Meeting Agenda



Meeting	WUN Responding to Climate Change Global Challenge Steering Group AGM											
Date	Wednesday 23-May-2018 The University Club of Western Australia - Seminar Room 1											
Location	The University Club of Western Austr	alia - Sen	ninar Room 1									
Steering Group Members Attending	 Prof Peter Smith, University of Southampton (Chair) Prof Peter Davies, The University of Western Australia (Vice Chair) Dr Eloise Biggs, The University of Western Australia Prof Om Parkash Dhankher, The University of Massachusetts Amherst Miss Eleonora Gandolfi, University of Southampton A/Prof Lawal M. Marafa, The Chinese University of Hong Kong Dr Arturo Molina, Technologico de Monterrey Prof Andreas Neef, The University of Auckland Dr Stefan Scherer, University of Alberta Prof Chjeng-Lun Shieh, National Cheng Kung University 											
Guests	 Prof Om Parkash Dhankher, The University of Massachusetts Amherst Miss Eleonora Gandolfi, University of Southampton A/Prof Lawal M. Marafa, The Chinese University of Hong Kong Dr Arturo Molina, Technologico de Monterrey Prof Andreas Neef, The University of Auckland Dr Stefan Scherer, University of Alberta 											
Apologies	 Prof Tim Benton, University of Prof Debra Davidson, University of Prof Mark Eisler, University of Prof Tore Furevik, University 	of Leeds sity of Alb of Bristol of Berger Universi versity of	perta n ty ⁵ Sydney									
Prepared by	Eleonora Gandolfi	Date	14 th May 2018									

Item	Time	Subject	Time	Sponsor	Attachment
1.	10:30 -10:35	Welcome and Introduction rules of the meeting: GCSG Members and Observers	5	Chair	
2.	10:35 - 10:40	Confirmation of minutes and matters arising	5	Chair	1

3.	10:40 - 10:45	Membership (new membership)	5		2
4.	10:45 - 11:15	Position Paper (Please note the last day of the pre-AGM workshop will include a review of the position paper. Suggested changes will be circulated and discussed during the meeting.)	30	Chair	3
5.	11:15 - 11:40	Report from funded programs a) Farm Platform and summary workshop b) Priorities 2018/19 and future opportunities (including a discussion of RDF 2017 awards)	25	Chair	4
6.	11:40 - 12:00	Collaboration a. Across fellow Global Challenges a) With Global Africa Group, Global China Group, International Policy Research Group, Data Science, Economics	20	Various	Please refer to Document Bank
	12:00 - 13:30	Lunch			
7.	13:30 - 14:30	Summary of discussion and Preparation of Plenary presentation	60		
9.	14:30 - 14:45	Any other business	15		-

Date and time of next meeting

Meetings of the Global Challenge Steering Groups occur quarterly via teleconference and once annually at the WUN AGM in April. The schedule of teleconferences for 2018/19 will be distributed to the Steering Group shortly after the AGM.

Meeting Minutes and Actions



Meeting	WUN Responding to Climate Change	e Global C	Challenge Steering Group								
Date	18/19 January 2018										
Participants	Professor Peter G R Smith – Southam Associate Professor Om Parkash Dha Dr Ellie Biggs, UWA (EB) Professor Andreas Neef – University Professor Mark Eisler, Bristol (ME) Judith Berman, UWA (JB) Stefan Scherer, Alberta (SS) Maria Petrovic, Alberta (SS) John Hearn – WUN Secretariat (JH) Mike Hasenmuller, Secretariat (MH) Marije Nieuwenhuis, Secretariat (MN	ankher – L	Imass (OPD)								
Prepared by	Eleonora Gandolfi	Date	19 January 2018								

Agenda	Subject							
Item 1	Welcome and introduction							
2	Confirmation of minutes and matters arising from AGM							
Notes	EG continues to collect information about national funding opportunities to be shared							
Notes	with the group.							
	 No additional nominations have been received at this stage. See item 7. 							
	OPD and AN have suggested changes to the Position Paper to be discussed in item 5.							
	AN suggested the following policy impact area:							
								
	· · · · · · · · · · · · · · · · · · ·							
	•							
	•							
	its various tradeoffs							
	3. Climate-induced migration within and beyond national borders							
	4. Alignment of public health and climate change policies							
	• JH supports the policy impact areas suggested as they link and overlap with the							
	following events:							
	- WUN Think Tank summit "The China Belt and Road - Green Development", 23-24							
	March 2018, Renmin University							
	 3. Climate-induced migration within and beyond national borders 4. Alignment of public health and climate change policies JH supports the policy impact areas suggested as they link and overlap with the following events: WUN Think Tank summit "The China Belt and Road - Green Development", 2 March 2018, Renmin University SDG Conference Bergen: Knowledge for Our Common Future, 8-9 Feb 2018, Bergen University OPD agrees with the policy impact areas proposed. He also suggested the link betwee Public Health and Climate Change is reflected in the position paper by including SDG on the current list of linked goals the group will explore during the workshop in Pertles JH/MH: to invite new members to nominate academics to join this steering group. 							
	 Bergen University OPD agrees with the policy impact areas proposed. He also suggested the link between 							
Actions								
	• OPD: to submit a short description (no more than a couple of sentence) on how SDG n.							
	3 is linked to the expertise of this group and climate change.							
	PGRS/EG: Policy Impact areas to be circulated to the group and included into the papers							
	for the workshop and AGM.							

3	Report from Secretariat
Notes	• JH is optimistic on the outcomes and success of the proposed WUN Workshop following
	the recent working group meetings.
	MH invited the group to check the WUN <u>website</u> to access all information related to the
	upcoming workshop and AGM.
	• MH reminded the group and the PIs that the annual report is due at the end of January.
Actions	• PIs: to ensure annual report is completed and submitted by the deadline.
	 All: to check the website for more information on the AGM and workshop.
4	Update of RCC workshop in Perth
Notes	• The workshop in Perth will be led by UWA (EB, PD, DM and Graeme), with the
	collaboration of ME from Bristol.
	• EB gave a brief overview of the workshop that will take place over 3 days. The first two
	days will build upon the farm platform project with a visit to UWA Farm Platform (day 1)
	and a session on food security and sustainable agriculture (morning day 2) and will pull
	links with water and energy (afternoon day 2). The last day will be dedicated to future
	directions, alignment SDGs, and funding opportunity for the group. This will also
	represent an opportunity to explore new area of research and
	ME has been working with Graeme Martin (UWA) on the first part of the programme
	and suggested the following speakers:
	Blair Parsons (Greening Australia), local to WA working on biodiversity.
	2. <i>either</i> Imke de Boer, Wageningen or Muriel Tichit, INRA, France, they both
	have high level of policy interaction
	3. Michael Lee, Bristol / Rothamsted Research.
	4. Deirdre O'Connor (University College Dublin), expertise in livestock
	production and impact of policy on local communities.
	JH formally approved the workshop and asked the working group to create a list of
	invited speakers and a revised budget as soon as possible.
Actions	EG to work with ME and EB to develop an updated costing for invited speakers and the
	workshop.
	EG to organise a follow up skype meeting for the working group
	Working group: a finalised programme to be ready in the next couple of weeks.
5	Annual Review of GC Position Paper and 2018-19 priorities
Notes	PGRS suggested to include climate injustice and forced migration to the document and
	to use the list of SDGs included as starting point of any discussion in Perth.
	,
	• JH confirmed the revised document reflects well the request made by the partnership
	board to align the steering group priorities to SDGs and identify possible opportunities
	for WUN.
	AN and OPD suggested to align the research to SDGs without proposing any timescale.
	If a timescale is proposed by UN, this could be used by the group to identify any urgency
	and set priorities without setting goals that might not be realistic.
	The group approved the statement.
A -1:	<u> </u>
Actions	• EG: to include the updated position paper on the documents to be circulated prior the
	workshop and AGM in Perth.
6	Research Development Fund 2017 awards
Notes	La Daniant of navilla friedral moderate baselines is a fee feel of the Co. Co. Co. Co.
	Report of newly funded projects has been circulated to the group for information.
	MH invited the group to look at the RDFs funded in December and check if any of the
	MH invited the group to look at the RDFs funded in December and check if any of the leading academics could be invited to join the RCC steering group.
Actions	MH invited the group to look at the RDFs funded in December and check if any of the
Actions	MH invited the group to look at the RDFs funded in December and check if any of the leading academics could be invited to join the RCC steering group.
Actions	 MH invited the group to look at the RDFs funded in December and check if any of the leading academics could be invited to join the RCC steering group. All: to identify any academic leading the RDFs recently funded that could be invited to
	 MH invited the group to look at the RDFs funded in December and check if any of the leading academics could be invited to join the RCC steering group. All: to identify any academic leading the RDFs recently funded that could be invited to join the RCC Steering Group. Cooperation with WUN Groups
7	 MH invited the group to look at the RDFs funded in December and check if any of the leading academics could be invited to join the RCC steering group. All: to identify any academic leading the RDFs recently funded that could be invited to join the RCC Steering Group.

	workshops. This is to ensure the cross-cutting themes are engaging with the steering group members instead working in isolation.
	The groups have been invited to nominate members to join each steering groups.
	Nominations should be completed before the AGM in Perth.
Actions	N/A
8	Global Challenge Group Fund Priorities 2018
Notes	PGRS asked the group to start to think on how the budget for next year could be
	allocated.
Actions	All: to think how the budget could be allocated next year, based on the priorities
	identified.
9	Any other Business
Notes	No other Business

Date and time of next meeting

EDM	1	Monterrey	US EST	Belo Horizonte	GHA	LON	CET	Cape Town	Nairobi	Perth/ China	SYD	AUK
					W	'UN AGM,	Perth					
					2	0-22 May	2018					

Global Challenge Steering Group – Responding to Climate Change

May 2018

The WUN Global Challenge on Responding to Climate Change encapsulates a number of innovative research projects that address scientific, cultural, health and social issues. Changes to our climate are leading to environmental changes, food and water shortages, and population displacement and migration. Collaborative and multi-disciplinary research programs are a crucial component of our response to these emerging problems, and experts from across the globe need to work together to explore sustainable approaches to how we can best adapt to a changing climate. Broad themes of the research include: The drivers and pressures of climate change, The states of and impacts on systems affected by climate change, and Managing a response to climate change.

Steering Group email: acc sg@lists.wun.ac.uk

Steering Group Member	University	Affiliation	Email	EA	EA email	Member since
Professor Peter Smith	University of Southampton	Chair	Peter.Smith@soton.ac.uk			August 2016
Professor Peter Davies	University of Western Australia	Vice-Chair	peter.davies@uwa.edu.au	Keryl Pierce	keryl.peirce@uwa.edu.au	Sept 2012
Professor Tim Benton	University of Leeds	Expert	t.g.benton@leeds.ac.uk			May 2014
Dr Eloise Biggs	University of Western Australia	Expert	Eloise.Biggs@soton.ac.uk			August 2014
Professor Debra Davidson	University of Alberta	Expert	debra.davidson@ualberta.ca			August 2014
Professor Mark Eisler	University of Bristol	Expert	mark.eisler@bristol.ac.uk			April 2015
Professor Tore Furevik	University of Bergen	Expert	tore.furevik@gfi.uib.no			May 2014
Professor Andreas Neef	University of Auckland	Expert	a.neef@auckland.ac.nz			Feb 2014
(Deputy: Associate Professor J.C. Gaillard)			(jc.gaillard@auckland.ac.nz)			
Dr Maud Huynen	Maastricht University	Expert	m.huynen@maastrichtuniversity.nl			Feb 2014
Professor Lawal Marafa	Chinese University of Hong Kong	Expert	lmmarafa@cuhk.edu.hk			June 2014
Associate Professor Budiman Minasny	University of Sydney	Expert	budiman.minasny@sydney.edu.au			Oct 2015
Professor Mark New	The University of Cape Town	Expert	mark.new@uct.ac.za	Shirley Whitmore	shirley.whitmore@uct.ac.za	Oct 2011
Associate Professor Om Parkash	University of Massachusetts Amherst	Expert	parkash@umass.edu			Jan 2016
Professor Guy Poppy	University of Southampton	Expert	G.M.Poppy@soton.ac.uk			May 2011
Professor Susan Gourvernec	University of Southampton	Expert	susan.gourvenec@southampton.ac.uk			TBC
Mr Jon Price	The University of Sheffield	Expert	jon.price@sheffield.ac.uk	Holly Rezaie	h.rezaie@sheffield.ac.uk	May 2011
Professor Chjeng-Lun Shieh	NCKU	Expert	shieh@dprc.ncku.edu.tw			Sept 2017
Associate Professor Judith Berman	University of Western Australia	Coordinator	judith.berman@uwa.edu.au			May 2014
Ms Eleonora Gandolfi	University of Southampton	Coordinator Lead	E.Gandolfi@southampton.ac.uk			May 2014
Dr Stefan Scherer	University of Alberta	Coordinator	stefan.scherer@ualberta.ca			May 2011

SUSAN GOURVENEC

BEng, PhD, FIEAust, FICE





susan.gourvenec@southampton.ac.uk

https://www.southampton.ac.uk/engineering/about/staff/smg1g17.page



@SusanGourvenec



susan-gourvenec



Susan Gourvenec

I joined the University of Southampton in September 2017 following 16 years at the Centre for Offshore Foundation Systems at the University of Western Australia and have retained a visiting appointment through the transdisciplinary UWA Oceans Institute. Prior to moving to Australia, I was at Cambridge University following a PhD from the University of Southampton and undergraduate degree from Queen Mary and Westfield College, London.

I am Professor of Offshore Geotechnical Engineering in the Faculty of Engineering and the Environment at the University of Southampton.

I am a specialist of offshore geotechnical engineering, which involves developing technologies and methodologies to characterise the engineering properties of the seabed and advance geotechnical design of infrastructure that is founded on or in the seabed. My research work provides industry-ready solutions for safe and efficient seabed engineering.

Offshore geotechnical engineering contributes to unlocking food and energy from our oceans and facilitating transport of people and goods by sea.

I work in a transdisciplinary context to address the challenges of decommissioning offshore infrastructure and have interests in life-cycle effects of decisions made in regards to provision, operation and disposal of civil infrastructure.

I am committed to providing high quality, relevant and engaging education for the next generation of geotechnical, civil and offshore engineers and have developed and delivered courses into undergraduate and postgraduate curricula as well as short courses for industry internationally.

I have co-authored the text book "Offshore Geotechnical Engineering", chaired and co-edited the proceedings of international conferences, and authored of over 100 international scientific papers.

I work collaboratively with industry partners through research projects and through my role as a consultant to industry. I am a Fellow of the Institution of Engineers Australia and of the Institution of Civil Engineers, UK, and an elected member of the International Standardisation Organisation (ISO) committee responsible for developing industry standards for offshore geotechnical design.



Global Challenge Steering Group Strategic Review Position Paper

Directions

A fundamental review of WUN, to evolve and be fit for future purpose and priorities, is in progress. Consultations for options, opinions and data, including governance representatives and the internal and external stakeholders of WUN, will be presented at the Annual Conference and AGM in Perth. The future directions and priorities of WUN will form the sinews of the new Strategic Plan, formulated and implemented in 2017-18. This includes the research, education and mobility programs, function of board and secretariat, and funding strategies.

In order to fully engage the Global Challenge Groups, who are the main base of WUN activities, we request that you prepare a short position paper that summarises at high level, (i) major achievements of WUN in 2013-16, (ii) and major priorities 2017-20, and (iii) the top five papers, grants and outcomes over the past three years.

Global Challenge: Responding to Climate Change

Responding to Climate Change

Summary objectives and rationale: Why is your Global Challenge an appropriate area of primary focus for WUN, and why should it continue to be so? (maximum 200 words)

The WUN Responding to Climate Change (RCC) Global Challenge is a collaborative process bringing together world's leading researchers to develop appropriate strategies around how society needs to adapt to climate change. Links are being made to global initiatives in the area such as the recently-announced UN Sustainable Development Goals. The 2030 Agenda for Sustainable Development was endorsed by world leaders at the September 2015 meeting of the UN.

The WUN Global Challenge on Responding to Climate Change is reforming itself around the UN Sustainable Development Goals, and while in the past has focused on water management, food, nutrition & environment security, forced migration, community resilience, disaster responsiveness, decarbonisation of communities it will, going forward, continue to reinvent itself around the SDGs. To date RCC encapsulates a number of innovative research projects that address environmental, food, energy, political, cultural, health and social issues. Changes to climate are leading to environmental changes, food and water shortages, food safety, the blue economy, and population displacement and forced migration. Collaborative and multi-disciplinary research programs are a crucial component of our response to these emerging problems, and experts from across the globe need to work together to explore sustainable approaches to how we can best adapt to a changing climate.

A remapping of the core fundamentals of RCC to the new SDGs is discussed in the additional comments section. As RCC is present in so many UN SDG indicators it is planned to use the coming period to critically examine the wide range of SDG indicators and focus on a narrower range of goals.

The RCC Global Challenge is designed to effect policy-informed, evidence-based responses to climate change through combining:

- Exceptional links with key international agencies and critical datasets
- Globally leading expertise in food and nutritional security, food safety, water management, ocean
 acidification, sea- level rise, energy, de-carbonisation, health impacts of climate change, forced
 migration (as a cross-cutting theme) and land use change.

Geographic differences and farm platforms on all continents to extend the global relevance of that research.

The RCC Global Challenge has identified the following policy impact areas:

- 1. Climate justice as a guiding principle of responses to climate change: this concept emphasises the moral and political dimension of climate action and recognises the historic responsibility that industrialised nations have for the phenomenon of climate change (I believe that this is something that has been badly missing in our challenge so far).
- 2. The Food-Water-Energy-Climate Nexus as a tool for analysing climate policies and its various tradeoffs
- 3. Climate-induced migration within and beyond national borders
- 4. Alignment of public health and climate change policies

Current Status: Outline major directions, priorities, programs (IRGs), workshops, and achievements. from 2013-15. (maximum 500 words)

2013-2014

Focus Areas 2014-2015 as identified in AGM report

- Enhancing Food Security through Urban Agriculture
- Ancient Soils and Modern Land Use A Challenge for Critical Zone Science
- Developing compatible energy & climate strategies
- Global Farm Platforms for optimisation of grazing livestock production
- Managing the Globalisation of Water Services
- The impact of climate change on the socio-ecology of animals
- Climate Change in the Media

Successful RDF Applications (2014 Round)

- Himalayan Climate Change: Debris Covered Glacier Response, Water Availability, Biodiversity and Ecosystem Response
- Health promoting responses to climate change
- Climate change: Understanding Systemic Shocks in Integrated Infrastructures
- <u>Transcultural Understanding of Designing with Climate Change: A Joint Design Research</u>
 <u>Studio Approach</u>
- Legumes as the hub of diversification and adaptation to climate change in Mediterranean agriculture

2014-2015

Highlights as identified in AGM report

- Global Farm Platforms
- Urban Agriculture
- Soil Science Summer School

Successful RDF Applications (2015 Round)

- Healthy-Polis Developing Urban Lifecourse Approaches in response to Climate Change
- Climate Resilient Open Partnership for Food Security (CROP-FS)
- Building sustainable mountain systems in sub-Saharan Africa: assessing the linkages between communities, ecosystem services, environment and health
- Exchanging mobility for intensification modes of livestock production in African pastoral systems: trade-offs and challenges for pastoralists' climate change adaptive capacity.
- Impacts of future climate and land use changes on public health and food security in Sub-Saharan Africa and South East Asia
- Non-market valuation of loss and damage under climate change

2015-2016

Highlights as identified in AGM report

5 new RDF awarded in December 2015 (50% success rate)

- 27 active projects producing 51 publications, over £9M external funding secured, 14 conferences, 12 cases of policy impact
- UWA Summer School
- Global Farm Platforms
- UNFCCC COP21
- Critical Zones Observatories
- Legumes Conference in China
- WUN Web Observatories Disaster Management

Additional from 2016

UNFCCC COP22

Successful RDF Applications (2016 Round)

- Impacts of Grain Legume Research and Development in Developing Countries
- New insights into the transmission of Angiostrongylus lungworms by gastropods under climate change: a comparative approach

2016-2017

Successful RDF Applications (2017 Round)

- Facilitating international research collaboration between economists working on the integration of renewable generation into electricity markets
- Impact of ocean warming and acidification on marine fish production. The trans-nationalisation of Indigenous movements: the role of digital technologies.
- Wind or Solar? The Political Economy of Fuel Competition between Renewables.
- "The Belt and Road" Green Development: international Culture, Climate Change, Energy Investment and Environmental Protection.

Future Directions: What are your predicted priorities for the next three years?

How might the global environment might affect this?

What work should grow and/or be added? What should be reduced and/or stopped? (maximum 500 words)

Going forward the RCC Global Challenge will look at increased emphasis on 'response to climate change' rather than underlying physical drivers and processes. With grant opportunities, taking a more tactical (responsive to opportunities) view rather than strategic (taking a wider view which, in some circumstances, could be outside funding opportunities). The group will make use of strategic resources among the partners of WUN, including Farm Platforms and major national initiatives that develop in all regions where WUN operates.

Data: Indicate your Global Challenge group's

- Five top publications;
- Five top grants;
- Leading strategic workshops;
- Key points of influence;
- Sustainable programs that have or are currently emerging (e.g. Critical Zones, Migration; Ageing Health, Higher Education Access, etc);
- Top think tank contributions.

(maximum 500 words)

Five top publications:

- Julien Chaisse (Editor) The Regulation of Global Water Services Market (London: Cambridge University Press, forthcoming 2017) 314 p.
- Biggs, E.M., Bruce, E., Boruff, B., Duncan, J.M.A., Duce, S., Haworth, B.J., Horsley, J., Curnow, J., Neef,

- A., McNeill, K., Pauli, N., Van Ogtrop, F. and Imanari, Y. (2015): Sustainable development and the water-energy-food nexus: a perspective on livelihoods. Environmental Science & Policy 54: 389-397.
- Rassim Khelifa et al. (2016). North Africa: Stop slaughter of migrating songbirds. Correspondence. Nature 535 (7610):37-37. DOI: 10.1038/535037a
- Klaus Nusslein and Om Parkash Dhankher (2016). Project management: Food security needs social-science input. Correspondence. Nature 535 (7610): 37 (07 July 2016). DOI: doi:10.1038/535037d
- Christine Foyer and Om Parkash Dhankher (2017). Special issue on "Climate Resilient Crops" with 22 manuscripts related to Climate Resilient crops and strategies for crop improvements were published online. Plant, Cell and Environment (print issue will come out in 2018).

Five top grants:

- EU, Marie Curie ITN, EU, Adaptation and Resilience in East Afica, 3.5 Million Euro
- Australian Research Council, Linkage Projects, Australia, Collecting the West: Reimagining Western Australia from its collections, \$1.2 million, 2017-2020, Prof Alistair Paterson (with Partner Investigator British Museum, JD Hill)
- Centre for Doctoral Training, EPSRC and NERC UK, £2,000,000.
- Bergen Research Foundation Recruitment Grant, Bergen, Norway. Project title: European cities as actors in climate and energy transformations. NOK 20 million, 2016-2020. PI Håvard Haarstad.
- Department for Business, Innovation & Skills/British Council. Global Innovation Initiative. UK. 2014-2016. Global Farm Platforms for Sustainable Ruminant Livestock Production. £248K Professor Mark Eisler, Professor Michael Lee, University of Bristol; Balasundaram Ashok, T.P. Sethumadhavan, Deepa Ananth, Kerala State Veterinary and Animal Sciences University. Professor Molly Jahn, Dr Sarah Collier, Dr Dennish Busch, Dr. Greg Sanford, University of Wisconsin; Professor Jianxin Liu, Dr Diming, Zhejiang University;

Leading strategic workshops:

- Combined International Workshop on Sustainable Livestock Production Systems and IPA Project Meeting on Health and Welfare of Dairy Cattle in India, Kerala Veterinary and Animal Sciences University, 17-21 August
- COP22
- CROP-FS project conducted three International Workshop of global food security under changing climate at Leeds, Zhejiang and UMass in 2016 and 2017.

Key points of influence:

- COP 22: Marrakesh. Parallel session. Petra Tschakert (UWA) has now been appointed Coordinating Lead Author for Chapter 5 (Sustainable Development, Poverty Eradication, and Reducing Inequalities) of the IPCC Special Report on 1.5oC Global Warming. This following the COP22 meeting in Marrakesh (facilitated by WUN). The Australian Govt and UWA will cover her costs.
- IWMI, 2015. Spatially Assessing Environmental Livelihood Security in Southeast Asia and Oceania. Water Policy Brief International Water Management Institute, Colombo (policy summary for Biggs et al. (2014) white paper) Online at: http://www.iwmi.cgiar.org/environmental-livelihood-security.
- CUHK has constructed a website for the WUN Symposium cum Research
- Summit: http://csr.cuhk.edu.hk/legumes2017/. A total of 50 young scientists (open to PGs and ECRs)attended. The main symposium was preceded by young scientist symposium and competition.

Sustainable programs that have or are currently emerging (e.g. Critical Zones, Migration; Ageing Health, Higher Education Access, etc);

- Global Platforms
- Forced migration

Other comments: Enter any further relevant comments in this section. This may include, but need to be limited to, outlining interaction with other Global Challenges and/or Cross-cutting Themes. (maximum 200 words)

A key development of the 2017 WUN AGM was to consider mapping of WUN priorities onto the UN Sustainable Development Goals, and while WUN is a Research Network, and not a development agency, and also noting that the SDG indicator list is far from providing a Mutually Exclusive and Collectively Exhaustive

(MECE) Framework, it does provide a good starting point.

- The Final List of UN SDGs contains very many themes that relate to RCC, but a particularly key set is listed in the following table
- 1.5 "By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters'
- 2.3 "By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access
- to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment
- 2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality
- 2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed
- 6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally
- 6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes
- 7.a By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy
- 9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities
- 11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations
- 12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and sup
- 12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment
- 12.a Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production
- 12.c Rationalize inefficient fossil-fuel subsidies that encourage wasteful consumption by removing market distortions, in accordance with national circumstances, including by restructuring taxation and phasing out those harmful subsidies, where they exist, to reflect their environmental impacts, taking fully into account the specific needs and conditions of developing countries and minimizing the possible adverse impacts on their development in a manner that protects the poor and affected communities.

Goal 13. Take urgent action to combat climate change and its impacts (all goals and targets)

- 14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans
- Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss (all goals and targets).

There are also obvious linkages with "Public Health", e.g. the impact of heat waves and other climate-

induced disasters and shocks on health and well-being. A cross-cutting, policy-relevant theme could be "Aligning Public Health and Climate Change Policies". The important cross-cutting themes include forced migration and, operationally, the use of global platforms. New linkages could be established with the theme "Understanding Cultures", e.g. by focusing on indigenous knowledge and other localized knowledge systems with regard to climate change adaptation and disaster risk management. A cross-cutting theme could be named "Building Resilience Cultures".

6

A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Υ
Title 2	Principal Investgator	GC	ALB	AUK	BER	BRI	UFMG	CUHK	GHA	LEE	MAA	NAI	NCKU	REN	ROC	SHE	SOU	SYD	TEC	UCT	UMAS	UWA	YRK	ZJU
African Solutions to African Problems- Translating Indigenous Systems, Plants and Microbial Biodiversity into Drug Candidates for Neglected Tropical Diseases	Dorcas Osei-Safo	PH																						
Health Education Access and Mobility for Musicians: A global 4 approach	Suzanne Wijsman	GHEAR/PH /UC																						
Facilitating international research collaboration between economists working on the integration of renewable generation into electricity markets	David Brown	RCC																						
The Role of Big Data in Addressing the Determinants of Non- communicable Diseases in the Ageing Era	Simon Poon	PH																						
Resilient Peace: Exploring resilient peacebuilding actors, cultures and policy transfer in West Africa	Ana E. Juncos	UC																						
8 Marriage Migrants in Asia	Su-lin Yu	UC																						
Communicating Good Health and Wellbeing: Promotion, Advocacy and Resilience	Rob Cover	PH/UC																						
The effectiveness of health service/investment interventions aimed at reducing inequalities in health among older people in China: a longitudinal study	Zhixin Feng	PH																						
11 Impact of ocean warming and acidification on marine fish production	Joy Becker	RCC																						
An Intersectional Exploration of Religion and Gender-Based 12 Violence: A Case Study of Accra in Global Context	George Ossom-Batsa	UC																						
The trans-nationalisation of indigenous movements: The role of digital technologies	Michael Myers	RCC/UC																						
Wind or Solar? The Political Economy of Fuel Competition between 14 Renewables	Yuan Xu	RCC																						
15 Social innovation and elderly care	Ka Lin	PH/UC																						
	Qinhua Xu	GHEAR/PH /UC <mark>/RCC</mark>																						
Title 17	Principal Investgator	GC	ALB	AUK	BER	BRI	UFMG	CUHK	GHA	LEE	MAA	NAI		REN	ROC	SHE	SOU	SYD	TEC	UCT	UMAS	UWA	YRK	ZJU
18 Key	_																							

19 **Lead university**

20 Partner university