STRATEGIC APPROACH TO CLIMATE CHANGE

Specialised Technical Session on Sustainable Transport

25 November 2019, Vic Falls, Zimbabwe
1. About Namibia
2. Roads Authority Corporate Mandate
3. Policy and National strategies
4. National Road Network
5. Transport experiences: climate change
6. Responses by the Road Sector
7. Conclusion
About Namibia

- Area of 825,418 km²
- Population of 2.3 million
- Least densely populated country in the world (2.5 persons per km²).
- The GDP is estimated at US$ 12 billion
- Inflation rate is at average of 5% per annum
- 1 US$ = N$ 15 = South African Rand
Roads AUTHORITY Corporate MANDATE

Management of national Road Network with a view to achieve a safe and efficient road sector
Total network 48,984 km
Bitumen 8000 km
Gravel, Salt and Earth tracks 40,984 km
Namibia been awarded the best country with the best road infrastructure in Africa in 2017.
Current road condition:
surfaced 6,4% in unacceptable standard
Unsurfaced is 46% in unacceptable standard
Policies and national strategies in response to climate change

Road Transport Sustainability Plan for Namibia, 2015.

*Incorporated into the Roads Authority Strategic Plan.

Goals:

1. Improve Road Safety
2. Enhance Preservation of Road Infrastructure
3. Promote Capacity Building and Workforce Development
4. Increase Funding for Road Transport
5. Optimise the Balance between Access and Mobility
6. Preserve Namibia’s Environmental and Ecological Systems
7. Pursue New Innovations and Technologies
Policies and national strategies in response to climate change

Road Asset Management Policy and Framework: 2019

❖ To be aligned with RA’s corporate goals and business plan.

Purpose:
❖ To direct the organisation’s road asset management activities 5,10-20 years in achieving the road asset management objectives.
❖ To provides the high-level approach and a long-term strategic plan for delivering road asset management objectives.
Policies and national strategies in response to climate change

Other National/Organizational Strategies in place

❖ **Road Maintenance Operational Strategy:** aimed at balancing road activities and within proportion of assured funding to enable road preservation and economic growth.

❖ **Climate change (Rural Access roads programme):** Construction of rural access roads to connect schools, clinics and government services that are cut off during rainy and flood times.
Road transport experience: climate change

• Main Road 59:
Experiences
dr3508: Luhonono road: Zambezi region: 2017
Low culvert of 1.5 meters during flood time: 2017
Flood damages to road on construction: DR3508
Response 1:

Adaptation to climate change programme, (including research on durable road construction materials)
ASSET MANAGEMENT POLICY REVIEW AND FRAMEWORK- completed in August 2019

The purpose of the Asset Management Policy is to ensure that the Roads Authority (RA), Road Fund Administration (RFA) and all other stakeholders have information, knowledge and understanding about the long-term and the cumulative consequences of managing and preserving the road network.
Response 3

Road Maintenance Operational Strategy 2019.

1. Balancing road activities:
   - Development vs. road preservation ratio:
     - 2018/19: 48.4% for Development & 51.6% for Preservation.
     - 2019/20: 51.3% for Development & 48.7% for Preservation.
Road Maintenance Operational Strategy:
Maintenance activities allocations over the years:

<table>
<thead>
<tr>
<th>Financial Year</th>
<th>Total maintenance Budget</th>
<th>Unpaved Road (Regravelling and bladding)</th>
<th>Paved Road (Reseal )</th>
<th>Miscellaneous Road Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014/15</td>
<td>913,000,000</td>
<td>475,000,000</td>
<td>317,957,500</td>
<td>120,042,500</td>
</tr>
<tr>
<td>2015/16</td>
<td>920,000,000</td>
<td>516,050,000</td>
<td>236,250,000</td>
<td>167,700,000</td>
</tr>
<tr>
<td>2016/17</td>
<td>1,000,000,000</td>
<td>508,251,210</td>
<td>354,582,339</td>
<td>137,166,451</td>
</tr>
<tr>
<td>2017/18</td>
<td>1,236,434,000</td>
<td>660,202,000</td>
<td>434,820,000</td>
<td>141,412,000</td>
</tr>
<tr>
<td>2018/19</td>
<td>1,176,440,605</td>
<td>508,858,605</td>
<td>538,158,000</td>
<td>129,424,000</td>
</tr>
<tr>
<td>2019/20</td>
<td>1,131,626,216</td>
<td>603,126,953</td>
<td>359,629,002</td>
<td>168,870,261</td>
</tr>
</tbody>
</table>
Response 3
Road Maintenance Operational Strategy:
Maintenance activities allocations over the years:

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</table>

Maintenance Budget (RUCS)
Response 3
Road Maintenance Operational Strategy:
Maintenance achievements over the years:

<table>
<thead>
<tr>
<th>Activities</th>
<th>2015/16</th>
<th>2016/17</th>
<th>2017/18</th>
<th>2018/19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reseal: target</td>
<td>716 km</td>
<td>700 km</td>
<td>600 km</td>
<td>600 km</td>
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<tr>
<td>Reseal result</td>
<td>325 km</td>
<td>550 km</td>
<td>688 km</td>
<td>886 km</td>
</tr>
<tr>
<td>Regravelling: target</td>
<td>1700 km</td>
<td>1700 km</td>
<td>300 km</td>
<td>500 km</td>
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<tr>
<td>Regravelling. result</td>
<td>425 km</td>
<td>465 km</td>
<td>522 km</td>
<td>348 km</td>
</tr>
<tr>
<td>Surfaced road condition: target</td>
<td>8%</td>
<td>8%</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>Surfaced road condition: result</td>
<td>9%</td>
<td>7%</td>
<td>7%</td>
<td>7%</td>
</tr>
<tr>
<td>unsurfaced road condition: target</td>
<td>8%</td>
<td>8%</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>unsurfaced road condition: result</td>
<td>58%</td>
<td>46%</td>
<td>46%</td>
<td>46%</td>
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</table>
THANK YOU FOR YOUR ATTENTION