

A tropical beach scene with palm trees, driftwood, and people in the water under a cloudy sky. The foreground is dominated by dark sand and large pieces of weathered driftwood. In the middle ground, a sandy beach leads to shallow water where several people are standing. The background features a dense line of palm trees and a blue sky with scattered white clouds.

# Grenada Experience with Environment Statistics

National Workshop on Environment and  
Climate Change Statistics

St. George's Grenada

# Outline

- Country Background
- Main Environment Issues, Concerns & Priorities
- Environment Policies, Programmes and Obligations
- Main institutions involved in environmental data/statistics/information production
- Data Currently Collected
- Past and Present Activity to improve Collaboration
- Suggested future Activities to improve Collaboration
- Future Plans in Environment Statistics
- Policy Applications



# Country Background (Grenada)

- Grenada is 19 km long with a coastline of 121 km with an area of 344 km<sup>2</sup>
- Grenada has an estimated population of about 111,959 persons
- Gross Domestic Product (GDP) real growth rate 4.14% (2018)
- Grenada's Unemployment Rate 16.7% (3rd quarter 2018)



# Main Environment Issues, Concerns & Priorities

- Achievement and goals in the National Sustainable Development Plan and the SDGs
- The Blue Economy
- Land Degradation -Deforestation causing habitat destruction and species loss;
- Coastal erosion and Contamination;
- Pollution and Sedimentation;
- Inadequate solid waste management
- Climate change
- Costal Land Development
- Invasive Species
- Vulnerability to natural disasters



# Environment Policies, Programmes and Obligations

- Grenada National Sustainable Development Plan
  - Goal #1: High Human and Social Development: Putting People at the Centre of Sustainable Development and Transformation.
  - Goal #2: Vibrant, Dynamic, Competitive Economy with Supporting Climate- and-Disaster-Resilient Infrastructure.
  - Goal #3: Environmental Sustainability & Security) if you realise goal 2 and 3 is about the environment.

**Two of the main goals focusses on the Environment**



# Environment Policies, Programmes and Obligations

## Environmental dimension of the SDGs

- Goal 6. Clean Water and Sanitation
- Goal 7. Affordable and Clean Energy
- Goal 11. Sustainable Cities and Communities
- Goal 12. Responsible Consumption and Production
- Goal 13. Climate Action
- Goal 14. Life below Water
- Goal 15. Life on Land



Almost half of the SDG targets require environment statistics to compile its indicators.  
Need for improvement in data and statistics to monitor progress on the SDGs  
and the associated need for statistical capacity building is key



# Environment Policies, Programmes and Obligation

- **The Blue Economy**
- Blue Growth Coastal Master Plan
- A draft integrated spatial plan for our marine and coastal environments and the economic activities they can support sustainably.
- Blue Vision
- Grenada's Blue Growth Vision:
  - To optimize the coastal, marine, and ocean resources to become a world leader and international prototype for Blue Growth and Sustainability

# Environment Policies, Programmes and Obligations



- **Land Degradation**

- 2001 – A Forestry Policy was Developed
- Forestry Division had a campaign educating the general public importance of proper practices that would not affect the forest.
- Ongoing program of providing seedling to private land owners to encourage reforestation.

- **Agriculture**

- A Food and Nutrition Policy and Plan of Action for Grenada to develop and boost agricultural Output
- Continuous Awareness programme





# Environment Policies, Programmes and Obligations

- **Costal Land Development**

- Physical Planning and Development Control Act #25 2000 (monitors the building processes within Grenada)
- Continuous Public Awareness.

- **Costal Erosion**

- **Sand Mining -**

- Government prohibited sand mining
- (prohibiting the use of beach sand in Construction.

- **Contamination of Drinking Water**

- **Salt Water Intrusion**

- Closed Contaminated Wells
- Upgrade water treatment plants (EU Funding)



# Environment Policies, Programmes and Obligations

- **Climate Change**

- Ratifies the UNFCCC and the Kyoto Protocol and submitted continuous report as mandated for contracting parties
- Establishment of a Ministry of Environment
- Establishment of a National Climate Change Committee (oversee the implementation of Climate Change Initiative)
- Ongoing Public Awareness,
- SDG related to the Environment
- Advancement to Blue Economy
- Making St. George a climate smart city



# Environment Policies, Programmes and Obligations

- **Solid Waste**

- Legislation against illegal dumping oily waste in waterways
- Solid Waste Act Regulations 1999
- Established waste landfills (though no segregation of waste)
- Scheduled collection of Waste
- Construction waste must be sorted before being disposed
- Continuous Awareness Campaign





# Environment Policies, Programmes and Obligations

- **Pollution**
- Sewerage and Grey Water
  - Implementation of Sewerage Systems in St. George
  - Plans to expand sewerage systems within Grenada
- **Agricultural Pesticides and residues**
  - Created guidelines to the proper use of these pesticides



# Main institutions involved in environmental data/statistics/information production

- Central Statistical Office
- Ministry of Agriculture
- Ministry of Climate Resilience, the Environment, Forestry, Fisheries and Disaster Management
- National Water and Sewerage Authority (NAWASA)
- Grenada Solid Waste Management Authority (GSWMA)
- GRENLEC
- Min. of Public Utilities and Energy-Energy division
- Meteorological office
- Ministry of Health
  - Environmental Health
  - Epidemiology
- Grenada Tourism Authority
- Ministry of Finance IRD & Customs
- NADMA



# Data Currently Collected

- Central Statistical Office
  - Household survey data: population, access to water & drinking, sanitation, garbage disposal, fuel for cooking & lighting, import data-fuel and fertilizers
- Ministry of Climate Resilience, the Environment, Forestry, Fisheries and Disaster Management
  - Fish landings, marine protected areas, info on climate related events(hurricanes, drought, floods etc)
- Ministry of Agriculture and Lands
  - Agricultural census data
- Ministry of Health
  - Environmentally related diseases, medical professionals
- Energy Division- petroleum imports and sales
- Inland Revenue Division- Vehicle registration new and used vehicles



# Data Currently Collected

- NAWASA- Water production
- GRENLEC- Electricity production and consumption
- Meteorological Office- Rainfall and temperature
- GSWMA- Waste data
- GTA- Tourist & cruise ship arrivals, visitor expenditure, passenger traffic, aircraft landings



# Current Issues and Challenges



- Grenada is one of the many Caribbean island that struggles to adequately collect statistical data on the environment indicators

Due to

- Lack of Harmonized Metadata and Methodologies across NSS adopting the UN FDES
- Inadequate Staff in CSO and Line Ministries
  - No staff dedicated to Environment Statistics at CSO
  - No Statistician or staff responsible for data collection in Min. of Environment
- Systems of data producers and supplier not design to capture information to allow for reporting according to international standards (e.g water and waste)
- CSO being the secondary data collectors of the data
- Data providers are not obligated to supply data by deadline resulting in delays in data production
- Loss of institutional memory due to transfers of staff

# Past and Present Activity to improve Collaboration

- **Past**

- CARICOM Secretariat and CSO undertook an exercise of visiting all stakeholders involve in the data collection process to try to strengthen the process in 2014.

- **Present**

- UNSD and CSO is collaborating to hold National Environment Statistics Workshop to train environment Statistics stakeholders & put system in place for data compilation.

# Suggested future Activities to improve Collaboration



- Improvement of the data sharing mechanism. Develop data sharing agreements with data providers to ensure timeliness of data submission
- Establish roles and responsibilities for the Stakeholders producing environment data
- Creation of a standard template/ reporting for the reporting of the data by stakeholders.
- Continuous collaboration with line ministries and other stakeholders in the production of data
  - E.g collaborating with the Ministry of Agriculture and Ministry of Environment in doing joint publications as well as have monthly inter-agency working group meetings in developing the system of environment statistics production.

# Future Plans in Environment Statistics

- Continuous and consistent production of Environmental Statistics
- Having a dedicated staff for the compilation of Environment Statistics
- Continuous collaboration with Line ministries and stakeholder
- Continuous training for person involved in the data collection process
- Presenting data in final form to person involved in the production of the data.
- User Forums





# Policy Applications

- Monitoring of National Developments goals and the sectoral goals in the various sub-sectors of the environment.
- Monitor governments implementation of polices and programmes mentioned earlier as well as the impact of legislation. To take corrective action if improvement is not realized.
- Important information for researchers and development partners in the area of environment.
- Preserving environment for future generation ensuring sustainable development
- Ensuring Food security Poverty Reduction



Thank You

