



**Republic of Mauritius**

**THIRD INTERNATIONAL CONFERENCE ON SMALL ISLAND DEVELOPING STATES**

# **National Report of the Republic of Mauritius**



UNDESA



## **Acknowledgements**

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## List of Abbreviations

<b>BPO</b>	Business Process Outsourcing
<b>BPoA</b>	Barbados Programme of Action
<b>CEB</b>	Central Electricity Board
<b>CERT</b>	Computer Emergency Response Team
<b>CFL</b>	Compact Fluorescent Lamp
<b>DAI</b>	Digital Access Index
<b>EE</b>	Energy Efficiency
<b>EEMO</b>	Energy Efficiency Management Office
<b>EEZ</b>	Exclusive Economic Zone
<b>ESD</b>	Education for Sustainable Development
<b>ESTP</b>	Economic and Social Transformation Plan
<b>FIT</b>	Feed In Tariff
<b>GEF</b>	Global Environment Facility
<b>ICT</b>	Information and Communication Technology
<b>IOC</b>	Indian Ocean Commission
<b>LED</b>	Light Emitting Diode
<b>LTES</b>	Long Term Energy Strategy
<b>MID</b>	Maurice Ile Durable (Mauritius Sustainable Island)
<b>MSI</b>	Mauritius Strategy for Implementation
<b>NDS</b>	National Development Strategy
<b>NTM</b>	Non-Tariff Measure
<b>PBB</b>	Programme Based Budget
<b>RE</b>	Renewable Energy
<b>S&amp;T</b>	Science and Technology
<b>SCP</b>	Sustainable Consumption and Production
<b>SDGs</b>	Sustainable Development Goals
<b>SIDS</b>	Small Island Developing States
<b>SIPP</b>	Small Independent Power Producers
<b>SSDGS</b>	Small Scale Distribution Generation System
<b>TNA</b>	Technology Needs Assessment
<b>UNDESA</b>	United Nations Department of Economic and Social Affairs
<b>UNDP</b>	United Nations Development Programme
<b>URA</b>	Utility Regulatory Authority

# The Republic of Mauritius

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The Republic of Mauritius comprises a group of islands in the South West Indian Ocean, consisting of the main island Mauritius and the outer islands of Rodrigues, Agalega, Saint Brandon, Tromelin and the Chagos Archipelago. The total land area of the Republic of Mauritius is 2040 km<sup>2</sup> and the country has jurisdiction over a large Exclusive Economic Zone of approximately 2.3 million km<sup>2</sup> with significant potential for the development of a modern and prosperous marine and fisheries-based sustainable industry. The population, estimated at 1.3 million, is composed of several ethnicities, mostly people of Indian, African, Chinese and European descent. Most Mauritians are multilingual and speak and write in English, French, Creole and several Asian languages.

The Republic of Mauritius is a democracy with a Government elected every five years. The 2012 Ibrahim Index of African Governance ranked Mauritius first in good governance. According to the 2012 Democracy Index compiled by the Economist Intelligence Unit and which measures the state of democracy in 167 countries, Mauritius ranks 18<sup>th</sup> worldwide.

Mauritius has a well-established welfare system. Free health care services and education to the population have contributed significantly to the economic and social advancement of the country. Support to inclusive development, gender equality and women empowerment are being addressed through the development of strategies, action plans and activities geared to meet the social targets set by the Government. To facilitate social integration and empowerment of vulnerable groups, a Ministry of Social Integration and Economic Empowerment has been set up in 2010.

Significant structural changes have been brought to ensure that Mauritius transforms itself from a sugar, manufacturing, tourism economy to a high-tech, innovative financial and business services hub. Policy and institutional reforms programmes have been articulated to enhance competitiveness; consolidate fiscal performance and improve public sector efficiency; improve the business climate and widen the circle of opportunity through participation, social inclusion and sustainability. The adoption of the “Maurice Ile Durable” framework and the Economic and Social Transformation Plan are the new development paradigm for the Republic of Mauritius as they strive to promote sustainable development and transform itself into a middle-income country.

# Section I: INTRODUCTION

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Sustainable development emphasises a holistic, equitable and far-sighted approach to decision-making at all levels. It rests on integration and a balanced consideration of social, economic and environmental goals and objectives in both public and private decision-making.

This concept of sustainability is very important in Small Island Developing States (SIDS) and this was first acknowledged at the Earth Summit in 1992. The vulnerabilities of SIDS arise from a number of physical, socio-economic and environmental factors. SIDS small size, limited resources, geographical dispersion and isolation from markets, place them at a disadvantage economically and prevent economies of scale. For instance, due to the small size of their economies, SIDS are highly dependent on trade but lack the factors that are decisive for competitiveness. Similarly, international macroeconomic shocks tend to have higher relative impacts on SIDS small economies. The combination of small size and remoteness leads to high production and trade costs, high levels of economic specialisation and exposure to commodity price volatility. Furthermore, in SIDS, the following natural resource base: energy, water, mineral and agricultural resources are limited and resource extraction tends quickly to meet the carrying capacities of the small islands. The latter also face unique threats related to global environmental issues, mainly climate change, biodiversity loss, waste management, pollution, freshwater scarcity, and acidification of the oceans.

As a SIDS, much progress has been achieved in Mauritius due to benefits derived from the Welfare State, namely: free access to education from pre-primary to university levels, transport to students and the elderly and health services to all and also from bilateral and multilateral trading agreements, the skilled work force, entrepreneurship, a stable democratic government and peace. However, despite its performance, the country is now facing the brunt of a number of global challenges, namely, the global economic, financial, energy and food security crises. The impacts of climate change, sea level rise, natural disasters and biodiversity loss are also having their toll on progress achieved so far.

## **Third International Conference on Small Island Developing States**

The 3<sup>rd</sup> International Conference on SIDS to be held from 1 - 4 September 2014 in Apia, Samoa, will seek a renewed political commitment to address the special needs and vulnerabilities of SIDS by focusing on practical and pragmatic actions. Building on assessments of the Barbados Programme of Action (BPoA) and the Mauritius Strategy for Implementation (MSI), the Conference will aim to identify new and emerging challenges and opportunities for sustainable development of those States, particularly through the strengthening of partnerships between small islands and the international community.

In addition, the Conference will provide an opportunity for the elaboration of sustainable development issues of concern to SIDS in the process of charting the Post-2015 Development Agenda, including the sustainable development goals. Towards this end, the Conference is intending to serve as a platform for the international community to strengthen existing partnerships and voluntary commitments, as well as act as a launch pad of new initiatives, all with the common objective of advancing the implementation of the BPoA/MSI.

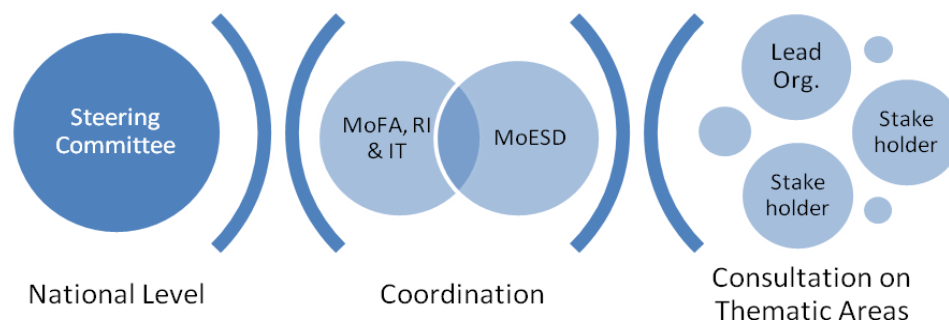
## National Preparatory Process

The effectiveness of the Samoa SIDS Conference will depend first and foremost on national level preparations that will feed into the regional, interregional and global processes. National preparations for the 3<sup>rd</sup> International SIDS Conference are currently underway. The preparatory process has begun with the preparation of a National Assessment Report. The results of the national consultations will in turn feed into the discussions at regional and inter-regional meetings, leading up to the conference itself.

### National Steering Committee

Broad based consultation, an inclusive approach and ownership are at the heart of the national preparatory process. To this effect, the Ministries of Environment & Sustainable Development and Foreign Affairs, Regional Integration and International Trade are jointly chairing a multi-stakeholder Steering Committee comprising Government, the private sector and civil society representatives<sup>1</sup>. The Committee is the platform for the 2014 SIDS meeting and mandated to among others to:

- a) Provide support and guidance for the preparation of the National Report;
- b) Provide guidance on any other matters and activities related to the conference until the Samoa Meeting in 2014; and
- c) Follow up on the 2014 Samoa outcome.



### The National Report – The Methodology for the consultative process

The national report is based on both the responses to the guiding questions<sup>1</sup> prepared by the United Nations to steer discussions at the national level and on a bottom-up, inclusive consultative process. This report needs to be read in conjunction with the following documents which provide detailed background information on the actions already undertaken by the Government of Mauritius to implement the BPoA and the MSI and the challenges thereof:

- State of the Environment Report prepared for 1992 UN Earth Summit;
- Report of the International meeting to review the Implementation of the Programme of Action for the sustainable Development of small Islands Developing States 1994;
- Mauritius Staking Out the Future - National Report for Mauritius International Meeting 2005;
- The Mauritius Strategy for Implementation National Assessment Report of 2010;
- Mauritius Environment Outlook Report 2011;
- National Synthesis report 2012 for the RIO+20 Conference
- Mauritius Report on the Post 2015 UN Development Agenda – The Future we want, and
- Maurice Ile Durable report, June 2013

<sup>1</sup> The list of the members of the National Steering Committee is at Annex 1

## **A. Summary of the consultations with the 18 thematic focus groups**

A series of consultations were undertaken with key stakeholders to ensure cross-sectoral participation and diversity of views. 18 thematic focus groups were set up on the MSI thematic areas. A lead Ministry was identified with regard to each of the 18 thematic themes of the BPoA and MSI:

- |                                      |  |
|--------------------------------------|--|
| 1. Climate Change & Sea Level Rise   | 12. Trade: Globalization & Trade Liberalization                              |
| 2. Natural & Environmental Disasters | 13. Sustainable Capacity Development & Education For Sustainable Development |
| 3. Management of Waste               | 14. Sustainable Production & Consumption                                     |
| 4. Coastal & Marine Resources        | 15. National & Regional Enabling Environments                                |
| 5. Freshwater Resources              | 16. Health   |
| 6. Land Resources                    | 17. Knowledge Management & Information For Decision-Making                   |
| 7. Energy Resources                  | 18. Culture  |
| 8. Tourism Resources                 |  |
| 9. Biodiversity Resources            |  |
| 10. Transport & Communication        |  |
| 11. Science & Technology             |  |

Each focus thematic group was composed of relevant stakeholders from both public and private sector and most of these groups met on at least two occasions<sup>2</sup>. Each group considered the 8 guiding questions and responded accordingly. The main recommendations from the group reports are given under the relevant sections II, III, IV and V of this report.

## **B. National Consultative Workshops**

Three national workshops were held. The first national workshop<sup>3</sup> was held on 21 May 2013 and saw the participation of representatives from various sub-sections of society such as the youth, women, NGOs, civil society, trade unionists and local authorities. A second workshop<sup>4</sup> was held on 11 June 2013 in Rodrigues to ensure that the specific concerns of that particular territory of Mauritius were fed into the process. The Mauritius Private sector was also briefed on the process and their views were sought on 11 June 2013. Finally, a national validation workshop<sup>5</sup> was held to present the report, and to seek its endorsement from the representatives of all stakeholders who participated in the focus group meetings and consultations.

### **1) Summary of the National Dialogue with Major Groups**

- ⊕ Need for better adapted education, employment and a better quality of life, including through the promotion of family values, protection of traditions and cultures;
- ⊕ Need for increased transparency, equity, security and good governance and in this respect better enforcement of laws and regulations at national level;
- ⊕ Need for more education/information on sustainable development since some of the participants had limited knowledge of the existence and implementation of Agenda 21, BPoA, MSI, MDGs and the Post 2015 UN Development Agenda process;
- ⊕ Need for more information on climate change, Disaster Risk Reduction and its impacts cross-sectorally;
- ⊕ Concern over unpredictable changes in weather conditions and its consequences and the need for mitigative measures to be taken as well as contingency plans to be prepared;

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<sup>2</sup> Please see annex 2 for consolidated paper on the themes identified in the Mauritius Strategy.

<sup>3</sup> Please see annex 3 for agenda and list of participants

<sup>4</sup> Please see annex 4 for agenda and list of participants

<sup>5</sup> Please see annex 5 for agenda and list of participants



- ⊕ Concern over waste management, protection of water resources, and the lack of proper urbanisation controls;
- ⊕ Concern with regard to the ageing population and the economic and social effects thereof;
- ⊕ Concern over the lack of recognition of the important role NGOs play in society and their lack of human and financial support

## **2) Summary of consultations held in Rodrigues**

- ⊕ Water Resources Management remains their main priority. Water harnessing, storage and distribution is the main island challenge;
- ⊕ Optimal use of land through judicious planning and zoning is considered essential for sustainable development. Incompatible development has been responsible for severe erosion and coastal siltation and conflictual co-habitation;
- ⊕ A management strategy and action plan for optimal protection of coastal areas from sea level rise, erosion, inundation etc. (Rodrigues was severely impacted by Tsunami in 2004) and exploitation of marine resources should be prepared and implemented;
- ⊕ Energy is produced from imported fossil fuel which is expensive and there are concerns over the regularity of supply during cyclonic seasons. There is a need to develop optimally renewable energy from wind and sun. They need affordable resources and technology;
- ⊕ Waste characterisation has shown new challenges as there an increasing amount of E-waste (batteries, aluminium cans, bottles and plastic waste) entering the waste stream. Lack of capacity and scale of economies are not conducive to recycling and therefore poses serious problem of disposal; and
- ⊕ The meeting also recognised and recommended that the concept of Education for Sustainable Development should be further strengthened in the formal education curriculum from primary to tertiary levels. Other issues discussed were in relation to the creation of employment, transparency in decision making and governance, security, enhancing equity for all and new and additional funding to attend to the above.

## **3) Summary of the dialogue with the Private Sector**

- ⊕ The private sector renewed its commitment to partner with the Government of Mauritius in its initiatives to meet the challenges of implementing the BPOA and MSI;
- ⊕ The Private sector remains concerned over the poor coordination at the national/regional levels with regard to a holistic implementation of the BPOA and MSI;
- ⊕ The private sector is keen to work towards sustainable consumption and production as long as this does not negatively impact the competitiveness of Mauritian products which already suffer from diseconomies of scale;
- ⊕ In this respect, in order to avoid duplicative processes, the private sector would like the national consultative process to include the ideas/views already expressed/submitted through their participation in the 6 working groups working on finalising the national action plan to implement the MID initiative over the long term;
- ⊕ The private sector has begun work on an energy efficiency initiative whereby it is working to seek energy conservation in production;
- ⊕ The private sector has also embarked on a project to map the carbon footprint of the main industries with a view to reviewing and reducing same.
- ⊕ The other issues raised were: protection and coastal and marine resources, especially in relation to the fisheries and aquaculture sectors and the need for SIDS to be provided with special trade preferences in order to increase their competitiveness given their remote geographical location from major exporting markets.

#### **4) Summary of issues raised during the National validation Workshop**

During the National Validation workshop, six sub-groups were set up to reflect on the six chosen themes and their recommendations were as follows:

##### **A. Climate Change Group**

Adaptation would be focused on the following three sectors: health sector; coastal zone sector and infrastructure, in this respect, there would be a need to prepare national plan of action for implementation.

##### **B. Ocean Economy & Development of a land based Oceanic Industry**

- *Objective:* To reduce use and reliance on fossil fuel
- *Way and means:* Exploitation of deep sea water for cooling systems, generation of power etc.
- *Benefit:* Provides sustainably; Integrates MDG principle; Fits in national MID policies
- *Needed:* Funding and transfer of technologies

##### **C. Energy:**

Focus should be on having technical and financial assistance with regard to energy auditing, energy efficiency and energy management.

##### **D. Waste Management:**

To promote and enhance waste segregation at source for eventual recycling and re-use

##### **E. Food Security:**

Make Agriculture more resilient; Involve vulnerable groups in the production chain; provide support to small planters to adapt to new technologies; prime arable land should be protected and used only for agricultural purposes; SIDS to benefit from an Insurance Scheme operated internationally to cater for food shortages resulting from natural disasters.

##### **F. Culture:**

Enhancement of cultural Values through education and adoption of the Gross National Happiness Index

## Section II:

# PROGRESS IN BPOA & MSI IMPLEMENTATION

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The sustainable development agenda of small islands states like Mauritius has been largely shaped by the BPOA and MSI. Since its adoption in 1994, the BPOA has been to a great extent implemented in Mauritius. As regards the MSI, since 2005, Mauritius has been very committed in implementing this strategy at the domestic level as well as in advocating SIDS issues at regional, multilateral and international levels. Overall, there has been substantial progress in areas such as biodiversity protection and the establishment of terrestrial, coastal and marine protected areas. Political commitment to advance sustainable development has also been observed with the adoption of the new long term vision “Maurice Ile Durable”.

### National Sustainable Development Frameworks

Mauritius embraced sustainable development as the guiding paradigm to promote national development in the early 90s, with the adoption of the Integrated Management Approach to Sustainable Environmental Management under the in the Environment Protection Act of 1991. With environmental protection at its heart, this approach also had cross-cutting bearings across a range of sectoral concerns, development patterns and in decision making. It promoted broad-based administrative and consultative mechanisms and ensure that all stakeholders were party to decision-making in a structured manner.

In 1997, “Vision 2020: The National Long- Term Perspective Study” was adopted as the core development strategy to promote sustainable development in the country. The Vision 2020 set out the scenario for promoting development based on gains in agricultural efficiency, tourism, industrial production and development of financial and value-added services. As a result, the sugar and textile sectors were restructured; an offshore financial sector was established; the telecommunications system was strengthened and liberalised; new incentive schemes were offered to IT and pioneer firms; a Cyber Park was established, state secondary school capacity was doubled; port facilities were modernised, and a Freeport was established, among others.

In the face of looming global challenges like the triple economic-food-energy crises, in 2008 Government adopted “Maurice Ile Durable” as the new sustainable vision to guide national development. Maurice Ile Durable (MID) can be considered as the ***ground breaking, unique, innovative milestone project leading to a reinforced integrated, participatory approach to sustainable development and which seeks to include each and every citizen of Mauritius.*** The MID Policy, Strategy and Action Plan has been developed in a broad-based participatory approach and focuses on 5 sectors, commonly referred to as the 5 Es: Energy; Environment; Employment and Economy; Education; and Equity. The MID goals are as follows:

**Energy** sector is to ensure that the Republic of Mauritius is an efficient user of energy, with its economy decoupled from fossil fuel. The main targets are to achieve the national target of 35% renewable energy by 2025; and reduce energy consumption in non-residential and public sector buildings by 10% by 2020.

**Environment** sector is to ensure sound environmental management and sustainability of our ecosystem services. Goals are to meet the environmental sustainability targets of the Millennium Development Goals; and reduce the ecological footprint to be in the upper quartile of performance of similar income nations, by 2020.

**Employment/Economy** sector is to green the economy with decent jobs, offering long term career prospects. The targets are to increase the percentage of green jobs, from 6.3% in 2010, to 10% by 2020 and maintain or improve position in the World Economic Forum’s International Competitiveness Index.

**Education** sector is to have an education system that promotes the holistic development of all citizens. The goals are to achieve 100% MID literacy by 2020 and be an internationally recognised knowledge hub for sustainable development in the region by 2020.

**Equity** is to ensure that all citizens are able to contribute to the Republic’s continuing growth and share its combined wealth. Specific goals are to improve the position of the Republic of Mauritius in the World Poverty Index and improve current status in the Gini coefficient of income inequality.

## Policies and Strategies:

The policy framework of Mauritius is anchored in the concept of sustainable development and incorporates the relevant recommendations of the major international conferences, since the 1992 Rio Earth Summit. In this context, various sectoral policies and strategies have been developed and are being implemented across various thematic areas such as: energy, coastal zone management, land, biodiversity, forests, wastewater, solid waste, and tourism among others. To report on progress achieved in BPoA and MSI implementation, the following cluster has been used:

ENVIRONMENT	EDUCATION	TRADE AND ECONOMY	HEALTH	TRANSPORT & COMMUNICATION
<ul style="list-style-type: none"> <li>✓ Climate change and sea level rise</li> <li>✓ Natural &amp; environmental disasters</li> <li>✓ Management of wastes</li> <li>✓ Coastal &amp; marine resources</li> <li>✓ Freshwater resources</li> <li>✓ Land resources</li> <li>✓ Biodiversity resources</li> <li>✓ Sustainable production &amp; consumption</li> </ul>	<ul style="list-style-type: none"> <li>✓ Sustainable capacity development &amp; education for sustainable development</li> <li>✓ Science &amp; technology</li> <li>✓ Knowledge management &amp; information for decision-making</li> <li>✓ Culture</li> </ul>	<ul style="list-style-type: none"> <li>✓ Energy resources</li> <li>✓ Tourism resources</li> <li>✓ Trade: globalization &amp; trade liberalization</li> <li>✓ National &amp; regional enabling environments</li> </ul>	<ul style="list-style-type: none"> <li>✓ Health</li> </ul>	<ul style="list-style-type: none"> <li>✓ Transportation &amp; communication</li> </ul>

### 1) Climate Change

Fully aware of the possible impacts of climate change on its economy, citizens and their livelihoods, Government of the Republic of Mauritius has made climate change adaptation and mitigation a national priority. This is reflected in the Maurice Ile Durable programme as well as the Government Programme 2010-2015. In this endeavour, Government has adopted a multi-pronged approach to address impacts of climate change and enhance the resilience of Mauritius. To that effect, a climate

change mitigation and adaptation framework has been developed. Several priority sectors like disaster risk reduction and management, renewable energy, water, coastal zones, fisheries, tourism, public infrastructure, health and agriculture have been targeted and actions are being taken at different levels ranging from policy and legislative review, application of long term dynamic tools, institutional strengthening, infrastructural works, promotion of research and development, awareness raising, education and training. A Technology Needs Assessment (TNA) has also been undertaken to define a set of clean technologies which are best suited for an enhanced climate change mitigation and adaptation approach. The outcome of this study will help mobilise international funding.

## **2) Disaster Risks Reduction and Management**

In order to make the country resilient to the impacts of extreme events and climate change, a Disaster Risk Reduction and Management project was undertaken. Climate risk analysis, comprising comprehensive climate modelling studies has been conducted for inland flooding, landslides and coastal inundation. National Risk Profiles (Risks and Hazards Maps), Strategy Framework and Action Plan for disaster risk management have been developed under this project. These will contribute to designing robust disaster risk policies, management practices and enhance the country's preparedness in the face of disasters.

## **3) Management of Waste**

A Solid Waste Management Strategy (2011 - 2015) was adopted in 2011 with the overall policy objective of reducing, reusing and recycling waste. Moreover, a number of actions are being taken to reduce the volume of wastes in Mauritius. For example, of the 420,000 tons of wastes being generated annually, about 63,000 tons are composted at the newly established composting plant. It is expected that by 2014, the capacity of the composting plant would be doubled, thus implying that a total amount of 126,000 tons of waste would be diverted from the landfill annually. Government has also embarked on a range of projects since the mid-term review to assess Mauritius Strategy Implementation. These include: Recycling of e-wastes from Government bodies; drafting of a regulation for the registration of recyclers; feasibility Study for the setting up and operation of recycling facilities for used tyres and Compact Fluorescent lamps and feasibility on Anaerobic Digestion for selected wastes such as: food, market and farming waste

## **4) Coastal and Marine Resources**

The regulation of large scale development in the coastal zone is undertaken through the Environment Impact Assessment/Preliminary Environment Report mechanism as well as the Building and Land Use Permit requirements, which take into consideration the provisions of the Planning Policy Guidelines, Outline Schemes on setbacks, plot coverage and development density of coastal development. An Integrated Coastal Zone Management Framework for the Republic of Mauritius was adopted in 2010 and is presently under implementation to ensure effective management of the coastal zone. Coastal protection works, beach re-profiling and other restoration works are being taken to abate the impacts of erosion. Coral reef ecosystem monitoring and lagoonal water quality monitoring are undertaken at various sites across the island.

During the past 20 years, Mauritius has progressively established a system of marine protected areas to include fishing reserves, marine parks and marine reserves in the waters around Mauritius and Rodrigues. This has been done with a view to manage, conserve marine resources, ecosystems, natural habitats and species biodiversity and to enhance fish productivity. The Republic of Mauritius has, so far, proclaimed six Fishing Reserves and two Marine Parks in Mauritius and four marine reserves, one Marine Park and three fisheries reserved areas in Rodrigues. A National Plan of Action to prevent, deter and eliminate Illegal, Unregulated and Unreported, Fishing for Mauritius

is being implemented. An Aquaculture Master Plan was prepared to develop marine and inland aquaculture.

### **5) *Freshwater resources***

A Master Plan for “*Development of the Water Resources in Mauritius*” was prepared in 2012 with ultimate objective to satisfy the water demand in the different supply zones for the various sectors of the economy by ensuring continuous supply over the island even during the dry season. According to the Master Plan, the main challenges of the water sector are to identify additional water resources mobilisation options; review the existing legislative framework governing the water resources sector; assess the existing water rights system and present proposals for its rationalisation; and review the institutional set-up governing the water resources sector. In addition to the above, the key long-term national development goals for the water sector comprise of mobilisation of additional water resources through rehabilitation of existing dams and water infrastructures, water management through the use of treated wastewater for irrigation purposes, public water conservation campaigns and reduction of non-revenue water.

### **6) *Land resources***

In the Republic of Mauritius, the National Development Strategy (NDS) provides the basis for land use planning. The policies and proposals of the NDS have been successfully translated at the local level through the preparation and approval of local development plans for both Urban and rural areas. A series of Planning Policy Guidance have been prepared to assist developers, local bodies and the general public in complying with principles of good design, appropriate siting and location of activities.

### **7) *Biodiversity resources***

To ensure that biodiversity is managed in a sustainable manner, a number of strategies are under implementation. These include the National Biodiversity Strategy and Action Plan (2006 – 2015), National Invasive Alien Species Strategy and Action Plan (2010 – 2019), National Forest Policy 2006, and the Islet National Park Strategic Plan (2004) for 16 offshore islets and a management plan for the shallow water demersal fish species of the Saya de Malha and the Nazareth banks.

Furthermore, in line with its international commitments, Mauritius ratified the Nagoya Protocol in 2013. Mauritius has also been working in close collaboration with the international community and has received funding and technical assistance in the preparation of policy and projects such as National Forest Policy, Sustainable Land Management Project, Forest Land Information System and ongoing NAP alignment as well as preparation of the Management Plans for the inland nature reserves. Moreover, Government is also implementing the Protected Areas Network project to manage the protected areas in collaboration with the private land owners.

To tackle food security, the following plans are also being implemented: Multiannual Adaptation Strategy – Sugar sector Action plan (2006 – 2015); Food Security Plan (2008 – 2013); Blueprint for a diversified Agri-Food Strategy for Mauritius (2008 – 2015) and the Mauritius Food Security Fund Strategic Plan (2013 – 2015). The Plant Genetic Resources Unit at the Agricultural Services of the Ministry of Agro-Industry and Food Security is also conserving plant genetic resources through in situ and ex situ agro-biodiversity collections. A food security Fund of USD 33 million has been set up.

### **8) *Sustainable consumption and production***

Mauritius was the first country in Africa to develop its National Programme on Sustainable Consumption and Production (SCP), under the guidance of UNEP to implement the 10-Year

Framework of Programmes of the Marrakech Process. Adopted in 2008, the National Programme on SCP aspires to decouple economic growth from use of natural resources, bring a change in consumption patterns, promote technological shifts and encourage the adoption of more sustainable lifestyles.

The national programme focuses on 5 priority areas, namely: Resource efficiency in energy, water and sustainable buildings and constructions; Education and communication for sustainable lifestyles; Waste management; Sustainable public procurement, and Market opportunities for sustainable products. To date, 13 projects have successfully been implemented and include among others the development of Minimum Energy Performance Standards for key household appliances, capacity building of Energy Audit providers, Green Building Rating system with Integrated Guidelines to promote sustainable buildings and an Action plan for Green Public Procurement.

### ***9) Sustainable capacity development & education for sustainable development***

A range of programmes being offered for teachers at various levels including Special education needs, remedial education, entrepreneurship education. Measures are being taken to ensure equal opportunity, gender equity and provision of appropriate education to bring about appropriate behavioural change among learners (e.g. through ESD related projects). Ongoing capacity building sessions focus on a range of ESD related themes such as HIV and AIDS, Climate change, Disaster Risk reduction and on Education, Communication and Sustainable Lifestyles. At tertiary level, Sustainable Development is being mainstreamed in a range of undergraduate and post graduate programmes.

### ***10) Science & Technology***

Science and Technology (S&T) has been mainstreamed in all sectors of the economy. In the Education sector, ICT facilities have been improved in all schools. Government has set up a Ministry, namely the Ministry of Tertiary Education, Science Research and Technology, which has taken a number of initiatives to boost Research in Science and Technology. However, broad-band speed needs to be increased with installation of fibre optics.

Mobile telephony and access to Internet facilities have grown exponentially and has facilitated communication to the world. The Digital Access Index (DAI) for Mauritius was 0.5 in 2011 as compared to Sweden, the leader, which was 0.85. The percentage subscription to Mobile cellular has increased from 14% in 2000 to 92% in 2010. Usage of technology in the Mauritian households as well as offices has also improved in line with international trends. To ensure proper implementation of priority areas of the country, better collaboration between research institutions and public bodies, the Government of the Republic of Mauritius has set up five National Research Groups to address priority issues.

### ***11) Knowledge management & information for decision-making***

Government is implementing the National ICT Strategic Plan 2011 - 2014 in order to make the ICT/BPO Sector as one of the main pillars of the economy and develop Mauritius into a Knowledge Hub. In this context, an ICT Skills Development Programme and the ICT Academy are being implemented. Furthermore, coordinated efforts towards Cyber Security threats and incidents are being undertaken and these include: strengthening Mauritian Computer Emergency Response team (CERT); cross border collaboration of issues pertaining to Cyber Security; strengthening and harmonization of Cyber Security Legislations and establishing Regional CERTS.

### ***12) Culture***

Mauritius being a multi cultural society, legislations have been enacted to give equal treatment for the preservation and promotion of all cultures and languages of the Mauritian Society. Financial assistance is also provided for the development of the Creative Industries by way of Grants to artists, creators and performers. International exposure is given to them through their participation in events of worldwide repute. Assistance is also provided for the local production of cultural goods. In order to protect author's rights and intellectual property, the Mauritius Society of Authors was set up in 1986.

### ***13) Energy Resources***

A long term energy strategy for the period 2009-2025 and an Energy Strategy (Action Plan) 2011 - 2025 have been adopted by Government. The strategy involves a series of action that pertains to increasing the share of renewable in the energy mix (35% by 2025), energy conservation and energy efficiency. Recently, an Integrated Electricity Plan 2013-2022 has been prepared to address the energy challenges of Mauritius and aiming to create a sufficiently broad energy portfolio that will safeguard the country against energy security concerns and price instability while being sensitive to environmental imperatives.

To allow for the implementation of the Long Term Energy Strategy, an Energy Efficiency Act was promulgated in 2011. This Act paved the way for the setting up a dedicated institution, the Energy Efficiency Management Office (EEMO), for promoting energy efficiency in all economic sectors of the country. Government is also encouraging innovation by households as well as businesses to produce electricity using renewable energy technologies. Small Independent Power Producers (SIPPs) can now produce and use electricity from photovoltaic, micro-hydro and wind turbines through systems not exceeding 50 kW and export the extra electricity to the grid.

### ***14) Tourism resources***

Mauritius is predominantly a beach holiday destination and it relies to a large extent on its coastal resources. Both the Tourism Development Plan (2002) and the Tourism Sector Strategy Plan (2009-2015) recommended the introduction of Blue Flag Programme in Mauritius. The Government of Mauritius has embarked on a Blue Flag Programme with the objectives to promote inter-alia the sustainable use of the coastal resources and sound national policies on lagoon water quality, reefs, protection of the beaches and safety. Spatial planning of the lagoons has also become of prime importance, which has prompted the need for the preparation of a master plan for the zoning and sustainable management of the lagoon. To move towards the "greening" of the tourism industry, the Government of Mauritius is in the process of introducing an eco label scheme for the environmental and sustainability of the sector.

**The following is a list of some of the Projects / Programmes implemented. This non-exhaustive list is from the feedback received from the 18 thematic groups:**

- ⊕ National Biodiversity Strategy & Action Plan 2006-2015
- ⊕ Invasive alien species strategic Action Plan 2010 - 2019
- ⊕ National Forest Policy was formulated and approved by Government in 2006;
- ⊕ Forest Land Information System was set up in 2010;
- ⊕ Formulation and implantation of a National Forestry Action Programme is in progress;
- ⊕ Sustainable Land Management is already integrated in the National Forest Policy;
- ⊕ A national water policy is being finalised at Ministry of Energy and Public Utilities;
- ⊕ Interim Hazardous Waste Storage Facility at La Chaumière, which is expected to come into operation by 2015;



- ⊕ From the 420,000 tons of wastes being generated annually, about 63,000 tons p.a. is effectively diverted (taking into account rejects from composting) from land-filling and sent to the composting plant at La Chaumière;
- ⊕ The National Development Strategy (NDS) provides the basis for land use planning. It was approved in 2003 and subsequently given legal force through proclamation of section (12) of the Planning and Development Act in 2005;
- ⊕ Mauritius has made significant progress over the past years to implement its renewable energy and energy efficiency policy and strategy as enshrined in the Long Term Energy Strategy (2009-2025) as hereunder:
  - The Energy Efficiency Act has been enacted in 2011;
  - The Utility Regulatory Authority (URA) Act 2004 has been proclaimed.
  - The Energy Efficiency Management Office is operational since December 2011;
  - The “Observatoire de l’Energie” has been set up in 2011 and provides a national database on energy usage.
  - A certification system for energy auditors and energy managers is being developed;
  - Design Guide for Energy Efficient Buildings less than 500 m<sup>2</sup> have been developed;
  - Energy Efficiency Building Code has been developed for buildings with a surface area of more than 500 m<sup>2</sup>;
  - A report on Energy Audit Management Scheme for non-residential Buildings has been prepared;
  - A project for the setting up of a “Framework for Energy Efficiency and Energy Conservation in Industries” has been implemented;
  - Mandatory energy audits to be carried out by large consumers of electricity;
  - Small scale distributed generation has been allowed into CEB’s grid since 2011. Capacity of SSDGs under the FIT has been increased to 3 MW (incl. 100 kW for Rodrigues);
  - A Renewable Energy Development Plan is being finalized;
  - Grid-connected photovoltaic plants of a total capacity of 25 MW is being set up;
  - 50,000 street lights are being replaced by low energy bulbs in urban and rural areas;
  - Traffic lights have been replaced by LED;
  - A wind farm of 29.4 MW at Plaines Sophie is expected to be operational in 2014;
  - A Landfill Gas to Energy Plant started operation in 2011 and electricity (2 – 3 MW) is generated;
  - A policy and guidelines on sustainable buildings and a building rating system have been developed;
  - Rs 150 M are provided in 2012 and 2013 as subsidy for the purchase of solar water heaters;
  - A comprehensive national energy savings programme will be implemented by the EEMO to raise public awareness on energy efficiency and to solicit their collaboration in the national endeavour to make the country energy efficient;

## Section III:

# GAPS AND CONSTRAINTS ENCOUNTERED IN BPoA/MSI IMPLEMENTATION

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Despite the tremendous efforts showcased above, national consultations have revealed the following constraints/challenges in implementation:

### 1) Local level

#### ⊕ *Coordination and monitoring*

There is a need for enhanced coordination at local level to assess and monitor national progress on the implementation of the BPoA and MSI issues and also the need to streamline these issues in the Programme Based Budgeting of the concerned Ministry. There is also a need for the implementation process to be coherent with the Economic and Social Transformation Plan (ESTP) process.

#### ⊕ *Motivation for Sustainable Development Initiatives(SDI)*

Efforts to implement SDI have had mixed results. There is need for better understanding of the SDI at all levels and to sustain SDI initiatives including a better mechanism to implement same.

#### ⊕ *Accessing financial resources*

The limited access to financial and technical resources has limited Mauritius in its ability to mobilise the necessary funding and technical expertise to fully implement the BPoA and MSI. External support is required but the difficult global economic situation has impacted on the capacity of SIDS like Mauritius to access financing. Most middle-income SIDS do not have access to appropriate preferential treatment, concessionary financing, sufficient Official Development Assistance flows and other special programmes owing to the lack of formal recognition of SIDS and criteria that do not recognise their unique vulnerabilities. Mauritius therefore remains dependent on expensive financing from the international financial institutions, and thus further increasing its vulnerability.

#### ⊕ *Research and Development technologies*

Further research and development both at the national and regional levels is required to promote sustainable development. Transfer of green technology to alleviate dependence on non-renewable energy is limited and there is much need for up scaling investment in R&D.

### 2) Regional level

#### ⊕ *regional coordinating mechanism/organisation*

The AIMS region to which Mauritius belongs is too dispersed, has no assigned coordinating mechanism. AIMS region has no mechanism to mobilise resources and monitor the implementation of BPoA and MSI.

### 3) International level

Both the BPoA and the MSI include a wide range of international support measures to support national level action to address the vulnerability and development needs of SIDS. Beyond these, there are several instruments, conventions, agreements and strategies that also tackle challenges directly related to SIDS vulnerabilities SIDS, including the Convention on Biological Diversity, the Hyogo Framework for Action on disaster risk reduction and the United Nations Framework Convention on Climate Change. But there still remains an urgent need for scaled-up international measures, in some instances, substantially.

- ⊕ Climate change remains the greatest challenge, as adverse impacts continue to undermine progress towards development. International actions, particularly by developed countries to stabilise greenhouse gas concentrations in the atmosphere at a level that would ensure the survival of SIDS, remain insufficient.
- ⊕ International support for adaptation strategies has not been adequately forthcoming to enable SIDS increase their resilience to the negative impacts from climate change. In this respect, international support is needed to ensure sustainable financing initiatives such as green-growth policies and climate change adaptation programmes.
- ⊕ The economies of SIDS remain highly volatile notably due to their openness and smallness and high dependency on imports with high vulnerability to energy and food price shocks. These combined vulnerabilities have been further exacerbated by the global energy, financial and economic crises.
- ⊕ No SIDS dedicated and effective response measures, such as financing and technology transfer mechanisms, have been established. In this respect, provision and access to affordable and SIDS-adapted technology and financing would catalyse the greening of SIDS economies.
- ⊕ The international trading system needs to be crafted to address the special and particular needs of SIDS in a more pragmatic manner.
- ⊕ Access to multilateral financing is difficult owing to eligibility criteria that do not take into account small populations and small size of projects coupled with burdensome application and monitoring requirements.
- ⊕ Resources from the international community often do not reflect national priorities and needs and are frequently not directed to the implementation of concrete projects at the national level.

## Section IV:

# NEW AND EMERGING CHALLENGES

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In addition to the existing challenges facing SIDS as identified in the BPoA, the MSI and in previous national reports, the following challenges also bear heavily on the socio-economic and sustainable development of SIDS, especially in the AIMS region.

### 1) Water Resources Management

Water plays a critical role in supporting economic development, public health and environmental protection. The sector is closely tied to others such as tourism, waste (wastewater pollution), energy (distribution, hydropower and supplies for cooling) and fisheries (reflected by the health of inland and coastal fisheries, a direct result of water quality).

For SIDS, being able to meet the growing demands for access to clean potable water is one of the greatest challenges faced by this sector. Climate change poses a significant challenge to the management of water resources in SIDS. The islands' dependency on rainfall leaves them vulnerable to both long-term and short-term changes in rainfall patterns.

Furthermore, significant pressure is placed on existing freshwater systems in SIDS by urbanisation, unsustainable agricultural practices, the demands of tourism and deforestation. These pressures exacerbate environmental conditions and ultimately affect the fragile economies of these islands. As water intrinsically links several sectors, without sufficient water quantity and quality, the development of other sectors will be restricted. For this reason, water resources management should be considered in all stages of planning and development and that it is prioritised at national, region and international levels.

### 2) Food Security

SIDS have felt the impact of increases in global food prices due to decreased levels of production, droughts or disasters, which have resulted in increased protectionism by food exporting countries. The issue of food security is increasingly on the agenda for SIDS.

Mauritius imports about 75% of its food, amounting to 19% of the country's total imports bill. As a Net-Food Importing Developing Country, Mauritius is particularly vulnerable to the rapidly changing global food system resulting from volatile prices of food commodities, climate change and diversion of food crops to bio-fuels.

It is therefore imperative to increase the country's ability to produce its own food. However, competing demands on the limited land resources, decreasing soil fertility, water scarcity as well as insufficient interest of the young generation in agricultural activities, make this a particularly challenging issue. Policies and actions need to be devised as national, regional and international level to tackle this challenge.

### **3) Global Economic crises**

The global financial and economic crisis has had a significant impact on SIDS, which have experienced increasingly limited access to affordable credit. The existing frameworks for evaluating loan eligibility and assessing interest rates for lending are largely based on Gross Domestic Product (GDP) and do not take into account the specific vulnerabilities of SIDS, depriving SIDS of concessionary financing and much needed assistance.

In this context, the international community is urged to consider the special needs of SIDS especially regarding climate change and disaster risks reduction issues and also SIDS stewardship in sustaining global goods, such as the oceans and marine resources.

### **4) Migration and Development**

Migration is an issue that is of concern to many, if most of the SIDS, both with their nationals abroad and non-SIDS nationals on their soil. In most, if not all cases, the reason for that movement is economic, with those individuals trying to find abroad a lifestyle better than the one they would have in their own country. This is a concern that holds true for all migratory movements worldwide and was taken up during the Global Forum on Migration and Development held in Mauritius in October 2012.

SIDS are therefore under pressure to address high unemployment and underemployment, particularly among the urban youth. There is thus a need to develop a proper framework addressing the interface between migration and development.

## Section V:

# WAY FORWARD & RECOMMENDATIONS

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Mauritius re-affirms its commitment to meet the sustainable development goals and priorities in the BPoA and the MSI. The successful implementation of the BPoA and MSI, however, depends both on the commitment of individual governments and on the commitment of development partners to support these goals and assist in the implementation of actions to achieve them, particularly through the provision of financial and technical support. This joint commitment should be accompanied by a more coherent, coordinated and collaborative approach to the sustainable development of SIDS more generally.

### New, pragmatic way forward

The last 20 years has shown that progress in the implementation of the BPOA/MSI has not been entirely successful. The High-Level Review of MSI+5 once again recalled the unique and particular vulnerabilities of SIDS and clarified that urgent action was required to address those vulnerabilities. The challenges faced by SIDS and the constraints they face in responding to these challenges cannot be addressed without the support of the UN system and the international community

This situation can be explained by the fact that there is an absence of the definition of the SIDS category. The absence of criteria defining “small and islandness” is the fundamental reasons for which countries falling in that category were not able to gain special treatment with the development organisations or donor countries. Considering the exceptional economic disadvantages faced by most SIDS as a result of their permanent handicaps, the notion of special treatment by virtue of SIDS status is important to genuine SIDS in the multilateral trading system and in the area of development financing. Thus, there is a need to do things differently, to explore new more practical, pragmatic and innovative avenues for SIDS to get special and differential treatment.

## Recommendations to be taken forward to the 3<sup>rd</sup> international conference on SIDS:

### A. Coordination at Regional level – SIDS as one voice:

AIMS should be endowed with a regional organisation that can truly support and lead the implementation of the AIMS-SIDS programmes in areas such as the Climate Change adaptation, by coordinating the development of adapted technologies, and skills to cope with the fast changing scenarios and models of development in SIDS.

Furthermore, new models of partnerships between private and public sectors, between SIDS and SIDS, between the AIMS/CARIBBEAN/PACIFIC should be enhanced and formalised to enable exchange of proven experiences for the sustainable development of SIDS.

## **B. Climate Change, Disaster Risk Reduction & Management and Financing for Sustainable Development:**

***Priorities for implementation are the following:***

- 1) Enhance resilience of the Republic of Mauritius in areas related to climate risk management as well as to improve climate prediction ability through the development of national capacities of SIDS;
- 2) Ensure the protection of coastal areas from inundation due to sea level rise;
- 3) Address holistically the relocation of populations from low lying vulnerable areas;
- 4) Develop the SIDS Strategy for Disaster Reduction to contribute to the attainment of sustainable development and poverty eradication by facilitating the integration of disaster risk reduction into development. The Strategy should have the following objectives:
  - a) Increase political commitment to disaster risk reduction
  - b) Improve identification and assessment of disaster risk
  - c) Enhance knowledge management for disaster risk reduction
  - d) Increase public awareness of disaster risk reduction
  - e) Improve governance of disaster risk reduction institutions
  - f) Integrate disaster risk reduction into emergency response management.

Once agreed and adopted, this strategy should be promoted at the forthcoming World Conference on Disaster Reduction to be held in 2015 in Japan.

## **C. Energy:**

To achieve the Mauritian vision of 35% of renewable energy by 2025, the international support to SIDS including through North-South, South-South, SIDS-SIDS and triangular cooperation, aimed at reducing fossil fuel dependency and increasing availability of electric power services, by using more efficient technologies and renewable energy sources needs to be highlighted. Support should be provided to enhance regional and SIDS-SIDS cooperation for research and technological development on SIDS appropriate renewable energy and energy efficiency technologies.

1. A hybrid financing mechanism comprising concessionary loans/grants should be made available to SIDS for the implementation of Renewable Energy (RE) projects; SIDS can promote the creation of a pool of certified energy auditors who would be allowed to work in any SIDS;
2. A certification body and an accreditation body for all SIDS Energy Auditors can be set up in one of the SIDS' countries, probably on a regional basis;
3. SIDS should publish the best practices in RE and Energy Efficiency (EE) in each country on a bi-annual basis;
4. Access to efficient technologies such as LED/Solar for lighting can be improved if the cost of these technologies can be made affordable for SIDS;
5. SIDS can harmonize the standards of the labels for household appliances, so as to promote efficient appliances only;
6. One of the SIDS Universities can provide advanced training for graduates in the field on RE & EE;
7. An international carbon financing mechanism should be set up to allow SIDS to de-carbonize their energy sectors as much as possible;

8. Smart grid technology development to be accelerated to allow adoption in SIDS for greater penetration of RE; development partners can help to allow the development of a pilot smart grid in one of the SIDS;
9. To develop an internationally agreed regulatory framework for renewable energy such as a WTO Sustainable Energy Trade Agreement.<sup>ii</sup>

#### **D. Development of an Ocean Economy / Coastal and Marine resources:**

The ocean economy will open up untold opportunities such as on the economic front, the Ocean State could be a driver for a foray of new sectors such as Ocean for Energy; Ocean for Food; Ocean for Water; Ocean for Minerals; Ocean for Leisure; Ocean for Health as well as efficient fisheries and for innovation-driven maritime research and exploration.

1. Setting up of a dedicated Regional Oceanographic Centre;
2. Development of Land Based Ocean Industry including for the generation of renewable energy to replace fossil fuel;
3. Increase means and resources at the regional level for research and implementation of plans and strategies on coastal zone management including erosion processes. In this respect it is also important to strengthen the Regional Fisheries Management Organisations.
4. Provide assistance to ensure domestic fishing and related industries of SIDS accounts for a greater share of the benefit than is currently realised of the total catch and value, in particular for highly migratory stocks harvested within the EEZs of SIDS and within proximate geographical areas including high seas, as appropriate.
5. Eliminate subsidies that contribute to illegal, unreported and unregulated fishing and to over capacity while completing the efforts undertaken at the World Trade Organisation to clarify and improve its disciplines on fisheries subsidies. There is also need for a carve out for subsidies for SIDS to develop its fishing capacity and fish processing plants.

#### **E. Management of Waste:**

Waste management in SIDS, is a growing problem because of population growth, urbanisation, changing consumption patterns and the large numbers of tourists. In this context the following needs to be addressed with the support of the International Community:

1. Support effective planning and implementation of waste management practices
2. Establish technical cooperation programmes to enable the creation and the strengthening of regional mechanisms to protect the oceans and coastal areas from ship-generated waste and oil spills, among others.
3. Setting up of a regional infrastructure for the treatment and disposal of hazardous waste.

#### **F. Trade:**

Given the vulnerability of SIDS and their disadvantage with regard to traditional markets, trade policy is instrumental in the developing and strengthening of SIDS resilience. It is therefore recommended to:

1. Establish a mechanism to promote intra SIDS movement of goods, capital and professional services with flexible rules of origin.
2. Non Tariff Measures (NTMs) present a challenge to small economies in their efforts to compete in foreign markets. Though many NTMs are concerned with justifiable health and related requirements, and others, can be explained as important for standard setting, the increasing number and rising stringency of these standards can be barriers to trade. It is



also recommended that the impact of Non Tariff Measures on Small economies be effectively addressed.<sup>iii</sup>

## G. Migration and Development:

Climate Change is already impacting and will impact further on migration, both within a country and between countries. Proactive planning and financing are crucial and in this context, financing and support from international financing agencies would be required to fast-track the regional integration programme with its SIDS counterparts, particularly in the following:

1. The **Accelerated Program for Economic Integration (APEI)** seeks to enhance regional capacity building, by facilitating the export of services and talents. The main objectives of the APEI are to address the poor allocation and mismatch of skills across national borders, to provide a boost to the flow of foreign investment and the export of services and to foster faster economic integration through enhanced growth and employment opportunities.
2. The **Regional Multi-disciplinary Centre of Excellence (RMCE)** aims to improve the capacity for policy making in the Eastern and Southern African region, as well as the small states network, with an emphasis on regional integration. The strategy is based on improving macroeconomic management, trade and transit, cross-border finance and business development and investment. The emphasis is on peer learning and peer support and benchmarking of good performers and adoption of best practices.

Due to its specificities, the RMCE and the APEI complement the initiatives of AFS and ATI. As at date through the PBB 2013-2015, Mauritius has contributed Rs 22 M to RMCE initiatives, with Rs 10 M earmarked for 2014 and Rs 7 M for 2015. To conduct a full-fledge programme under RMCE, we would require at least USD 1 million annually from the international community. For APEI, as at date, Mauritius has secured financial assistance to the tune of USD 3.6 M over three years from World Bank for movement of professionals. However, additional funds are needed to address other pillars under APEI.

## H. Setting up of regional /global monitoring system:

The establishment of a robust global monitoring system can help to strengthen accountability at all levels and to ensure adequate and timely analysis of the implementation of the BPoA, MSI and Samoa objectives/outcomes. The monitoring framework should be based on existing regional and national monitoring frameworks. At the same time, the monitoring framework should also fully utilise readily available international data on vulnerabilities, development needs and policy responses relevant for SIDS, including the relevant indicators used in the economic vulnerability index developed by the UN Committee for Development Policy. Adequate resources would be required.

## Section VI:

# POST-2015 UN DEVELOPMENT AGENDA

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The outcome of the Samoa meeting needs to be seen as converging with the Post-2015 UN Development Agenda, the Rio +20 process and the proposed Sustainable Development Goals (SDGs). Accordingly, the process initiated for the preparation of the SIDS conference should:

- Continue to strengthen national partnerships between governments, private sector, civil society organisations, women, trade unionists, non-governmental organizations, the elderly and the youth in order for the holistic implementation of the goals to be adopted at the Samoa meeting to be fully integrated into the development policies at national and regional levels;
- Encourage the mainstreaming of the concept of Education and culture for Sustainable Development across the globe;
- Indicate in its national post 2015 Development Agenda report, the current MDGs health goals need to be clustered into one goal entitled 'Universal Health Coverage' which would provide a multi-sectoral approach with a view to reducing health inequities. The rapid spread of Non-Communicable Diseases compels urgent global action for the prevention and treatment of these diseases. Universal Health Coverage would imply that people have access to all health services such as Maternal and Child Health, Family Planning, Sexual and Reproductive Health Education, Prevention of and Treatment for Substance Abuse, Occupational and other health hazards, Mental Health, HIV/AIDS, malaria and other emerging/ re-emerging diseases;
- Support and recommend the building of resilience and addressing the issue of population dynamics in a future post 2015 international development goals;
- Coordinate through the Delivery As One umbrella a system-wide coherence which will lead to a more coordinated and structured approach at national, regional and international levels;
- Adopt a pragmatic approach with regard to the question of special treatment for financial and technical assistance for SIDS. The much stretched diplomatic and financial resources of SIDS and the generally limited interest shown toward SIDS and their concerns by the international community have added to the inevitable inertia in the international bureaucracy and are likely to make the realisation of the above recommendations a long process. In this context, there is a need for SIDS to gain special recognition within the UN system

## Section VII:

# PARTNERSHIPS FOR SIDS

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- The vision of the Government is to promote Mauritius as a Knowledge Hub, the Tertiary Education Sector is being internationalized and more and more international students are now choosing Mauritius for their higher education.
- Mauritius is presently offering 50 scholarships to students from African countries of the African Union, for undergraduate programs and 50 scholarships for post-graduate programs offered on a Distance Learning Mode by the Open University of Mauritius to Commonwealth Countries.
- The GEF - Western Indian Ocean Marine Highway Development and Coastal and Marine Contamination Prevention Project is an excellent example of a regional project with 8 countries<sup>6</sup> to bring-up to the same standard and level of preparedness for oil spill, sharing of resources and putting in place a regional collective, pro-active and reactive plan. This project is being replicated in other regions. Similar programs should be undertaken to establish technical cooperation programmes to support SIDS' development of appropriate systems for recycling, waste minimization and treatment, reuse and management; establish and strengthen systems and networks for the dissemination of information on appropriate environmentally sound technologies.

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<sup>6</sup> Comoros, France (Reunion Island), Kenya, Madagascar, Mauritius, Mozambique, Seychelles, South Africa and Tanzania.

## Section VIII: CONCLUSION

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There are many challenges and obstacles facing Small Island Developing States in reconciling economic and social development and building their resilience in a more sustainable development manner. The various obstacles should be identified and recognized; international cooperation measures should be taken to enable and support the sustainable development efforts. Care should be taken to ensure that the sustainable development concept is well understood to address not only the negative effects of climate change, but to also include the social, equity and development dimensions, including the international provision of finance and technology.

The Government of the Republic of Mauritius is convinced that solidarity amongst SIDS is of paramount importance to successfully address SIDS issues, with international support.

International collaboration has never meant so much in this era of globalization and trans-boundary challenges.

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<sup>i</sup> The guiding questions are the following

- i. Building on progress reports already prepared for the MSI+5 and Rio+20, what is the progress made to date and gaps limiting implementation of the BPoA and MSI, that the country wishes to highlight through the SIDS conference preparatory process?
- ii. What progress has been made since 1992 to strengthen the national institutional framework in terms of coordination between sectors and the integration of the 3 pillar of sustainable development? How well are sustainable development principles integrated and mainstreamed in national development planning?
- iii. What new and emerging challenges are likely to affect the prospects for sustainable development in the coming decade? Do the new and emerging challenges pose a fundamental risk to the prospects of economic growth and development in your country? What new and emerging challenges should the SIDS Conference in 2014 enact upon?
- iv. What kind of new and/or additional practical and pragmatic actions are needed to address identified gaps in implementation?
- v. What is the level of awareness at the country level of MDGs, Sustainable Development Goals (SDGs) and the post-2015 development agenda? What would be your country priorities in elaboration of the post-2015 development agenda?
- vi. How could such identified challenges and opportunities be addressed through collaborative partnerships with the international community? What kind of partnerships have worked or not worked and why? What changes are needed, if any, in how partnerships are forged in the future, in order to strengthen in the way that help address SIDS address the identified challenges and opportunities?
- vii. What is the accountability mechanisms used to monitor performance? What can be done to strengthen national data and information systems, national account systems, national indicators for development, and frameworks for monitoring and evaluation?
- viii. With an eye toward the "concise, focused, forward-looking and action-oriented political document" called for in paragraph 10 of the modalities resolution (A/RES/67/207), what are the key priorities areas (up to five) that your country would like to see addressed, in the national preparations and beyond? The responses here could be most constructive if conceived in terms of key words or short phrases rather than long descriptive paragraphs.

<sup>ii</sup> *The UN has declared 2012 as the International Year of Sustainable Energy for all and its Advisory Group on Energy and Climate Change has recommended universal access and a 40 per cent increase in energy efficiency in the next 20 years. Cutting energy related emissions in half by 2050 would require de-carbonisation of the power sector. To maintain the same level of output, fossil fuel would need to be offset by sustainable energy, the largest increase, according to the World Bank's World Development Report (2010)t, would have to come from renewable energy sources. The World Bank report illustrates the enormous magnitude of the effort to increase the share of low carbon energy to 30-40 per cent by 2050 from present levels of 13 percent. This would imply over the next 40 years deploying annually an additional 17000 wind turbines, 215 million square metres of solar photovoltaic panels, 80 concentrated*

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solar power plants. Domestic Sustainable Energy policies as well as trade policies can both create barriers for supply chain optimisation in the sustainable energy sector. Hence policies that prevent or constrain supply chain optimisation increase costs and consequently process for sustainable energy goods and services. Non tariff trade related barriers to SEGs are diverse. They can range from domestic support measures to export restrictions on critical raw materials as well as restrictions on the modes by which services are supplied across borders. The use of certain types of barriers can be addressed through existing WTO rules or potentially as part of the Doha round of negotiations. However, while WTO rules and disciplines could be evoked in certain cases, they are often ambiguous as far as the energy sector is concerned. It is thus worthwhile to consider a fresh approach that takes a holistic and integrated view of the sustainable energy sector while simultaneously tackling a variety of market and trade related barriers. A Sustainable Energy Trade Agreement could be a way of bringing together countries that are committed to addressing climate change and longer term energy security while maintaining open markets.

<sup>iii</sup> The WTO's World Trade Report of 2012 dealt quite extensively with the issue, but it did not identify small economies as a group. However, several of its conclusions point to the fact or to the implication that small economies are more adversely affected by NTMs than several other groupings. The requested study helps to supplement the important work already conducted by the WTO, and to focus on the issue from a small economy perspective. Studies by the World Bank in collaboration with ITC (*Non Tariff measures- A Fresh look at Trade Policy* ed. O Cadot and M. Malouche. World Bank. CEPR, 2012) also show that many NTMs adversely affect the costs of contesting foreign markets by many developing countries. They introduce procedural requirements which add to costs at borders, and sometimes add numerous regulations which sometimes act as barriers to entry. While many product standards and technical regulations are quite reasonable, they can act as trade inhibitors. They can make compliance costs generally higher and can keep small and medium sized enterprises out of international trade. Indeed developing country markets are increasingly constrained by stringent sanitary requirements that are costly to implement. The level of stringency is constantly being raised.

Studies conducted by the World Bank include among NTMs, not only SPS measures but note that NTMs can include several other measures such as quotas, voluntary export restraint, non automatic authorizations, price and quality constraints, anti-dumping safeguards, administrative pricing, duties and trade defensive policies, and pre-shipment inspection. In some cases implementation of these measures require retooling, increased or enhanced product design and testing and confirmation systems, so that productive processes become more expensive and sometimes need to be outsourced. Prima facie indications are that some measures impact more adversely on small economies, but a study on the topic would be required in order to substantiate this position.

The 2012 Report of the WTO, for example, speaks of evidence that TBT/SPS measures have a stronger effect on small rather than large firms (p 10 & p 147). Since small economies are more likely to have mostly small firms, it is useful to explore the extent to which this observation applies to SVEs.

Also, it notes that TBT/SPS measures have prevalently positive effects for more technologically advanced sectors, but negative effects on trade in fresh and processed foods. (p 10). Small economies tend to have sectors which produce fresh and processed foods and less so, technologically advanced sectors.

The Report also suggests that specific provisions in trading arrangements appear to follow a hub and spoke structure, with the larger partner representing the hub to whose standards the spokes will confirm. Small economies would be considered the spokes in these arrangements. This concept is also worth exploring as it applies to small economies.

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*The Report notes that when retailers have buying power, private sector food safety standards can become “de facto” barriers to market entry for certain producers. This is particularly the case for developing countries which act as “standard takers” rather than standard makers (p 86). It would seem that small economies, because of their lack of market power, are more easily pushed into being standard takers than most other countries. It would be useful to further examine this observation.*

*The ITC business surveys also find greater use of TBT/SPS measures by developed countries, than developing countries. Also, it is not mentioned where small economies stand relative to other developing economies in terms of the use of NTMs. (p 115). It is assumed that SVEs as a group also use TBTs and SPSs less than developed countries. This could be usefully confirmed.*

*The report notes that agricultural products are disproportionately affected by NTMs, and notes further that the evidence that agricultural products are disproportionately affected by non-tariff measures relative to manufacturing is echoed in the ITC business surveys. It is noted that NTMs in agriculture appear to be more restrictive than NTMs in manufacturing (p136). Small economies may well be in the category of exporting more agricultural than manufacturing goods and therefore would fall into the category of having to face more restrictive NTMs. (p117). It would be instructive to examine whether this is in fact the case.*

*The report also found that TBT/ SPS measures had a negative effect on export market diversification of the countries (i.e. in the product variety of exports to that market). Developed countries tended to have a greater range of TBTs. It suggests that developing countries export diversification becomes more restricted as a result of the TBTs of developed countries, but the study does not mention small economies. The Report also notes that where TBTs/SPS measures have a negative effect, the impact tends to be greater for developing country exports (p153). It would be useful to determine whether it is even more onerous for small economies.*