

# Framework Programme for Expanding Waste Management Services of Local Authorities within Caribbean SIDS

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**IPLA Global Forum**  
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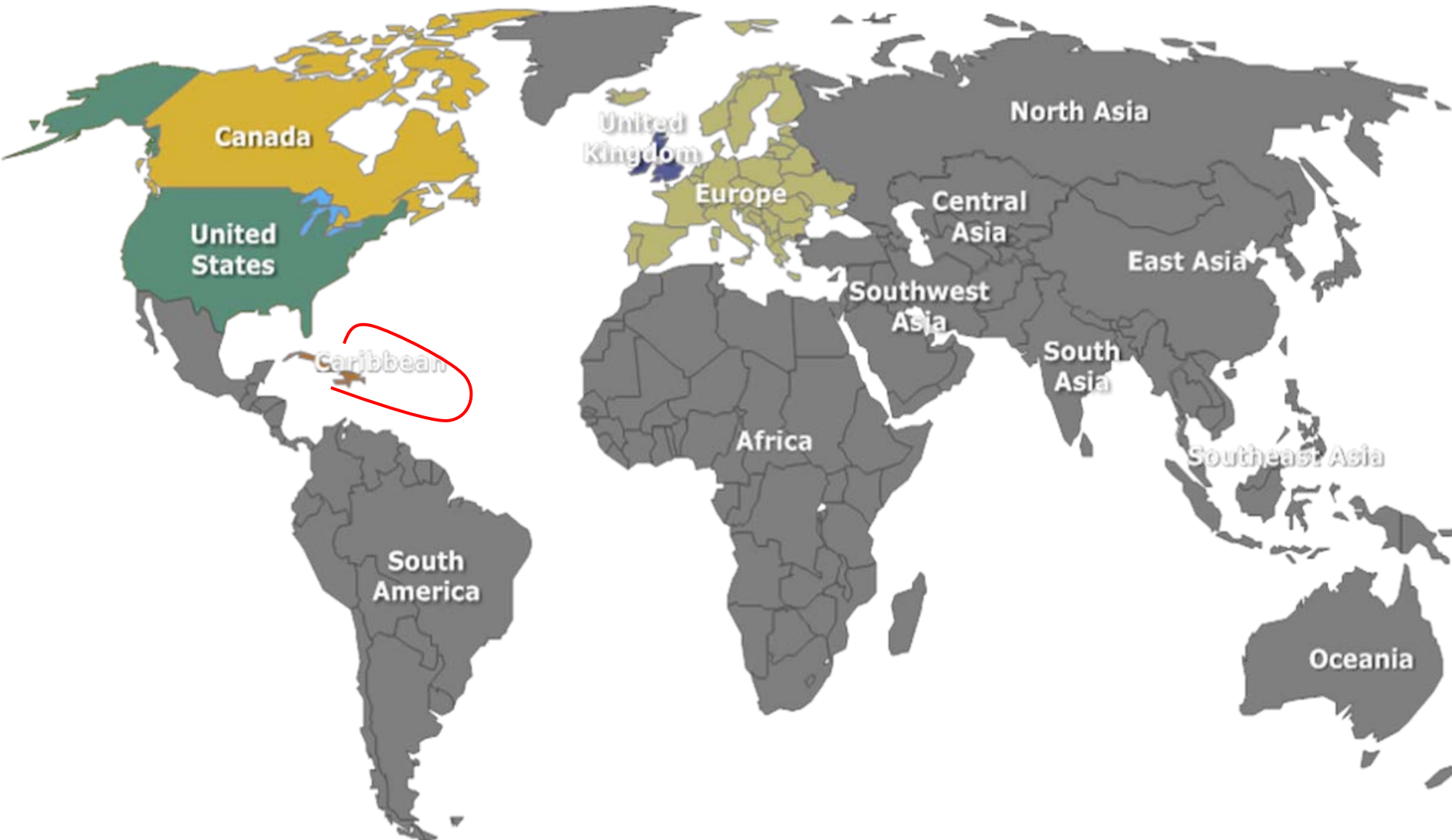


Political Map of the World, April 2001

Legend:  
• Independence date  
• Dependency or associated territory  
• Island / island group  
• Capital  
• Population (millions)  
• Area (square km)  
• Water (square km)



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Gulf of Mexico

North  
Atlantic  
Ocean

Caribbean Sea

North  
Pacific  
Ocean

Scale 1:12,500,000

Lambert Conformal Conic Projection,  
standard parallels 9°N and 17°N

0 100 200 300 Kilometers  
0 100 200 Miles

Boundary representation is not necessarily authoritative

• Bermuda

# Caribbean





# Characteristics

- Small, open economies
- Limited capacity
- Institutional weaknesses
- Lack of information and monitoring systems
- Limited trained and skilled human resources
- Heavy tourism dependence
- High Debt-to-GDP ratio
- Heavy dependence on imported fossil fuels
- High vulnerability to climate change impacts



# Characteristics

- Lack of solid waste reduction policies
- Lack of strategic plans for waste management
- Centralized waste authority, with private contractors
- Disposal: Landfills and dumps
- Limited waste recovery and recycling
- Average generation: 1.0 kg per capita per day
- 39 million people over 7,000 islands
- Diverse socio-political and socio-economic situations



# JAMAICA

- MSW 2,775 tons per day
- Ship 5,310 tons per day
- Industrial 572 tons per day

Source: NEPA (2011)



# JAMAICA

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# TRINIDAD

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A photograph of two firefighters in full protective gear, including helmets and jackets, working at a fire scene. They are using a red fire hose to spray water onto a large fire. The scene is filled with smoke and debris, including a large metal bucket in the foreground. The background shows a large fire with bright orange flames and thick black smoke.

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**JAMAICA**



# University of the Southern Caribbean

- Waste characterization study
- Campus-wide zero waste policy
- Demonstration projects
- Integrated waste management strategy
- Waste management programmes
  - *Professional certificates*
  - *Graduate degrees*



*“For the things we have to learn before we can do them, we learn by doing them.”*

- Aristotle







# Capacity Building

- Professional Certification Courses
- Specialist Degree Programmes
- Workshops
- Seminars
- Webinars

*Potential for partnership with other institutions*



# Information Sharing

- Virtual Knowledge Network
- IPLA Forum
- Sub-regional Consultations
  
- Intra-regional Clustering
- Exchange programmes
- Municipal twinning

*Potential for partnership with UNCRD and other multilateral agencies*



# Policy Development

- Regional framework
- Policy integration
- Waste reduction targeting
- Zero waste strategy
  - *4Rs*
  - *Waste to energy*

**Climate change adaptation & mitigation**



# Some Realities for the Caribbean

- Major challenge facing Caribbean SIDS in responding to the onset of climate change is the projected cost of adaptation
- **Around USD 86 billion per year is required to support adaptation activities in developing countries [UNDP HDR 2007]**
- Due to the small size of projects in the SIDS, the CDM has delivered *very limited investment* in the energy sector
- Promises from OECD's to increase Overseas Development Assistance to SIDS by 0.7 % GDP have been honored by a few countries (Norway, Sweden, Finland, Denmark and Lichtenstein)



# The Waste to Energy Nexus

A *sustainable energy* sector:

- Enhances energy security
- Promotes economic growth
- Generates financial resources to help address adaptation in the areas of risk reduction and capacity building

*Energy is a higher value commodity than materials in many Caribbean SIDS*









The background of the slide is a grayscale photograph showing several flagpoles with flags flying, set against a backdrop of dense tropical trees and foliage. The image is slightly out of focus, creating a sense of depth.

# *Thank You!*

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