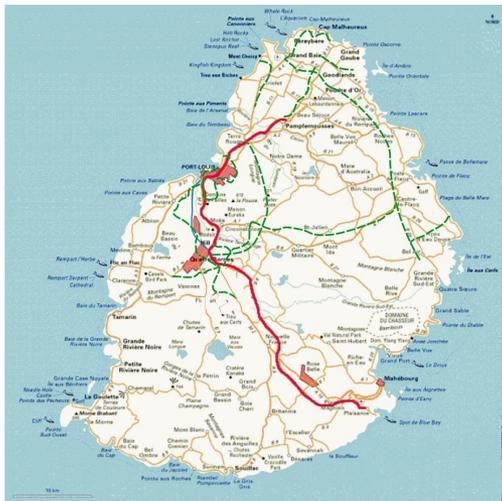


Final Consultative Meeting:

The NRG Report on the impact of Road Traffic in Mauritius



(TMRSU, 2011)

PRESENTATION

G White

Project Officer

Mauritius Research Council



Structure of Presentation:

- Background on Road Traffic in Mauritius
- Context & Objectives of the Report by the NRG-RT
- Guiding Framework & Consultative Process
- Recommended Areas of Research & E.g of Research Themes
- Summary of Recommended Cross-Cutting Areas for Research
- Q & As : Group Members & Area of Expertise



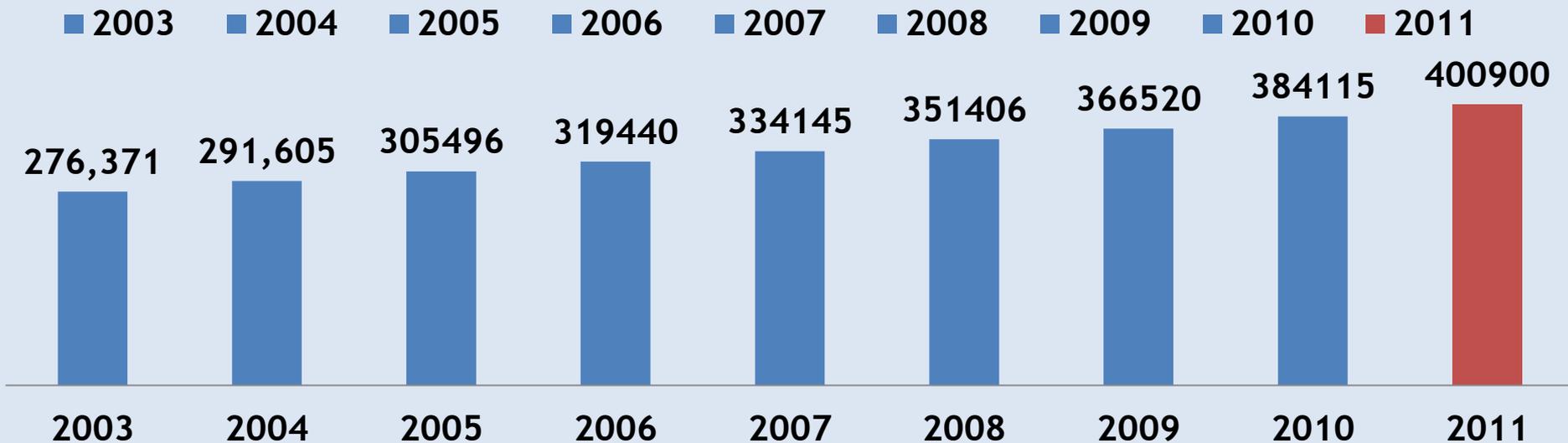
Background on Road Traffic in Mauritius



Rationale for Report: Road Traffic in Mauritius

- 400,900 vehicles on our roads in 2011 (NTA, 2011)

No. of vehicles by year



(CSO, 2004-2011, NTA, 2012)

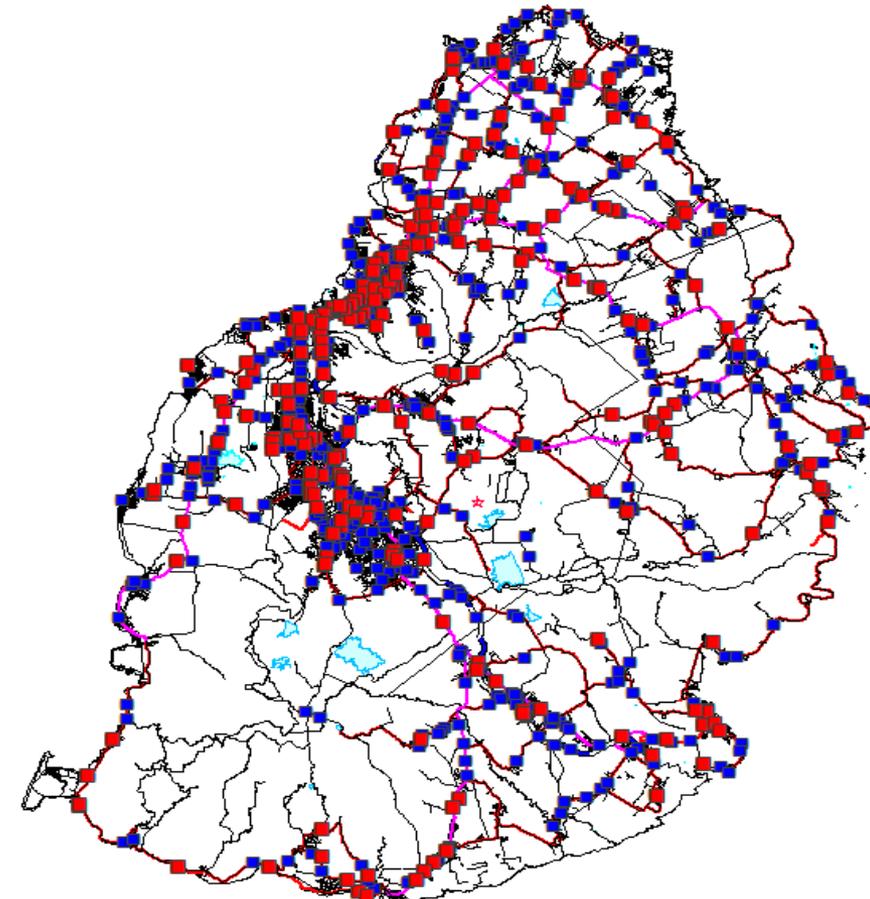
- Our total road network is **2028 Km** (TMRSU, 2011)
- **Cost of Traffic Congestion to the Economy is Rs 2.53 billion** (Menon, G; et al, 2004)



Rationale for Report: Impact of Road Traffic

- **Pollution is caused by Road Traffic via noxious gases and noise**
- **On average there are \approx 20,000 road accidents, 3050 casualties resulting in \approx 145 deaths every year (MPF, 2010)**
- **Inhaling noxious gases has a negative impact on health**
- **Poor traffic affects the economy and businesses**
- **Direct Impact on Health and (Society) is undocumented**

Governmental Actions (MPF, MPI & Others)



(TMRSU, MPF 2011)

----- New roads projects

M1

LEGEND

FATAL



SERIOUS



Road Projects

(Completed or under construction)

Already constructed

- Phoenix-Beau Songes Road
- Triolet Bypass
- Goodlands Bypass

Under construction

- Terre Rouge - Trianon Road
- Port Louis Ring Road (Ph. 1)
- Third Lane from Phoenix to Caudan Roundabout
- Grade Separated Junction at Caudan Roundabout
- Extension of M2 from Pamplémousses to Sottise



Future Road Projects

PUBLIC TRANSPORT

- Long term - Modernization of Public transport

Current & Future Road Safety Measures

- Road Safety Strategic Plan for 2012-2020 being prepared by TMRSU
- Treatment of black spots
- Better enforcement
- Placing of fixed cameras (tender floated)
- Belisha Lamps at pedestrian crossings
- Penalty points system on driving licence
- Continue road safety education (additional resources)

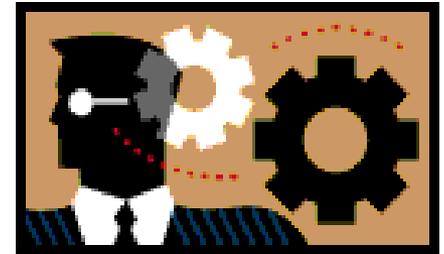


Context & Objectives of the Report by the NRG-RT



The NRG-Report in Context:

- Outcome of a process started in June 2011 in collaboration with MoTERST and facilitated by the MRC.
- Opportunity for the Research Community to extend its network, collaborate & innovate.



Objectives of Report:

- To act as a Needs Assessment for Road Traffic Research
- To summarize the views of experts, the public and the research community
- To identify areas of research and projects with a view to inform local policy decisions in Road Traffic



Consultative Process & Guiding Framework



Role of the National Research Group

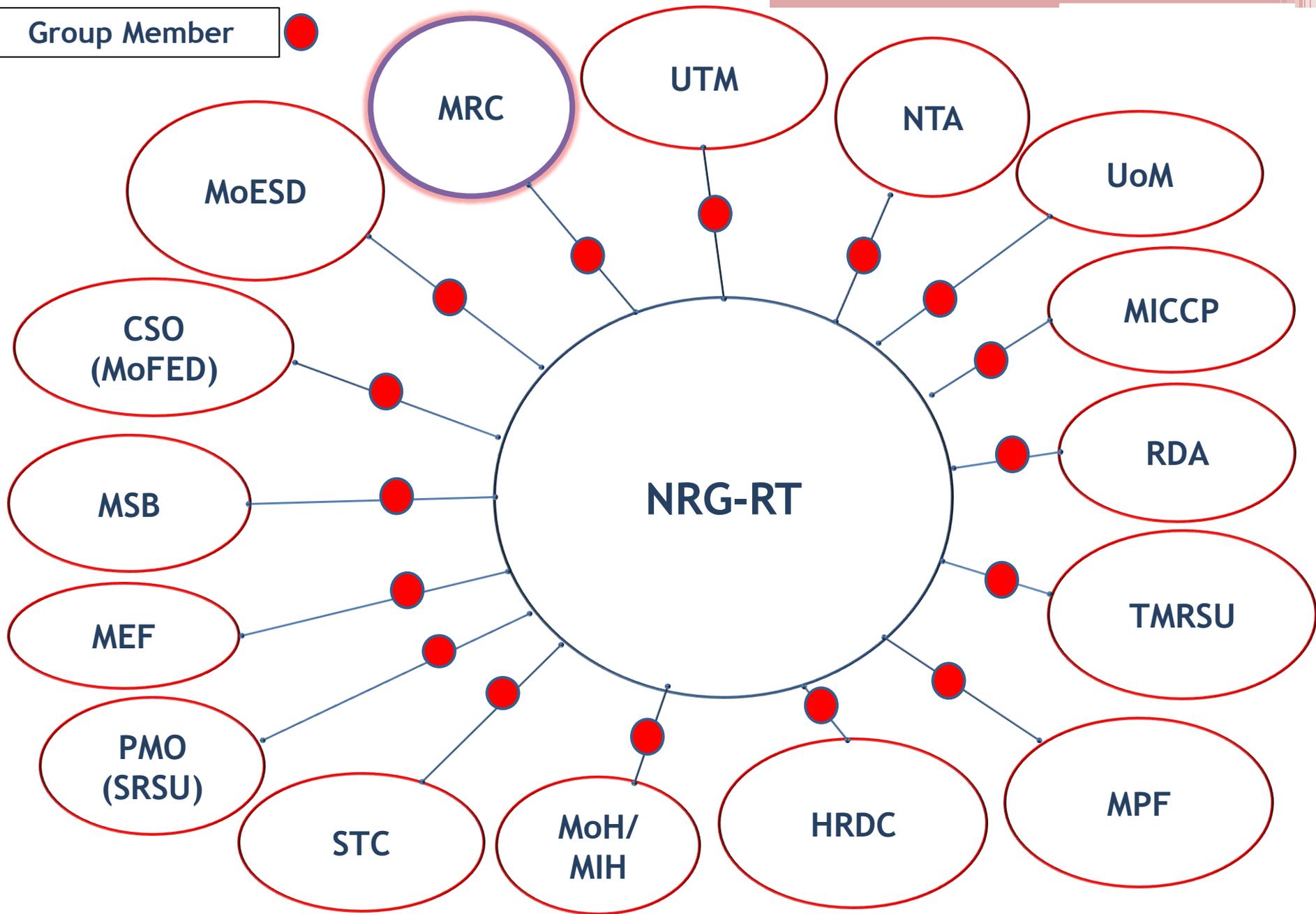
- Acted as a Cross-Sectoral Steering Group
- Took stock of the situation and studies done previously.
- Determined course of action and expected outcome(s).
- Vetted research projects of the report

Role of the MRC

- Identified members of the NRG-RT
- Guided the focus and outputs of the needs assessment
- Provided secretarial support to the NRG and drafted report



Group Member



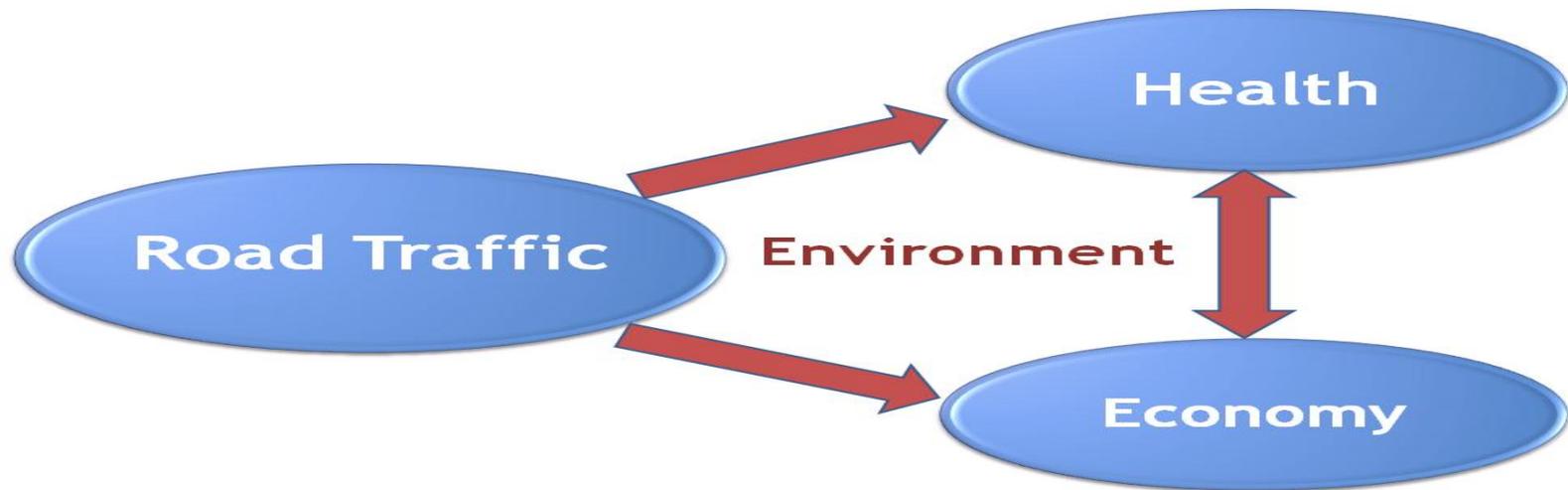
E.g. of Projects, Studies & Reports Encountered: 1999-2010



- CSO (2009): “Digest of Environment Statistics 2009”
- CSO (2009): “Digest of Road Transport and Road Accidents Statistics 2009”
- Sarkar P.K. et al (2009): “ A critical appreciation of Road Transport Problems in Mauritius & possible approaches to solution”
- MEF (2007): “*The Business Costs of Traffic Congestion*, MEFeedback, Issue No. 3 October 2007”
- Menon, G; (2004): “Report on Congestion Pricing” Ministry of Public Infrastructure and Land Transport”
- Baichoo et al (1999): “An automatic road pricing system to reduce traffic congestion in Mauritius”
- Rughooputh,S; “Transport Panacea for Mauritius!!! Free transport for All & Congestion buster solutions”

Consultative Process

- NRG Title identified:
National Research Group on
Impact of Road Traffic on the Economy, Environment & Health.
- Research Framework adopted by the NRG:



- 8 Meetings and 2 Consultative Sessions were organised.

Recommended Cross-Cutting Areas for Research



Understanding the behavioural and psychosocial dimension of road use

Main Research Question:

How can positive behavioural change be instigated in road users?

E.g. of Research Themes:

- Investigating the task capability interface model
- Mapping commuters knowledge and attitudes

Sustainable modes of transport and efficient road use

Main Research Question:

How to investigate reducing RT?

E.g. of Research Themes:

- Investigating Intelligent Transport Systems & Solutions
i.e. use of ICT in RT
- Feasibility Studies:
 - Cost of enhancing mass transport systems versus new roads
- Investigating changes in fuel composition

Costing the impact of road traffic: congestion & accidents

Main Research Question:

Do we know the current cost of road accidents and congestion in monetary terms?

E.g. of Research Themes:

Quantifying:

- Medical Costs
- Loss of Quality of Life
- Commuting time and production loss
- Property Damage



(MPF, 2011)

Impact of Road Traffic on Health due to pollution

Main Research Questions:

1. What is the prevalence and resulting cost of diseases caused by road traffic?
2. What are the costs and benefits of Active Transportation i.e. walking, cycling?

E.g. of Research Themes:

- Quantifying the cost of the burden of illness from Road Traffic to the Health System due to Traffic pollution
- Assessing Health Benefits of Active Transportation

Summary of Recommended Cross-Cutting Areas for Research & Rationale



Cross-Cutting Research Areas

Sustainable modes of transport and efficient road use

Costing the impact of road traffic: congestion & accidents

Impact of Road Traffic on Health due to pollution

Understanding the behavioural and psychosocial dimension of road use



Rationale

Reduction of RT and increase efficient use of resources

Provide additional input for Resource Allocation

Clarify health risks incurred by road users

Understand how to trigger positive behaviour change in road users

QUESTION TIME



<i>Name of Group Member</i>	<i>Field of Expertise</i>
Inspector G. Veerasami	Road Safety
Mrs T. Vaghjee-Rajiah	Human Resources
Mrs. S. Bhiwajee	Society & Sustainable Development
Mr. P. Gooljar	Engineering (Traffic Management & Road Safety)
Mr. N. Veerapa	Road Development
Mr. D. Romooah	Transport
Dr. R. Ramyead	Health
Mr. C.F. Ho Fong	Standards
Mr. C. Ramnath	Statistics
Mr. R. Phoolchund	Trade & Industry
Dr O. Gokhool	IT/Transportation /Engineering/Sustainable Development
Mr. R. Sungkur	Industry, Commerce & Consumer Protections
Dr. V. Ragoobur	Economics & Labour
Mr. M. A .Yadallee	Environment
Mr. D.Vithilingum	Environment & Sustainable Development
Dr. B.Seetanah	Transport Economics
Mr. P.Gopaldu	Engineering (Road Safety Management)
Mrs. Munhurrun	Society & Sustainable Development

Thank you.

