Post Disaster Needs Assessment:
Lessons for Building Resilience in Saint Lucia

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Background

- Over the last 25 years, Saint Lucia has experienced average annual historical losses of about USD 40 million. 

  *Source: WB analysis of DesInventar and CDB*

- Costs to Saint Lucia associated with *Climate Change Impacts* have been estimated at US$59 m (PPP) in 2010 and are estimated to rise to US$541m (PPP) by 2030. *(Source DARA Climate Vulnerability Monitor)*

- In long term, Saint Lucia would have to set aside about 0.5% of current GDP each year (USD 7.6 million) for earthquakes and windstorms. *(Source CCRIF)*

<table>
<thead>
<tr>
<th>Event</th>
<th>Year</th>
<th>Dam./Loss (US$ M)</th>
<th>% of GDP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christmas Trough</td>
<td>2013</td>
<td>$99.8</td>
<td>8.3</td>
</tr>
<tr>
<td>Hurricane Tomas</td>
<td>2010</td>
<td>$336.0</td>
<td>43</td>
</tr>
<tr>
<td>Hurricane Dean</td>
<td>2007</td>
<td>$18.8</td>
<td>1.6</td>
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<tr>
<td>Hurricane Ivan</td>
<td>2004</td>
<td>$2.6</td>
<td>0.24</td>
</tr>
<tr>
<td>Trop. Storm Lily</td>
<td>2002</td>
<td>$20.0</td>
<td>2.2</td>
</tr>
</tbody>
</table>
Overview of Last Two Major Events

Hurricane Tomas

December 2013 Trough
Post Disaster Response Actions

Government Actions

- Initial response coordinated by NEMO, Ministry of Infrastructure and other agencies
- Coordinated the Damage and Loss Assessment (DALA) with technical assistance from the World Bank.
- Coordinated the Post Disaster Needs Assessment in collaboration with UNDP, OECS and UNECLAC
- Prioritization of reconstruction of key infrastructural projects

Assessment Methodology

- DaLA methodology developed by UN-ECLAC and expanded by GFDRR
- Broadly reflects damage to assets and loss to economic flows
- Summarizes approximate total macroeconomic impact
- Reconstruction needs are included as a financing element with a view to building back better
PDNA: Hurricane Tomas & December 2013 Trough

Hurricane Tomas

- Agriculture: 29%
- Transportation Infrastructure: 23%
- Tourism: 11%
- Education & Health: 2%
- Housing: 18%
- Commerce: 4%
- Water, Electricity & Telecom: 13%

December 2013 Trough

- Transportation Infrastructure: 72%
- Agriculture: 13%
- Tourism: 2%
- Commerce: 1%
- Education & Health: 1%
- Housing: 4%
- Water, Electricity and Telecom: 7%
Key Observations

- Hydro-met events typically impact the country significantly
- Transportation sector significantly affected by the events
- Water sector highly vulnerable
- Map overlay shows areas of high rainfall coincide with areas of high poverty
- Limited level of redundancy in the provision of key services – water and electricity
Recommendations

- Resilient Recovery and Reconstruction
- Improve Resilience through Disaster Risk Reduction Measures
- Risk Identification and Assessment
- Strengthen Disaster Risk Preparedness
- Disaster Risk Financing Strategy
Policy Responses

- Recovery measures – housing, schools, roads
- Implementation of structural measures to restore road network, improve drainage and slope stabilization
- Implementation of projects to build in redundancy into water supply, improve water quality and watershed management
- Policy decision on diversification of electricity supply
- Technical Assistance Programme aimed at risk identification, risk mapping, valuation of assets.
- TA Programme to develop risk financing strategy
There are risks and costs to action. But they are far less than the long range risks of comfortable inaction.

John F. Kennedy

https://www.brainyquote.com/quotes/quotes/j/johnfkenn109216.html