



UN  
DP

United Nations Development Programme

# **UNDP Mauritius Addressing Climate Change**

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**Climate Change Knowledge Fair**

**29 October 2012**

- 1. International framework for climate change**
- 2. Risks posed by climate change to development**
- 3. The role of UNDP**
- 4. UNDP Mauritius Country Programme 2013-2016**
- 5. UNDP environmental portfolio: addressing climate change in Mauritius**



## United Nations Framework Convention on Climate Change

UNFCCC: signed in 1992, ratified by Mauritius in 1992

**Objective:** international response to climate change, including mitigation and adaptation

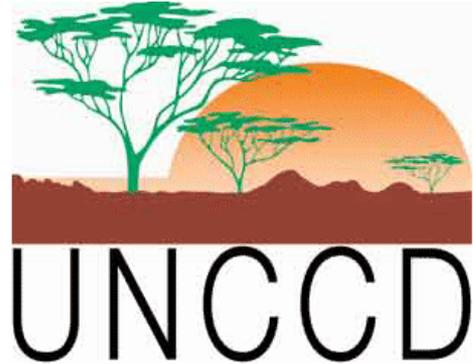
Kyoto Protocol: signed in 1997, ratified by Mauritius in 2001

**Objective:** the Kyoto Protocol legally binds developed countries to emission reduction targets



# International negotiations related to Climate Change

**CBD: 1992**  
Signed by Mauritius in 1992



**UNCCD: 1994**  
Signed by Mauritius in 1996

United Nations Convention to Combat Desertification

**MDGs: 2000**  
UN Millenium Declaration signed by Mauritius in 2000  
Target 7.A refers to Climate Change



**Rio+20: June 2012**  
20th anniversary of the United Nations Conference on Environment and Development  
10th anniversary of the 2002 World Summit on Sustainable Development

# Climate Change threatening Development

Millennium Development Goals	Climate Change Risks
 <p>1 ERADICATE EXTREME POVERTY AND HUNGER</p> <p>Eradicate extreme <b>poverty</b> and <b>hunger</b></p>	<p><b>Depleted livelihood assets</b>, reduced economic growth, and <b>undermined food security</b>.</p>
 <p>2 ACHIEVE UNIVERSAL PRIMARY EDUCATION</p> <p>Achieve universal primary <b>education</b></p>	<p><b>Reduced ability of children to participate in full-time education</b> by loss of infrastructure, livelihoods (forcing children to work), and displaced families.</p>
 <p>3 PROMOTE GENDER EQUALITY AND EMPOWER WOMEN</p> <p>Promote <b>gender equality</b> and empower women</p>	<p><b>Additional burdens on women's health</b> and time to participate in decision-making and income-generating activities.</p>
 <p>4 5 6 COMBAT HIV/AIDS, MALARIA AND OTHER DISEASES</p> <p>Reduce child mortality; Improve maternal <b>health</b>; Combat HIV/AIDS, malaria and other diseases</p>	<p><b>Greater prevalence of vector- and water-borne diseases</b>, heat-related mortality. Declining food security, maternal health and availability of potable water.</p>
 <p>7 ENSURE ENVIRONMENTAL SUSTAINABILITY</p> <p>Ensure environmental <b>sustainability</b></p>	<p><b>Negatively impacted natural resources</b> and productive ecosystems.</p>

Climate Change is a threat, especially in SIDS:

- to environment, biodiversity, landscapes
- to development and well-being



Examples of climate-related challenges in Mauritius:

- Degradation of coral reefs → impact on tourism → impact on livelihoods
- Sea-level rise and coastal erosion → impact on settlements and tourism → impact on livelihoods and safety
- Storm surges and flooding → impact on safety

# The Role of UNDP in Mauritius



- ❑ **Resource mobilization** by providing/facilitating access to funds
- ❑ Provision of technical support and strategic advice for the **design of projects**
- ❑ Provision of technical support for the **implementation of projects**
- ❑ **Project assurance**: quality control, oversight of projects based on donors guidelines
- ❑ Project Management support, **capacity building**
- ❑ Coordination with other UN Agencies to provide **specialized assistance**
- ❑ Monitoring to ensure that projects are in line with **Programme-Based Budgeting (PBB)** in the required programme years
- ❑ **Advocacy** support for enhanced integration of sustainability into national policies
- ❑ Dissemination of **lessons learnt and good practices** thanks to UNDP global network

## ❖ Pillar 1:



Planning and resource management for inclusive growth

## ❖ Pillar 2:

Social inclusion and empowerment



## ❖ Pillar 3:

Energy and environment



## Areas of focus

### ❑ Green, low-emission and climate-resilient policies

- Adaptation
- Mitigation
- Cross-sectoral: gender and human rights

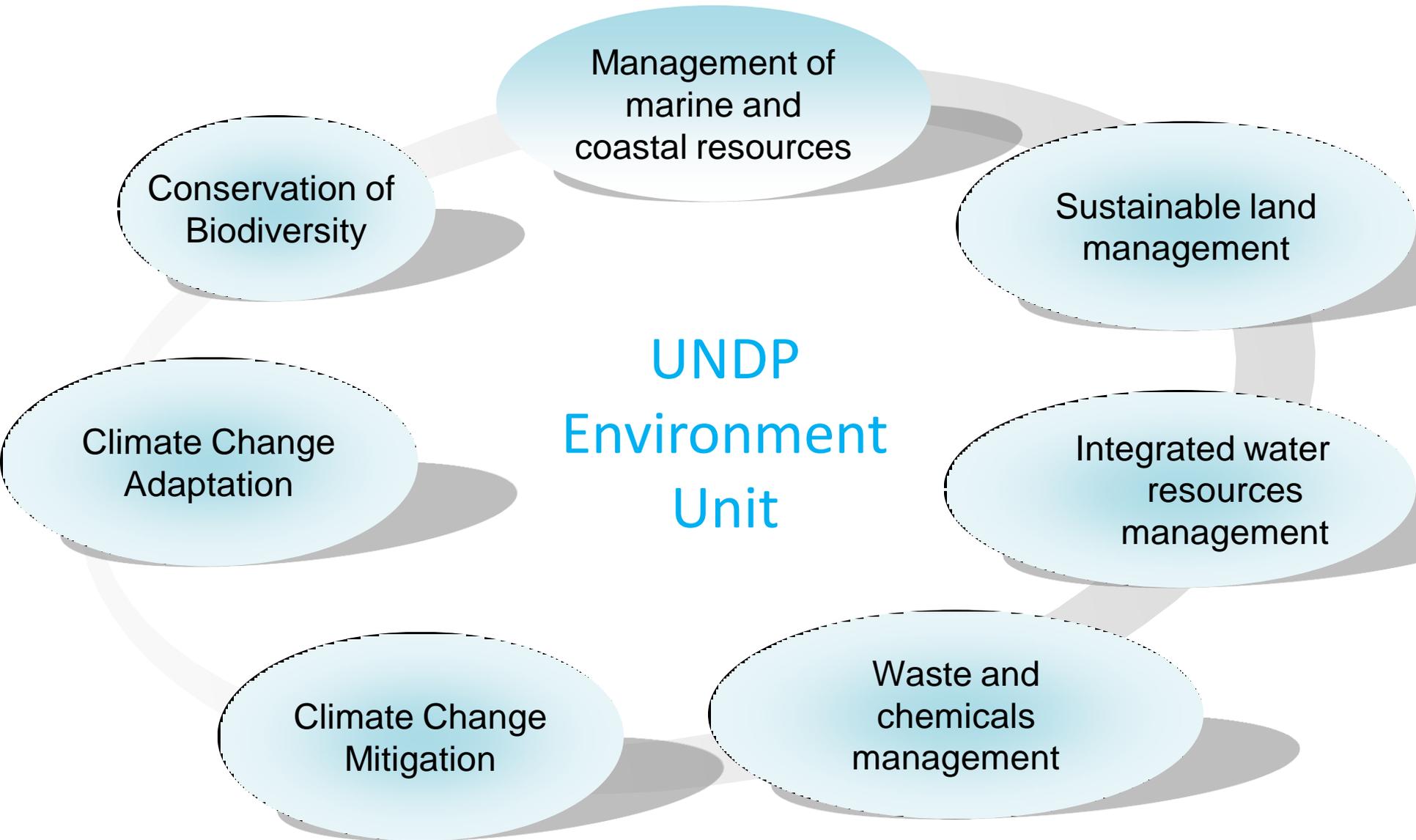
### ❑ Sustainable management of natural resources

- Small Island Developing State (SIDS)
- Sustainable Land Management, Coastal Management
- Marine and Terrestrial Protected Areas...

### ❑ Technical support for projects at institutional level

- Develop skills for designing and managing complex and technically demanding projects
- Monitor and evaluate implementation

# Key focal areas of Environment Unit



## Resources mobilization (2013-2016)

- Climate Funds (Adaptation Fund Board, Green Climate, SIDS Dock, JICA)
- Global Environment Facility (GEF)
- Leverage: Government Cost-Sharing

## Main partners

- Ministry of Finance and Economic Development – GEF Operational Focal Point
- Ministry of Environment and Sustainable Development – UNFCCC Focal Point
- Ministry of Energy and Public Utilities
- Ministry of Agro-Industry and Food Security – CBD Focal Point
- Ministry of Fisheries
- Ministry of Health and Quality of Life
- Rodrigues Regional Assembly...

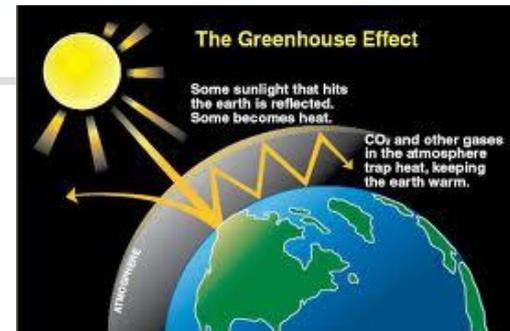
# UNDP Mauritius

## Energy and Environment Portfolio in relation to Climate Change



## Africa Adaptation Programme: Supporting Integrated and Comprehensive Approaches to Climate Change adaptation (2010-2012)

- ❑ **This project seeks** to integrate climate change adaptation into the institutional framework of the Republic of Mauritius (Focus on Agriculture, Coastal Zone, Fisheries, Tourism & Water)
- ❑ **Partner:** Ministry of Environment and Sustainable Development
- ❑ **Budget:** 3 M USD funded by the Government of Japan



## Adapting Coastal zone management in Mauritius to address the impact of Climate change (2012-2017)

- ❑ **This project seeks to** increase climate resilience for communities and livelihoods in coastal areas in the Republic of Mauritius
- ❑ **Partner:** Ministry of Environment and Sustainable Development
- ❑ **Budget:** 9M USD Adaptation Fund Board



## Removal of Barriers to Energy Efficiency and Energy Conservation in Buildings in Mauritius (2008-2012)

- ❑ **The project aims** at creating a functional market for energy efficiency in Mauritius through Policy and legislation, Capacity Building for the market and development of Energy Audit Management scheme
- ❑ **Partners:** Ministry of Energy and Public Utilities
- ❑ **Key results:** Energy Efficiency Act promulgated, Energy Auditors trained, Software developed
- ❑ **Budget:** GEF 0,9M USD



## Removal of Barriers to Solar PV Power Generation in Mauritius, Rodrigues and Outer Islands (2011-2014)



- ❑ **The project aims** at significantly accelerating the deployment of on-grid Solar photovoltaic in Mauritius, Rodrigues and Outer islands
- ❑ **Partner:** Ministry of Energy and Public Utilities
- ❑ **Budget:** GEF 2M USD

## Partnerships for Marine Protected Areas (MPA) in Mauritius and Rodrigues (2005-2011)

- ❑ **The long-term objective** of this project is the protection and management of marine biodiversity in the Republic of Mauritius
- ❑ **Partners:** Rodrigues Regional Assembly and Ministry of Fisheries
- ❑ **Key results:** South East Marine Protected Area established and regulations promulgated ; Blue Bay, BalACLava Management plans
- ❑ **Budget:** GEF 4,1 M USD / GoM 1,3 M USD



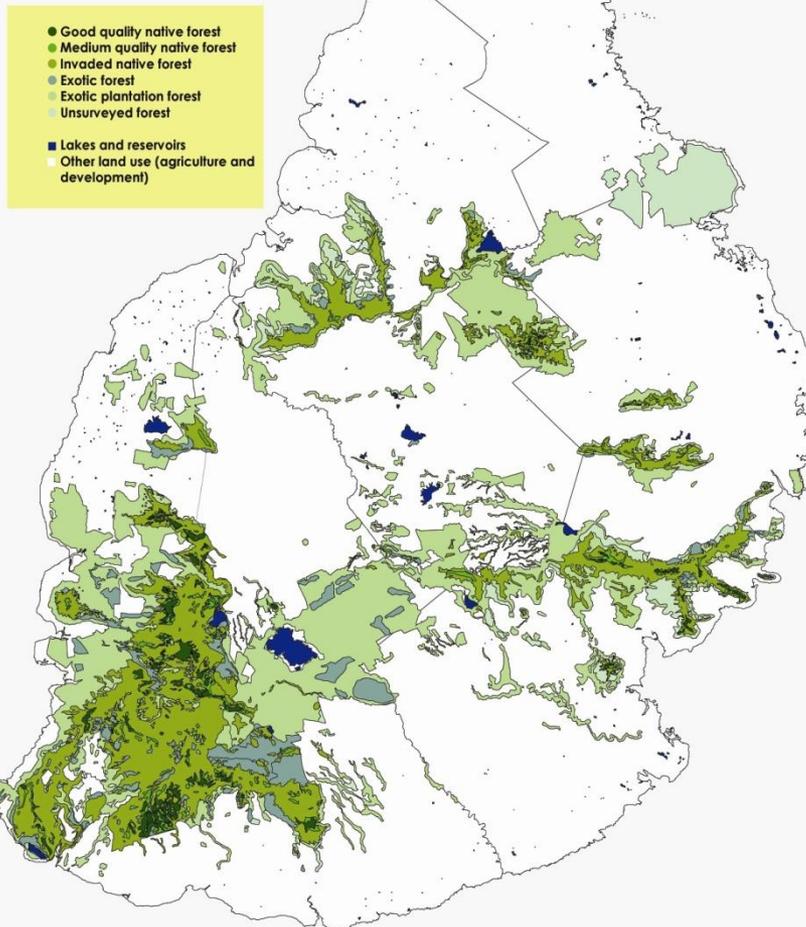
- ❑ **Link with Climate Change:** monitoring of coral reefs and fish populations is crucial to cope with Climate Change impact (adaptation)

## Expanding coverage and strengthening management effectiveness of the Protected Area Network on the island of Mauritius (2011-2015)

- ❑ **The long-term objective** of this project is the protection of terrestrial biodiversity in the Republic of Mauritius, through management effectiveness and expansion of Protected Areas Network
- ❑ **Partners:** Ministry of Agro-Industry and Food Security
- ❑ **Key result:** Removal of alien invasive species
- ❑ **Budget:** GEF 4 M USD
  
- ❑ **Link with Climate Change:**  
properly managed ecosystems  
are more resilient to change  
(adaptation)



Forest quality in 1995  
from: Page & d'Argent (1997)



## Sustainable Land Management (2006-2012)

- ❑ **The objective of the project** is that land management in Mauritius and Rodrigues is sustainable and that ecosystem productivity and ecological functions are preserved
- ❑ **Key results:** Forest Policy, Forest Land Information System, SLM investment Plan and Training for Forest Fires
- ❑ **Partner:** Ministry of Agro Industry and Food Security (Forestry Services)
- ❑ **Budget:** GEF 0.5 M USD
- ❑ **Link with Climate Change:** forests absorb CO<sub>2</sub>, soil erosion has to be monitored (mitigation and adaptation)

## Sustainable Management of Persistent Organic Pollutants (POPs) (2008-2012)

- ❑ **The overall objective** of the project is to provide assistance to Mauritius in the management of obsolete POPs chemicals and sites decontamination
  - ❑ **Partner:** Ministry of Environment and Sustainable Development
  - ❑ **Key result:** POPs to be disposed of, 3 sites to be decontaminated
  - ❑ **Budget:** GEF 0,9M USD
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- ❑ **Link with Climate Change:**  
Rise in temperature increases risks of POPs contamination and range of diffusion (adaptation)



## Strategic Approach to International Chemicals Management Initiative (2011-2012)

- ❑ **The project aims at** developing and strengthening national chemical management institutions and identifying the capacity needs
- ❑ **Partner:** Ministry of Health and Quality of Life
- ❑ **Budget:** UNEP SAICM Quickstart Trust Fund 0,2 USD



- ❑ **Link with Climate Change:** Some chemicals disrupt the resilience capacities of living organism (adaptation)

## Agulhas and Somali Current Large Marine Ecosystem Project (2008-2013)

- ❑ **The project seeks to** establish regional institutional cooperation for the sustainable management of the Large Marine Ecosystems
- ❑ **Partner:** Mauritius Oceanography Institute
- ❑ **Budget:** GEF 12.2 M
  
- ❑ **Link with Climate Change:** regional monitoring is key to assess global impact of CC on ecosystems (adaptation)

## Integrated Water Resource and Wastewater Management in Atlantic and Indian Ocean SIDS (2011-2015)

- ❑ **For Mauritius the project aims at** assisting the Water Resources Unit for the protection and sustainable utilization of the Northern Aquifer
- ❑ **Partner:** Ministry of Energy and Public Utilities
- ❑ **Budget:** GEF 9.7 M USD



- ❑ **Link with Climate Change:** CC increases water scarcity during drought periods (adaptation)

Lessons learnt  
Capitalization  
Experience Sharing  
Knowledge dissemination  
Awareness raising  
Best Practices

are crucial to  
globally address CC



## Knowledge Fair

→ UNDP contribution through global network



*Empowered lives.  
Resilient nations.*

**Thank you for your  
attention**