



THE ROAD DECONGESTION PROGRAM IN MAURITIUS

KEC AND RDA TECHNICAL COOPERATION

BY

CLAUDE WONG SO OSK, FIEM, FIOSHM
Chairman

ROAD DEVELOPMENT AUTHORITY



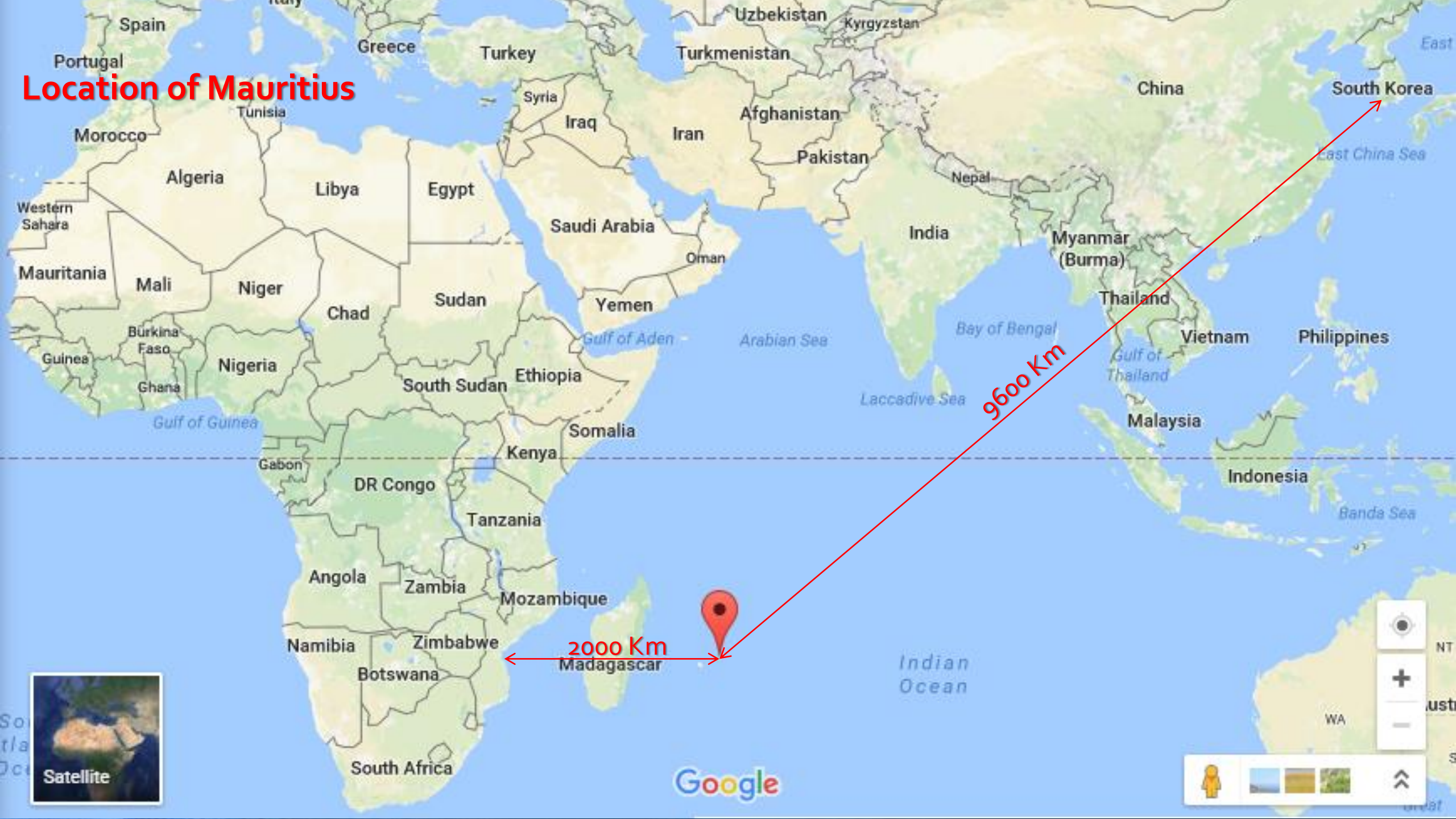
Contents

1. Mauritius at a glance
2. Road Network and Traffic Congestion
3. Road Development Authority
4. Road Decongestion Programme
5. World Road Congress 2015 in Seoul/Korea Expressway Corporation Mission Report April 2016
6. MOU RDA-KEC and G2G Agreement
7. KEC as Consulting Engineers (Phase I of RDP)
 - Grade Separated Junctions at Pont Fer/Dowlut/Phoenix
 - A1-M1 Link Road
 - Tender Exercise and Award of Contracts
 - Projects now under implementation
8. Metro Express Project and Road-Metro Interface
9. Other areas of future cooperation opportunities

1. Republic of Mauritius



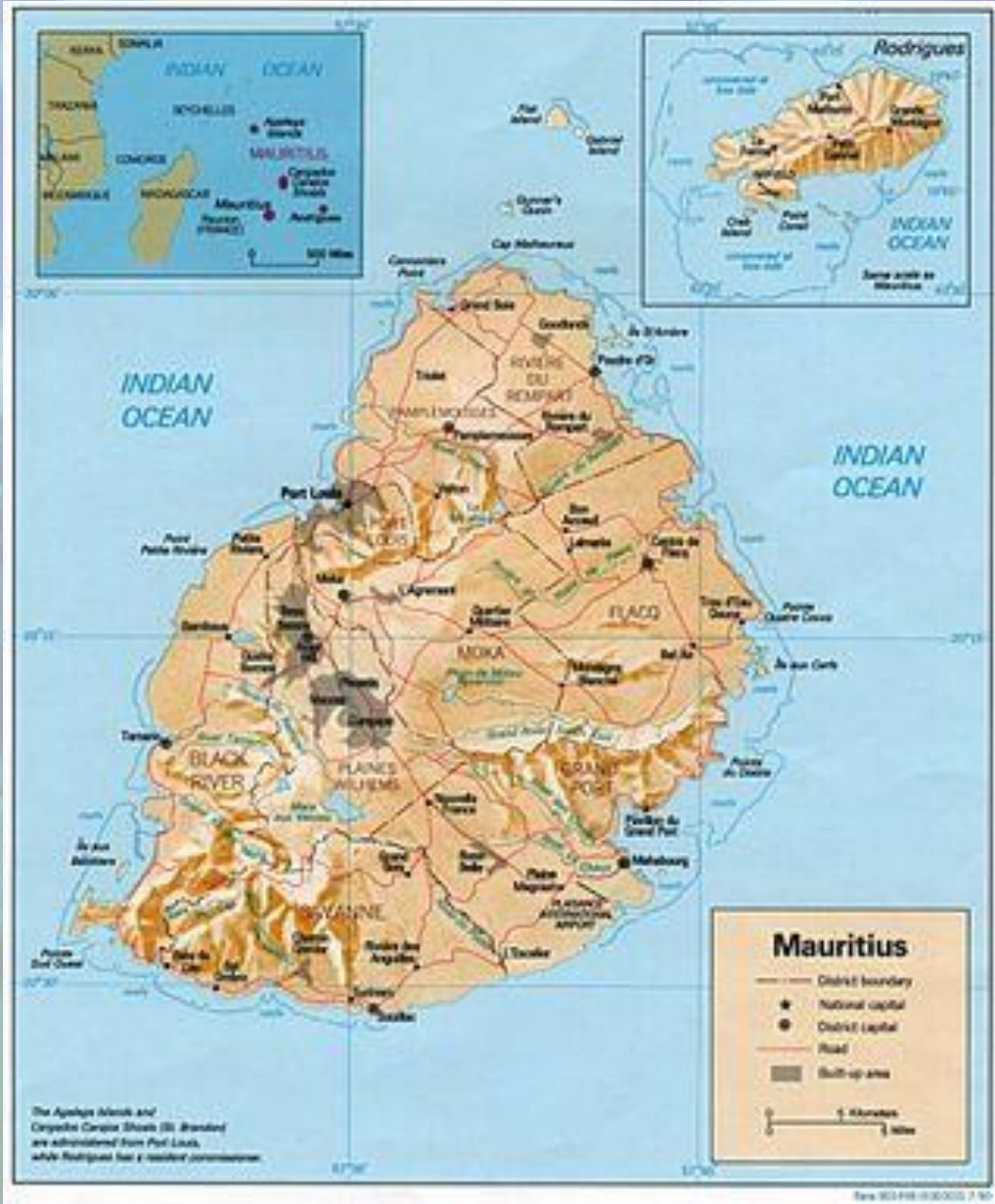
Location of Mauritius



History

- *Middle ages – Visited by Arabs and Portuguese*
- *Colonized by the Dutch in 1638 (Maurice)*
- *Abandoned by the Dutch in 1710*
- *Colonized by the French in 1715 (Isle de France)*
- *Star and Key of the Indian Ocean*
- *Invaded by British in 1810 (Mauritius)*
- *Gained independence in 1968*
- *Became a republic in 1992*

Map of Mauritius

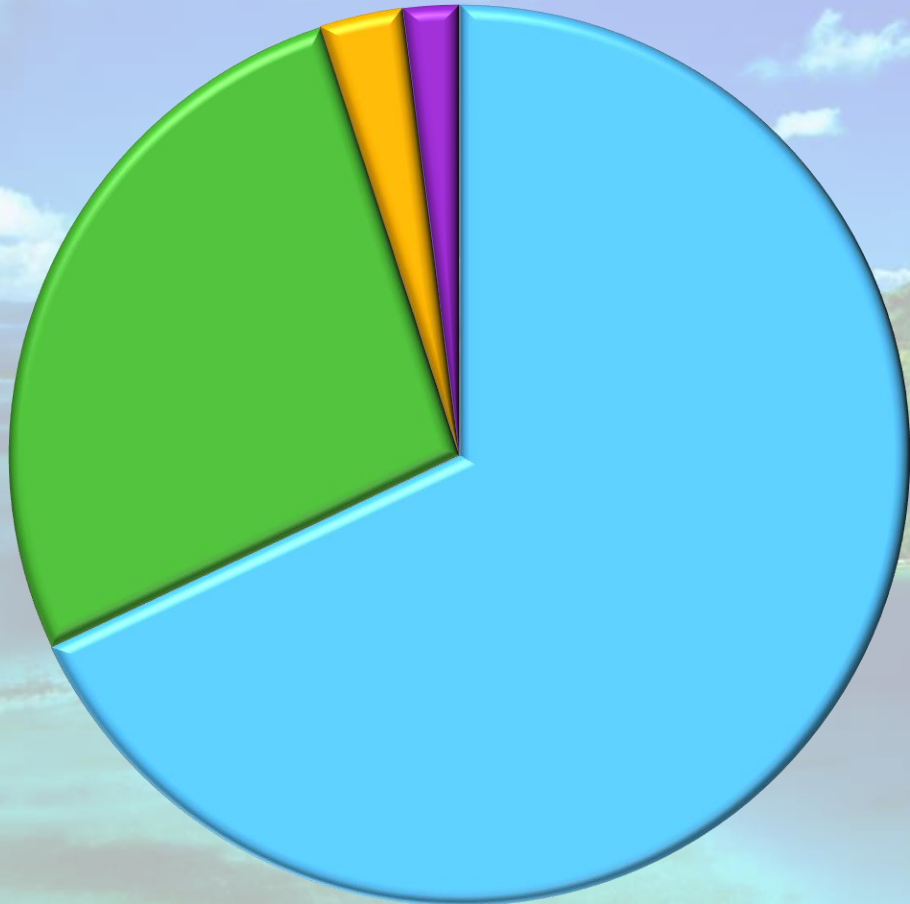


Key Facts

- Size of land: 2,040 Sq Km
- Size of ocean: 1.9 Million Sq Km
- Size of population: 1.3 Million
- Political system: Democracy with free and fair elections held every 5 years
- Legal system: Common and Civil Law
- Official Language: English
- Literacy rate: 93% (2017)
- GDP per capita: USD 9,700 (2017)
- GDP growth: 3.7% (2017)
- Inflation rate: 3.7% (2017)
- Unemployment rate: 6.9% (2017)
- Repo rate: 3.50% (2018)
- Moody's Investors Service: BAA1 (2018)

Demographics

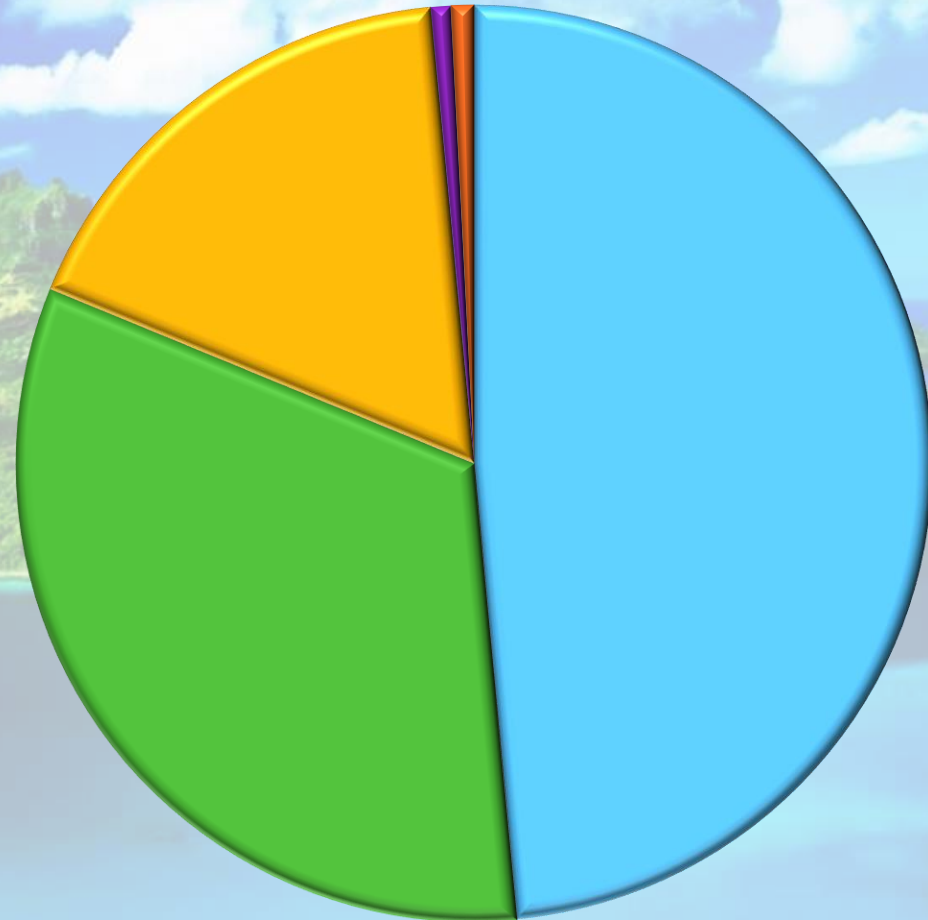
Ethnic Groups



- Indian
- African
- Chinese
- European

Population growth rate: 0.8%
Infant mortality rate: 1.2%
Life expectancy: 71 years (Male) 78 years (Female)

Religions



- Hinduism
- Christianity
- Islam
- Other
- None

Population less than 15 years: 22%
Population between 15 and 65 years: 71%
Population more than 65 years: 7%
Sex ratio: 1:1

2. Road Networks and Traffic Congestion

- Island network of roads
- All road intersections at grade
- Responsibility of RDA and Local Authorities
- Fleet of vehicles exceeding 500,000 (>200,000 autocycles/motorcycles)
- Heavy congestion at major intersections at peak times.



3. Road Development Authority

- **The Road Development Authority (RDA)**

- The RDA is a state owned organization set up in 1998 under aegis of the Ministry of Public Infrastructure and Land Transport
- The RDA develops, preserves and maintains motorways and main roads
- The RDA is made up of the Technical, Finance and Administration Departments.
- The Technical Department consists of:
 - Development Division
 - Planning Division
 - Project Implementation Division
 - Maintenance Division



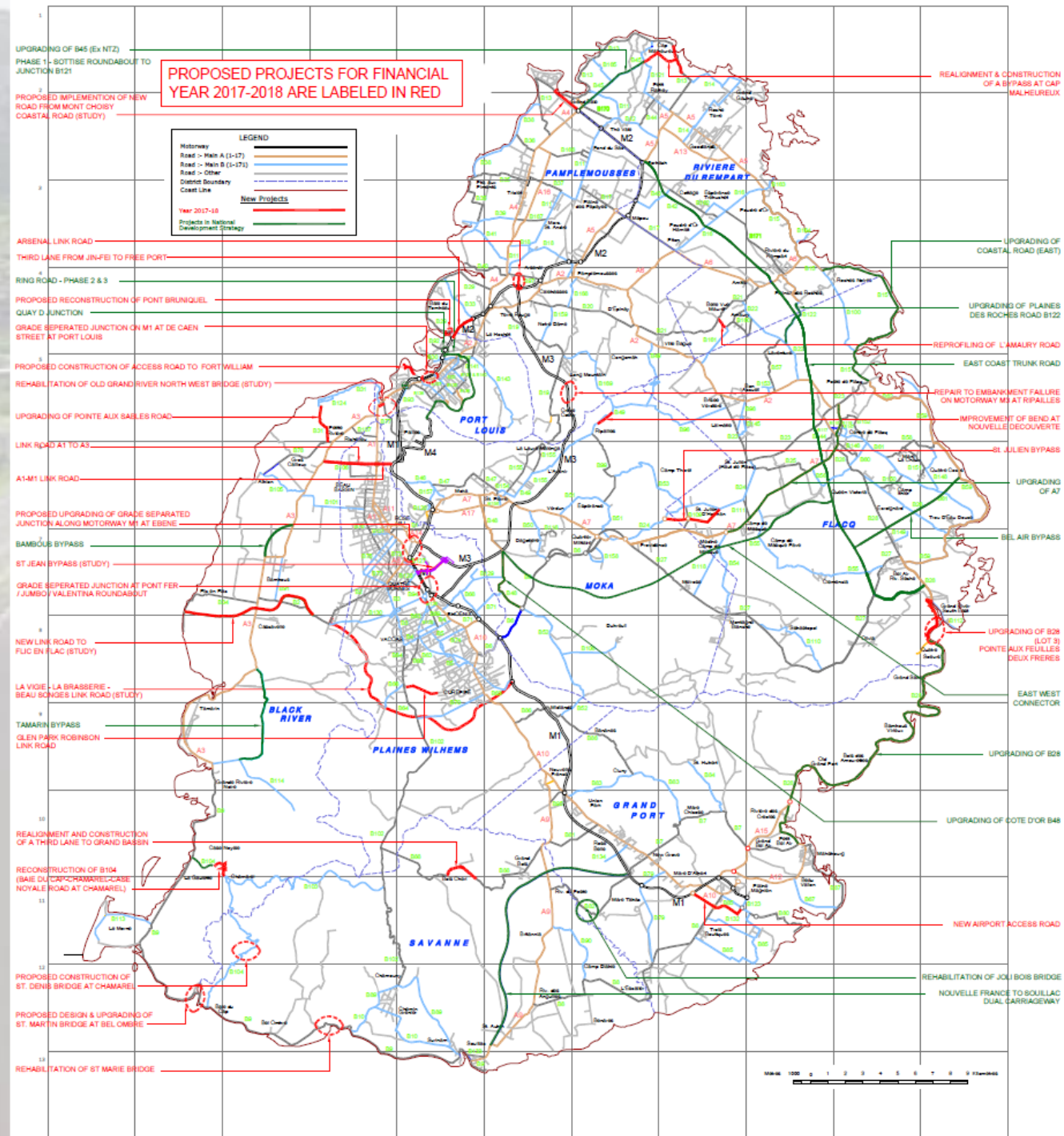
RDA Road Network

Length of A Roads: 235 Km

Length of B Roads: 905 Km

Length of Motorway: 105 Km

Total Length: 1245 Km



RDA Other Objectives

An aerial photograph of a modern, multi-lane highway with a central median and guardrails, curving through a lush green valley. In the background, there are rolling hills and mountains under a cloudy sky. The image is semi-transparent, allowing the text to be overlaid.

- > To reduce costly traffic congestion
- > To sustain economic growth of Mauritius by expanding road infrastructure to new areas of development
- > To support social development with upgrading or extension of existing road networks



4. Road Decongestion Program (RDP)

Road Decongestion Program (RDP)

- **Government identified need for RDP and gave full support for implementation**
- **Bypasses around busy villages and towns.**
- **Constructions of new overhead bypasses for better traffic fluidity**
- **Improved pedestrian safety**
- **To alleviate congestion along Main Road Corridor linking Curepipe to Capital City of Port Louis**
- **3 components of RDP identified**
 - i) **A1-M1 Link Road**
 - ii) **Grade Separated Junctions at Pont Fer/Jumbo Dowlut**
 - iii) **Port Louis Ring Road including tunnel**



5. World Road Congress in Seoul, November 2015

World Road Congress in Seoul, November 2015

- **Ministerial Delegation attended World Road Congress**
- **Contacts established at Ministerial level.**
- **KEC visits to Mauritius in November-December 2015 and March 2016**
- **KEC Final Mission Report – April 2016**



6. MOU RDA-KEC and G2G Agreement

MOU RDA-KEC and G2G Agreement

- **Signature of MOU between RDA and KEC on 05 April 2016 to promote technical and institutional knowledge exchange in the field of road and transport.**
- **G2G Agreement and Government decision to award contract for consultancy services for Phase I of RDP to KEC**
- **KEC and other consulting engineering firms Cheil Engineering Co Ltd and Kyongdong Engineering Co Ltd to provide FEED proposals and tender documentation.**
- **Under present arrangements, KEC is assisting RDA and MPILT in consultancy works at Traffic Modelling Unit (TMRSU) and TRV rehabilitation project.**

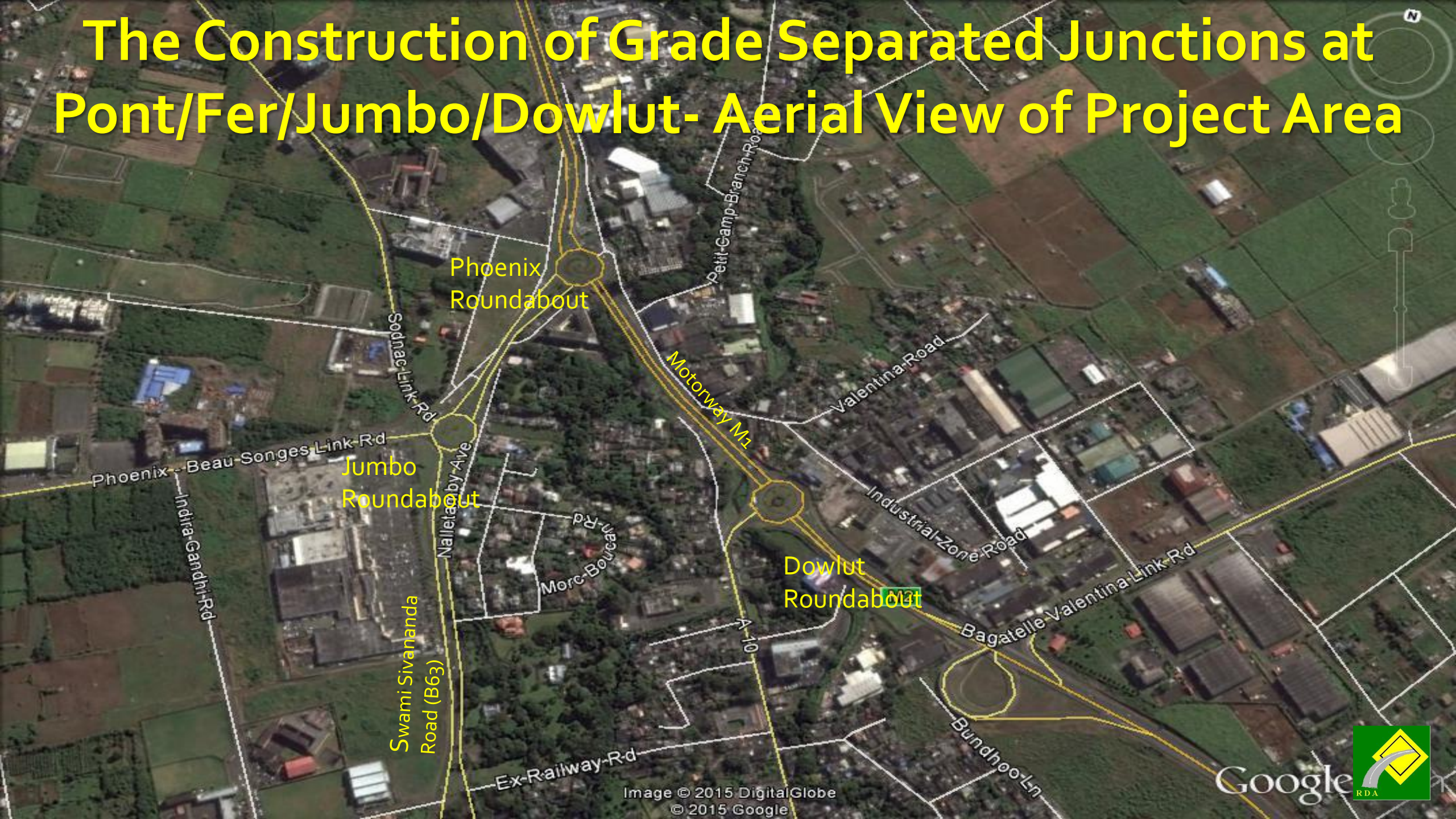




7. Road Decongestion Program:

A. The Construction of Grade Separated Junctions at Pont Fer/Jumbo/Dowlut

The Construction of Grade Separated Junctions at Pont/Fer/Jumbo/Dowlut- Aerial View of Project Area



Phoenix Roundabout

Jumbo Roundabout

Dowlut Roundabout

Motorway M2

Sotnac-Link-Rd

Phoenix-Beau-Songes Link-Rd

Indra Gandhi Rd

Swami Sivananda Road (B63)

Nalleby Ave

Morc-Bourgn-Rd

Petit-Camp-Branch-Road

Valentina Road

Industrial-Zone Road

Bagatelle-Valentina-Link-Rd

Bundhoo-Ln

Ex-Railway-Rd

Image © 2015 DigitalGlobe
© 2015 Google

Google



CONGESTION AT PONT FER ROUNDABOUT



THE CONSTRUCTION OF GRADE SEPARATED JUNCTIONS AT PONT FER/JUMBO/DOWLUT

Implementation Schedule

April 2018 – November 2020

Engineer

Korea Expressway Corporation

Contractor

Transinvest-GCC-Bouygues TP-VSLi JV Ltd

Cost USD 42 Million

Progress 7 %



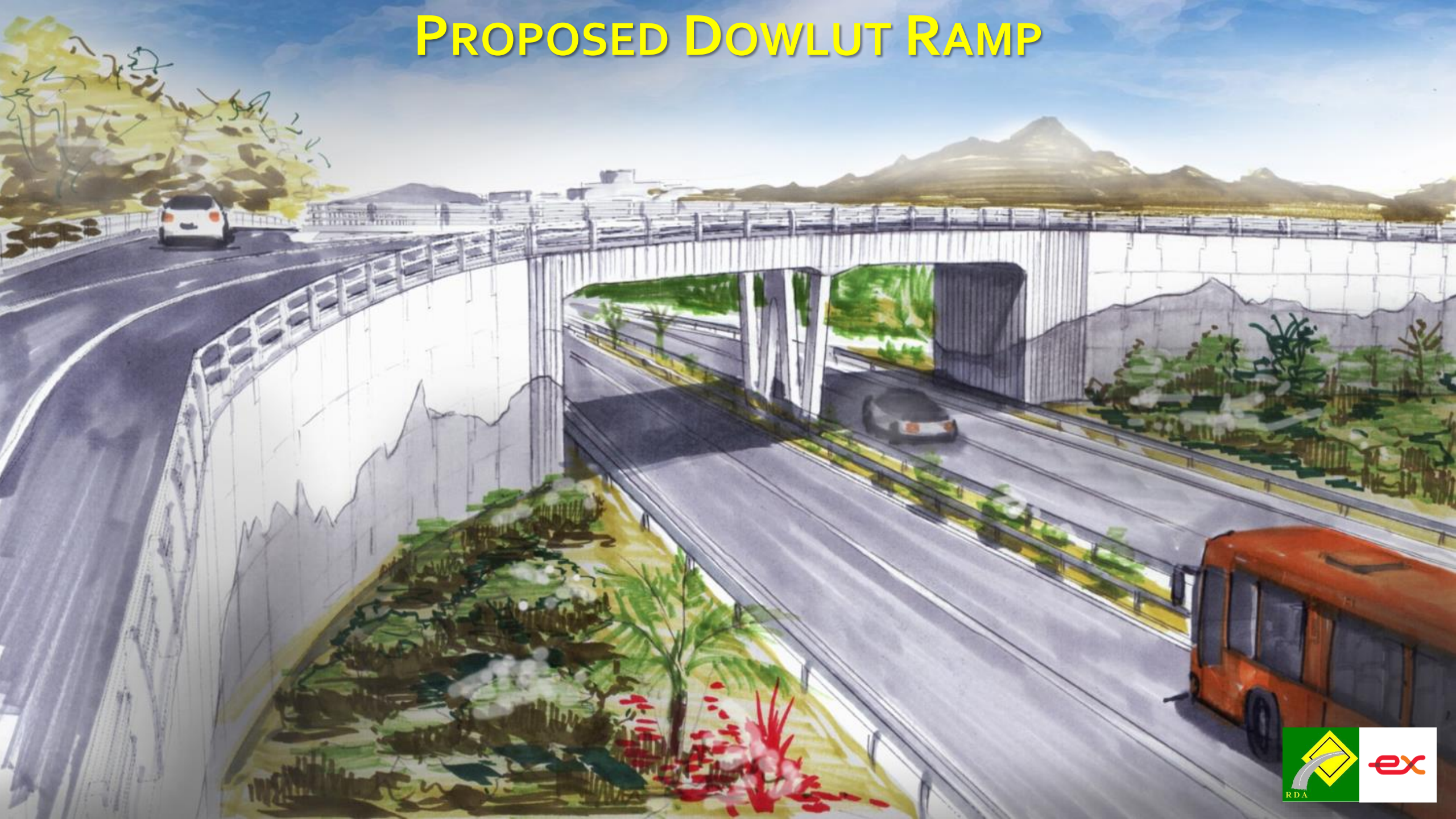
PROPOSED PONT FER FLYOVER



PROPOSED JUMBO FLYOVER



PROPOSED DOWLUT RAMP

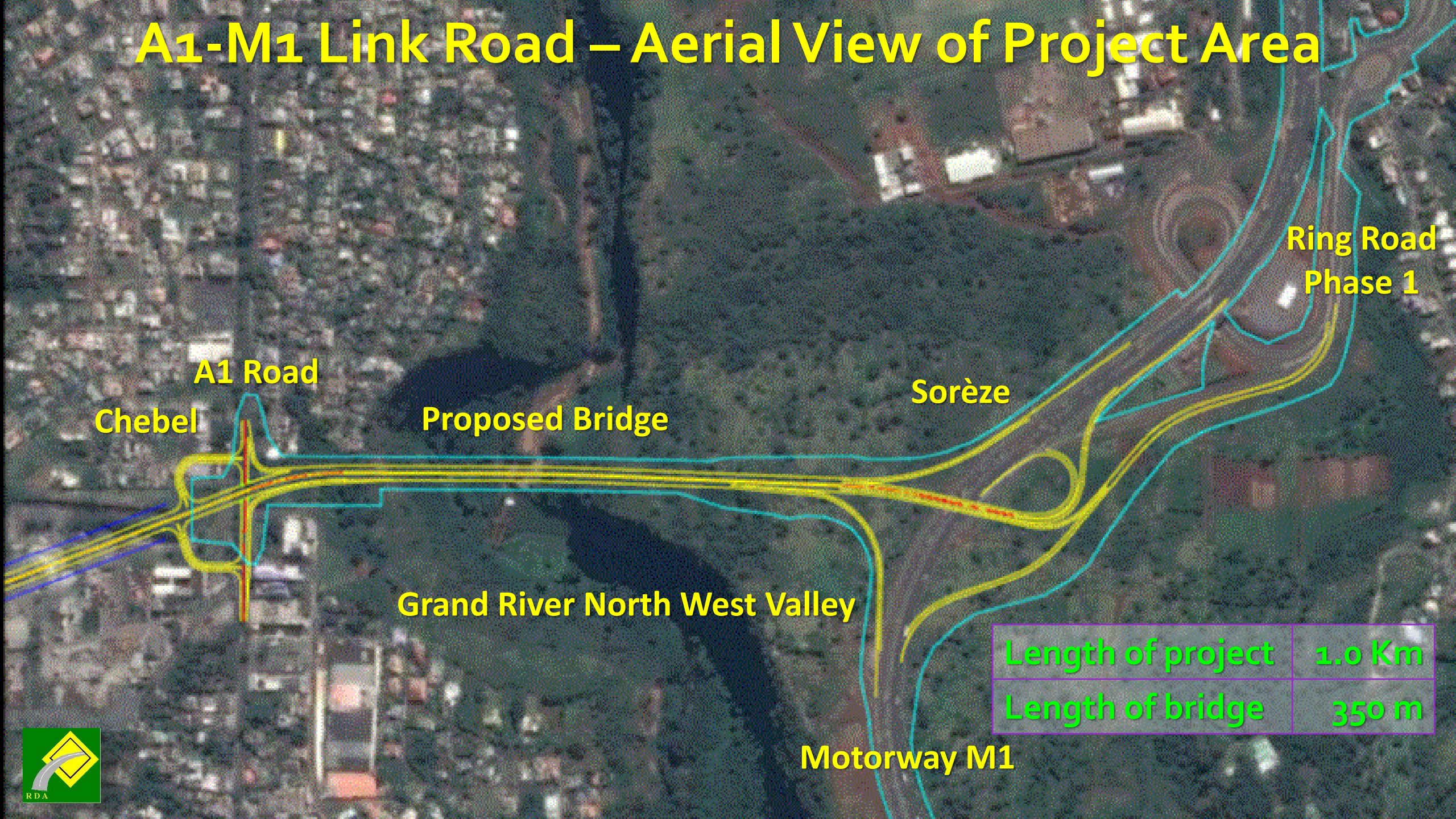




7. Road Decongestion Program:

B. A1-M1 Link Road

A1-M1 Link Road – Aerial View of Project Area



A1 Road
Chebel

Proposed Bridge

Sorèze

Ring Road
Phase 1

Grand River North West Valley

Motorway M1

Length of project	1.0 Km
Length of bridge	350 m

A1-M1 Link Road

Implementation Schedule

April 2018 – November 2020

Engineer

Korea Expressway Corporation

Contractor

Transinvest-GCC-Bouygues TP-VSLi JV Ltd

Cost USD 72 Million

Progress 7 %

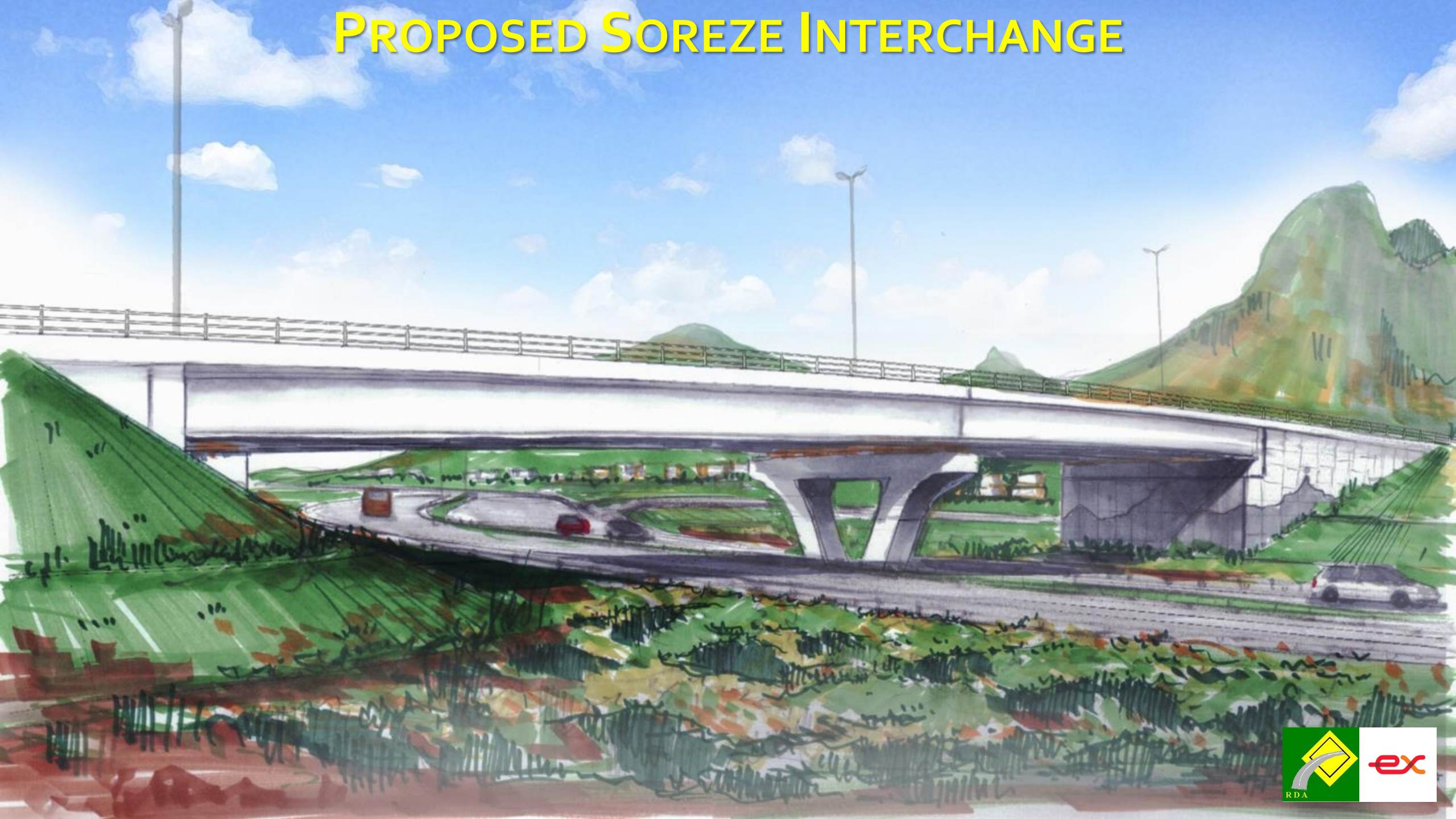
PROPOSED A1-M1 BRIDGE



PROPOSED CHEBEL FLYOVER



PROPOSED SOREZE INTERCHANGE



8. Metro Express Project

The background of the slide is a vibrant blue, futuristic tunnel. The walls and ceiling are composed of a grid of small, glowing blue squares, creating a mesh-like texture. The floor is dark blue with several curved, metallic-looking tracks or paths that lead towards a bright, glowing light source at the end of the tunnel. The overall atmosphere is one of speed and modern technology.

Metro Express

an integrated Light Rail Transit system for quick, economical and comfortable commute.

- Route: Curepipe to Port Louis
- Length: 26 Km
- Estimated travel time: 41 minutes
- Speed: 35-80 Km/h
- 19 stations, including 2 elevated stations
- 4 bus interchanges
- Includes the construction of major viaducts and bridges
- The RDA is managing Metro/Road Network interfaces
- Phase I of Project between Rose Hill and Capital City Port Louis is scheduled for commissioning in September 2019



9. Other Areas of Future Cooperation Opportunities
RDP Phase II - Port Louis Ring Road including tunnel

Proposed Port Louis Ring Road



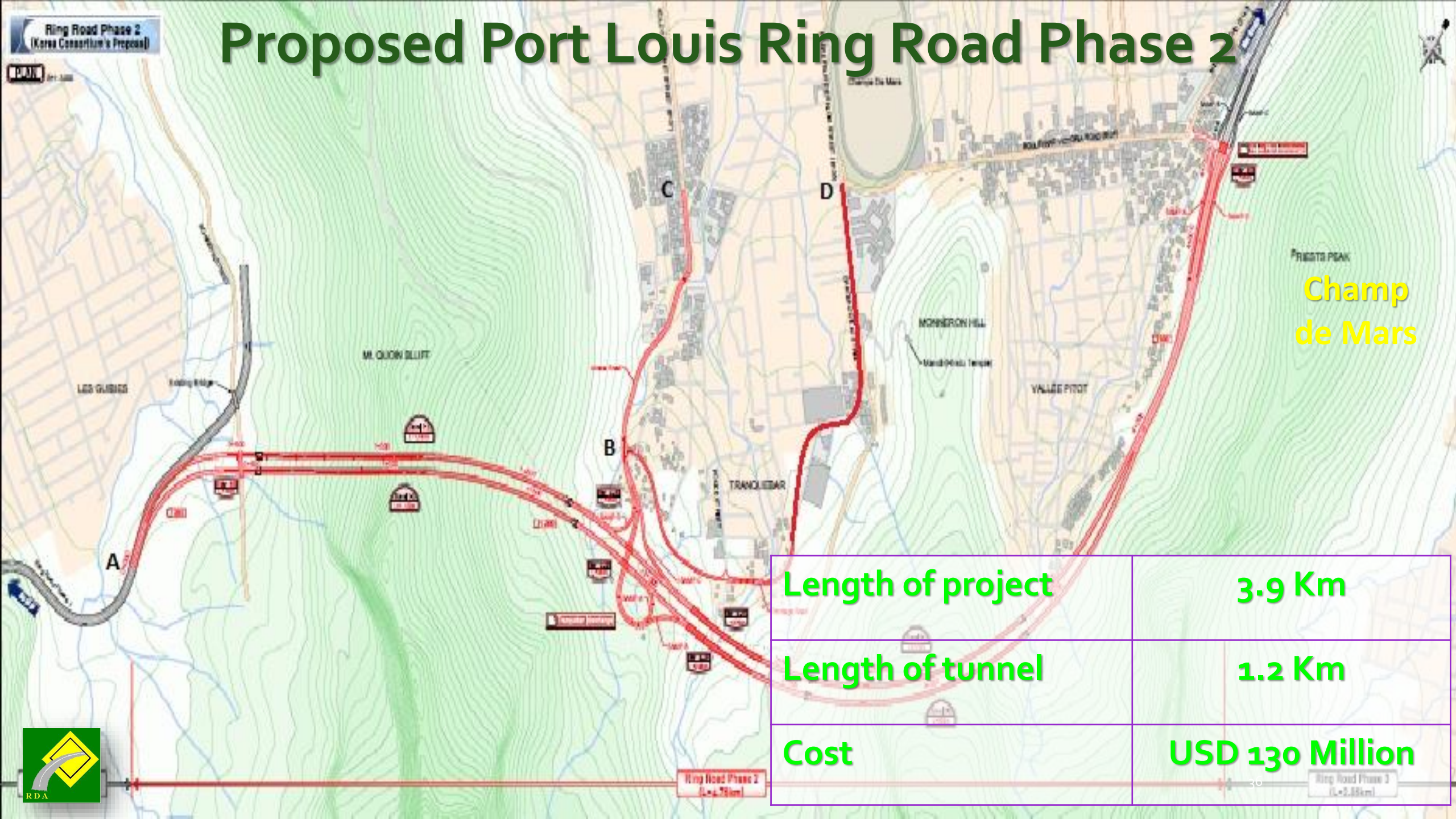
Ring Road 3

Ring Road 2

Ring Road 1



Proposed Port Louis Ring Road Phase 2



Length of project	3.9 Km
Length of tunnel	1.2 Km
Cost	USD 130 Million



Ring Road Phase 2
(L=3.9km)

Ring Road Phase 3
(L=3.88km)

Proposed Port Louis Ring Road Phase 2



Proposed Port Louis Ring Road Phase 2



Proposed Port Louis Ring Road Phase 3



Port Area

Military Road

Quay D R/A

Nicheloy Road

Pamplermousses Street

Priests Peak

M1

Ring Road 3
Victoria Boulevard

Ring Road 3
Vallee Pitot

Boulevard Victoria

Length of project 4.7 Km

Ring Road 2



Proposed Port Louis Ring Road Phase 3





9. Other Areas of Future Cooperation Opportunities

Implementation of Intelligent Transport System (ITS)



9. Other Areas of Future Cooperation Opportunities

Establishment of State of the Art Materials Laboratory



9. Other Areas of Future Cooperation Opportunities

Establishment of proper R&D department within RDA

A scenic view of a pond with large lily pads in a lush forest. The pond is filled with numerous large, round, green lily pads with prominent veins. The water is calm, reflecting the surrounding greenery. The forest is dense with tall, slender trees and thick foliage, creating a serene and natural atmosphere. The sky is bright blue with scattered white clouds. The overall scene is peaceful and beautiful.

감사합니다