major Risks of Algeria. Similarly, **Makerere** continued its data analysis for two projects concerning refugee health in the west Nile district of Adjumani. These focused on the integration of refugee and host health services, as well as infant and young child feeding practices among refugees. **ARU** also reported progress in its four main research projects. These included:

- Business development in disaster prone areas: What do we know and what can we do?
- Resilience Techniques Cascading Water Effects in Informally Urbanized Hilly Terrains: The Case of Makongo & Goba in Dar es Salaam Tanzania.
- Economic evaluation of ecosystem services and disservices in flood prone areas in Dar es Salaam: The case study of Magomeni Suna & Mabwepande settlements.
- Assessment of Potential Disaster Risks from Consumption of Contaminated Borehole Water in Unplanned Settlements: The Case of Dar es Salaam City.

Several partners reported preparations for new research projects planned to start next quarter. **ABU** received approval from its University Council to conduct a university-wide disaster risk assessment and DRR plan that include its neighbouring communities. **SU** advised that it finalising a research collaboration on a post-event assessment of the 2017 Knysna Fires. This ex post assessment is a collaborative project that draws together expertise from the CSIR and **SU’s** Engineering department to investigate the fires – one of the largest fire events ever affecting South Africa, that destroyed hundreds of dwellings and forced thousands to be evacuated and temporarily displaced.

**Tanà** also made progress in shaping its future research priorities, which will revolve around micro-finance, resilience and community development. During this quarter, **Tanà** researchers approached the national coordinator of the Madagascar Inclusive Finance institution within the Ministry of Finance, for support and collaboration for its research activities which are scheduled to begin next quarter.

**Makerere** and **SU** produced two research outputs this quarter. These were respectively titled ‘*Cholera Epidemic in South Sudan and Uganda and Need for International Collaboration in Cholera Control*’ and ‘*Installation of Smoke Alarms in an Informal Settlement Community in Cape Town, South Africa*’. A further six articles (co)authored by staff members at **Makerere**, **Tanà**, **UBuea** and **USTHB** were still under review and/or awaiting publication at the time of reporting.

### **Student Research**

The majority of student research and thesis projects have continued from the previous quarter. These included 217 post-graduate students, of whom 18 were PhD candidates. Approximately 35 students completed their research and had handed in their dissertations or were awaiting examiner feedback. At the end of June 2018, a **USTHB** PhD student defended his PhD thesis.

While research themes varied widely, recurrent topics focused on investigating risks to food security and livelihoods, health risk issues, risks and vulnerability of urban communities and infrastructure. PhD research topics favoured urban risks including earthquake engineering and flood risk reduction.

#### **3.4.4 Community Outreach**

**Makerere, Moi** and **UDM** reported community outreach activities this quarter. **Makerere's** Masters of Public Health Disaster Management (MDM) students began their placements across the country within various organisations, including the Ugandan Red Cross Society and public hospitals. This community service aimed to assist organisations in health risk related issues as well as advance the students' skills and capacities.

As noted earlier, second year students in **Moi's** College of Health Sciences visited various communities in Western Kenya to conduct 'community diagnoses'. This provided an opportunity to investigate disaster risk related issues, identify hazards and vulnerabilities, and understand locally applied risk reduction measures. The students were tasked to use this information to assist communities identify solutions to address their risks and enhance their resilience.

Similarly, students taking part in **SU's** Honours module students conducted an evaluative study of the implementation of Stellenbosch University's Drought Response plan in the student residences. The students presented their findings to the university's Facilities Management division and handed in mid-term research reports that highlighted poor communication of drought mitigation measures and impacts between the university and students. This research and related presentations assisted Facilities Management to improve its communication strategies to ensure students and staff are better and more frequently informed on water saving measures and the impact of these initiatives.

While not actively engaging in any outreach with the farming communities of Manjacaze during this period, **UDM** continued to monitor the performance and sustainability of the irrigation systems set up to ensure everything was still operating efficiently.

### **3.5 Focus Area 5: Strategic and Technical engagement by each partner to advance robust DRM policy and practice from local to global scales**

#### **3.5.1 International engagements**

Four Periperi U partners participated in international processes. From April 9-11 2018, **Makerere's** Periperi U coordinator attended and participated in the "Advancing Health Research in Humanitarian Crises" workshop in Bethesda, MD at the Centre for Global Health Studies (CGHS) at the U.S. National Institutes of Health (NIH). The workshop, with 64 attendees, brought together researchers, humanitarian organizations, and policymakers to share learning and strategies on conducting health research in the context of humanitarian crises in low- and middle-income countries.

One of **SU/RADAR's** emerging researchers attended the Third BRICS<sup>2</sup> Young Scientist Forum, hosted in Durban, South Africa from 25–29 June 2018. This forum provides a platform to highlight the strategic importance of science, technology and innovation as key drivers of youth entrepreneurship and leadership. RADAR's representative presented his recent masters research topic on energy use strategies of low-income households in South Africa and their implications for risk (particularly

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<sup>2</sup> BRICS is an association of five major emerging national economies: Brazil, Russia, India, China and South Africa

dwelling fire risk). During this reporting period, **Tanà** attended and participated in three strategic engagement sessions at an international level.

- From 23 - 26 April 2018, the 'Organisation Internationale de la Francophonie' (OIF) from Quebec, Canada invited **Tanà** to participate in an Indian Ocean regional workshop on Natural Disaster Management and Prevention in Moroni, Comoros. During this workshop, **Tanà's** representative was approached by the 'Plate-forme d'Intervention Régionale de l'Océan Indien' (PIROI) to discuss potential collaboration towards improved capacity building initiatives.
- Between 22 - 25 June, a second **Tanà** representative participated in the 4<sup>th</sup> Global Network of Civil Society Organisations for Disaster Reduction (GNDR) Global Summit held in Kuala Lumpur Malaysia<sup>3</sup>. She presented the research and work of **Tanà** on the community-based early warning systems for flooding to an estimated 150 delegates.
- From 25 - 27 June, two **Tanà** representatives participated at the 7th IDEA-GREThA (International Development Ethics Association - Groupe de Recherche en Economie Theorique et Appliquee<sup>4</sup>) International Conference on Economic Development in Bordeaux, France. The representatives presented the following two papers; *The Role of Social links on Community Resilience and Development: The Case of Ambaro Bekibo*, and *Governance of development, climate change and disaster risk: complex realities for Madagascar*.

**USTHB's Periperi U** coordinator also took part in two strategic engagements during this quarter. At an international level, he attended the New Shape Forum (NSF), organized by the Global Challenges Foundation in Stockholm, Sweden. He also participated in the first 'Meeting of the Expert Group of the Global Risk Assessment Framework' (GRAF), organized by the UNISDR, in Geneva (Switzerland) from 12-14 June 2018.

### 3.5.2 Regional engagements

Nine Periperi U partners engaged in regional processes involving West, East/southern Africa, the Arab States and the Greater Horn of Africa. From 22 to 26 April, **GBU's** Periperi U coordinator participated as a trainer at a workshop on agricultural risk management for Sahelian countries (Burkina Faso, Cameroun, Mauritania, Niger, and Togo), in Niamey, Niger. The workshop, with 39 participants (33 males/6 females), was jointly organised by PARM/IFAD) and the *Comité permanent inter-État de lutte contre la sécheresse au Sahel*<sup>5</sup> (CILSS).

As noted in section 2, between 14 – 18 May, representatives from NEPAD, WFP and Periperi U (**ARU, BDU, Makerere, SU, Tanà** and **UDM**) met in Kampala Uganda to discuss possible HEI engagement in implementing the WFP's '3PA' process under the NEPAD ARCH Programme as well as contributing to research and overseeing programme monitoring and evaluation.

Between 22-23 April, **USTHB's** Periperi U coordinator participated in the First Arab Partnership Meeting for Disaster Risk Reduction, Cairo (Egypt). This meeting, organized by the UNISDR, Regional Office for the Arab States, sought to strengthen partnerships with key stakeholders engaged in disaster risk reduction and accelerate the implementation of the Sendai Framework for Disaster Risk Reduction in the Arab Region.

On 4 June 2018, **BDU** staff also participated in the Intergovernmental Authority on Development<sup>6</sup> (IGAD) DRM Strategy/Program, organized by the National Disaster Risk Management Commission (NDRMC). The meeting specifically sought to update the IGAD DRM strategy in line with the prevailing international and regional DRM/DRR frameworks. It also aimed to integrate DRM and Climate Change Adaptation/Mitigation approaches to guide both IGAD and the member states in their sustainable

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<sup>3</sup> <https://www.gndr.org/news/events/global-summit-2018.html>

<sup>4</sup> Research Group Theoretical and Applied Economics

<sup>5</sup> Permanent Interstate Committee for Drought Control in the Sahel

<sup>6</sup> an eight-country trade bloc in Africa which includes; Djibouti, Ethiopia, Eritrea, Kenya, Somalia, South Sudan, Sudan and Uganda

development efforts – and to elaborate a conducive institutional and structural set-up within IGAD for more effective implementation of the updated DRM/DRR strategy.

In its capacity as representative of academia to the AWGDRR, SU's Periperi U focal point attended the Validation Workshop on the development of a Monitoring and reporting System for the Programme of Action (PoA) for the implementation of the Sendai Framework for Disaster Risk Reduction (2015-2030) in Africa. This event, scheduled from 5-7 June 2018, was convened in Johannesburg and attended by 41 people, including 19 women.

### 3.5.3 National engagements

Periperi U interventions are particularly effective at national and subnational levels. In the past quarter, at least six partners engaged nationally – either through co-convening/participating in national conferences/workshops or through bilateral discussions with national or international institutions.

From 1 - 2 June 2018, **BDU** sponsored and co-hosted its 5th Annual National Conference on the theme "Agriculture and Environmental Management for Sustainable Development". Three major academic units at BDU jointly organized the event; the College of Agriculture and Environmental Sciences, School of Earth Science and the Institute of Disaster Risk Management and Food Security Studies. Themes centred on 'Agriculture and Environmental Management for Sustainable Development', 'Building Disaster Resilient Communities' and 'Geosciences for Sustainable Natural Resources Development'. Its 350 attendees included officials from federal and regional government agencies, as well as academics from various universities and research institutes from across Ethiopia.

On 12 June 2018, **BDU** also participated in a forum hosted by the National Disaster Risk Management Commission (NDRMC) along with the Asian Disaster Preparedness Center (ADPC) to discuss a project funded by Bill and Melinda Gates Foundation to build DRM capacity in Ethiopia.

During this period, **Tanà** participated in two national level workshop-styled events. These included:

- a national workshop on social protection organized by the Ministry of Population. More than 100 participants attended, drawn from both public and private sectors as well as civil society.
- a "Lessons Learned Workshop" convened by the Madagascar Integrated Food Security Phase Classification (IPC) Secretariat to evaluate the work done by the IPC since its establishment 1993. **Tanà**, along with other participants, was asked to deliberate on past effectiveness of the IPC and to suggest improvements for the drafting of IPC's 2018-2019 work plan

**UDM, USTHB and Tanà** all reported bilateral discussions in the past quarter. **UDM** met with the new leadership of the Instituto Nacional de Gestão de Calamidades<sup>7</sup> (INGC) to renew the relationship between the two institutions. Given their positive collaborative relationship historically, **UDM** has prioritised re-establishing enabling relations with the INGC.

On 6 May 2018, **USTHB** met with the National Higher School for Public Works (ENSTP) to discuss possible future collaboration between the two institutions through the establishment of a working group on disaster risk management at the school. USTHB's Periperi U coordinator is working closely with the ENSTP director, who is currently facilitating and supporting the establishment of this working group.

As one outcome of the NEPAD-ARCH consultation as well as Periperi U's annual consultative meeting in October 2017, **Tanà** met with representatives of Madagascar's WFP office to discuss the modalities of a bipartite collaboration to implement the 3PA approach. It is expected that **Tanà** will establish an MoU with the WFP to formalise this collaboration, possibly in the forthcoming quarter.

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<sup>7</sup> National Institute of Disaster Management

### 3.5.4 Subnational and local engagements

**Moi, Tanà and ARU** reported activities at subnational and local levels. During its CBDRR short course training in Port Victoria, **Moi** held a meeting with the Deputy County Commissioner of Bunyala Sub-County in Kenya, who also acts as the chairperson of the DRM/DRR committee for the Sub-County to discuss flood risk in the region. As a result, the Commissioner allowed all of the short course participants to be inducted as members of their local DRM/DRR committees. While the Deputy County Commissioner has supported the training programmes and is eager to have more county-level training undertaken for local government and traditional authorities, these plans are limited by resource constraints.

On 6 June, 2018 **Tanà** jointly organized a workshop on 6 June, 2018 at the University campus with one of its partners, the Institut de Recherche pour le Développement<sup>8</sup>, to officially launch a new jointly run project that will address social protection and resilience through research, capacity building and action.

On 20 June 2018, an **ARU** research team (in collaboration with Temeke Municipal Council team) held a half-day workshop to share results of a risk and vulnerability assessment for communities around Kizinga River catchment area. The 81 workshop attendees included community representatives, local leadership (Ward Executive Officers and Sub-ward Executive Officers) in the study area and Temeke Municipal Council Management Team). The workshop also served as a forum to develop a plan of action for interventions to address the risks identified in the assessment.

## 4. SECRETARIAT REPORT

### 4.1 Operational Support

The secretariat's operational support included assistance for the day-to-day running of the consortium (including financial management and reporting to USAID). In late June, a new project accountant was appointed to oversee financial management of the consortium. This position had been vacant since February 2018, requiring the secretariat to assign financial management responsibilities across several staff, resulting in significant opportunity costs to other activities and commitments.

### 4.2 Preparatory work towards forthcoming engagements and training

The secretariat also oversaw extensive preparatory arrangements such as travel, accommodation and drafting meeting programmes for several strategic events. This included the NEPAD-ARCH meeting between Periperi U partners, the WFP and NEPAD at Makerere University. Similarly, in its coordinating role for the Africa-based research teams including **Makerere** and **UDM**) in the Forecasts for Anticipatory Humanitarian Action (FATHUM) initiative, the **SU** provided organisational support for the annual consultation meeting in Stellenbosch between 16 -18 June 2018.

During this reporting period, the Periperi U secretariat also continued coordinating the organisation of the upcoming Risk Methods School, planned for **ARU** in September. This has included the developing of budgets, coordinating with partners on streamlining and consolidating the teaching themes and academic curricula, the reviewing and assigning of teaching staff, as well as writing information and promotional materials to post online to inform prospective applicants about the School. The secretariat also held preparatory discussions with UNDP and WHO on their participation in the School, along with **SU's** African Doctoral Academy.

### 4.3 Periperi U Online Platforms

Since the previous quarter, the number of searches and PDFs on the Online Resource Centre (ORC) increased significantly, with 952, 950 searches performed and 65,941 PDFs viewed this quarter. This was an average of 10 472 searches and 538.7 PDF views per day. While May 2018 had the most

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<sup>8</sup> Research Institute for Development

searches performed in the ORC's history, searches and views declined in June. This was attributed to the conclusion of the academic semester, as well as student examinations and university vacation breaks.

#### Periperi U Online Research Centre: Searches and PDFs Viewed (April-June 2018)

Month	PDFs viewed	Searches
April 2018	17,149	334,168
May 2018	17,005	365,482
June 2018	14,869	253,300
<b>Total</b>	<b>49,023</b>	<b>952,950</b>

In addition to the ORC, the secretariat continued to manage and update the [www.riskreductionafrica.org](http://www.riskreductionafrica.org) website and its Facebook page to ensure a strong online presence. These platforms were used largely to provide information on each partner's academic courses, as well as advertise short courses and report on consortium related events and news.

## 5. PROBLEMS AND OBSTACLES REPORTED

Political instability and unrest have been the main obstacle highlighted by several partners during this reporting period, constraining their activities such as short courses, strategic engagements and research. In Ethiopia, the country's state of emergency in 2017 and until June 2018 imposed substantial constraints on **BDU's** short course activities as well as the hindering the establishment of BDU's satellite campus in Addis Ababa.

Similarly, persisting unrest in Cameroon disrupted **UBuea's** research and teaching during much of this reporting period. In particular, access to internet and electricity was periodically interrupted, posing substantial obstacles to **UBuea** staff to communicate with the secretariat as well as other stakeholders in Cameroon and beyond. Although **UBuea** had planned to apply to host the 2020 International Conference on "Cities on Volcanoes", prevailing political uncertainty and insecurity in the region have made this untenable.

**Moi** continued to experience strike action by university lecturing staff during this reporting period, which hampered their academic programmes and supervision of students. Fortunately, the strikes did not constrain the implementation of short courses that had already been postponed from the previous quarter. However, **Moi** reports that as many of the issues that led to strike action and demands made by striking staff had not been met or resolved, it could experience more strike action in the near future.

## 6. HIGHLIGHTS AND PLANS GOING FORWARD

The Periperi U partnership will participate in several major events next quarter, as well as towards the end of the year. These include;

- In August, **UDM** plans to hold a research symposium to officially launch the newly created CDI.
- In September, **UBuea** will host a multi-stakeholder workshop to discuss building codes in Cameroon that can withstand hazards (i.e. seismic risks). **ABU** will also host an International Conference on Disaster Risk Reduction (DRR) on Urban Disasters and Conflicts. **ARU** will host the first Periperi U Risk Method Schools in Dar es Salaam, Tanzania.
- From 9-13 October, all partners will attend the Africa-Arab Platform on Disaster Risk Reduction in Tunis, Tunisia. Following the AfrRP, Periperi U will convene its annual consultative meeting. **USTHB** is working with the National Delegation for Major Risks of Algeria to host the 1st National Conference on Disaster Risk Management "For a more resilient Algeria" in Algiers, also in October.

## 7. APPENDICES

Table 1: Summary table

<b>Summary table</b>				
<b>Detail</b>	<b>No of...</b>	<b>No of students / participants</b>		
		<b>M</b>	<b>F</b>	<b>Tot</b>
<b>Staff</b>				
Periperi U Faculty		71	30	<b>101</b>
Contributing staff - internal to the university		54	13	<b>67</b>
Contributing staff - external to the university		27	9	<b>36</b>
<b>Staff total</b>		<b>152</b>	<b>52</b>	<b>204</b>
<b>Academic Programmes/modules/courses</b>				
Programmes	19	717	464	<b>1 181</b>
Modules	15	194	212	<b>406</b>
<b>Academic Programmes/modules/courses total</b>	<b>34</b>	<b>911</b>	<b>676</b>	<b>1 587</b>
<b>Student Theses</b>				
PGDip (ABU)	2			
Honours	11			
Masters	191			
PhD	20			
<b>Student theses total</b>	<b>224</b>			
<b>Short Courses</b>				
Short Courses	3	78	40	<b>118</b>
<b>Short courses total</b>	<b>3</b>	<b>78</b>	<b>40</b>	<b>118</b>
<b>Engagements</b>				
Technical	14			<b>711</b>
Strategic	14			<b>605</b>
<b>Engagements total</b>	<b>28</b>			<b>1 316</b>
<b>Publications and Research</b>				
Publications	5			
Research	12			
<b>Publications and Research total</b>	<b>17</b>			
<b>Outreach</b>				
Engaged citizenship	2			
Engaged teaching and learning	1			<b>7</b>
<b>Outreach total</b>	<b>3</b>			



Table 2: Composition of partners 01 January – 31 March 2018

Institution	Periperi U faculty			Contributing staff (Internal)			Contributing staff (External)			Total		Total staff
	F	M	Tot	F	M	Tot	F	M	Tot	F	M	
<b>ABU</b>	-	4	4	2	23	25	-	-	-	2	27	29
<b>Ardhi</b>	1	6	7	-	2	2	3	3	6	4	11	15
<b>BDU</b>	4	18	22	-	-	-	-	-	-	4	18	22
<b>GBU</b>	1	17	18	2	2	4	-	10	10	3	29	32
<b>Ghana</b>	-	6	6	-	-	-	1	-	1	1	6	7
<b>Makerere</b>	1	2	3	1	8	9	1	3	4	3	13	16
<b>Moi</b>	7	-	7	-	-	-	1	3	4	8	3	11
<b>SU</b>	8	3	11	-	-	-	-	-	-	8	3	11
<b>Tanà</b>	2	5	7	5	5	10	-	-	-	7	10	17
<b>UBUEA</b>	2	3	5	-	1	1	2	-	2	4	4	8
<b>UDM</b>	2	4	6	1	12	13	-	3	3	3	19	22
<b>USTHB</b>	2	3	5	2	1	3	1	5	6	5	9	14
<b>Total</b>	30	71	101	13	54	67	9	27	36	52	152	204

Table 3: Academic Programme

Institution	Academic programme name	Level	New			Existing			Graduated			Failure/Dropout			Total		Total
			M	F	Tot	M	F	Tot	M	F	Tot	M	F	Tot	M	F	
ABU	DRM and Development Studies (2016-2018)	PGDip	-	-	-	13	7	20	-	-	-	-	-	-	13	7	20
	DRM and Development Studies (2018-2020)	PGDip	-	-	-	23	9	32	-	-	-	-	-	-	23	9	32
	DRM and Development Studies (2016-2018)	MA	-	-	-	112	42	154	-	-	-	-	-	-	112	42	154
	DRM and Development Studies (2018-2020)	MA	-	-	-	112	21	133	-	-	-	-	-	-	112	21	133
	DRM and Development Studies (2016-2018)	MSc	-	-	-	9	5	14	-	-	-	-	-	-	9	5	14
	DRM and Development Studies (2018-2020)	MSc	-	-	-	25	3	28	-	-	-	-	-	-	25	3	28
	DRM and Development Studies (2016-2018)	MPhil	-	-	-	32	5	37	-	-	-	-	-	-	32	5	37
	DRM and Development Studies (2018-2020)	MPhil	-	-	-	26	5	31	-	-	-	-	-	-	26	5	31
	DRM and Development Studies (2016-2018)	PhD	-	-	-	3	1	4	-	-	-	-	-	-	3	1	4
	DRM and Development Studies (2018-2020)	PhD	-	-	-	2	-	2	-	-	-	-	-	-	2	-	2
<b>ABU Subtotal</b>					-	<b>357</b>	<b>98</b>	<b>455</b>	-	-	-	-	-	-	<b>357</b>	<b>98</b>	<b>455</b>
Ardhi	Master of DRM (MDRM)	Masters	-	-	-	8	4	12	-	-	-	-	-	-	8	4	12
	Master of DRM (2017 - ongoing)	Masters	-	-	-	3	1	4	-	-	-	-	-	-	3	1	4
	Master of Science in DRM (MSc. DRM)	MSc.	-	-	-	1	4	5	-	-	-	-	-	-	1	4	5
	Master of Science in DRM (2017 - ongoing)	MSc.	-	-	-	3	2	5	-	-	-	-	-	-	3	2	5
	PhD. in DRM (2016 -ongoing)	PhD	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1

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	PhD. in DRM (2017 -ongoing)	PhD	-	-	-	2	-	2	-	-	-	-	-	-	2	-	2
<b>Ardhi Subtotal</b>			-	-	-	18	11	29	-	-	-	-	-	-	18	11	29
<b>BDU</b>	DRM & Sustainable Development (2015-2018)	BSc	-	-	-	2	12	14	10	16	26	-	-	-	12	12	24
	DRM & Sustainable Development (2016-2019)	BSc	-	-	-	14	26	40	-	-	-	-	-	-	14	26	40
	DRM & Sustainable Development (2017-2020)	BSc	-	-	-	28	27	55	-	-	-	-	-	-	28	27	55
	DRM & Sustainable Development (2016-2018)	MSc	-	-	-	2	1	3	1	-	1	-	-	-	3	1	4
	DRM & Sustainable Development (2017-2019)	MSc	-	-	-	11	4	15	-	-	-	-	-	-	11	4	15
	Climate Change & Development (2016-2018)	MSc	-	-	-	3	1	4	1	-	1	-	-	-	4	1	5
	Climate Change & Development (2017-2019)	MSc	-	-	-	4	1	5	-	-	-	-	-	-	4	1	5
	DRM & Sustainable Development (Dire Dawa) (2017-2018)	MSc	-	-	-	29	2	31	-	-	-	1	2	3	30	4	34
<b>BDU Subtotal</b>			-	-	-	93	74	167	12	16	28	1	2	3	93	74	167
<b>GBU</b>	Prevention/Management of Food Insecurity Risk (2016-2018)	MSc	-	-	-	8	4	12	-	-	-	-	-	-	8	4	12
	Prevention/Management of Food Insecurity Risk (2017-2019)	MSc	-	-	-	36	16	52	-	-	-	-	-	-	36	16	52
	Prevention/Management of Food Insecurity Risk (2018-2020)	MSc	18	4	22	-	-	-	-	-	-	-	-	-	18	4	22
<b>GBU Subtotal</b>			18	4	22	44	20	64	-	-	-	-	-	-	62	24	86
<b>Makerere</b>	Masters of Public Health DM I (2017-2019)	Masters	-	-	-	6	4	10	-	-	-	-	-	-	6	4	10
	Masters of Public Health DM II (2016-2018)	Masters	-	-	-	1	4	5	-	-	-	-	-	-	1	4	5
<b>Makerere Subtotal</b>			-	-	-	7	8	15	-	-	-	-	-	-	7	8	15

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	Disaster Risk Science and Development (2017-2018)	MPhil	-	-	-	2	3	5	-	-	-	-	-	-	2	3	5
	Disaster Risk Science and Development (2018-2019)	MPhil	-	-	-	-	1	1	-	-	-	-	-	-	-	1	1
<b>SU Subtotal</b>			-	-	-	2	4	6	-	-	-	-	-	-	2	4	6
<b>Tana</b>	DMGRC	MPhil	-	-	-	11	7	18	-	-	-	-	-	-	11	7	18
<b>Tana Subtotal</b>			-	-	-	11	7	18	-	-	-	-	-	-	11	7	18
<b>UDM</b>	Environmental Engineering and DM (2008-ongoing)	BSc	-	-	-	36	96	132	-	-	-	26	60	86	62	156	218
	Environmental Engineering and DM (2017-ongoing)	BSc	-	-	-	4	2	6	-	-	-	-	-	-	4	2	6
	Environmental Engineering and DM(2018-ongoing)	BSC	-	-	-	13	16	29	-	-	-	-	-	-	13	16	29
<b>UDM Subtotal</b>			-	-	-	53	114	167	-	-	-	26	60	86	79	114	193
<b>USTHB</b>	Structural Dynamics and Earthquake Engineering (2017 - ongoing)	MSc	-	-	-	72	43	115	-	-	-	-	-	-	72	43	115
	Earthquake and flood risk reduction (2015 - ongoing)	PhD	-	-	-	3	3	6	-	-	-	-	-	-	3	3	6
<b>USTHB Subtotal</b>			-	-	-	75	46	121	-	-	-	-	-	-	75	46	121
<b>Total</b>			<b>18</b>	<b>4</b>	<b>22</b>	<b>660</b>	<b>382</b>	<b>1,042</b>	<b>12</b>	<b>16</b>	<b>28</b>	<b>27</b>	<b>62</b>	<b>89</b>	<b>717</b>	<b>464</b>	<b>1,181</b>

Table 4: Academic Modules

Institution	Module name	Level	Start Date	End Date	New			Existing			Failure/dropout			Total		Total
					M	F	Tot	M	F	Tot	M	F	Tot	M	F	
Ghana	GEOG 496: Policies and Strategies for Integrated Disaster Risk Reduction (IDRR)	U'grad	01/02/2018	30/06/2018	-	-	-	20	18	38	-	-	-	20	18	38
	GEOG. 646: Applied Integrated Disaster Risk Reduction (IDRR) in Urban Ghana	Masters	01/02/2018	30/06/2018	-	-	-	6	4	10	-	-	-	6	4	10
<b>Ghana Subtotal</b>					-	-	-	26	22	48	-	-	-	26	22	48
Makerere	MDM 7203 Environmental Health in Disaster Situations	Masters	02/04/2018	13/04/2018	6	4	10	-	-	-	-	-	-	6	4	10
	MDM 7206 Mental Health and Psychosocial Issues in Disaster Situations	Masters	16/04/2018	20/04/2018												
<b>Makerere Subtotal</b>					6	4	10	-	-	-	-	-	-	6	4	10
Moi	Community-based Education and Service (COBES 2)	U'grad	09/04/2018	25/05/2018	110	133	243	-	-	-	-	-	-	110	133	243
<b>Moi Subtotal</b>					110	133	243	-	-	-	-	-	-	110	133	243
SU	Disaster Risk Studies	Honours	26/03/2018	30/04/2018	-	-	-	10	11	21	-	-	-	10	11	21
	Disaster Risk Science and Development	Masters	05/03/2018	27/04/2018	-	-	-	-	1	1	-	-	-	-	1	1
	Disaster Risk Analytics	Masters	07/05/2018	02/07/2018	-	1	1	-	-	-	-	-	-	-	1	1
<b>SU Subtotal</b>					-	1	1	10	12	22	-	-	-	10	13	23
Tana	Introduction to DRM/DRR	Masters	01/05/2018	01/05/2019	6	3	9	-	-	-	-	-	-	6	3	9
	Introduction to DRM/DRR	Masters	01/05/2017	01/05/2018	-	-	-	5	3	8	-	2	2	5	5	10
<b>Tana Subtotal</b>					6	3	9	5	3	8	-	2	2	11	6	17
UBuea	ENV 312: Natural hazards, disasters and climate change	U'grad	2018/04/04	14/07/2018	16	18	34	-	-	-	-	-	-	16	18	34
	ENV 602: Global commons, natural disasters and environmental risk management	Masters	04/04/2018	14/07/2018	9	7	16	-	-	-	-	-	-	9	7	16

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ENV 610: Groundwater pollution and protection.	Masters	04/04/2018	14/07/2018													
ENV 698: MSc thesis in Natural Resources and Environmental Management	Masters	01/01/2018	30/10/2018	-	-	-	2	2	4	-	-	-	2	2	4	
ENV 798: PhD Research Project/Thesis	PhD	Not applicable	Not applicable	-	-	-	-	3	3	-	-	-	-	3	3	
ENV 710: Advanced topics in surface and groundwater management.	PhD	04/04/2018	14/07/2018	4	2	6	-	-	-	-	-	-	4	2	6	
<b>UBuea Subtotal</b>				<b>29</b>	<b>27</b>	<b>56</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>31</b>	<b>32</b>	<b>63</b>	
<b>Total</b>				<b>151</b>	<b>168</b>	<b>319</b>	<b>43</b>	<b>42</b>	<b>85</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>194</b>	<b>212</b>	<b>406</b>	

Table 5: Illustrative partner research and publication outputs

Institution	Output Type	Research Author	Research title	Research theme	Status of publication
<b>Tana</b>	Case study	Julien Salava, Thierry Razanakoto, Tiana Mahefasoa Randrianalijaona, Holimalala Randriamanampisoa and André Pierre Lazamanana	Governance of development, climate change and disaster risk: complex realities for Madagascar	"A World United- Allies in Ethical Development" Regional perspectives: development issues in Africa	
<b>Ardhi</b>	Case study	Mkumbo, Stalin & Sibomana, Leonard	Assessment of Potential Disaster Risks from Consumption of Contaminated Borehole Water in Unplanned Settlements: The Case of Dar es Salaam City	Urban risk	The study has just started being implemented
<b>SU</b>	Research report	Patricia Zweig, Robyn Pharoah and Rodney Eksteen	Installation of Smoke Alarms in an Informal Settlement Community in Cape Town, South Africa – Final Report	Fire risk, informal settlements, measures to reduce fire fatalities	Published
<b>Ghana</b>	Research report	Osman Alhassan	Risk profiles of uncompleted home care-taker households in Adenta Municipality	risk profiles, care-taker households, uncompleted homes/residences	ongoing fieldwork
<b>UBuea</b>	Journal article	Muh Blast Naintoh, Ayonghe SN, Mabel N. Wantim	Assessing the impact of climate variability and change on Irish Potato ( <i>Solanum tuberosum</i> L.) production from 1995 to	Climate change (temperature and rainfall) impact on crop yield	Published

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			2015 in Tubah Sub Division, North West Region, Cameroon		
<b>Makerere</b>	Journal article	Abdinasir Abubakar, Godfrey Bwire, Andrew S. Azman, Malika Bouhenia, Lul L. Deng, Joseph F. Wamala, John Rumunu, Atek Kagirita, Jean Raugier, Lise Grout, Stephen Martin, <b>Christopher Garimoi Orach</b> , Francisco J. Luquero, and Marie-Laure Quilici	Cholera Epidemic in South Sudan and Uganda and Need for International Collaboration in Cholera Control	Disease control and outbreak	Published
<b>USTHB</b>	Journal article	Khedidja Hamidi, E, Djakab, D, Benouar and S, Mechiche	“Damage identification in symmetric beam using artificial neural networks with experimental validation”	Earthquake Risk reduction	Under review

Table 6: Illustrative table of student theses and research

Institution	Output Type	Thesis Author	Title
<b>ABU</b>	PhD	Slaku Lugard Bijimi	Assessment of the Economic Impact of Flood in Mokwa L.G.A. of Niger State, Nigeria.
<b>Ardhi</b>	Masters	Magreth Nyakitina	Prevention and control of crime related disasters: Analysis of crime hotspotsfire in Dar es Salaam
<b>BDU</b>	Masters	Muhyadin Ali Ahmed	Role of communications technologies in early warning systems on preventing flood hazard in Jigjiga city, Somali Regional State, Ethiopia
<b>GBU</b>	Masters	Bacary Sagna	Which Agriculture for a Sustainable Food Security in a Context of Climate Change in Senegal?
<b>Makerere</b>	Masters	Queen Gladys	Prevalence and risk factors for Hepatitis B virus infection among pregnant women in Bidibidi refugee settlement, Yumbe district
<b>MOI</b>	Masters	Benjamin Kibet	Determinants of exposure to Occupational Health Hazards among Scrap metal workers at North Rift Jua Kali Enterprises in Eldoret Town, Uasin-Gishu County
<b>SU</b>	Masters	Tasneem Khan	Institutional governance challenges for effective fire service delivery: Case study of the Overstrand Municipal Fire Dept.
<b>TANA</b>	PhD	Ralitera Jaurès	Vulnérabilité et stratégie de résilience des ménages ruraux de la côte Est de Madagascar face aux risques naturels: cas de la région SAVA face aux cyclones.
<b>UG</b>	Masters	Alexander Buertey	Risk Assessment of Mobile Phone Life Cycle: A Case Study of Accra Metropolitan Area (GAMA)

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<b>USTHB</b>	PhD	Farida Boulaghmen	No Title yet; PhD research is focussed on analysing and mapping flood risk in an urban environment within Algeria through a hydraulic modeling approach.
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Table 7: Short Courses

Institution	Title	Theme	Start Date	End Date	Participants		
					M	F	Tot
<b>GBU</b>	Integrated Context Analysis (ICA) using 3PA, PCP, PSME toolkit concepts	Vulnerability Assessment	30/4/2018	04/05/2018	18	9	27
	Agricultural Risk Management in the Sahel	DRR/DRM in Agriculture	22/04/2018	26/04/2018	33	6	39
<b>Moi</b>	Community Based Disaster Risk Reduction	Community Disaster Risk Reduction	04/06/2018	15/06/2019	17	20	37
<b>USTHB</b>	Progress of the Sendai Framework for DRR 2015-2030	Sendai Framework for DRR 2015-2030	12/04/2018	14/04/2018	10	5	15
<b>Total</b>					<b>78</b>	<b>40</b>	<b>118</b>



Table 8: Technical Engagements

Type	Level	Institution	Title	Role	Start Date	End Date	No. of Periperi U representatives	No of participants	Location	Host
Conference	National	USTHB	One day conference on Natural Risks	Presenter	05/05/2018	05/05/2018	11	80	ENSTP	ENSTP
		BDU	5th Annual National Conference on the theme "Agriculture and Environmental Management for Sustainable Development	Co-host and Presenter	01/06/2018	02/06/2018	(uncertain)	350	Bahir Dar, Ethiopia	BDU (College of Agriculture and Environmental Sciences, School of Earth Science, and Institute of Disaster Risk Management and Food Security Studies)
	International	Tana	GREThA-IDEA "A World United- Allies in Ethical Development" Regional perspectives: development issues in Africa	Attendee	25/06/2018	27/06/2018	2	60	Université Bordeaux / France	Université de Bordeaux, GREThA, IDEA, IRD
<b>Conference subtotal</b>								<b>490</b>		
Meeting	Local	Tana	African Risk Capacity (ARC) 2018-2019 operational plan validation	Expert/ Advisor	27/06/2018	27/06/2018	1	35	Antananarivo / Madagascar	Cellule de Prévention et de Gestion des Urgences / Prime Minister's Office

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		USTHB	Short course planning meeting	Discussant	01/05/2018	01/05/2018	3	6	USTHB	USTHB
	International	Tana	The GNDR Global Summit "Together Forests: Connecting Communities"	Attendee	22/05/2018	25/05/2018	1	150	Kuala Lumpur, Malaysia	GNDR secretariat
		USTHB	GRAF	Expert/ Advisor	12/06/2018	14/06/2018	3	32	Geneva, Switzerland	UNISDR
<b>Meeting subtotal</b>								<b>223</b>		
<b>Training</b>		ABU		Attendee	21/05/2018	25/05/2018	1		Maiduguri, Nigeria	WFP
	National	BDU	Development of an agricultural risk management training course curriculum,		29/05/2018	02/06/2018	0	30	Hawassa, Ethiopia	PARM,IFAD and Hawassa University,
	Regional	GBU	Agricultural risk management for Sahelian countries (Burkina Faso, Cameroun, Mauritania, Niger and Togo)		22/04/2018	26/04/2018	1	39	Niamey, Niger	PARM/IFAD, CILSS
	International	UBuea	Post-doc training and Volcano Monitoring Training Course on DRR issues (volcanology) in Hilo (Hawaii) and Vancouver, Washington, USA	Attendee	27/05/2018	21/07/2018	1	14	Hilo, Hawaii and Vancouver, Washington, USA	Centre for the Study of Active Volcanoes, University of Hilo, Hawaii and Cascades Volcano Observatory (United States Geological Survey),

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										Vancouver, Washington
<b>Training subtotal</b>								<b>83</b>		
<b>Workshop</b>	Local	Ardhi	Sharing of research findings with stakeholders	Expert/ Advisor	20/06/2018	20/06/2018	2	81	Temeke Municipality	Temeke Municipal Council
	Regional	Tana	Indian Ocean regional workshop on Natural Disaster Management and Prevention	Attendee	23/04/2018	23/04/2018	1	30	Moroni, Comoros	Organisation internationale de la Francophonie
	International	Makerere	Advancing Health Research in Humanitarian Crises	Attendee	09/04/2018	11/04/2018	1	64	Bethesda, MD	CGHS at the Fogarty International Center of the U.S., NIH
<b>Workshop subtotal</b>								<b>175</b>		
<b>Seminar</b>	Local	SU	Public Open Seminar: Western Cape Drought	Host	11/04/2018	11/04/2018	5 staff/21 students	90	Stellenbosch University	RADAR
<b>Seminar subtotal</b>								<b>90</b>		
<b>Technical engagement total</b>								<b>1071</b>		

Table 9: Strategic Engagements

Type	Level	Institution	Title/Details	Role	Start Date	End Date	No. of Periperi U representatives	No of participants	Location	Hosts
<b>Meeting</b>	Local	UBuea	Academic curriculum planning meeting	Host	25/05/2018	25/05/2018	1	5	Yaounde, Cameroon	Ubuea
	National	BDU	Revision of the IGAD DRM Strategy/Program	Expert/ Advisor	04/06/2018	04/06/2018	0	15	Addis Ababa	National DRM Commission
			Joint discussion with the Asian Disaster Preparedness Center to increase capacity of DRM in Ethiopia	Expert/ Advisor	12/06/2018	12/06/2018	0	20	Addis Ababa	National DRM Commission
		Tana	Signature of the partnership agreement (MoUs) with the Ministry of population, social protection and women promotion (MPPSPF)	Host	07/06/2018	07/06/2018	4	15	MPPSPF Office	MPPSPF
		USTHB	USTHB/Periperi U curriculum meeting with ENSTP	Presenter	06/05/2018	06/05/2018	4		Algiers-Algeria	USTHB/ Periperi U

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		SU	National Disaster Management Centre bursary steering committee	Attendee	10/05/2018	10/05/2018	1	6	Pretoria, South Africa	National Disaster Management Centre (NDMC)
			Sendai Framework Indicators meeting	Expert/Advisor	10/05/2018	10/05/2018	1	41	Johannesburg, South Africa	
Regional		SU	NEPAD ARCH – Technical meeting with Periperi U Universities	Expert/Advisor	14/05/2018	17/05/2019	2	20	Kampala, Uganda	Makerere University
		Tana		Expert/Advisor						
		Ardhi		Expert/Advisor						
		Makerere		Host						
		USTHB	First Arab Partnership Meeting for Disaster Risk Reduction	Expert/Advisor	22/04/2018	23/04/2018	1	85	Cairo, Egypt	UNISDR, Regional Office for the Arab States
Continental		Moi	Strategic engagement with the Deputy County Commissioner	Expert/Advisor	14/06/2018	15/06/2018	6	10	Port Victoria	Deputy Commissioner's office at Budalangi
International		Ardhi	ARU-NIPA South Korea Cooperation	Host and intended beneficiary	28/06/2018	28/06/2018	2	3	Ardhi University	Ardhi University
International		USTHB	New Shape Forum (NSF)	Expert/Advisor	27/05/2018	29/05/2018	1	250	Stockholm, Sweden	Global Challenges Foundation in Stockholm
<b>Meeting subtotal</b>								<b>470</b>		
<b>Workshop</b>	National	Tana	Atelier sur La protection	Attendee	17/04/2018	18/04/2018	2	127	Antananarivo / Madagascar	MPPSPF

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			Sociale Reactive aux Chocs							
			Atelier de leçons apprises IPC	Attendee	17/05/2018	18/05/2018	1	31	Antananarivo / Madagascar	Bureau National de la Gestion des Risques et des Catastrophes
			Connaitre les formes de vulnérabilités et de résiliences pour penser la protection sociale	Host	06/06/2018	06/06/2018	7	24	Antananarivo / Madagascar	IRD, Université d'Antananarivo, CERED, Université Bordeaux
<b>Workshop subtotal</b>								<b>182</b>		
<b>Strategic engagement total</b>								<b>652</b>		