



Workshop on UK-Brazil collaboration for investigating the nexus between water, health and urban resilience



Prof João Porto de Albuquerque
Director of the Institute for Global Sustainable Development

29 April 2019 /University of Warwick

AGENDA

- Overview of the Institute for Global Sustainable Development
- UK-Brazil Collaboration Water-Health-Resilience

INSTITUTE FOR GLOBAL SUSTAINABLE DEVELOPMENT

- Hub for transdisciplinary research with transformative impact to global sustainable development and UN's global goals
- A research team with core capabilities, working in close collaboration with a network of academics of different departments and GRPs
- Strategy and structures being established for launch in August 2019



INSTITUTE FOR GLOBAL SUSTAINABLE DEVELOPMENT

► Current research portfolio:

– **Disaster resilience**

‘Waterproofing Data’ project on floods in Brazil (PI: €1m ESRC/GCRF/Belmont Forum grant)

– Urban health

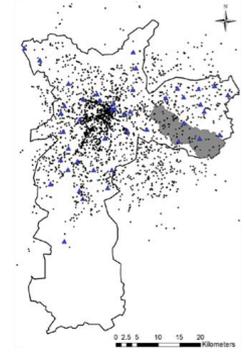
“NIHR Global Health Unit on Improving Health in Slums” – Geo-spatial mapping of slums (Co-I: £6m NIHR grant)

– Sustainable urbanization and the Food-Water-Energy Nexus

“Creating Interfaces” project (Co-I/UK PI: €1.2m Belmont Forum/ESRC)

– Urban sustainable development (SDGs)

Collaborations with UN Habitat, MSF, British Red Cross



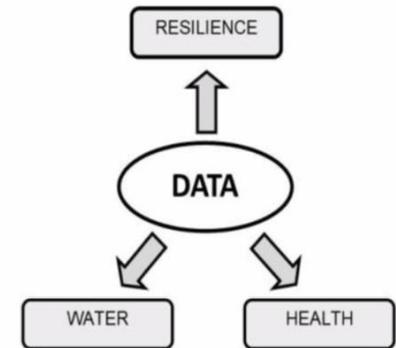
Antecedents: co-producing a research agenda

- ▶ “Pump priming”: EPSRC GCRF Institutional Award / Warwick-Brazil Partnership Fund / RDF
 - Field Trips and workshops in UK and Brazil (2016, 2017)
 - Established an interdisciplinary network and a collaborative research agenda
 - Piloted innovative methods to understand how emerging data sources could improve resilience to floods and landslides



UK-BRAZIL COLLABORATION WATER-HEALTH-RESILIENCE NEXUS

- Investigate interdisciplinary methods and innovative approaches for collecting, curating and presenting distinct types of data to improve health, sanitation and resilience of disaster affected communities, with particular focus on flooding.
- Foster collaboration among the members of the network and generate further collaborative project proposals involving researchers from Warwick and USP.
- Develop innovative interdisciplinary methods to investigate the Water-Health- Resilience nexus with innovative interdisciplinarity methods.



Launch Workshop, São Carlos, 5 November 2018



Free-of-Charge International Workshop

'Water, Health and Urban Resilience'



INCT MC2
INCT para Mudanças
Climáticas - Fase 2



MOXXI Measurements & Observations in the 21st Century
Working Group - International Association of Hydrological Sciences



9:00 – 9:30	Arrival
9:30 – 10:00	Welcome address – Prof João Porto de Albuquerque (University of Warwick, Director of the Institute for Global Sustainable Development)
10:00 – 12:00	<u>Session 1: Water management and flood prevention for enhancing urban resilience</u>
10:00 – 10:30	Maria Clara Fava (University of São Paulo, São Carlos School of Engineering) – <i>'A Multiobjective Optimization Approach for Flood Risk Management Towards Resilient Cities'</i>
10:30 – 11:00	Dr Jonathan Clarke (University of Warwick, School of Cross Faculty Studies) – <i>'Sustainable Water Pathways: Urban resilience through design and governance'</i>
11:00 – 11:45	Vangelis Pitidis (University of Warwick, Institute for Global Sustainable Development) – <i>'Alternative ways of confronting urban flooding: The Waterproofing Data project'</i>
11:45 – 13:00	LUNCH

Programme

13:00 – 15:00

Session 2: Improving urban health for boosting urban resilience

13:00 – 13:30

Prof Alexandre Delbem (University of São Paulo, CeMEAI) -
*Modeling multidisciplinary city management departments as they are
in order to achieve social resilience*

13:30 – 14:00

Dr Navneet Aujla (University of Warwick, Warwick Medical School) –
‘Global Healthcare Quality in an Urban Setting’

14:00 – 14:30

Heber Carvalho (Federal University of São Carlos) – *‘From networks
to networks (N2N) driven in the water, resilience and health issues:
an integrated and systematic strategy supported by data science to
discovery, analyse, design, connect and optimize networks in the
goods and service economy to establish and achieve the sustainable
development’*

14:30 – 15:00

Jonathan Davies (University of Warwick, Warwick Institute for the
Science of Cities) – *‘Online platforms for public participation - A
democracy or a delusion?’*

15:00 – 15:30

Coffee Break

15:30 – 17:30

Session 3: The role of citizen engagement in promoting urban resilience

15:30 – 16:00

Livia Castro Degrossi (University of São Paulo) – *'A strategy for big data analysis towards urban resilience-water nexus'*

16:00 – 16:30

Natalie Rothwell (University of Warwick, Warwick Institute for the Science of Cities) - *'The role of data in terms of evidencing the impact of housing on gendered, urban poverty'*

16:30 – 17:00

Wrapping up and reflections on the workshop

17:00 – 17:30

Closing Remarks - Prof Eduardo Mario Mendiando (University of São Paulo, São Carlos School of Engineering)

18:00

Group Dinner

Thank you



WARWICK

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29 April 2019 / UK-Brazil Collaboration on the Water-Health-Resilience Nexus