



ORGANISATION OF EASTERN CARIBBEAN STATES

# **GCCA Project on Climate Change Adaptation and Sustainable Land Management in the Eastern Caribbean**

## **Overview**

by Chamberlain Emmanuel - OECS Commission



## The Bottom Line

*“Climate could be one of the causes why some countries are trapped in poverty, and Climate Change may make it harder to escape poverty” - IPCC AR 5;*

*“Well planned, early adaptation action has been shown to save money and lives later. In many instances there is a need for integrated hard and soft approaches to ensure long term sustainability” - IPCC AR 4.*



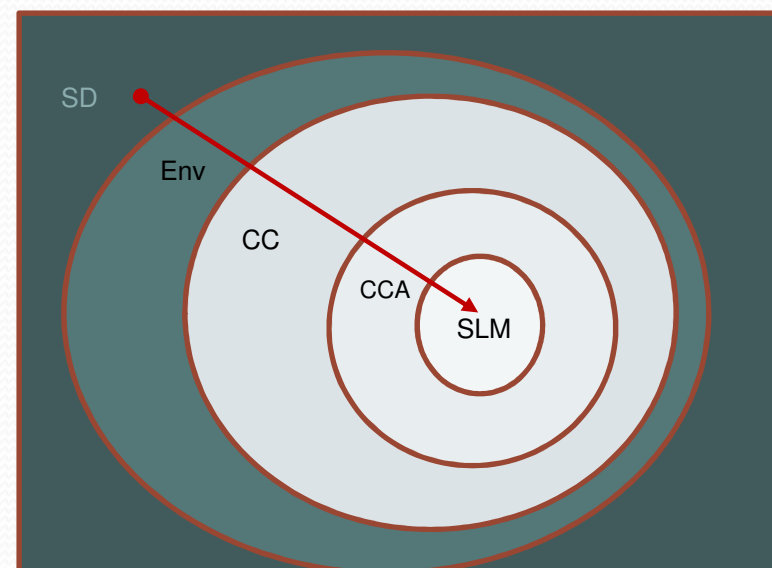
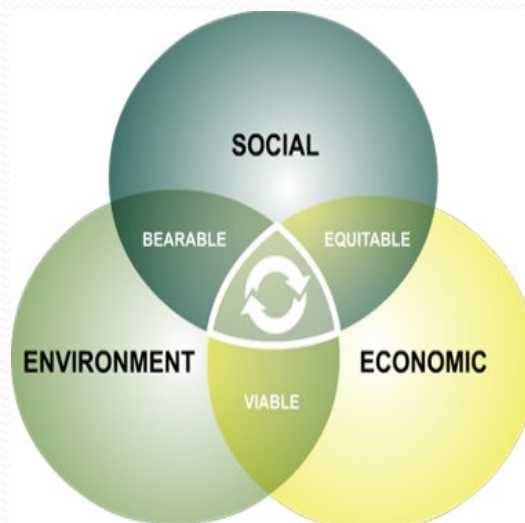
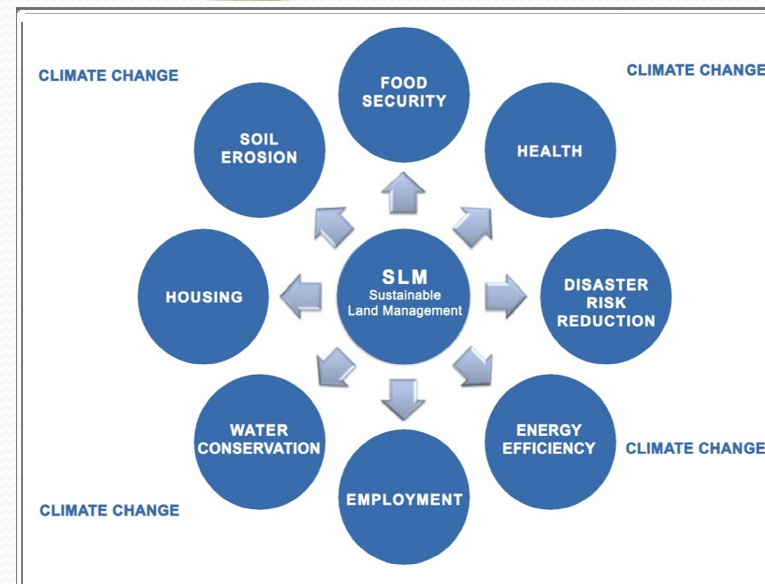
**\$\$ Erika on Dominica \$\$**



## CONCEPT & FOCUS

### Definition of the Ideal SLM framework:

**Sustainable land management** is the maintaining of equilibrium of economic, social and environmental demands on land resources in an environment of responsible governance (Williamson et al. 2009; Deininger et al. 2012).





## **GCCA Project on Climate Change Adaptation (CCA) and Sustainable Land Management (SLM) in the Eastern Caribbean**



### **Purpose/Objectives:**

To improve the region's natural resource base resilience to the impacts of climate change, through:

- Effective and sustainable land management frameworks and practices (Enhanced SLM regulatory frameworks; Human and technical capacity; and Public Awareness);
- Specific physical adaptation pilots

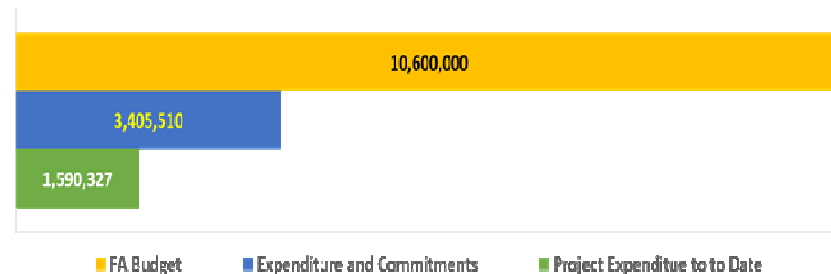
**Funding Agency:** European Union  
– Global Climate Change Alliance

**Beneficiary Countries:** 6  
Independent and 3 Non-independent  
OECS MS

**Value:** € 10.6M

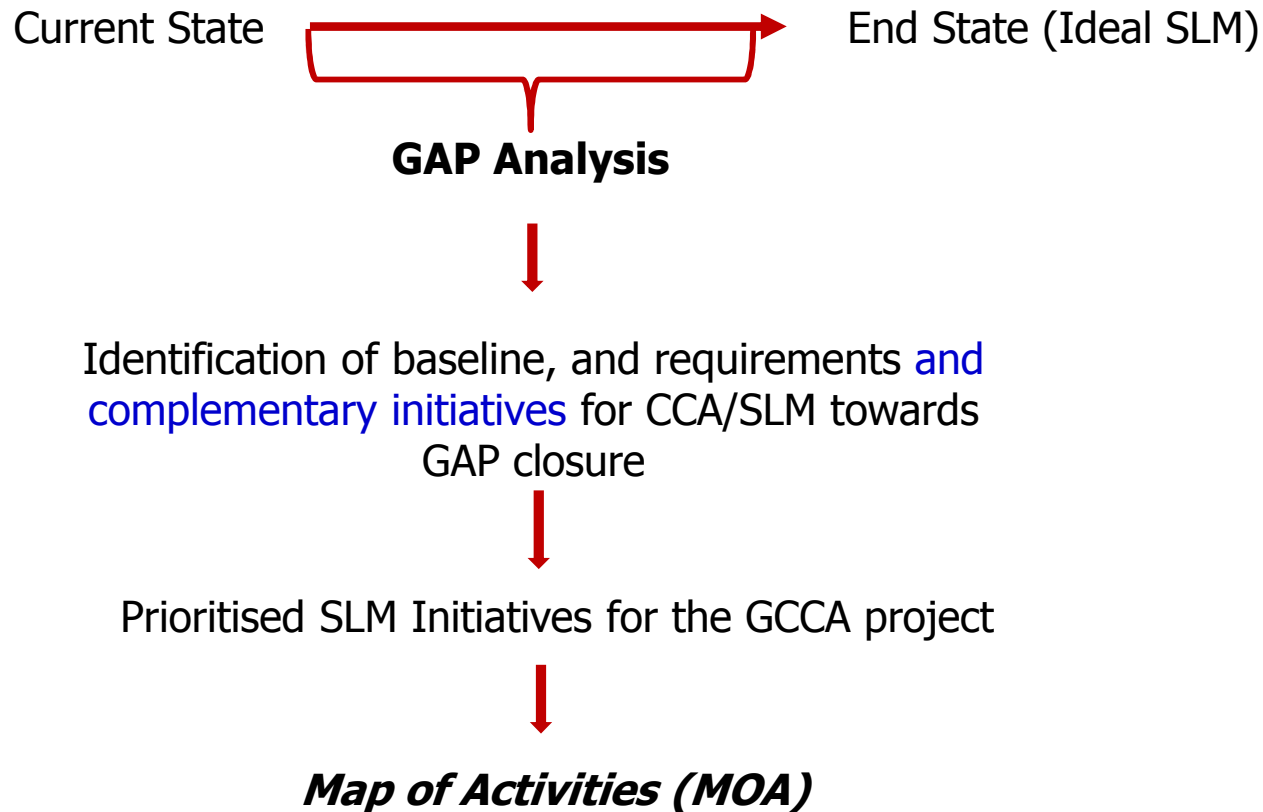
**Duration:** Five years (2014 – 2018)

OVERVIEW - FINANCING AGREEMENT BUDGET VS PROJECTED EXPENDITURE AND COMMITMENT TO MARCH 31, 2016 (EUR)





## EXPECTED RESULT A1: Improved understanding of Region's SLM needs





## Activities Under Component A

### Effective and sustainable land management frameworks and practices

|   |  |   |   |
|---|--|---|---|
| high level of <b>awareness</b> of SLM and CCA concepts              | <b>political climate</b> that is sensitive to the roles of SLM/CCA | Supported by clear <b>land policies</b> | supportive <b>institutional environment or arrangement</b>  |
| Supported by <b>land use plans and development control</b> measures | <u><b>ideal SLM framework:</b></u>                                 |   | Managed by a team of skilled <b>personnel</b> ...<br>... using modern and appropriate <b>technologies</b> |
| Supported by <b>land information system</b>                         |  |   | Supported by <b>land laws and other legislation</b>   |
|   | <b>land tenure and land registration systems</b>                   | Supported by <b>funding regimes</b>     |   |



## Component B Activities

Physical Adaptation Pilots - 15 PAPs in 8 Themes for 9 MSs

| Thematic Areas: |   | PAPs identified per MS: |     |     |     |     |     |     |     |     |
|-----------------|---|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                 |   | AIA                     | ANB | BVI | DOM | GDA | MON | SKN | SLU | SVG |
| 1               | Drought Mitigation and Food Security        | ✓                       |     |     |     |     |     |     |     |     |
| 2               | Water Security                              |                         |     |     |     | ✓   | ✓   | ✓   |     | ✓   |
| 3               | Flood Mitigation/ Management                | ✓                       | ✓   |     |     | ✓   | ✓   |     |     |     |
| 4               | Watershed/ Forest Rehabilitation            |                         |     |     |     |     |     |     |     | ✓   |
| 5               | Slope Stabilization                         |                         |     |     | ✓   |     | ✓   |     | ✓   |     |
| 6               | Integrated Watershed and Coastal Management |                         |     | ✓   |     |     |     | ✓   | ✓   |     |
| 7               | Ecosystem Restoration/ Rehabilitation       |                         |     |     | ✓   |     |     |     |     |     |
| 8               | Environmental Health                        |                         | ✓   |     |     |     |     |     |     |     |





| COUNTRY             | Physical Adaptation Pilots  | Estimate (EUR) |
|---------------------|---|----------------|
| Anguilla            | <b>Streamlining green waste</b> through composting for improved sustainable soil management   | 275,691        |
|                     | Installation of a Control Mechanism for the Inflow and Outflow of water at the <b>Sandy Ground Pond</b>   | 214,400        |
| Antigua and Barbuda | Restoration of waterways and drainage infrastructure and remediation of water-related health issues in <b>Cashew Hill community.</b>                                    | 613,349        |
| BVI                 | <b>North Shore</b> Integrated Coastal and Watershed Stabilisation Project   | 612,773        |
| Grenada             | Promotion of <b>water and food security</b> and protection of watersheds to sustain livelihoods and adapt to climate change.  | 302,740        |
| Dominica            | <b>Reforestation</b> of degraded dry <b>scrub forest affected by invasive alien flora species</b> using agroforestry methods to help build resilience to climate change | 410,810        |
|                     | Development of Model Demonstration Station for Sustainable Land Stabilization Through Adoption of <b>Soil Management and Water Management</b> Activities                | 359,066        |







| COUNTRY                        | Physical Adaptation Pilots  | Estimate (EUR) |
|--------------------------------|---|----------------|
| Montserrat                     | Soil <b>erosion</b> management for farmers at <b>Duck Pond and Blake's Estate</b>   | 68,493         |
|                                | <b>Flood</b> Management and <b>Slope</b> Stabilization Project: For the areas affected by the <b>Collins and Caine's rives</b> and associated tributaries                                 | 443,836        |
|                                | <b>Rain water</b> collection and use of <b>solar power</b> for irrigation at Montserrat <b>National Trust</b> , Salem   | 53,425         |
| St. Kitts and Nevis            | St. Kitts <b>Water Conservation</b> and <b>Drought Management</b> Project   | 273,973        |
|                                | <b>New River Estate</b> Stabilization of Degraded Lands Project   | 300,575        |
| St. Lucia                      | Creating a <b>model watershed</b> in an urban/semi-urban area that supports SLM, encompasses the <b>ridge-to-reef concept</b> and seeks to address the adverse impacts of climate change. | 362,116        |
|                                | A Participatory process for <b>promoting Mango Biodiversity</b> in Saint Lucia, towards SLM, Enhanced Food and Nutrition and Security and Sustainable Livelihoods in the face of CC       | 133,579        |
| St. Vincent and the Grenadines | Implementation of an Integrated Watershed Management Plan for the <b>Upper Cumberland and Perseverance Watersheds</b>   | 416,438        |





## **EXPECTED RESULT A2:** Enhanced SLM institutional, legal and regulatory frameworks at regional and national level

- (i) Policy dialogue through existing and new mechanisms (CUF 4 & 5, OECS COMES and CC Seminars) (OTIs);
- (ii) Revised OECS Building Codes (June, 2015) - existing research, CDB/CROSQ, WHO/PAHO/UK;
- (iii) National Land Policies (SLU, SVG, GDA) - AusAID/UNHabitat issues papers and Regional guidelines
- (iv) National Land use plans and local area plans (incl. land cover & capability) - CDB/DOM
- (v) BVI's Environmental Management Bill; Montserrat's CC Policy and Action Plan;
- (vi) Repository of reference documents.



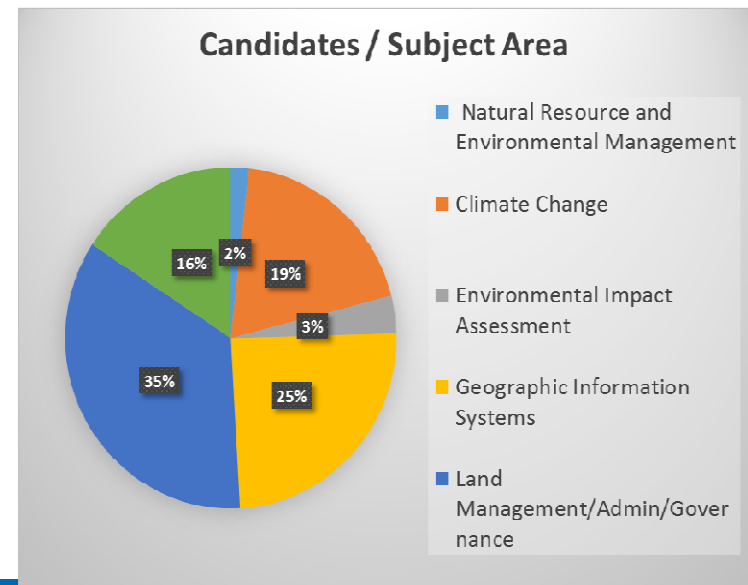


## **EXPECTED RESULT A3:** Enhanced SLM human and technical capacity at regional and national level

- (i) **Geographic Information Systems (GIS)** - WB/GeoNode/DVRP; ACS/Mexico/UN; NSDI
- (ii) **Supply of tools for CCA and SLM, to build technical capacity in the land management units :**
  - **Computer Hardware; GIS software; GPS Equipment and software; Surveying Equipment and software; Automatic Weather Stations (AWS); Water and soil testing; Beach profiling**

- iii. **Training in Geospatial technologies:**
  - **GIS, GNSS, LIS, databases**

- iv. **Certified training in CCA/SLM policies and strategies**





## EXPECTED RESULT A4: Improved PA on the risks, threats and opportunities arising from CC at regional & national level



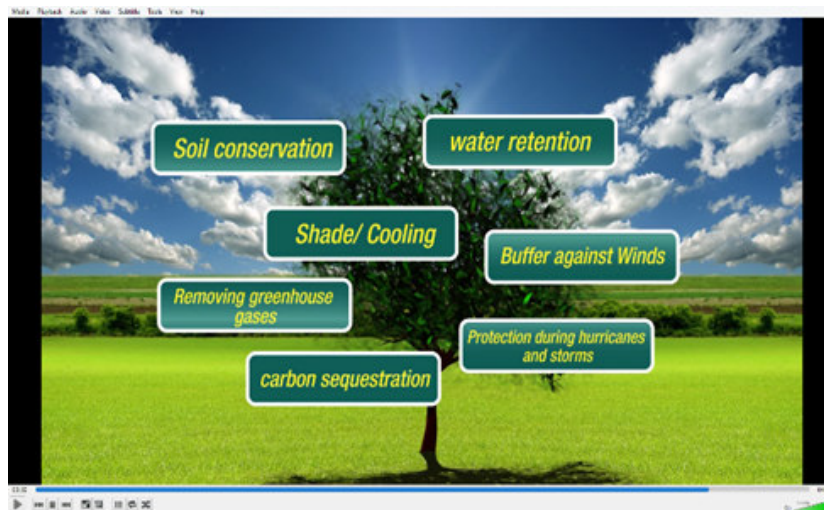
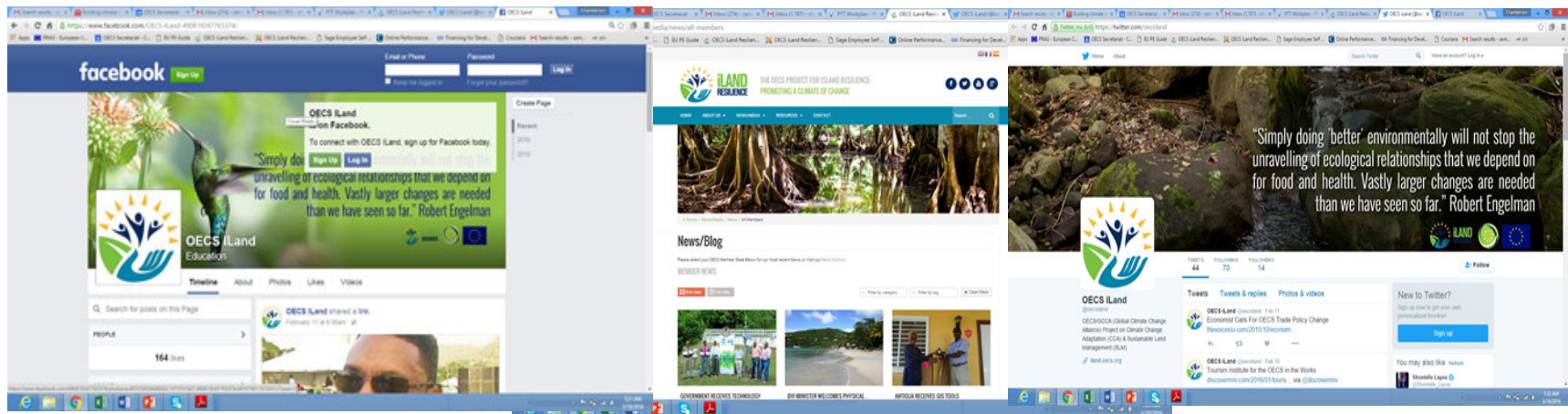
- ▶ A. THE LEAF (Terrestrial)
- ▶ B. THE HAND (Marine)
- ▶ C. THE OECS RAYS (Env.)
- ▶ D. THE PEOPLE
- ▶ E. LOGO - Nomenclature
- ▶ F. TAG LINE

- ✓ Building a Network of Networks; Influencing Policy; Building Capacity in Education and Advocacy; Establishing a durable PA infrastructure





## EXPECTED RESULT A4: Improved PA on the risks, threats and opportunities arising from CC at regional & national level





***Thank You!***

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