


ASSOCIATION OF CARIBBEAN STATES DIRECTORATE FOR COOPERATION AND RESOURCE MOBILISATION

TECHNICAL SHEETS PROJECT CONCEPT DOCUMENTATION

7TH INTERNATIONAL COOPERATION CONFERENCE
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**ASSOCIATION OF CARIBBEAN STATES
DIRECTORATE FOR COOPERATION
AND RESOURCE MOBILISATION**

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LIST OF ACRONYMS

- ACS:** Association of Caribbean States
- AMEXCID:** International Development Cooperation Agency (Agencia Mexicana de Cooperación Internacional para el Desarrollo)
- CABEI:** Central American Bank for Economic Integration
- CDB:** Caribbean Development Bank
- EIB:** European Investment Bank
- IDB:** Inter-American Development Bank
- WB:** World Bank
- CAF:** Development Bank of Latin America
- CARICOM:** Caribbean Community
- CDEMA:** Caribbean Disaster Emergency Management Agency
- UNECLAC:** United Nations Economic Commission for Latin America and the Caribbean
- CEPRENAC:** Coordination Centre for the Prevention of Disasters in Central America and the Dominican Republic (Centro de Coordinación para la Prevención de los Desastres en América Central y República Dominicana)
- CRFM:** Caribbean Regional Fisheries Mechanism
- CHTA:** Caribbean Hotel and Tourism Association
- CMO:** Caribbean Meteorological Organisation
- CNPC:** National Civil Protection Coordination
- COPERNICUS:** Copernicus Programme
- CTO:** Caribbean Tourism Organisation
- DCRM:** Directorate for Cooperation and Resource Mobilisation
- DECS:** Directorate for Environment, Disaster Risk Reduction and the Caribbean Sea
- DTSD:** Directorate for Trade and Sustainable Development
- ESRI:** Cartographic Representation Software
- GC-BTI:** Greater Caribbean: Bridges for Inclusion
- GIS-GC:** Geospatial Information System of the Greater Caribbean
- GWU-IITS:** George Washington University's International Institute for Tourism Studies
- INTERREG:** European Union Inter-Regional Cooperation
- IPF:** Infrastructure for the People
- ITC:** International Trade Centre
- KfW:** State Development Bank of the Federal Republic of Germany
- KIOST:** Korea Institute of Ocean Science and Technology



KOICA: Korea International Cooperation Agency
MH-EWS: Multi-Hazard Early Warning Systems
ODPM: Office for Disaster Preparedness and Management
SDGs: Sustainable Development Goals
OAS: Organisation of American States
OECS: Organisation of Eastern Caribbean States
NDMO: National Disaster Management Organisations
WTO: World Trade Organisation
WMO: World Meteorological Organisation
UNWTO: United Nations World Tourism Organisation
UNDP: United Nations Development Programme
SICA: Central American Integration System
SIECA: Secretariat for Central American Economic Integration
SITCA: Secretariat for the Integration of Central American Tourism
UNCTAD: United Nations Conference on Trade and Development
UNDRR: United Nations Office for Disaster Risk Reduction
UNEP: United Nations Environment Programme
USFOO: University of South Florida Optical Oceanography,
UWI - St. Augustine: University of the West Indies St. Augustine
Campus
STZC: Sustainable Tourism Zone of the Greater Caribbean

TECHNICAL SHEETS

This document represents a Practical Guide, created with the objective of developing a tool that allows ACS Membership, Associates, Observers and Development Partners to have the information on the Project Concept Documents (PCDs), thirteen (13) summarised PCDs, which were approved and prioritised at the 2021 and 2022 Special Committee Meetings, two (2) Terms of Reference (ToRs), and one (1) “Annex of three (3) Emerging Projects”, which respond to the crisis facing the Greater Caribbean Region due to Sargassum, though still pending approval. This Guide presents the most important elements of each PCD and the ToR, including: 1) focal area, 2) status, 3) expected cost, 4) implementation location, 5) duration, 6) objectives and 7) components.

The following table summarises the list of priority PCDs that the ACS has in its portfolio. Each data sheet is presented separately over the following pages.

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DIRECTORATE FOR TRADE AND SUSTAINABLE DEVELOPEMNT

Focal area: Transport

Technical Sheet 1

Project title	Maritime Transport and Logistics Strategy and Plan of Action for the Greater Caribbean
Status	Development phase
Beneficiaries	Greater Caribbean
Estimated cost	US\$1,617,000.00
Role of the ACS	Executor
Potential contributing donors	CABEI, CAF, WB, IDB
Potential collaborating Institutions	UNECLAC, UNCTAD
Contribution Amount (by donor)	TBD
Duration	19 months
General Objective	To create environment that facilitates the growth, development and the efficacy of maritime transport and logistics in the Greater Caribbean, in order to support economic growth and sustainable development of the region
Specific Objectives	Objective 1: To undertake a comprehensive evaluation of maritime transport connectivity in the Greater Caribbean and analyse the impact of connectivity deficiencies and facilitation of general logistics. Objective 2: To propose a comprehensive development framework for the growth and modernisation of maritime transport sector and logistics systems for the Greater Caribbean, to build resilience, improve growth, and competitiveness of the sector.
Components	Component 1: Comprehensive assessment of maritime transport connectivity in the Greater Caribbean and analyse the impact of connectivity deficiencies and facilitation of general logistics. Component 2: Development framework for the growth and modernisation of the maritime transport sector and logistics systems for the Greater Caribbean, to build resilience, improve growth, and competitiveness of the sector.

Technical Sheet 2

Project title	Development of a Ferry Network in the Greater Caribbean
Status	Development phase
Beneficiaries	Member States and Associate Member States of the ACS
Estimated cost	US\$10,000,000.00
Role of the ACS	Executor
Potential contributing donors	EIB, CAF CDB, WB, CABEI, IDB, ACS Observer Countries
Potential collaborating Institutions	CARICOM, SICA, OECS
Contribution Amount (by donor)	TBD
Duration	Pending
General Objective	Objective: Develop solutions towards an efficient transport mechanism to facilitate connectivity in the Greater Caribbean
Specific Objectives	Objective 1: To widen the range of transportation options available for movement in and around the Greater Caribbean Objective 2: To make transportation in the Greater Caribbean more affordable. Objective 3: To encourage intra-regional tourism and trade among the countries in the Greater Caribbean
Components	Phase 1: Map a viable Ferry Network to connect the Greater Caribbean Phase 2: Identify appropriate Public-Private Partnerships for implementation of a Regional Ferry Network in the Greater Caribbean and pilot ferry in the Eastern Caribbean Phase 3: Phased implementation of the entire network for coverage of the entire Greater Caribbean

DIRECTORATE FOR TRADE AND SUSTAINABLE DEVELOPEMNT

Focal area: Trade

Technical Sheet 3

Project title	Creation of a Regional ACS Observatory
Status	Development phase
Beneficiaries	Member States and Associate Member States of the ACS, Observer countries, private sector, academic and other stakeholders
Cost of implementation	US \$125,840.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Potential Collaborating Institutions	UNECLAC, UNCTAD, UNWTO, IDB, ITC, WTO, SIECA and CARICOM among other agencies.
Contribution Amount (by donor)	TBD
Duration	20 months
General Objective	Objective: To provide ACS Members with empirical data to enhance the decision-making process for formulating, implementing, and evaluating sustainable development policies, programmes and projects to build resilience for post COVID-19 recovery
Specific Objectives	Objective 1: To conceptualise, design and create a centralised, data-driven platform which serves as a repository for information on defined ACS priority areas (trade in goods and services, sustainable tourism, transport, environment and disaster risk reduction) in the Greater Caribbean region Objective 2: To identify indicators in ACS priority areas to be incorporated into the Observatory which, in turn, will inform ACS Member States, Associate Members, Observer Countries, Observer Institutions, the private sector and other stakeholders; Objective 3: To collect, generate and disseminate comprehensive, accurate and up-to-date data from valid/verified data sources on ACS priority areas

Components	<p>Component 1 – Identification of Sectoral Indicators and Mapping of Regional Agreements for Pilot (UNECLAC Technical Assistance)</p> <p>Component 2 – Data sources (UNECLAC Technical Assistance)</p> <p>Component 3 – Platform design, development and testing pilot</p> <p>Component 4 – Expansion of the ACS Observatory</p> <p>Component 5 – User Manual Development</p> <p>Component 6 – Training</p> <p>Component 7 – Project Management and Administration</p>
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DIRECTORATE FOR TRADE AND SUSTAINABLE DEVELOPEMNT

Focal area: Tourism

Technical Sheet 4

Project title	Revitalization of the Sustainable Tourism Zone of the Greater Caribbean (STZC): Increasing the Competiveness of Tourism in the Greater Caribbean through the Revitalization of the STZC and related Destination Evaluation Mechanisms
Status	Development phase
Beneficiaries	ACS Member States and Associate Members with designated STZC destinations
Cost of implementation	US\$1,372,124.00 EUR€1,234,911.00
Role of the ACS	Executor
Potential Contributing donors	Proposed financing partnership includes: <ul style="list-style-type: none"> • INTERREG • IDB Call for Regional Public Goods • CDB • CAF
Potential Collaborating Institutions	Envisaged as a STZC Steering Committee composed of bodies with an interest in promoting Sustainable Tourism, including: CTO, SITCA, GWU-IITS, OAS, OECS, UNWTO, CHTA, UWI - St. Augustine.
Amount of contribution (by donor)	TBD

Duration	3 years
General Objective	Objective: To stimulate product development in the services sector and quality enhancement to increase opportunities for growth and development
Specific Objectives	Objective 1: To support and promote sustainability assessment and certification of tourist destinations in the region to enhance tourism's contribution to the SDGs
Components	Component 1 – STZC Consolidation Component 2 – Reintroduction of the STZC Destination Status Component 3 – STZC Expansion Component 4 – Project Management & Execution

Technical Sheet 5

Project title	Sustainable Tourism Strategy for the Greater Caribbean (Consultancy)
Status	Development phase
Beneficiaries	All ACS Member States and Associate Members
Cost of implementation	US\$504,105.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Potential Collaborating Institutions	CTO, SITCA, UNWTO
Amount of contribution (by donor)	TBD
Duration	16 months
General Objective	Objective: To design a comprehensive and integrated system for the planning and expansion of sustainable tourism as a primary driver of economic development within the Greater Caribbean.

Specific Objectives	<p>Objective 1: To undertake an analytical investigation of Greater Caribbean tourism through a situational analysis that identifies industry gaps, risks, opportunities, viable sustainability frameworks and supporting technological needs.</p> <p>Objective 2: To propose cross-cutting strategic actions that operationalise robust, resilient and mutually beneficial sustainable tourism development, and that detail implementation methodologies for opportunity conversion by the Greater Caribbean.</p>
Components	<p>Component 1 - Development framework for the Planning of Sustainable Tourism</p> <p>Component 2 – Destination Development and Strengthening</p> <p>Component 3 – Institutional Development and Strengthening</p>

DIRECTORATE FOR TRADE AND SUSTAINABLE DEVELOPMENT

Focal area: Transport, Trade, Tourism

Technical Sheet 6

Project title	Digitalization of the Greater Caribbean
Status	Development phase
Beneficiaries	ACS Membership
Cost of implementation	US\$100,000.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Potential Collaborating Institutions	Ministries of Communication of each Government
Amount of contribution (by donor)	TBD
Duration	5 years
General Objective	<p>Objective 1 - Transportation: Modernize the transportation sector.</p> <p>Objective 2 - Trade: Modernize and increase opportunities with great potential for growth in productive sectors</p> <p>Objective 3 - Sustainable Tourism: Modernize tourism operations</p>



Specific Objectives	<p>Objective 1 – Transportation: Encourage the adoption of innovative technologies that improve operational efficiencies in the transportation sector and regional transportation connectivity.</p> <p>Objective 2 - Trade: Promote the adoption of innovative technologies in commercial cross-border operations in the Greater Caribbean.</p> <p>Objective 3 - Sustainable Tourism: Encourage the adoption of innovative technologies that improve operational efficiency and ease of doing business with tourism stakeholders in the region.</p>
Components	<p>Transport: Component 1 – Diagnostic Assessment of Digital Transformation in ACS member countries. Component 2 – Regional Transport Connectivity Facilitation. Component 3 – Digital Skills Development and Capacity Building. Component 4 - Project Management & Execution</p> <p>Trade: Component 1 – Diagnostic Assessment of Trade and Trade-Related Digital Transformation in ACS. Component 2 – Regional Business Facilitation. Component 3 – Digital Skills Development and Capacity Building. Component 4 - Project Management & Execution.</p> <p>Tourism: Component 1 – Diagnostic Assessment of E-Tourism Environment in ACS member countries. Component 2 – Business Process Facilitation. Component 3 – Digital Skills Development and Capacity Building. Component 4 - Project Management & Execution</p>



DIRECTORATE FOR DISASTER RISK REDUCTION, THE ENVIRONMENT AND THE CARIBBEAN SEA

Thematic area: Disaster Risk Reduction

Technical Sheet 7

Project title	Geospatial Information System of the Greater Caribbean for disaster prevention (GIS-GC)
Status	Development phase
Beneficiaries	Public and private sector, communities and people of the Member States and Associate Members of the ACS
Cost of implementation	US\$7,000,000.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Potential Collaborating Institutions	COPERNICUS, ESRI, UNDRR, UNECLAC, ODPM, AMEXCID-CNPC, CARICOM-CDEMA, SICA-CEPRENAC, UWI
Amount of contribution (by donor)	TBD
Duration	5 years
General Objective	Objective: To provide the countries of the Greater Caribbean with a geospatial information platform that integrates and upgrades existing data and layers, in order to increase the capacity for prevention and response to disasters caused by natural phenomena, and to generate positive impact on public policy planning and decision-making in the region, through comprehensive risk management as a cross-cutting axis of sustainable development.



<p>Specific Objectives</p>	<p>Objective 1: Generate real time information for Multi-Hazard Early Warning Systems at the regional, sub regional, national, and local levels.</p> <p>Objective 2: Integrate national risk maps; including hazards, exposure, vulnerability, classified under the categories for its visualization and analysis.</p> <p>Objective 3: Consolidate national information systems that constitute a regional platform on threat, vulnerabilities and risk analysis.</p> <p>Objective 4: Exchange experiences, and best practices in the creation, integration and dissemination of geospatial risk information.</p> <p>Objective 5: Support the integration of comprehensive risk management within planning of public policies, and decision-making.</p> <p>Objective 6: Promote relevant public-private partnerships (PPPs).</p> <p>Objective 7: Develop user-friendly technology for the people in the Greater Caribbean</p>
<p>Components</p>	<p>Component 1: Consolidation of an inventory of information on existing threats, vulnerabilities, and risks at the country level and the Caribbean Region; in order to ensure comprehensive risk management information, monitoring and geospatial information systems;</p> <p>Component 2: Design and operation of a geospatial system that stores, processes, exchanges, and disseminates risk information, based on other similar platforms;</p> <p>Component 3: Establish one headquarters office to oversee the execution of the overall project as a master-hub;</p> <p>Component 4: Establish six situational rooms (hubs), which enable the operation of applications developed within the framework of the geospatial information system;</p> <p>Component 5: Build alliances among the private sector, and its entities that may benefit from geospatial analysis for comprehensive risk management;</p> <p>Component 6: Develop the user-friendly tools that apply to all of the above.</p>

Technical Sheet 8

Project title	Strengthening capacities for Multi-hazard Early Warning Systems in the Greater Caribbean region (MH-EWS)
Status	Development phase
Beneficiaries	People of the Member States and Associate Members of the ACS
Cost of implementation	US\$10,000,000.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Collaborating Institutions	COPERNICUS, CADENA México, DMOs, CDEMA, CEPREDENAC, UNDRR, WMO, CMO
Amount of contribution (by donor)	TBD
Duration	2 years
General Objective	Objective: Increase multi-hazard early warning systems across the Greater Caribbean through the installation of 150 Multi-Alert Diffusion Towers, and the strengthening of community capacities to use these systems, in order to increase local disaster preparedness and response.
Specific Objectives	Objective 1: Install infrastructure to increase the number of persons that are alerted by MH-EWS, thereby improving the resilience of Caribbean Communities. Objective 2: Increase the capacity of target populations to identify risks according to the type of hazard and possible adverse effects. Objective 3: Train communities in the use of “Multi-Alert Diffusion” systems so that they give and receive timely warnings before, during and after the occurrence of a hazard. The training will be accompanied by periodic update by the NGO, considering the different intrinsic changes in the communities. Objective 4: Create and train community resilience brigades, establishing responsible persons, response time and basic protocols for the protection of the population.
Components	Component 1: Implementation Planning; Component 2: Procurement; Component 3: Installation of towers across the region; Component 4: Train Communities to Identify Risks and Adverse Effects; Component 5: Train communities in the use of “Multi-Alert Diffusion” systems;

Technical Sheet 9

Project title	The Greater Caribbean Bridges to Inclusion (GC BTI)
Status	Development phase
Beneficiaries	Public and private sector, as well as underserved communities and people of the Member States and Associate Members of the ACS
Cost of implementation	US\$16,635,000.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Potential Collaborating Institutions	James Emmett & Company, IFP, National Social Security Institutions, National Emergency Management Institutions, Economic Development Councils, Territorial Development Agencies
Amount of contribution (by donor)	TBD
Duration	6 years
General Objective	Objective: GC BTI will create a circular economy by helping underserved populations secure career opportunities created from disaster recovery, infrastructure construction, and tourism within each member state. GC BTI will establish training centers in all 25 Member States and 10 Associate Members that will provide free training to underserved populations in the areas of skilled trades (construction, electricity, carpentry, plumbing, heating, ventilation and air conditioning), skilled trade assistant, and tourism worker (food service, maintenance, housekeeping). Individuals from underserved communities will gain necessary skills to support infrastructure building, disaster recovery, and tourism growth
Specific Objectives	Objective 1: Partner with Member States and Associate Members to assess need/opportunity to establish a GC BTI training center in all 25 Member States and 10 Associate Members. Objective 2: Create an overall operational plan for the training centers and establish a staggered timeline for roll-out in 25 Member States and 10 Associate Members. Objective 3: Build a cohort of organizations within the 25 Member States and 10 Associate Members that serve the selected populations.

	<p>Objective 4: Finalize the training curriculum for the three levels of training (skilled trades, skilled trades assistant, tourism worker).</p> <p>Objective 5: Establish the location of each of the training centers and build the facility to the specifications created in the operational plan.</p> <p>Objective 6: Promote the availability of training opportunities to underserved communities within the 25 Member States and 10 Associate Members.</p> <p>Objective 7: Hire training staff and begin training classes.</p> <p>Objective 8: Partner with infrastructure and tourism companies to facilitate trainees receiving internship and employment opportunities after graduation from the training centers.</p> <p>Objective 9: Evaluate overall curriculum and process and make necessary changes based on outcomes.</p>
<p>Components</p>	<p>Component 1: Establish sites for all 35 training centers in collaboration with ACS based on assessment of need/opportunity with all 25 Member States and 10 Associate Members.</p> <p>Component 2: Recruit trainees from underserved communities to participate in training.</p> <p>Component 3: Finalize training curriculum for all 3 areas: skilled trades, skilled trade assistants, tourism workers.</p> <p>Component 4: Run simultaneous training classes in the 3 areas: skilled trades, skilled trade assistant, tourism worker.</p> <p>Component 5: Assist all graduates of the training centers secure internships and/or employment with designated company partners.</p> <p>Component 6: Establish one main office in Trinidad to oversee the execution of the overall project.</p> <p>Component 7: Build preparation to activate the training center network when a disaster (tropical cyclones, floods, landslides, earthquakes) occurs.</p>

DIRECTORATE FOR DISASTER RISK REDUCTION, THE ENVIRONMENT AND THE CARIBBEAN SEA

Thematic area: Caribbean Sea Commission Technical Sheet 10¹

Project title	Update of Report to Declare the Caribbean Sea a “Special Zone” in the Context of Sustainable Development (Consultancy)
Status	United Nations Mandate
Beneficiaries	Member States and Associate Members of the ACS
Role of the ACS	Ensure that the consultant fulfills the terms of reference.
Duration	6 months
General Objective	<p>Objective 1: Update the Consultancy Report of 2014, incorporating the implications (legal, financial, economic, environmental, -with emphasis on climate change-, social and cultural, etc.) of designating the Caribbean Sea as a Special Zone in the context of sustainable development, and identify parameters for the conceptual definition of the Caribbean Sea as a special area in the context of sustainable development, establishing measurable actions for its implementation. This analysis will be consistent with Resolution (A/RES/75/214) “Toward the Sustainable Development of the Caribbean Sea for present and future generations.”</p> <p>Objective 2: At the same time and with assistance from the sub-commissions, the ACS staff, specialists of Member and Associate Member States and other stakeholders, formulate a strategy to address the issues identified, in order to specify the level of commitment and possible actions to be taken, and draft a Plan of Action that would include among other things, the creation of networks, onsite and online activities and other forms of cooperation.</p>

Specific Objectives

Objective 1: Update the Consultant's Report of 2014, in light of the new international and regional legislation, using a multidimensional approach, taking into consideration the SDG's; as well as the multidimensional and sectoral implications of special area designation.

Objective 2: Identify and describe the environmental parameters - considering climate change scenarios-, the social, cultural and economic parameters, as well as the attributes, vulnerabilities and threats being faced by Member States, for the conceptual definition of the Caribbean Sea as a "Special Zone".

Objective 3: Identify the possible internal or external causes to the region, of predominant environmental deterioration, specifically the origin, sources, and most well-known maritime accidents which allow for a clearer evaluation about how what should be avoided in the future.

Objective 4: Generate a proposal for the definition of the concept of Special Area that is consistent with the Resolution (A/RES/75/214) "Toward the Sustainable Development of the Caribbean Sea for present and future generations."

Objective 5: Elaborate for approval, an initial draft outlining the methodology to be used and a plan for its implementation. The consultant must periodically present progress reports at the times stipulated in the contract.

1 Update of Report to Declare the Caribbean Sea a "Special Zone" in the Context of Sustainable Development (Consultancy) is not a PCD. It is Terms of Reference

Technical Sheet 11

Project title	Impact of climate change on the sandy shorelines of the Caribbean. Alternatives for its control and resilience II.
Status	Development phase
Beneficiaries	The Member States, and Associate Members of the Greater Caribbean of the ACS
Cost of implementation	US\$4,000,000.00
Role of the ACS	Executor
Potential Contributing donors	Korea, KOICA, KIOST
Potential Collaborating Institutions	TBD
Amount of contribution (by donor)	TBD
Duration	2 years
General Objective	Objective: To contribute to the definition and application of best practices for the preservation and rehabilitation of beaches in the light of the effects of climate change in the Caribbean region.
Specific Objectives	<p>Objective 1: Update the assessment of the intensity, extent and causes of erosion in the Caribbean region with the improvement of the current monitoring network and its expansion with the incorporation of more countries to the project.</p> <p>Objective 2: To prepare beach rehabilitation projects in priority sectors of economic, social and environmental interest.</p> <p>Objective 3: Advise and supervise the implementation of beach rehabilitation projects.</p> <p>Objective 4: Monitor the effectiveness of the beach rehabilitation projects executed.</p> <p>Objective 5: Contribute to the creation of institutional capacities and human resources in the best practices, legal and engineering for the control of the erosion.</p> <p>Objective 6: Create a beach rehabilitation manual with scientific and engineering criteria that respond to the particularities of the tropical coasts of the Caribbean region.</p> <p>Objective 7: Prepare recommendations for the application of the best regulatory and engineering practices in confronting the erosion process.</p>

Components	<p>Component 1: Establishment of focal points of participating countries</p> <p>Component 2: Development of institutional and human resource capacities for the management of erosion processes associated with climate change</p> <p>Component 3: Establishment of the regional erosion monitoring network</p> <p>Component 4: Development of beach rehabilitation projects and monitoring for the evaluation of their effectiveness.</p> <p>Component 5: Update of the beach rehabilitation manual and the project's computer platform.</p> <p>Component 6: Organisation of the second conference on beach conservation and rehabilitation in the Greater Caribbean Region</p>
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Technical Sheet 12²

Project title	Resilient and low carbon tourism in the Greater Caribbean
Status	Terms of Reference
Specific Objectives	<p>Objective 1: Strengthen the knowledge base of national and local tourism actors to assess the potential of nature-based solutions and climate innovations for resilient and low-carbon tourism.</p> <p>Objective 2: Strengthen public policy and institutional management frameworks to improve science-based governance of risk-based tourism development.</p> <p>Objective 3: Strengthen the alliance between key actors of local tourism, with climate financing strategies and mechanisms, which facilitate access to public, private and diverse financial sources to integrate climate innovations in local tourism, its scaling and replication in the Greater Caribbean.</p>
Components	<p>Component 1: Establish the methodological and technological basis for the development of the knowledge management platform to support local, resilient and low-carbon tourism systems.</p> <p>Component 2: Adjust the strategic and operational frameworks of the participating countries to address the problems in their public policies to improve the governance of risk-based tourism development.</p> <p>Component 3: Establish mechanisms for the adoption of the best practices, gender-sensitive, for risk-based tourism development</p>

² Resilient and low carbon tourism in the Greater Caribbean is not a PCD. It is terms of reference.

Technical Sheet 13

Project title	Mitigating the effects of climate change on Caribbean coral reefs: cultivation and propagation of stony corals and black hedgehogs for coral reef restoration
Status	Development phase
Beneficiaries	Cuba, Aruba, Bonaire, Curacao, San Maarten, British Virgin Islands, Turks and Caicos
Cost of implementation	US\$6,100,000.00
Role of the ACS	Executor
Potential Contributing donors	TBD
Potential Collaborating Institutions	Environmental Agencies, aquariums, laboratories, and institutions designated by the countries or territories.
Amount of contribution (by donor)	TBD
Duration	5 years
General Objective	Objective: To create a basis aimed at the intensive cultivation of stony corals, and black urchins, in Caribbean countries, to complement the restoration of reef sites as an alternative stony corals and black urchins, to complement the restoration of reef sites as an alternative in mitigation the effects of climate change.
Specific Objectives	Objective 1: To develop the complete cycle of stony coral restoration through assisted reproduction: fragmentation and micro-fragmentation of donor colonies (asexual reproduction), collection of larvae (sexual reproduction) and maintenance of recruits in aquaria, culture and propagation of fragments in situ and ex situ and seeding of corals on reefs. Monitor results in coral reefs. Objective 2: Implement a strategy of assisted evolution by selecting corals with genotypes that are resilient to the effects of climate change: beaching, increased incidence of diseases, decreased calcification rate due to ocean acidification, through the selection of corals that are resilient to the effects of climate change. Objective 3: Cultivate and propagate specimens of black urchin <i>Diadema Antillarum</i> in ex situ facilities for subsequent reintroduction to coral reefs whose natural populations are affected.



Components

Component 1: Develop and establish programs for capacity building and training of specialists and technical teams in the Wider Caribbean region.

Component 2: Acquisition of means, equipment and materials. Conditioning of cultivation laboratories and nurseries in the Caribbean countries.

Component 3: Develop the complete culture cycle of stony corals.

Component 4: To develop the complete growing cycle of long-spiked black hedgehog.

Component 5: Establishment of centers of excellence and research, development and innovation.

Component 6: Monitoring and evaluation plan

ANNEX 1

EMERGING PROJECTS ON SARGASSUM

Over the last decade, the prevalence of Sargassum³ and its effects in the Greater Caribbean region have become more pronounced. In a region that relies heavily on its tourism sector, often through its picturesque beaches and coastal areas, Sargassum management has become an exceptionally high priority for regional economic survival and even food security, with negative impacts on the fishing industry. Proper management of the current Sargassum influx in the region will require strong public-private partnership efforts involving local and regional entities in the territories facing this critical emergency.

DIRECTORATE FOR DISASTER RISK REDUCTION, ENVIRONMENT AND THE CARIBBEAN SEA

Focal area: Caribbean Sea Commission
Technical Sheet 14⁴

Project title	Management of Sargassum in the Greater Caribbean Region: extraction, storage, processing, and transportation
Status	PCD to be approved
Beneficiaries	Guadeloupe, Martinique, Saint Martin
Cost of implementation	\$8,000,000.00
Role of the ACS	Executor
Potential Contributing donors	France, Japan, Germany, INTERREG, KfW, CAF, IDB, CABEL
Potential Collaborating Institutions	UNEP, UNEP-Cartagena Convention, UNDP, AMEXCID, Plants and Food, CFRM, CDEMA, UNDRR, SOS Carbon, USFOO
Amount of contribution (by donor)	TBD

Duration	3 years
General Objective	Build a system for sustainable water to land extraction, storage, processing, and transportation of the sargassum for alternative purposes in Guadeloupe, Martinique and Saint Martin
Specific Objectives	<p>PHASE 1</p> <ul style="list-style-type: none"> • Compile the five best sustainable and scientific based practices of extraction of the sargassum from water to land worldwide. • Compile the five best sustainable and scientific based practices for storage with the specificities needed worldwide. • Compile the five best sustainable and scientific based practices for processing the sargassum for alternative purposes worldwide. • Compile the five best sustainable and scientific based practices for transporting the processed sargassum for alternative purposes worldwide. <p>PHASE 2</p> <ul style="list-style-type: none"> • Classify the compilations of the best and scientific based practices for a) extraction, b) storage, c) processing and d) transportation of the Sargassum in the context of the regional level. <p>PHASE 3</p> <ul style="list-style-type: none"> • Create an extraction, storage, processing and transportation system that is scientifically based for the management of the sargassum in Guadeloupe, Martinique and Saint Martin. • Construct and/or acquire the necessary technical equipment for the sustainable extraction of the sargassum. • Construct and/or acquire the necessary technical facilities for the sustainable storage, and processing of the sargassum.
Components	<p>Component 1: Research</p> <p>Component 2: Compilation</p> <p>Component 3: Construct or Acquire</p>

3 Sargassum is a genus of planktonic macroalgae of the class Phaeophyceae in the order Fucales. The algae, which can grow to several metres, are brown or blackish-green and differentiated into rhizoids, stipes and laminae.

4 This project comes with a Project Concept Document (PCD); however, it remains subject to approval by the ACS Membership.

Technical Sheet 15⁵

Project title	Management of Sargassum in the Greater Caribbean Region: extraction, storage, processing, and transportation- Trinidad and Tobago
Status	PCD to be approved
Beneficiaries	Trinidad and Tobago
Cost of implementation	\$4,500,000.00
Role of the ACS	Executor
Potential Contributing donors	France, Japan, Germany, INTERREG, KfW, CAF, IDB, CABI
Potential Collaborating Institutions	UNEP, UNEP-Cartagena Convention, UNDP, AMEXCID, Plants and Food, CFRM, CDEMA, UNDRR, SOS Carbon, USFOO
Amount of contribution (by donor)	TBD
Duration	3 years
General Objective	Build a system for sustainable water to land extraction, storage, processing, and transportation of the sargassum for alternative purposes in Trinidad and Tobago
Specific Objectives	<p>PHASE 1</p> <ul style="list-style-type: none"> • Compile the five best sustainable and scientific based practices of extraction of the sargassum from water to land worldwide. • Compile the five best sustainable and scientific based practices for storage with the specificities needed worldwide. • Compile the five best sustainable and scientific based practices for processing the sargassum for alternative purposes worldwide. • Compile the five best sustainable and scientific based practices for transporting the processed sargassum for alternative purposes worldwide. <p>PHASE 2</p> <ul style="list-style-type: none"> • Classify the compilations of the best and scientific based practices for a) extraction, b) storage, c) processing and d) transportation of the Sargassum in the context of the national level.

⁵ This project comes with a Project Concept Document (PCD); however, it remains subject to approval by the ACS Membership.



	<ul style="list-style-type: none">• Evaluate the local context of Trinidad and Tobago for the systems that will be deployed. <p>PHASE 3</p> <ul style="list-style-type: none">• Create an extraction, storage, processing and transportation system that is scientifically based for the management of the sargassum in Trinidad and Tobago.• Construct, acquire or contract the necessary technical equipment for the sustainable extraction of the sargassum.
Components	Component 1: Research Component 2: Compilation Component 3: Construct or Acquire

Technical Sheet 16⁶

Project title	Alternative productive and commercial usages of Sargassum in the Greater Caribbean Region
Status	PCD to be approved
Beneficiaries	ACS Member States
Cost of implementation	\$250,000.00
Role of the ACS	Association of Caribbean States (ACS) through the Directorate for Disaster Risk Reduction, Environment and the Caribbean Sea
Potential Contributing donors	CAF, IDB, CABEL, Germany, KfW
Potential Collaborating Institutions	UNEP, Cartagena Convention, UNDP, AMEXCID, Plants and food, CFRM, CDEMA, UNDRR, SOS Carbon, USFOO
Amount of contribution (by donor)	TBD
Duration	1 year
General Objective	Consolidate the know-how of sargassum targeted research in profitable economic alternatives in the productive and commercial usages that will promote sustainable development in the Greater Caribbean Region.
Specific Objectives	<ul style="list-style-type: none"> • Compile instrumental information on sargassum targeted research in profitable economic alternatives in the areas of agriculture, construction, farming, and cosmetics worldwide. • Classify the compilation of productive usages by the categories of agriculture, construction, farming, and cosmetics in the context of the regional level. • Consolidate an inventory by category of productive best practices in sargassum that will economically benefit the region. • Consolidate an inventory by category of commercial best practices in sargassum that will economically benefit the region. • Knowledge sharing of the guide to the beneficiaries.
Components	Component 1: Compilation Component 2: Classification Component 3: Consolidation of inventory

⁶ This project comes with a Project Concept Document (PCD); however, it remains subject to approval by the ACS Membership.



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