

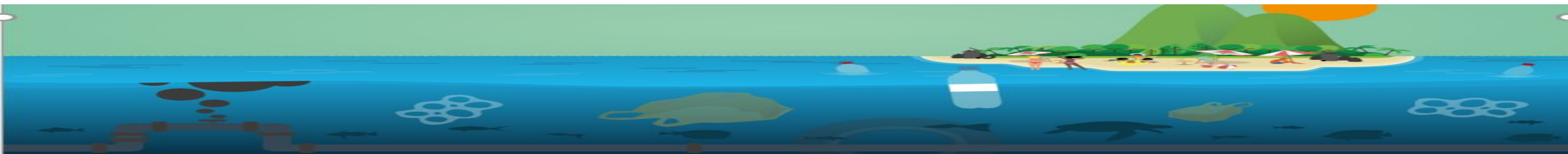
The LBS Protocol: Why a focus on Freshwater Resources Management?

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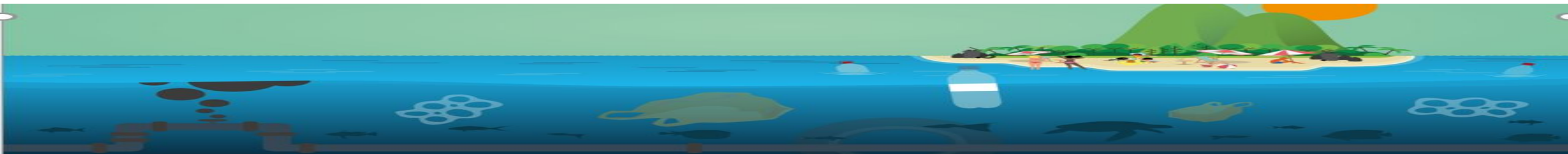
Virtual 5th LBS STAC: 15th – 17th March 2021

Information Paper: UNEP(DEPI) CAR WG.41/INF.24



Freshwater Management has been a central part of the work of the Cartagena Convention & the LBS Protocol **BUT** ad hoc...

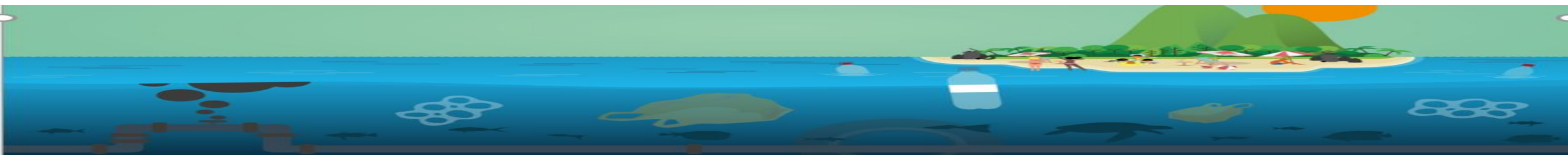
- Source to Sea,
- Ridge to Reef
- White Water to Blue Water
- Integrated Watershed Management
- Integrated Coastal Zone Management
- Ecosystem-Based Management
- GEF IWCAM
- GEF REPCar
- GEF CReW
- GEF IWEco
- GEF CReW+



GEF CRew+

Output 1.1.3

Review, Analysis and Report for developing a **new Strategy or Protocol on the management of freshwater resources** within the framework of the Cartagena Convention.

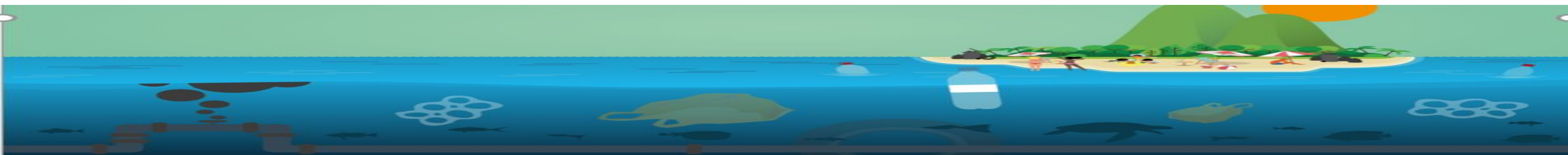


An IWRM Framework to Support Implementation of the Cartagena Convention

Draft 2.0

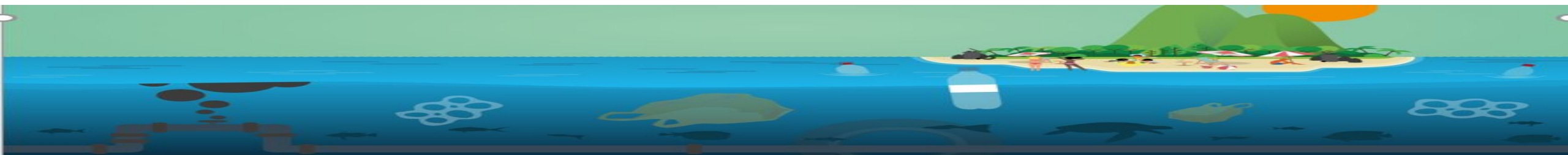
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Purpose of the Information Paper

1. Outline a regional IWRM framework to address existing challenges and opportunities
2. Frame water related projects and activities within IWRM (national and regional)
3. Identify opportunities and synergies for integrating IWRM with Integrated Coastal Zone Management (ICZM), and Disaster Risk Reduction (DRR)
4. Recommend on how the Cartagena Convention/LBS Protocol could further support IWRM implementation

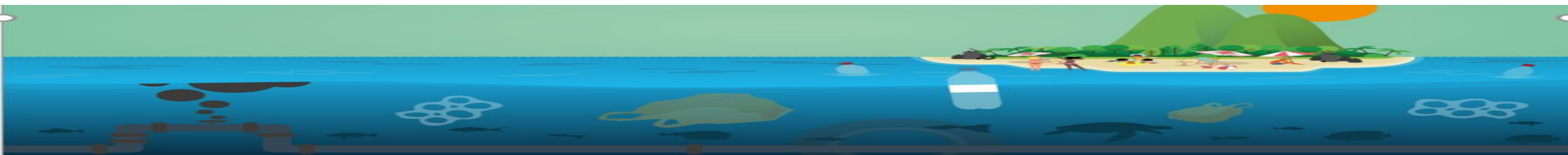


IWRM

*A **process** which promotes the coordinated development and management of water, land, and related resources to maximize the resultant economic and social welfare in an equitable and sustainable manner (UN Environment, 2018).*

***Water Security:** The capacity of a population to safeguard sustainable access to adequate quantities of and acceptable quality water for sustaining livelihoods, human well-being, and socio-economic development, for ensuring protection against water-borne pollution and water-related disasters, and for preserving ecosystems in a climate of peace and political stability (UN Water, 2013).*

***The Water-Food-Energy Nexus.** It refers to the relationships among water, food, and energy security and the need for integrated planning.*



WATER IN THE SUSTAINABLE DEVELOPMENT GOALS

SDG 6.5.1

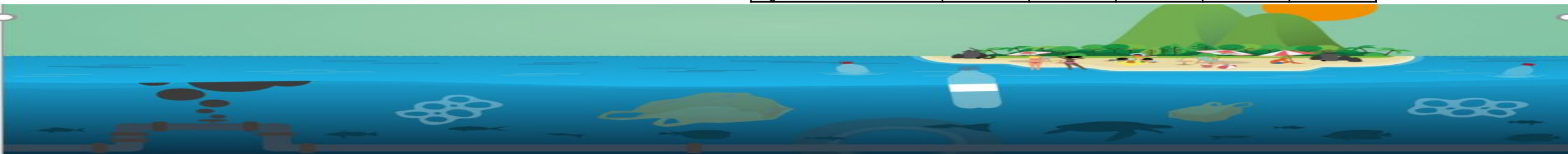
1. Enabling environment (policies, legal framework, plan
2. Institutions and
3. Management ins activities to mak informed choices.
4. Financing: Budget and financing for water resources development and management.

Country name	Final IWRM Score	Section 1	Section 2	Section 3	Section 4
		Average	Average	Average	Average
		Enabling Environment	Institutions and participation	Management instruments	Financing
Antigua and Barbuda	30	32	33	40	15
Bahamas	33	34	31	36	33
Barbados	42	30	48	59	30
Belize	20	28	26	18	8
Colombia	50	55	55	53	38

The report points out that at this level countries are unlikely to meet the global target unless progress significantly accelerates (UN Environment, 2018).

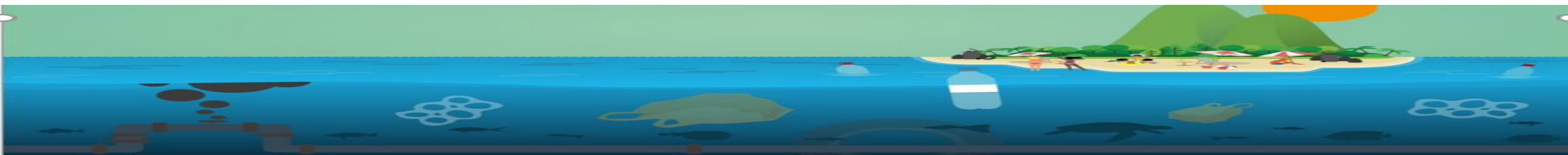
Institutions and participation	Management instruments	Financing
39	41	26
LOW		Low

Nicaragua					
Panama	37	30	35	42	40
Saint Kitts and Nevis	22	15	20	33	20
Saint Lucia	40	30	64	44	23
Saint Vincent and the Grenadines					
Suriname	15	16	11	23	10
Trinidad and Tobago	25	26	29	33	13
Venezuela (Bolivarian Republic of)					
Regional Scores	34	31	39	41	26



IWRM AND CLIMATE CHANGE, BIODIVERSITY, RESILIENCE

- Water is the number one priority for adaptation actions in most of the INDCs and is directly or indirectly related to all other priority areas (UNESCO, UN Water 2020)
- IWRM could become a powerful tool for biodiversity conservation if the ecological role of hydrological regimes is understood
- IWRM is a powerful approach that needs to be reinforced other approaches to have a unified resilient response to future risks



4. AN IWRM FRAMEWORK TO SUPPORT IMPLEMENTATION OF THE CARTAGENA CONVENTION AND ITS PROTOCOLS

4.1 PREVIOUS EXPERIENCES

4.2 A NEW IWRM APPROACH

4.3 COMMON PRINCIPLES

- Ecosystem-based management
- Source-to-sea (S2S)
- Sustainable consumption/production
- Natural capital approach
- Science-policy interface
- Resilience Building
- One health for all
- Public participation

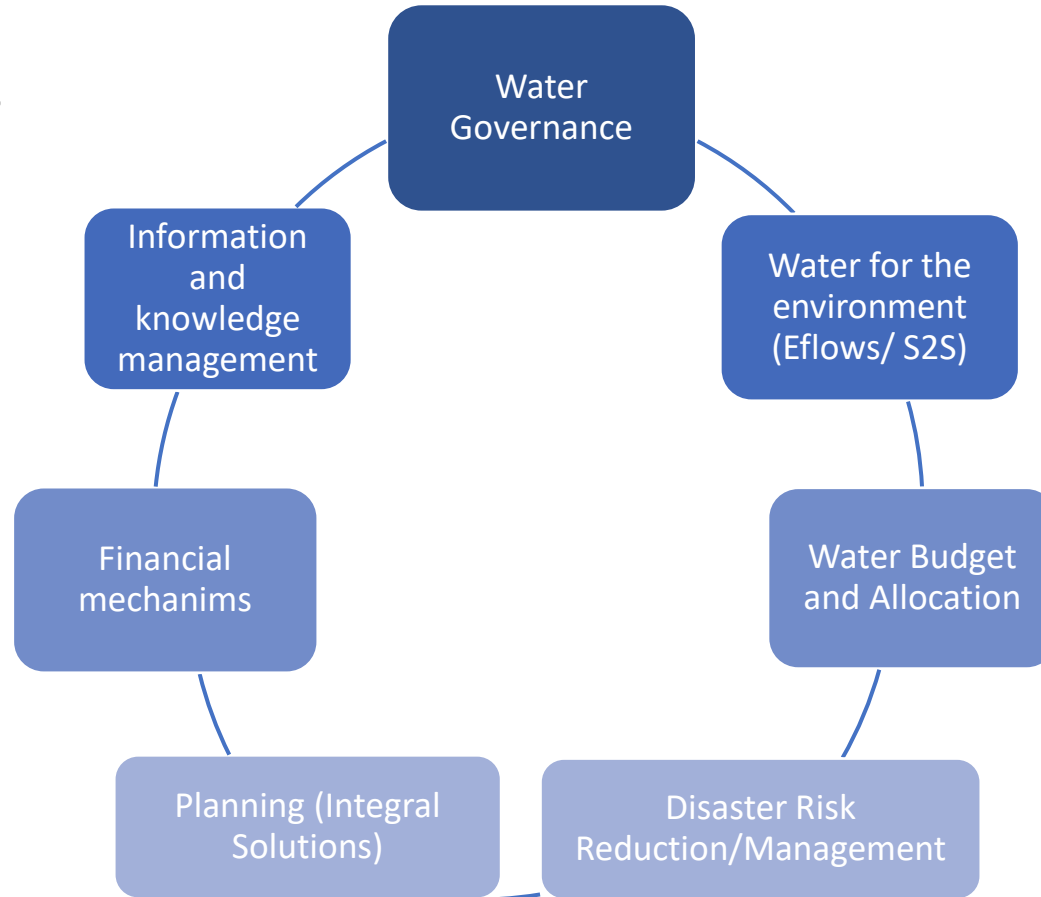
4.4 KEY IWRM ACTIONS

- Water governance
- Water for the environment
- Water budget and allocation
- Planning for integrated approaches (IWWM)
- Disaster Risk Reduction/Management (DRR/M)
- Alternative financial mechanisms
- Information and knowledge management

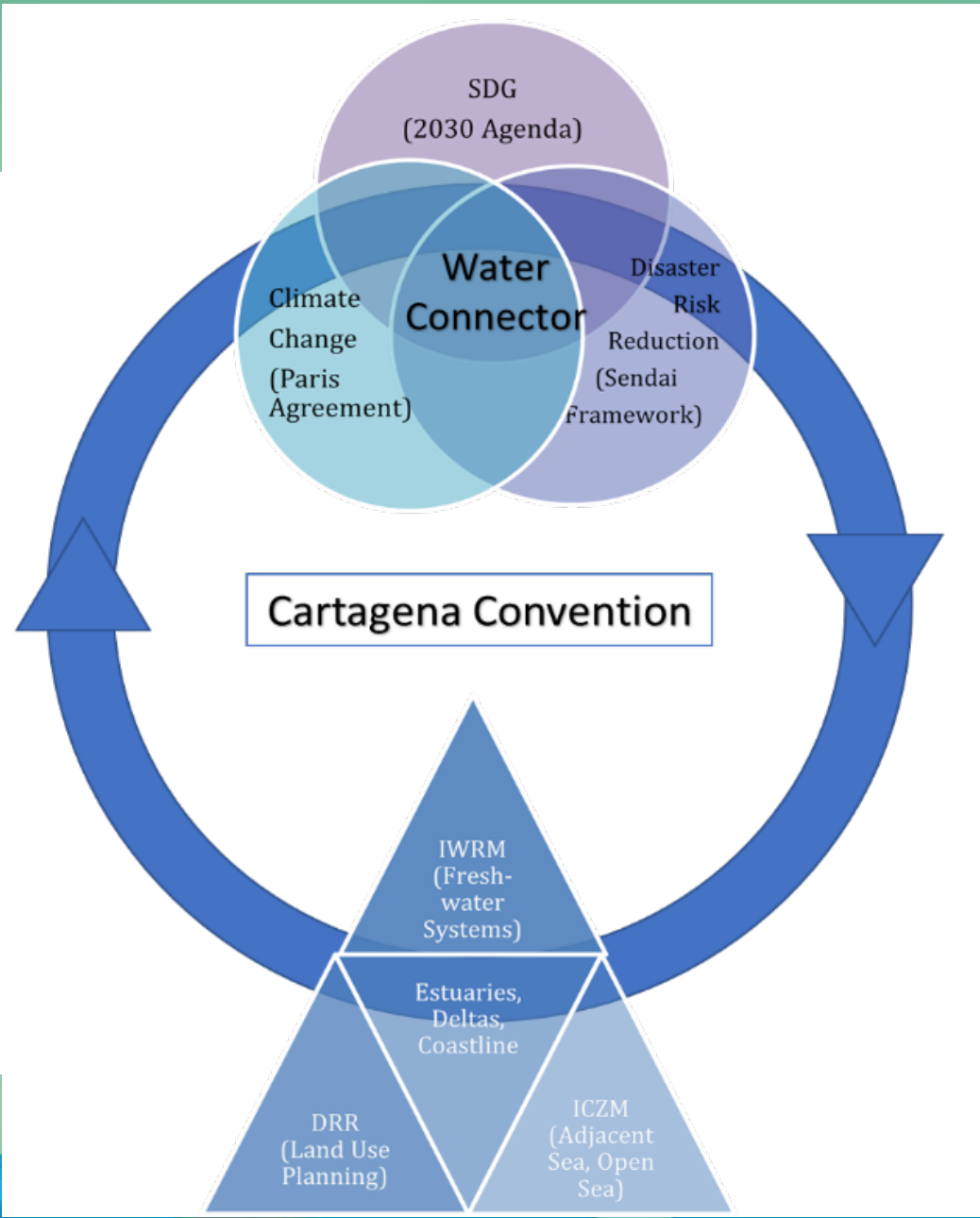
4.5 CONCEPTUAL FRAMEWORK



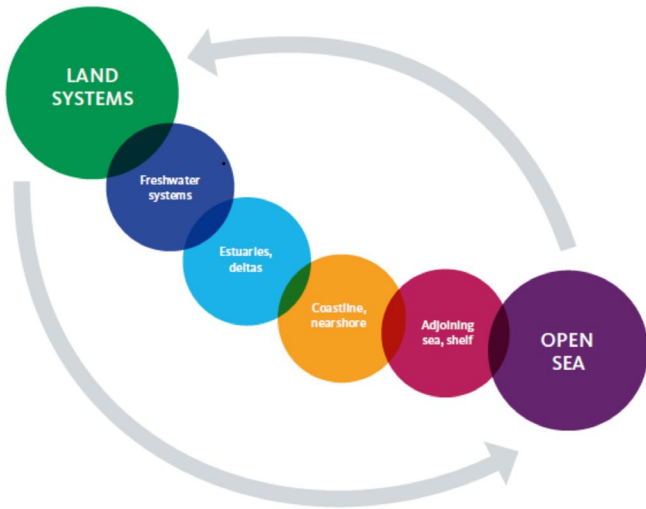
KEY IWRM ACTIONS



Conceptual framework



Example of a common IWRM- DRR-ICZM program:



Principle	IWRM	ICZM	DRR
Ecosystem-based management	<ul style="list-style-type: none"> Eflows based on hydrological regime/hydroperiod of coastal ecosystem including water quality (pollution, sediments, nutrients) Water allocation for coastal ecosystems as a goal for IWRM Land use plans for coastal ecosystems risk reduction Green infrastructure for DRR 		
S2S	<ul style="list-style-type: none"> Protect water catchment, storage and distribution Regulate water uses Ensure connectivity 	<ul style="list-style-type: none"> Set limits to sediment and nutrient loads Define ecological process for migratory species 	<ul style="list-style-type: none"> Define river hydraulic capacity for protection (floodplains, riparian corridors) Avoid invasion of flood prone areas
Sustainable consumption	Wastewater resource recovery	Pollution control Fisheries	Risk reduction from pollution
Natural Capital	Integrated value of ecosystem services (e.g., Mangrove Management)		
Resilience building	River basin resilience (water resilience + coastal resilience)		
Science-Policy	Integrative knowledge socio-ecological systems		
One health	<ul style="list-style-type: none"> Safe drinking water and sanitation 	Healthy coastal ecosystems	Ensure resilient infrastructure
Social participation	River basin councils	Coastal communities, port authorities and tourism sector	Vulnerable groups

What role should the Cartagena Convention Secretariat have in promoting Integrated Water Resources Management?

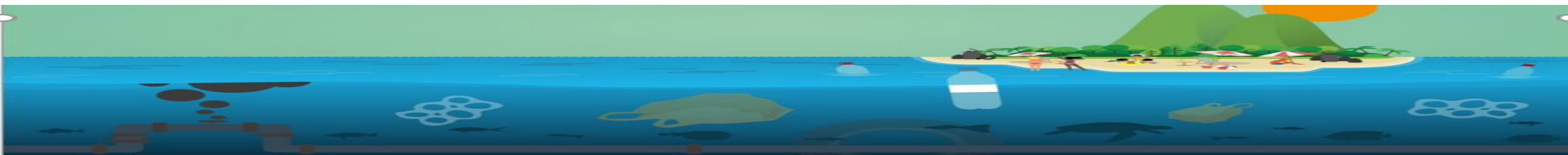


How should we address Water Resources Management in the work of the Secretariat?



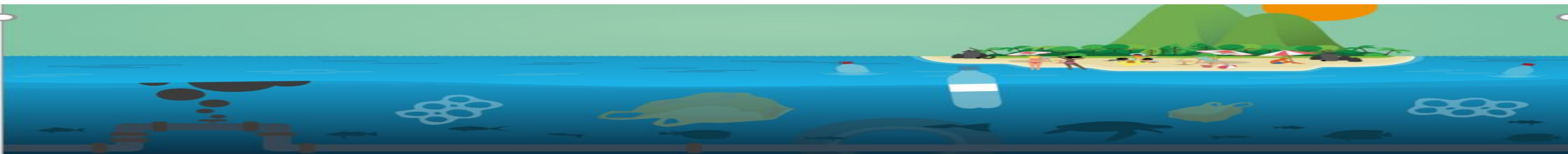
Implementation – What is needed at a country level?

- Develop & Implement IWRM Plans
- Political will to accelerate IWRM implementation
- Strengthen enabling environment: policy, legislation, regulations and enforcement
- Water authority body to lead IWRM Plans across sectors, and coordinate integration (IWRM-ICZM-DRR)
- Water governance model for active stakeholders' participation



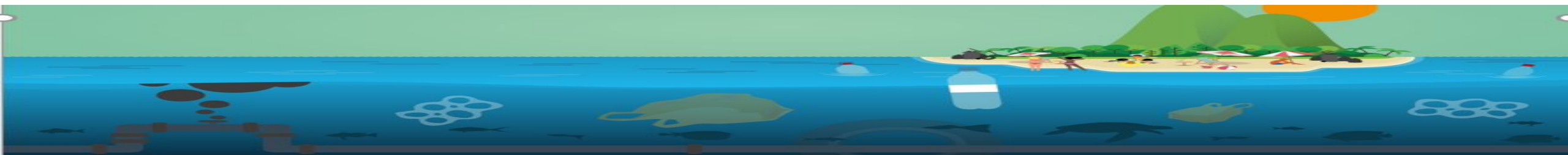
Implementation – What is needed at a country level?

- Ensure linkages between water resource managers and those dealing with marine pollution and marine biodiversity management
- Financing strategy based on a multisectoral approach (water services, DRR, health, ecosystem services, tourism and other economic activities)
- Reinforce regional collaboration to support IWRM policies, tools and practices
- Take advantage of ongoing projects and activities: IWEco, CReW+



5th LBS STAC may wish to Recommend:

- Importance of accelerating IWRM adoption to meet the 2030 Agenda, Paris Agreement and Sendai Framework
- Importance of Integrated Water Resources Management in the future work of the Cartagena Convention and its Protocols
- A new Working Group or sub-group to explore how this integration can take place building on the recommendations of the Information Paper
- Continued involvement by Contracting Parties in providing technical input to the finalization of the Information Document
- What should be the main role of the Secretariat in supporting implementation of IWRM Plans at a country level?



THANK YOU/GRACIAS/MERCI

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