

## PROJECT SUMMARY

<b>Ref No.:</b> MRC-HPC-RIG-A01	<b>Title:</b> Smart Traffic Lights
<b>Local Company:</b> StormEdge Ltd	
<b>Collaborating Institution:</b> University of Mauritius	
<b>Project Leader</b>	
Mr Hisham R. Rojoa	StormEdge Ltd
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<p style="text-align: center;"><b>TECHNICAL ABSTRACT</b></p> <p>Traffic is increasingly dense, especially around town centres and traditional traffic lights are not optimal to manage traffic flow, hence the need for policemen to manage traffic. The essence of this project is to develop, test and evaluate an automated traffic light intelligent system. In case of success, the project will be presented to stakeholders in view of a national roll out.</p> <p>The project is split into 3 main phases namely:</p> <ol style="list-style-type: none"> <li>1. Analysis of current traffic status</li> <li>2. Development of intelligent system</li> <li>3. Test of intelligent system and analysis of results</li> </ol> <p>The process is described as follows:</p> <ul style="list-style-type: none"> <li>- Remote monitoring and control of the traffic lights</li> <li>- Creation of a Machine Learning process for individual traffic lights to adapt their cycles based on observations</li> <li>- Interconnection among traffic lights to enhance traffic flow</li> </ul> <p>The collaboration of University of Mauritius (collaborating partner) and Emtel (connectivity and cloud supplier) will be sought to implement this project.</p> <p>Financial scope of this project is viable as:</p> <ul style="list-style-type: none"> <li>- Materials and software can be produced and commercialised to the local authorities either on a one off or retainer fee model</li> <li>- System as well as hardware can be exported to other countries.</li> </ul>	
<b>Key Words:</b> Traffic jams, Smart traffic lights, machine learning	