

INNOVATION FUND

Georisks and climate change in the Caribbean region based on a trans-disciplinary and trans-sectorial approach: integrating science and end-users' needs for innovative and sustainable mitigation and adaptation solutions (GEOACT)

PROJECT CONSORTIUM

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PROJECT COORDINATOR Institut de Recherche pour le Développement (IRD), France



PARTNERS

Association of Caribbean States (ACS), Trinidad and Tobago

Caribbean Science Foundation (CSF), Barbados

Fondation Connaissance et Liberté (FOKAL), Haiti

Sir Arthur Lewis Community College (SALCC), Saint Lucia

Agence Universitaire de la Francophonie (AUF), France

LOCATION

FJ

PERIOD



March 2021 – February 2025

Caribbean region

TOTAL BUDGET



EU FUNDING



PROJECT CONTACT



Mr Eric Calais Institut de Recherche pour le Développement (IRD) eric.calais@ird.fr



CHALLENGE

Island nations in the Caribbean region share similar physiographic characteristics and are exposed to similar environmental threats, such as rising sea levels, ocean acidification, more severe extreme weather phenomena, coastal erosion, earthquakes, tsunamis and volcanic activity. Limited research and innovation frameworks, as well as limited capacity to practice science and innovation locally, are preventing most Caribbean countries from effectively tackling the effects of natural hazards and climate change, and consequently from conserving the environment and developing their societies sustainably.

FOCUS

Civil society organisations (CSOs), citizens, entrepreneurs, innovators, universities, research centres, regional organisations and public authorities will be supported to collaborate in so-called 'living labs'. This will give them the opportunity to share research knowledge, explore digital and project development/management tools, and develop inclusive. smart and sustainable innovative solutions that will enable Caribbean countries to adapt to the effects of natural hazards and climate change.



University structures rarely possess research laboratories and, therefore, have a limited capacity to develop scientific research practical and innovation (R&I) programmes at tertiary education level. Universities and companies sometimes work in parallel to design innovative solutions to tackle natural hazards and climate change, but there is no collaboration between them. In addition, their R&I activities rarely involve multi-stakeholder interactions or the exchange of data, models, innovative solutions and students across the region.

Enhancing the exchange of knowledge and sharing of solutions between public and private stakeholders in the environmental domain is key if we are to increase the countries' capabilities to face the challenges posed by natural hazards and climate change.

By establishing a regional platform with a focus on innovative research in 'living labs' and on solutions to mitigate the effects of natural hazards and climate stakeholders along change, the innovation value chain will be enabled to co-design the solutions of tomorrow, taking advantage of the opportunities offered by digital technologies. Involving end-users of R&I solutions (products and services) in the 'living labs' will potentially increase the efficiency and effectiveness of R&I activities and ensure the development of solutions that are attuned to the local context. Furthermore, establishing partnerships along the innovation value chain that transfer and pool skills between universities and companies particularly micro, small and mediumsized enterprises (MSMEs) will strengthen the process of соconstructing innovative, cost effective solutions.

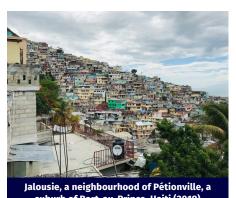






The OACPS R&I Programme is an initiative implemented by the Secretariat of the Organisation of African, Caribean and Pacific States (OACPS) and funded by the European Union (EU) Georisks and climate change in the Caribbean region based on a transdisciplinary and trans-sectorial approach: integrating science and endusers' needs for innovative and sustainable mitigation and adaptation solutions (GEOACT)





suburb of Port-au-Prince, Haiti (2019)

METHOD

GEOACT is generating and disseminating knowledge to support the development of innovative digital solutions that mitigate the effects of natural hazards and climate change. It also facilitates collaboration between R&I actors along the innovation value chain by strengthening their capacities in project development/management, research valorisation and in the co-design of solutions.

GEOACT provides financial support to projects from Caribbean countries, selected through calls for proposals (see website for details), that operate at regional level around the themes of natural hazards and climate change and:

- Map R&I stakeholders and diagnose the status of R&I in the region.
- Build a multi-stakeholder community that is aware of the importance of science-society collaboration in developing useful innovations.
- Design and implement R&I projects in 'living labs' that develop innovative solutions to address the most urgent natural hazard and climate change issues.
- Transfer innovative and sustainable solutions to users in the private sector for positive social and economic benefits, and to public authorities for policy making.

GEOACT provides training to the R&I actors involved in the 'living labs' in:

- Information technologies.
- Research valorisation (contracting, intellectual property, technology transfer, etc.).





- Collective R&I intelligence.
 - Project development/management.
- Financial sustainability of the 'living labs'.
- Networking with actors from the public and private sector.

EXPECTED RESULTS

Impacts

An inclusive R&I environment across the Caribbean region that is able to deal with the regional effects of natural hazards and climate change.

Outcomes

- R&I stakeholders across the Caribbean region collaborating through a regional network to develop and apply innovative R&I strategies to deal with natural hazard and climate change impacts.
- Increased uptake in the region of innovative, inclusive and sustainable solutions to deal with regional natural hazard and climate change impacts.
- R&I stakeholders able to generate, apply and transfer knowledge to innovate for sustainable development.

Outputs

- A shared vision on the creation of a regional R&I ecosystem on the themes of natural hazard and climate change impacts.
- A committed multi-stakeholder community aware of the importance of science-society collaboration in co-designing useful innovations to tackle natural hazard and climate change impacts.
- 'Living labs' established and mobilising actors from research, civil society, industry and public authorities in the development, testing and transfer of innovative and sustainable solutions to tackle regional natural hazard and climate change impacts.
- Skills of actors involved in the 'living labs' strengthened in collective intelligence, open innovation and project development/management; development of solutions, tools and services; and transfer of technologies.





PROGRAMME PRIORITIES

Access to digital literacy, knowledge and use of emerging technologies.

Links between R&I skills development and labour market.

Synergies in the R&I ecosystem (private sector, technology transfer, R&I uptake).

Local and indigenous knowledge.

SECTOR

Natural hazards, climate change

KEY WORDS

multi-stakeholder networks, living labs, digital technologies, small island development states



if@oacps-ri.eu www.oacps-ri.eu



Aerial view of the Cayemites islands off the coast of Haiti (2020)

