



# GOJ/EU/UNEP CLIMATE CHANGE ADAPTATION & DISASTER RISK REDUCTION PROJECT



GOJ



EU



UNEP

## The Climate Change Adaptation and Disaster Risk Reduction Project

### **A Model Approach?**

**Prepared by : The Project Management Unit**

**Presenter: Mary Ann Gooden**

**August 29, 2013**

# Issues/Challenges

- ❖ Jamaica's high vulnerability to climate change impacts
- ❖ Environmental degradation
- ❖ Inadequate mainstreaming of climate change issues into sectoral plans and national policies
- ❖ Low levels of awareness about climate change and appropriate responses



## GOJ/EU/UNEP CLIMATE CHANGE ADAPTATION & DISASTER RISK REDUCTION PROJECT



GOJ



EU



UNEP

- Funded by: GOJ/EU/UNEP
- Value: Euro 4.482M
- Duration 38 months

### Main Objectives:

To assist Jamaica with its adaptation to climate change and to contribute to sustainable development by increasing the resilience of vulnerable areas and reducing the risks that are associated with natural hazards

# The Approach



## Project Design

### Incorporating Key Agencies

1. Forestry Department
2. National Environment and Planning Agency
3. Met Services Jamaica and
4. The Environmental Management Division (MoWLECC)

# The Approach

## Evidence Based!

### ➤ New restoration techniques

- Seagrass replanting
- Mangrove Restoration

### ➤ Piloting

- New technology e.g. Shorelock, new reef systems (WAD & MTG)
- Educational Programmes on Climate Change
- RiVAMP- Watershed area

### ➤ Demonstration Plots

- To show agronomic better practices



# The Approach

**Data Gathering:** Establishing/Strengthening data gathering capabilities

➤ FD

- Geo Database/conducting Land Use and Change Detection studies
- Establishing and monitoring Permanent Sample Plots within pristine forest areas and mangrove forests

➤ NEPA

- Database incorporating decision making tools such as parameters for set back limits
- Data loggers and tidal gauges

➤ Met Service

- Enhanced GIS database capabilities for better service delivery
- Case studies & Mini KAPs
- Procuring Automatic weather station and rain gauge

# The Approach

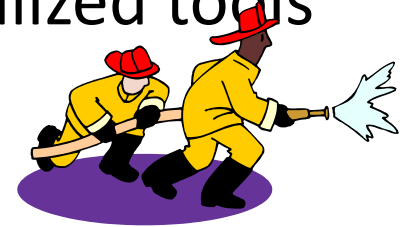
## **Collaborative**

- Working closely with local communities to replant /restore mangroves
- Providing grants to establish alternate livelihoods programmes with NGOs & community groups
- Consultations prior to implementing activities (Internal/External)

# The Approach

## Building Capacity - FD

- Establishing/Strengthening Local Forest Management Committees
- Implementing a Fire Management Programme with the community and with the Local Fire Services
- Building river protection structures
- Fire fighting equipment/ other specialized tools
- Refurbishing nurseries
- Provision of GIS equipment





# The Approach

## **Building Capacity - NEPA**

- Working with community to complete Environmental Business Plans for Marine protected areas sustainability
- Training in the use of new tools and methodologies
- Procuring equipment and specialized tools

# The Approach

## **Building Capacity – EMD/Met**

- Completing a Climate Change Policy Framework
  - Review of other Draft policies eg Cays Policy and Coastal Resources policy
- Institutional Reviews
- Capacity assessments completed and training in climate change awareness and mainstreaming
- Workshops on climate change adaptation and disaster risk reduction
- Procuring equipment and specialized tools

# Approach

## Awareness Raising

- Climate Change Campaign Targeting:
  1. Decision Makers
  2. Vulnerable Communities
  3. Disabled communities e.g. hearing & visually impaired
- Developing relevant collateral material & tool kits
- Innovative ways to get the message across
  - Bus Campaign
  - Use of Cultural icons to deliver Climate change message

# Moving Forward

- The continuation of Monitoring and Data Gathering
- Other projects which complement and/or support activities started under this project:
  - The Pilot Project for Climate Resilience
  - The Adaptation Fund Project

# Key Results Expected

**Rehabilitated watersheds through slope stabilization measures such as reforestation of denuded hillsides**

**Bellevue in the Blue Mountains of Jamaica**



# Key Results Expected

**Increased resilience of selected coastal areas against potential climate change impacts**

**Building Hydrological Channel- Portland Cottage**



**Engaging the community in the Replanting of Mangrove**





# Key Results Expected

## Climate change capacity building and awareness raising

Communications Campaign

Training at the community level



# Achievements to Date



## Result Area 1: Forestry Department

- Replanted 392ha of a targeted **400ha** of lands in Watershed Areas. These include: Yallahs River, Hope River, Buff Bay/Pencar and Rio Bueno Water Management Units
- Four **nurseries** are currently being rehabilitated
- Established/strengthened four (4) **Local Forest Management Committees (LFMC)**
- Established **Agro Forestry** and **livelihoods programmes** in vulnerable communities
- **Land Use and Change Detection Assessment** of Jamaica's forested areas carried out
- Implemented a **Forest Fire Management Programme**
- Established 21 **Permanent Sample Plots** across select watersheds to monitor the health of forests and measure the impact if climate change



# Achievements to Date



## Result Area 2: National Environment & Planning Agency

- **Database** developed for the management of coastal ecosystems
- **30 Data Loggers procured** and installed for gathering sea surface temperature data
- **Management plans** for two Marine Protected Areas (MPAs) being finalized (Montego Bay and Negril).
- Final preparation for the installation of **artificial reefs** in place
- **Coastal plants nursery** established in collaboration with the UWI – St. Ann
- Over **20 mooring and marker buoys** installed in MPAs (Negril/Portland Bight Protected Area)
- Replanted approximately 1000m<sup>2</sup> of **seagrass** to rehabilitate a composite 20 acres in the Negril MPA
- **Replanted mangroves**
- Identified and Implemented **alternative livelihood programmes** in vulnerable communities
- Piloting the use of **Shorelock** Technology to address **beach erosion** issues

# Achievements to Date



## Result Area 3: Metrological Service Jamaica and Environmental Management Division (MoWLECC)

- **Climate change communications campaign launched** and executed with message being shared with community groups, fisher folks, political leaders, students, NGOs and CBOs
- Support for the establishment of a **data sharing mechanism** realized through the Met Office
- **Case studies** on focused on successful disaster risk reduction measures in vulnerable communities underway
- A **climate change policy framework** developed for Jamaica and moving towards green paper stage
- Policy and institutional **reviews** conducted for key Government Institutions
- **Capacity assessment** completed and **Training** in climate change awareness and mainstreaming scheduled for key agencies
- A **Pilot Public Education Project** on climate change conducted; findings to be presented
- One study towards a **risk and vulnerability assessment** being finalized



## **GOJ/EU/UNEP CLIMATE CHANGE ADAPTATION & DISASTER RISK REDUCTION PROJECT**



GOJ



EU



UNEP

**This project is building on the past ...creating  
new pathways... with a view to supporting the  
future!**



# GOJ/EU/UNEP CLIMATE CHANGE ADAPTATION & DISASTER RISK REDUCTION PROJECT



GOJ



EU



UNEP

## Q&A

