

Japan International Cooperation Agency

« Cooperation Program with Mauritius »

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Mauritius, 29th October 2012



Outline

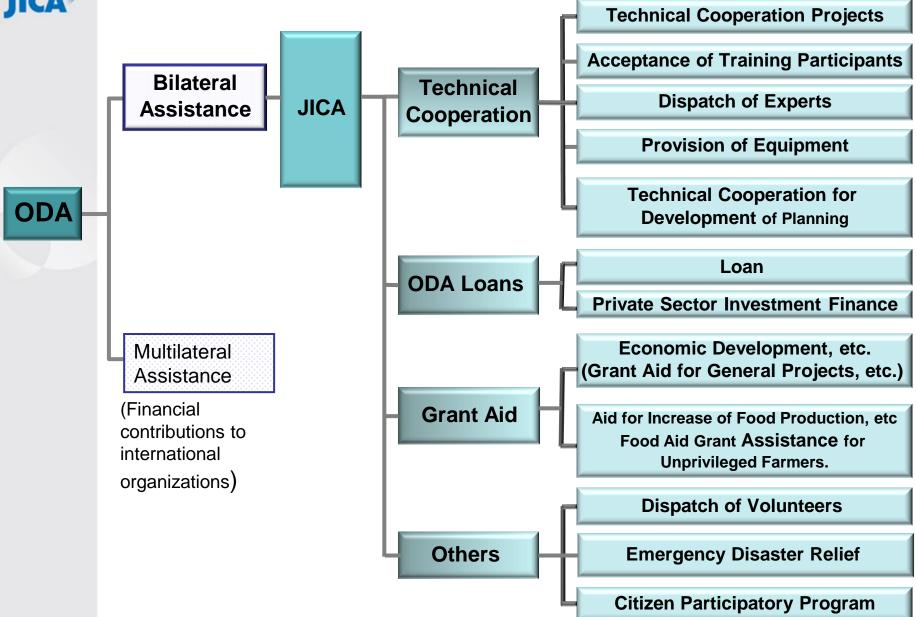
Japan's ODA and JICA

 Japan's Cooperation Program for Mauritius

• Preliminary results of some projects (Coastal protection and Landslide management projects)



Japan's ODA and JICA

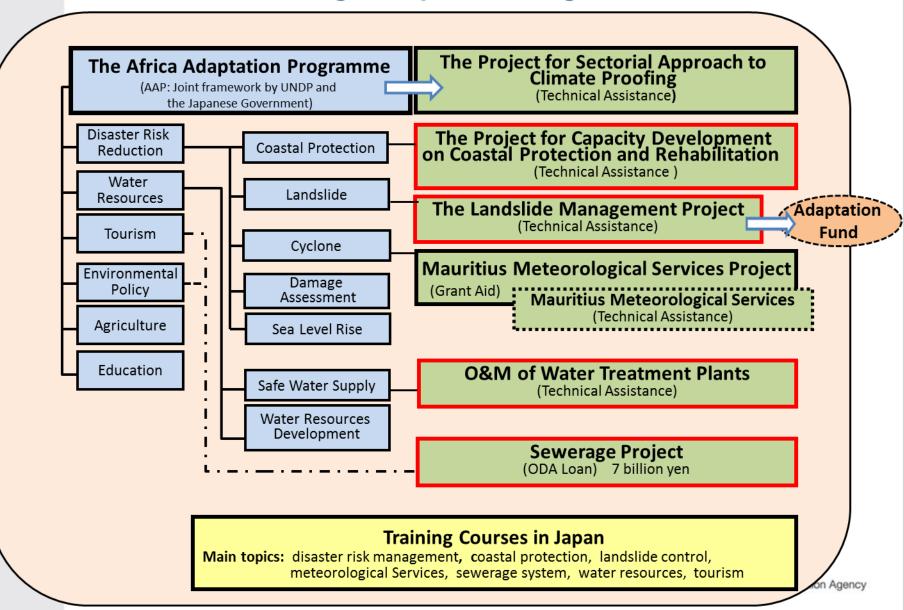




Japan's Cooperation Programme for Mauritius

October 2012

Climate Change Adaptation Programme





Preliminary results of some projects

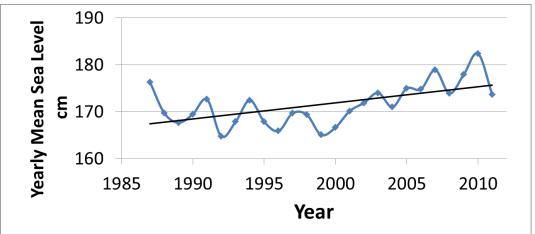
Capacity Development for Coastal Protection and Rehabilitation Outline of the Project

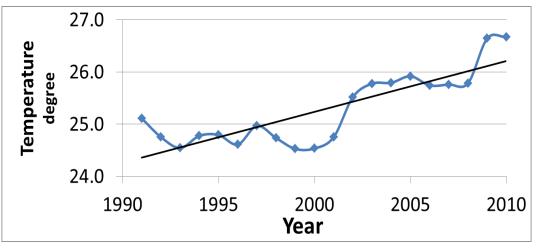
- 1) Overall Goal
 - Coastal conservation plan is approved by GoM
- 2) Objectives
 - To identify affected sites of coastal erosion
 - To formulate coastal conservation plans
 - To show the effectiveness of the conservation plan through demonstration projects
 - To enhance technical capacity in MoESD
- 3) Activities
 - Baseline survey, formulation of coastal conservation plan, implementation of demonstration project, technical transfer of coastal conservation management



Sea Level and Surface Temperature Rise in Recent Years

- 3.2 mm/year of sea level rise from 1987 to 2011 in Port Louis with rapid increase
- 0.1 degree/year of sea surface temperature rise from 1991 to 2010 around Mauritius
- Data from MMS







Coastal Erosion Problems

Long Term Erosion

30km long coastline was eroded from 1967 to 2008 in Mauritius. The maximum beach retreat was 20m.

At Pte. D'Esny 12m of erosion at an average (right)





Erosion Caused by Cyclone

High waves bring temporally erosion of 30 m at its maximum. Beach scarp at Flic en Flac (left)



ALCON.

Coral Degradation

★ Long-term decline in coverage of living corals

Year	2000	2010	
Coverage	52%	→ 19%	By AFRC

★ Present condition of coral coverage

2012 Total 33 sites Av. Coral coverage = 27 %

By JICA & MoESD

Except for few sites, it is apparent that decrease of living corals in Mauritian reefs.

By global worming (coral bleaching) & eutrophication?



Coastal Conservation Plan Applicable in Mauritius

- Plan Includes several measures
- Structural Measures
 - Sand nourishment, rock armoring, groyne
- Non Structural Measures
 - Set back, EIA, land use control, early warning
 - Management of coastal space
- Adaptive management is the key with monitoring



Outline of the Project

The project of landslide management in the Republic of Mauritius

- MPI: Ministry of Public Infrastructure, National Development Unit, Land Transport and Shipping
- JICA: Japan International Cooperation Agency
 (1) Overall Goal
- To mitigate landslide disasters in Mauritius

(2) Objectives of the Project



- To establish a landslide monitoring system by developing a landslide countermeasure plan and activity plans for Landslide Management Unit
- To implement the Feasibility Study and Pilot Project in high risk area
- To develop the capacity of government agencies involved in landslide management through the activities

Component 1: Basic Survey

Component 2: Formulation of a Landslide Management Plan

Component 3: Implementation of the Feasibility Study (F/S)

Component 4: Implementation of the Pilot Project

jica

Landslide Disaster in Mauritius



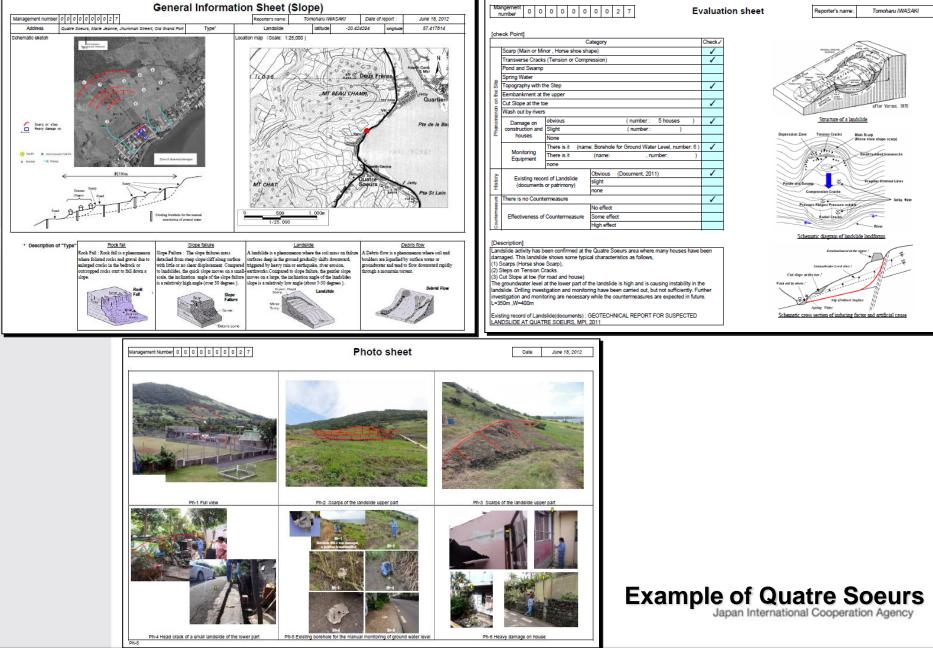








Results of Basic Survey



Instrumentation and Monitoring CA Swich Box Piezo 12 Strain meter Bore Hole gauge standpipe Strain Gauge Variable water table water table Joint open water pressure piezometer compression tension Extensometer Ivar wire (\u00f60.5mm) Rain gauge φ200 protection pipe 400 50土3 Tipping Bicket -Contact Point 20



Action Plans

- 1. Hazard evaluation of landslide
- 2. Design/implementation of landslide countermeasure
- 3. Proposal of early warning/evacuation
- 4. Proposal of revision of Planning Policy Guidance
- 5. Formulation of organizational reinforcement
- 6. Preparation of guideline/manual



Thank you for your attention





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