GCRF



# RISING FROM THE DEPTHS



Bournemouth University

UTILISING MARINE CULTURAL HERITAGE IN EAST AFRICA
TO HELP DEVELOP SUSTAINABLE SOCIAL, ECONOMIC AND CULTURAL BENEFITS



A 4-yr project (2017-2012) funded by the UK Global Challenges Research Fund (GCRF) through the Arts & Humanities Research Council Network Plus (Grant Ref: AH/R005443/1)

Theme 3 Using Maritime space: Development, Innovation and Resilience

Potential research opportunities related to coastal management approaches

Dr Luciana S. Esteves
Associate Professor
in Physical Geography

**Dr Cari Ballesteros**PDRA

Pauline Bricker
Intern

Department of Life & Environmental Sciences
Faculty of Science & Technology
Bournemouth University



# AHRC and Global Challenges

(From: Adam Walker, Head of Languages, Literature and International Engagement (a.walker@ahrc.ac.uk)

Overarching themes:

**Addressing Inequalities Capacity building** 

**Cohesive communities** 

Legal & ethical frameworks

**Cultural** and human

approaches to

disease & global

health issues

communities

heritage

Migration and diasporas Wellbeing

Sustainability

Recognising the centrality of the human experience is essential to addressing global challenges













#### **CONFLICT & HUMANITARIAN ACTION**

approaches to conflict

refugee crises, people on

The media &

politics and power

Situating transnational

Community engagement & participatory governance

#### **CULTURE &** HERITAGE

Language, cultura communicat multiculturalism. identities

Preserving & learning from cultural Conflict memory and reconciliation. intangible heritage transitional justice & building cohesive

> heritage Cultural preservation & conflicted

Threats to heritage

Sustainable

# **CREATIVE**

Conservation. tourism and heritage economies

Culture, creativity & developing experience economies

Capacity building in museums, archives & galleries

> Digital transformations & big data

**Building science** capacity

# CONOMIES

& understanding the namics of the creative industries

Urbanisation

**Nurturing creative** clusters & KE through creative intermediaries

> **Enhancing** opportunities for creative SMEs/

creativity, innovation

& the entrepreneurial

New copyright/ IP models for the creative & digital

& co-production

methods

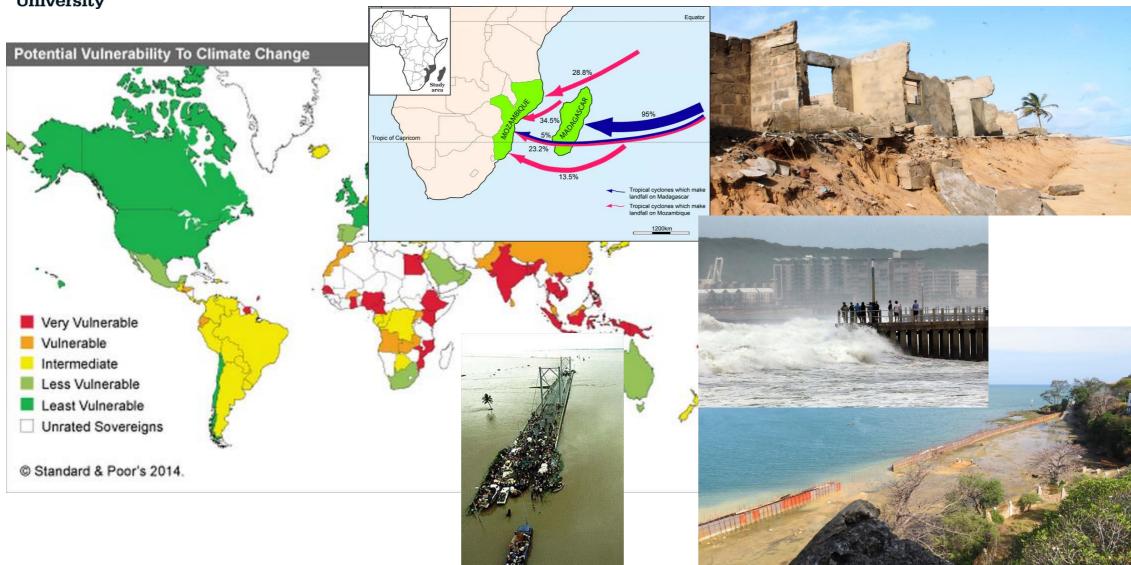
g participatory

**Design for social** need & growth

microbusinesses



# Marine and coastal zone challenges (climate change and natural hazards)





# Marine and coastal zone challenges (human-induced)



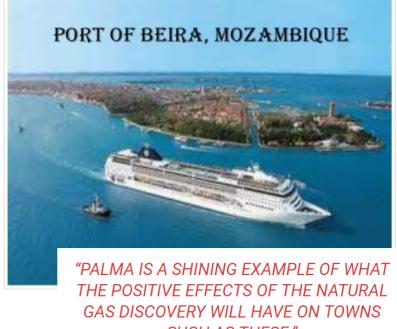
## Indian firm to invest \$500M in Mozambique port construction

O January 09, 2018 to 16:01

APA-Maputo (Mozambique)

India's Essar Ports Group has announced plans to invest \$500 million in the construction of a port with thecapacity to handle 20 million tonnes of coal per annum in Mozambique's central port city of Beira, APA can report.





SUCH AS THESE."

http://www.reimag.co.za/2015/11/04/africa-palma-the-new-gem-of-mozambique/



# What we are looking for?

## **Topics**

Environmental change

Coastal processes and management

**Ecosystem services** 

Erosion and flood risk

Vulnerability and adaptation

Marine spatial planning

### Innovative/Creative approaches

Interdisciplinarity
Citizen science
Data compilation and analysis
Capacity building
Mapping and monitoring
Stakeholder engagement

Socially-driven
Science-based
Technology-led

#### **Typology**

**Estuaries** 

Saltmarshes and mangroves

Sandy coasts

Mixed sediment systems

Rocky coasts

Urban and rural

#### **Geography - scales**

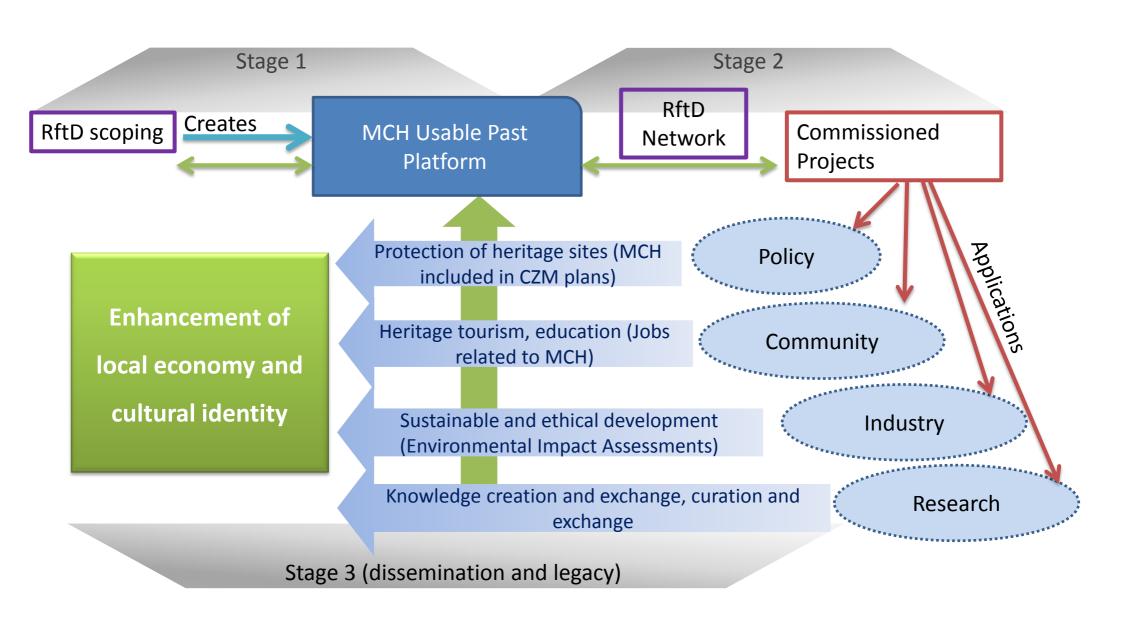
Regional (East Africa, Western Indian Ocean)

National (Mozambique, Kenya,

Tanzania, Madagascar)

Local (cities, coastal

communities)





What are the MCH assets in the view of local people? Are they at risk?

#### Identifying/mapping MCH/vulnerability and risk analysis



How local communities perceive coastal change?

Traditional knowledge

Social surveys/workshops/forum

How does coastal change affect their lives/MCH assets?

How have they adapted to coastal change? What options are there for the future?

**KE** activities

What coastal management approaches may reduce environmental and social vulnerabilities (affecting MCH)?

Policy analysis and contrasting with implementation practices



# Research to date at BU

We aim to assess current climate-related and human-induced threats to coastal and maritime heritage in East Africa.

We are creating a database on existing regional data and other disperse data we are collating hope to share data on our website.

- Literature review on hazards and climate change affecting coastal East
   Africa
- Identification of coastal hazards and climate change indicators
- Some difficulties in finding detailed local data
- Input required on the link between climate change/coastal hazards and specific impacts on marine cultural heritage