

FUTURE EARTH COASTS (LOICZ) African Regional Network Initiative

LOICZ- Land-Ocean Interactions in the Coastal Zone

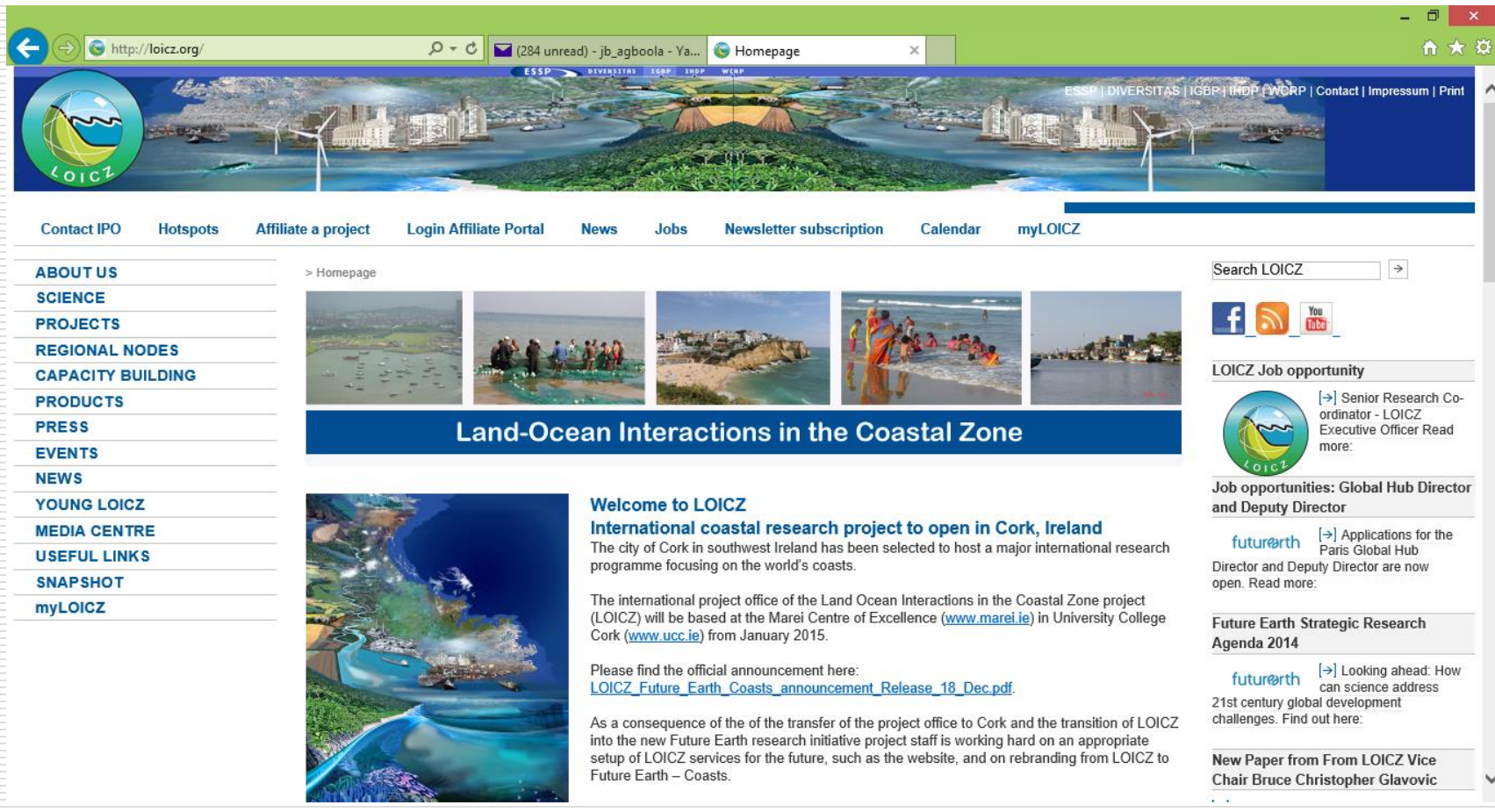


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FUTURE EARTH COASTS (LOICZ)

Network Development for Africa



The screenshot shows the LOICZ website homepage. At the top is a navigation bar with links: Contact IPO, Hotspots, Affiliate a project, Login Affiliate Portal, News, Jobs, Newsletter subscription, Calendar, and myLOICZ. Below this is a large banner image titled "Land-Ocean Interactions in the Coastal Zone" showing a coastal landscape with wind turbines, a city, and a river. To the left of the banner is a sidebar menu with links: ABOUT US, SCIENCE, PROJECTS, REGIONAL NODES, CAPACITY BUILDING, PRODUCTS, PRESS, EVENTS, NEWS, YOUNG LOICZ, MEDIA CENTRE, USEFUL LINKS, SNAPSHOT, and myLOICZ. To the right of the banner is a search bar and social media icons (Facebook, RSS, YouTube). Below the banner is a section titled "Welcome to LOICZ" with the text: "International coastal research project to open in Cork, Ireland. The city of Cork in southwest Ireland has been selected to host a major international research programme focusing on the world's coasts. The international project office of the Land Ocean Interactions in the Coastal Zone project (LOICZ) will be based at the Marei Centre of Excellence (www.marei.ie) in University College Cork (www.ucc.ie) from January 2015. Please find the official announcement here: LOICZ_Future_Earth_Coasts_announcement_Release_18_Dec.pdf. As a consequence of the of the transfer of the project office to Cork and the transition of LOICZ into the new Future Earth research initiative project staff is working hard on an appropriate setup of LOICZ services for the future, such as the website, and on rebranding from LOICZ to Future Earth – Coasts." To the right of this section is a "LOICZ Job opportunity" section with the text: "Senior Research Co-ordinator - LOICZ Executive Officer Read more: [Link]". Below this is a "Future Earth Strategic Research Agenda 2014" section with the text: "Looking ahead: How can science address 21st century global development challenges. Find out here: [Link]". At the bottom right is a "New Paper from From LOICZ Vice Chair Bruce Christopher Glavovic" section.

Keywords: Coastal Zone Management, Environmental Change, Social-Environmental Systems, Coastal Resources (Fisheries), Africa.....OCEAN ACIDIFICATION???

Land-Ocean Interactions in the Coastal Zone (LOICZ) now **FUTURE EARTH COASTS**



LOICZ is a core project of the:

- ❑ International Geosphere-Biosphere Programme (IGBP)
- ❑ International Human Dimensions Programme on Global Environmental Change (IHDP)
- ❑ Earth System Science programmes of the:
 - ❑ **International Council for Science (ICSU)**
 - ❑ **International Social Science Council (ISSC).**





Vision and Mission

Vision

LOICZ is working to support sustainability and adaptation to global change in the coastal zone.

Mission

Support adaptation to global change by linking natural and social sciences with knowledge of coastal communities at global, regional and local scales.

Operate as an international research project and global expert network exploring the drivers and social-environmental impacts of global environmental change in coastal zones.



The **FUTURE EARTH COASTS** community includes

- Scientific Steering Committee
- more than 1000 individual scientists
- around 400 Affiliated Projects world-wide since 1995, 30 currently operating
- 5 Regional Nodes plus 4 under discussion
- International Project Office



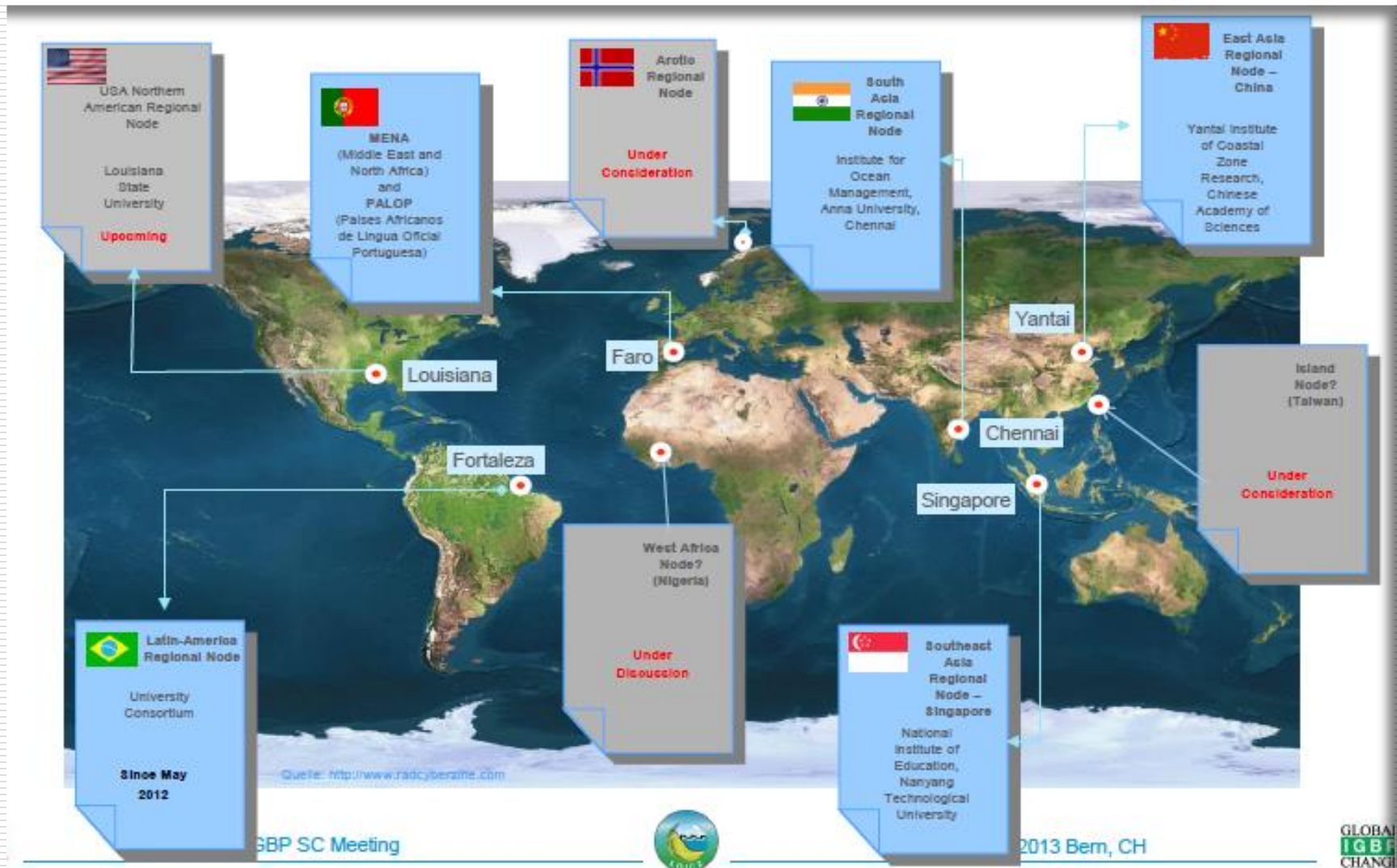
Research Themes



Cross Cutting Activities

→ Ecological economics; → Modelling and global assessments (advice, evaluation, UNEP, GEF, IW-learn) → Capacity building; → Coastal governance; → Social-environmental system analysis, scenarios

Geographical Spread and Potentials



Transition to Future Earth

The transition of LOICZ to Future Earth Coasts is now completed as is the move of the IPO from The Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Research to the MaREI Centre of University College Cork, Ireland.



1st SCIENTIFIC STEERING COMMITTEE MEETING

8 – 12 June, 2015, Cork, Ireland

**Campus of University College Cork and the Naval Base,
Haulbowline, Cobh, Cork**



futureearth
research for global sustainability



WHO WE ARE

NEWS AND EVENTS

SCIENCE

IMPACT

GET INVOLVED

MULTIMEDIA

THE GLOBAL GOALS

For Sustainable Development



1 NO
POVERTY



2 ZERO
HUNGER



3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



5 GENDER
EQUALITY



6 CLEAN WATER
AND SANITATION

Sustainable Development Goals: scientists worldwide mobilised around transformative agenda

Today in New York, world leaders meet at the United Nations to adopt the Sustainable Development Goals, which will begin on January 1st 2016. The goals are a unified vision for all nations to eradicate poverty and develop within planetary boundaries.

Our activities

NEW INITIATIVES

OUR VISION



FUTURE EARTH

It is sponsored by the Science and Technology Alliance for Global Sustainability comprising:

International Council for Science (ICSU),
International Social Science Council (ISSC),
Belmont Forum of funding agencies
Sustainable Development Solutions Network (SDSN)
United Nations Educational, Scientific, and Cultural Organization (UNESCO)
United Nations Environment Programme (UNEP)
United Nations University (UNU)
World Meteorological Organization.

DIVERSITAS

International Geosphere-Biosphere Programme (IGBP)
International Human Dimensions Programme (IHDP)
World Climate Research Programme (WCRP)



FUTURE EARTH COASTS Network Development for Sub-Saharan Africa: Rationale

Scientific Background

- ❑ Research and data on coastal zones and aquatic resource management are inherently scarce and imprecise in Africa and especially West Africa, resulting in high levels of uncertainty in coastal zones and resource predictions.
- ❑ There is the need to expand the information data bases and capacity needed to adapt to and mitigate Global Environmental Change effects.
- ❑ One solution to current problems could be achieved through scientific networking and capacity building initiatives, sourcing information and knowledge sharing



OCEAN ACIDIFICATION

Scientific Network and Partnership with existing International Projects

The Africa scientific network and databases coordination needed to achieve this is currently lacking



FUTURE EARTH COASTS- OCEAN ACIDIFICATION

Network Development for Sub-Saharan Africa

Potential Deliverables /Outputs

- ❑ Formation and consolidation of regional networks of experts, practitioners, decision makers and other stakeholders.
- ❑ Enhanced capacity for Ocean Acidification and Coastal Resources Management Research at regional levels by the support of young scientists.
- ❑ Increased awareness of the importance Climate Change Impact on coastal zone amongst decision makers and other stakeholders at regional levels.



FUTURE EARTH COASTS- OCEAN ACIDIFICATION

- ❑ Promotes regional research networks that conduct research on regional aspects of environmental change including coastal zones, assess impacts and vulnerabilities to such changes and provide information to policy-makers.
- ❑ Embark on strategy of research-driven capacity building to engage the younger generation of scientists in regional research projects and networks.

These three specific goals are integral to the underlying mission of the Future Earth which is to*contribute to the preservation of the global, regional, national and local values of African marine and coastal ecosystems for the benefit of society as a whole.*



Who Are the Stakeholders (Regional/National Levels)

- ☐ **Coastal Managers**
- ☐ **Decision Makers/Policy Makers**
 - ☐ Coastal zone regulating authority (Department of Fisheries....)
 - ☐ Environmental Affairs
- ☐ **Academic/Research Institutions**
- ☐ **NGOs**
- ☐ **Community/Industry**
- ☐ **Resource Users**



CURRENT PROGRESS

Proposed Host Institution for West Africa



University of Lagos, Lagos, Nigeria

- ❑ Proposed joint hosting by two Departments to maximise capacity:
 - ❑ Department of Marine Sciences (Faculty of Science)
 - ❑ Department of Geography (Faculty of Social Sciences)
- ❑ Possible partners
 - ❑ Nigerian Institute of Oceanography and Marine Research (NIOMR)
 - ❑ **Department of Oceanography, University of Ghana????**
 - ❑ **Ivory Coasts, Liberia??????**
 - ❑ Ministry of Environment, Nigeria
 - ❑ The National Oil Spill Detection and Response Agency (NOSDRA)
 - ❑ National Environmental Standards and Regulations Enforcement Agency (NESREA)



Transformation and Resilience on Urban Coasts(TRUC)



TRUC- Six Mega Cities



Transformation and Resilience on Urban Coasts (TRUC)



Lagos Stakeholders' Workshop held on 4th June 2014



Transformation and Resilience on Urban Coasts (TRUC)



Lagos Scenario Workshop held on 30th July 2014



OA ICC



**Regional Engagement , Collaboration and Capacity
Building Support**

**South Africa
West Africa
East Africa
North Africa**

