

# TERMS OF REFERENCE (ToR)

## Consultancy: development of an interactive dashboard for disaster risk reduction (DRR) in the South West Indian Ocean Region

### 1. General

<b>Projet / Service / Departement</b>	PF364 / PIROI Center / RRC
<b>Purpose of the assignment</b>	Consultancy: development of an interactive dashboard for disaster risk reduction (DRR) in the South West Indian Ocean Region
<b>Country of assignment</b>	Remote
<b>Responsible for the mission</b>	Zoe TREVISAN - DRR Manager, PIROI Center-FRC
<b>Preferred start date</b>	11 August 2025
<b>Desired end date</b>	15 November 2025
<b>Length of assignment</b>	3 months

### 2. Introduction

#### 2.1 Context of the consultancy mission

The countries of the south-west Indian Ocean are exposed to a wide range of natural hazards and the impacts of climate change, such as cyclones, floods, coastal erosion, and rising sea levels. At the same time, the severe degradation of ecosystems – including forests, wetlands, coastal and marine systems, and arid areas, as well as the issue of waste and pollution – is a major factor contributing to increased vulnerability to disasters.

The International Red Cross and Red Crescent Movement, aware of the severe negative impacts of climate and environmental crises on vulnerable populations, continues its efforts to reduce risks and strengthen resilience within local communities. The importance of nature in disaster risk



reduction is widely recognized, and its integration across all areas of action is a top priority for the Red Cross and Red Crescent Movement in all regions.

The South West Indian Ocean region is experiencing a significant increase in Red Cross and Red Crescent's Disaster Risk Reduction (DRR) activities and projects. However, there is currently no centralized digital system to visualize, track, and analyze DRR efforts across the region. To address this gap, PIROI-French Red Cross proposes the development of a Regional Disaster Risk Reduction (DRR) Mapping and Visualization Dashboard.

This dashboard will serve as a one-stop shop for DRR-related information across the region. It will support coordination, knowledge sharing, partner engagement, and evidence-based planning, while enabling the monitoring and strategic alignment of activities with the IFRC Africa Regional DRR and Climate Change Adaptation Framework 2024–2026.

The dashboard will provide real-time insights on DRR efforts, strengthen visibility, and facilitate collaboration between National Societies (NSs), Partner National Societies (PNSs), and other key stakeholders.

## **2.2 Overview of the UE programme INTERREG-OI and of the PIROI Center-FRC**

The PIROI Center is a facility of the French Red Cross (FRC), attached to the Directorate of International Operations (DOI), which has been implementing a regional disaster risk management (DRM) program in the South-West Indian Ocean since 2000.

The PIROI Center is composed of various members of the International Red Cross and Red Crescent Movement:

- The Comorian Red Crescent,
- The French Red Cross,
- The Malagasy Red Cross,
- The Mauritius Red Cross,
- The Mozambique Red Cross,
- The Seychelles Red Cross,
- The Tanzanian Red Cross,
- The International Federation of Red Cross and Red Crescent Societies (IFRC),
- The International Committee of the Red Cross (ICRC).

Based in La Réunion, the PIROI Center brings together skills and resources in close proximity to vulnerable areas, thereby increasing preparedness and the capacity for rapid emergency response to disasters.

This study is being conducted as part of the "Cooperation and Capacity Building Project in Disaster Risk Management – INTERREG 6.2 – 2025," funded by the European Union (EU) and the Réunion Region. The aim of the project is to reduce the vulnerability of communities in the South-West Indian Ocean by promoting regional cooperation in addressing issues related to disaster risk management, which are exacerbated by the impacts of climate change and are shared across the territories of the South-West Indian Ocean region.

The project is a response to the challenges brought about by climate change, which can only be effectively addressed through a joint, regionally coordinated strategy.



The activities proposed in this project aim to reduce the impact of disasters linked to natural hazards, health crises, and climate change by acting on three levels:

- (i) improving the provision of training on disaster risk management (DRM) in the region,
- (ii) capitalizing on and sharing regional DRM expertise, and
- (iii) strengthening the disaster response capacities of stakeholders in the Indian Ocean region.

### **3. General and Specific Objectives of the Consultancy Assignment**

#### **3.1 General Objective**

The consultant will support the PIROI FRC in designing and developing a regional interactive dashboard that maps and visualizes DRR activities across the region. The dashboard will facilitate coordination, planning, and advocacy, and will help National Societies and partners to identify trends, gaps, and opportunities in DRR programming.

#### **3.2 Specific Objectives**

1. Design and develop a dynamic, user-friendly dashboard to map DRR activities in Africa, accessible to internal and external stakeholders.
2. Create an interactive mapping feature with filters by country, project type, hazard type, and more.
3. Integrate a tracker for alignment with the Africa Regional DRR/CCA Framework 2024–2026.
4. Develop a roster of DRR practitioners and a repository of tools/methodologies.
5. Ensure integration with existing IFRC platforms and plan for long-term sustainability.



## 4. Methodology

The consultant is expected to apply a user-centered, iterative design methodology to deliver the dashboard in close collaboration with the PIROI FRC and IFRC DRR and Information Management (IM) team. The methodology must include:

### **Phase 0: Inception (understanding the problem)**

- Definition of user needs and visualization requirements through consultations
- Literature and platform review (e.g. GO platform, existing NS tools)
- Establishment the theory change

### **Phase 1: Product Definition**

- Production of a concept note outlining objectives, requirements and product functionalities.
- Production of a technical scoping report including the methodology and deliverables plan.
- Identification of human and financial resources for the solution development

### **Phase 2: Designing and Prototyping**

- Development of data model and collection and cleaning of data sources in coordination with FRC, IFRC and National Societies.
- Development of rapid and low fidelity prototype and validation process with DRR CoP community.

### **Phase 3: Dashboard Development**

- Development of dashboard solution based on requirement and prototype testing validation.
- User testing activity to fix and enhance the dashboard before deployment.

### **Phase 4: Validation and Rollout**

- Deployment of dashboard solution to appropriate platform (e.g. IFRC GO).
- Training sessions for FRC, IFRC and NS focal points.
- Preparation of a user guide and sustainability roadmap.

**The technical consultant will focus on the objectives outlined in phases 2-4 and on the production of a technical scoping report, as all other activities in phase 0 and 1 have already been completed. All baseline documentation will be provided to the consultant at the beginning of the assignment.**

## 5. Expected Results of the Consultancy Assignment

- A fully functional, user-friendly and web-based dashboard on DRR activities and initiatives exhibiting the different features and functionalities presented in the term of referent objectives.
- User walkthrough/training and user guidance document to introduce and familiarize users on the DRR dashboard .



## 6. Expected Deliverables

### › **Deliverable 1: Technical Inception Report and Methodology (mid August 2025)**

- Report outlining the approach, tools, timeline, and data strategy.

### › **Deliverable 2: Prototype and Data Framework (end August 2025)**

- Functional prototype with core data layers and visual filters.
- Structured data model of DRR activities.

### › **Deliverable 3: Finalized Dashboard and User Guide (end October 2025)**

- Complete, validated dashboard with all functional requirements and components.
- Training material and user documentation.

### › **Deliverable 4: Sustainability Plan (end October 2025)**

- Plan for long-term management, updates, and integration with IFRC systems.

## 7. Organisation of the Consultancy and Timetable

Here is a high level timeline of completion for each phase of this project:

- Phase 1 – Product definition: 17 days
- Phase 2 – Designing and prototyping: 14 days
- Phase 3 – Dashboard development: 61 days
- Phase 4 – Validation and rollout: 61 days

The consultant will report to the PIROI FRC DRR Manager and work closely with relevant IFRC stakeholders (namely the IFRC DRR coordinator and IM team). A Steering Committee will be formed to provide guidance, validate deliverables, and support the implementation coordination.

## 8. Consultant Profile

### **Education:**

- Advanced degree in Information Technology, GIS, Information Management, Disaster Risk Management, or related fields.

### **Experience:**

- At least 2 years of experience of working for the Red Cross/Red Crescent Movement.
- 3 to 5 years of experience in the development and use of database systems, data visualisation and other information management tools, systems and procedures.
- Experience in project planning, monitoring and reporting.
- Experience in data products development, business value case development or data product deployment is preferred.
- Experience in providing information management and data visualisation support in a disaster response and recovery emergency operation is preferred.



- Experience in data governance, architecture and handling large datasets and data pipelines is preferred.
- Experience in building and/or working in a network and remote team.
- Experience in an intercultural context, and preferably in Indian Ocean;

**Knowledge, Skills and Languages:**

- Understanding of the principles of emergency preparedness, response and early recovery.
- Strong knowledge of DRR, CCA, and humanitarian programming.
- Recognised technical training in data visualisation, including UX/UI or graphic design principles.
- Strong knowledge of data visualisation and business intelligence tools, such as Tableau, PowerBI and/or .d3
- Independent and pro-active problem solving and self-starter.
- Proficiency in programming languages such as python, java or SQL is desirable.
- Strong analytical, communication, and presentation skills.
- Fluency spoken and written in English. Good command of another IFRC official language is desirable (French, Spanish or Arabic).

## Expression d'intérêt

Interested consultants must submit the following:

- Technical proposal including methodology, work plan, and timeline.
- Financial proposal with a clear breakdown of all costs.
- CV or portfolio demonstrating relevant experience.
- Applications should be submitted via email to: [piroi.achat@croix-rouge.fr](mailto:piroi.achat@croix-rouge.fr)
- Subject: CONSULTANCY PROPOSAL – DRR DASHBOARD DEVELOPMENT
- Deadline for submission: August 3, 2025, before midnight.