



## OCTs Regional Risk Reduction Initiative (R3I) Provision of Services to Caribbean OCTs Lot 1: GIS and Vulnerability Assessment

### Scope of work

Aruba; May 4-6, 2011

Formal Launch of OCTs Regional Risk Reduction Initiative (R3I): Provision of Services to Caribbean OCTs ; Lot 1:  
GIS and Vulnerability Assessment



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## Objective and Purpose of the Project

The main objective of the project is to characterize the natural and, where identified as significant, human-induced hazards to which the OCTs are exposed and identify geographic and socio-economic areas of vulnerability.

Local capacities to develop and implement mitigation strategies will then be strengthened through the provision of tools (spatial data infrastructure and models) and best practices to support comprehensive disaster risk management



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## Objective and Purpose of the Project

**Purpose 1:** To provide relevant national agencies with responsibilities for disaster risk management (preparation, mitigation, response and recovery) with risk information tools and data (hazard maps and vulnerability assessments) and a GIS framework for use in their daily work, and develop their capacity to manage risk information data.

**Purpose 2:** To collect and, in some instances, produce accurate vulnerability assessments and hazard maps on which early warning systems and response and contingency plans can be based.

**Purpose 3:** To strengthen the use of harmonized risk information at country level by all disaster management stakeholders including decision makers and the public.

**Purpose 4:** To help the countries to integrate their vulnerability assessments and hazard maps into a regional context (harmonized OCT risk information and integration in the broader Caribbean context).

## Objective and Purpose of the Project

By the end of the whole project it is expected that there will be:

- Increased capacity in hazard mapping and associated vulnerability assessments, to further be incorporated into spatial information systems to inform planning and development processes
- Capacity built in response, rescue and recovery, in order to shorten recovery periods through the use risk assessment and mitigation practices for development planning
- Strengthened local disaster management structures and capacities in terms of tools and best practices to support comprehensive disaster risk management
- Greater **cooperation** and **coordination** between the OCTs, with documentation and dissemination of best practices



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## Objective and Purpose of the Project

We could consider the final target as: *“To make each single country in the OCT, and as whole, able to manage emergencies coming from different natural and environmental hazard events”*.

To achieve the final target, two main stages are foreseen in the process

- Data collection and transition management,
- Data elaboration and deployment of supporting systems and tools



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## Objective and Purpose of the Project

The project is splitted into 4 main phases:

- **Phase I: HM/VA capacity assessment**
- **Phase II: Base data and equipment acquisition**
- **Phase IV: Vulnerability assessment and quantitative risk assessment**
- **Phase V: Vulnerability assessment and hazard mapping applications**

Phase III Coastal hazard modeling and mapping is not inside the present contract



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# Objective and Purpose of the Project

## Phase I [May-July 2011]

- Review of hazard mapping and vulnerability capacities
- Data collection and data needs assessment
- Recommendations, planning and strategy development



## Objective and Purpose of the Project

### Phase II [June-September 2011 and over]

- Procurement Assistance (Equipment and Data)
- Data transformation and processing



## Objective and Purpose of the Project

### Phase IV [July – November 2011]

- IV-a Preliminary vulnerability assessment
- IV-b Structural vulnerability (critical buildings, facilities and infrastructure)
- IV-c Loss estimation studies and vulnerability curves
- IV-d Operational vulnerability assessment
- IV-e Social vulnerability assessment
- IV-f Environmental vulnerability assessment
- IV-g Proposition and estimation of mitigation measures
- IV-h Technical review panel and public outreach



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## Objective and Purpose of the Project

### Phase V: [Year 2012]

- V-a Hazard database development
- V-b Disaster management application
- V-c Inputs for Early Warning System
- V-d Adaptation of tools and products for decision markers and public awareness



## JV Composition



**Gesp S.r.l. – Italy**

Main Roles in the Project: JV Leader –Supervising of the whole project, coordination of the activities and Quality Assurance. Specific Tasks: GIS Applications Implementation, Data Collection and organization.



**Centre for Geospatial Studies/Engineering Institute  
University of West Indies – Trinidad & Tobago**

Main Roles in the Project: JV Member – Scientific Leadership of the whole project, GIS and VA/HM competencies coordination. Specific Tasks: Vulnerability Assessment and Disaster Risk Reduction



**GIS4C BV – Curacao**

Main Roles in the Project: JV Member .Specific Tasks: Data Collection, coordination of the teams activities in the Dutch speaking islands



# JV Composition

