1Malaysia Community Alliance Foundation

(1MCA Foundation)

Crisis Relief Squad of MCA (CRSM)

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Overview

- The climate is warm and humid throughout the year and it is a physically blessed country which does not experience drastic weather changes or natural calamities.

Types of Flooding

- Flash Flooding (localise and short duration)
- Monsoonal Flooding (widespread and long duration)
- Flooding caused by tsunami (an isolated case)

FOR TWOPLE

Effect of Tsunami in Kuala Kedah, Dec 2004

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Kota Tinggi, Jan 2007

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2011 southern Malaysia Flood

KUNDANG ULU

KUNDANG ULU

2012 southern Malaysia Flood

LENGA

LENGA

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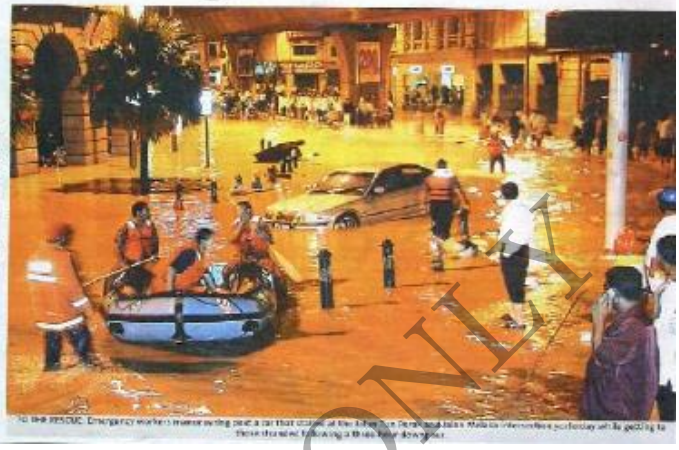
KL hit by floods

Three-hour downpour causes havoc in city



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Flash Flood KL City Center 2012

1MCAF Vision & Mission

Vision

Service for the people, by the people: To fulfill the 1Malaysia spirit of serving the nation and the people

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1MCAF Vision & Mission

Mission

- To improve the quality of life and future well being of the poor and needy segment of society
- To provide timely, appropriate assistance and relief to the disaster victims
- To provide relevant manpower, material, medical, counseling and legal consultation to the general public

Role of 1MCA foundation

- 1MCA Foundation service scope can be divided into:
  - **Outreach Services**
    - Health Screening
    - Public Services & Complaints
    - Consultation & Application
    - Public Awareness
  - **Crisis Relief**
    - Action Relief
    - Recruitment &Training

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Role of 1MCA foundation

- **Health Screening**: Serviced by qualified doctors, paramedics, first aides and trained volunteers will provide immediate medical support and free health screening to the public.
- **Public Services & Complaint**: To receive public complaints, which are currently managed by Ministries/Members of Parliament/ State Assemblymen/ District Councillors/Local Councillors, and refer to the related Ministries.
- **Consultation & Application**: To help the underprivileged; i.e. poor, single parent families, women and children by giving them counseling and assisting them to apply for the related subsidies/assistance.
- **Public Awareness**: To increase public awareness on general issues and local issues through seminars, flyers and other publicity materials

Role of 1MCA foundation

- **Action Relief**: To provide relevant manpower, material, medical, counseling and legal support by setting up a Crisis Response Team for immediate crisis intervention during emergency and disaster.
- **Recruitment &Training**: To establish an efficient recruitment system to enroll or admit more public to take part, and to strategize, plan and organize various relevant services and training suitable to the needs of society.

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Brief Introduction of Crisis Relief Squad of MCA (CRSM)

Establishment: CRSM was established in April 2005 under the Malaysian Chinese Association (MCA).

Reasons Leading to the Establishment of CRSM

- Unexpected strike of the Asian tsunami in 2004;
- MCA has a great number of members spreading all over the country;
- Active involvement of members in local communities;
- Strong rapport with government agencies & other voluntary NGOs.

Brief Introduction of Crisis Relief Squad of MCA (CRSM)

- **Objective:** To provide humanitarian services to the survivors of natural disasters.
- **Mission:** To provide timely, appropriate relief and assistance.

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CRSM's Experiences in Major Flood Relief

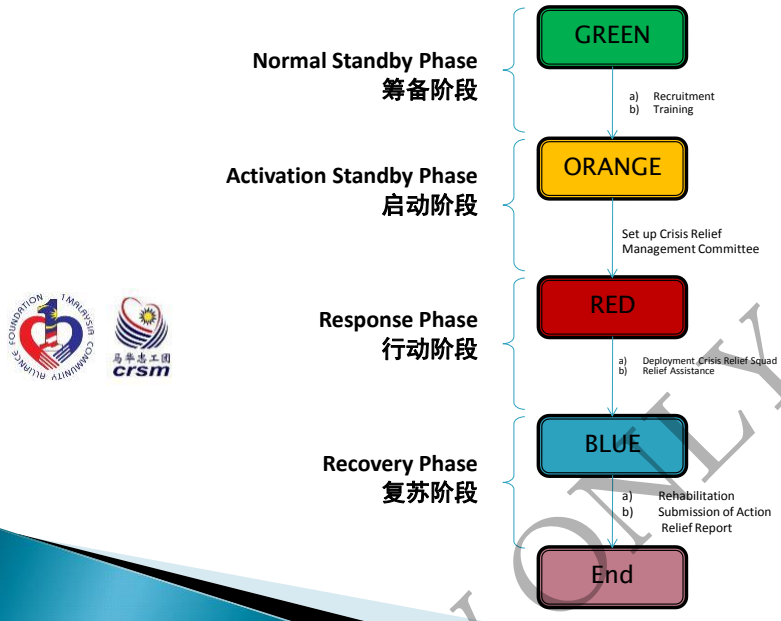
a. 2005 Northern Malaysia Flood:
First CRSM on site involvement in flood relief.

b. 2006 Shah Alam, State of Selangor Flood:

c. 2007 Southern Malaysia Flood:
Worst flash flood ever
hit State of Malacca & Johore.

d. 2011 southern Malaysia Flood:
During Chinese New Year Period

Readiness



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GREEN

Normal Standby Phrase

- Non-disaster period
- Crisis Relief Squad actively involved in the recruitment and training of volunteers

绿色警戒期：筹备阶段

- 非灾难期间，赈灾队积极从事志工招募和培训工作；
- 保持警惕，时时关注有关灾难的报告/新闻。

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ORANGE

Activation Standby Phrase

- If there is a possibility that a major incident will occur, Crisis Relief Squad will get ready
- Formation of a local Crisis Relief Management Committee

橙色警戒期：启动阶段

- 若预测可能发生灾难，赈灾队应准备就绪及拟定赈济行动方案。
- 设立当地赈济行动委员会。

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RED

Response Phrase

- Crisis Relief Squad is deployed to the incident area/ involvement with relief work.

红色警戒：行动阶段

- 灾难发生后/期间，赈灾队将到灾区参与赈济工作。
- 向基金会报告灾区近况以及赈济行动的进展。
- 和基金会保持联系，必要时可向基金会要求援助。

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BLUE

Recovery Phrase

- Help in cleaning the affected areas
- Repair of public utilities

复苏阶段

- 协助清理灾区，如学校、住宅区等。
- 提呈赈济行动报告。

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CRSM's Role in Flood Relief

A. Early Stage :

a. **Conduct survey & first hand information** of site condition. Periodical progress reports on site situation to CRSM HQ.

b. **Alert residents** of low laying areas to prepare for evacuation.

c. Set up localised **crisis relief operation centre**.

d. **Preparation of tools & equipments** such as boats & safety jackets etc.

CBDM

Video

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CRSM's Role in Flood Relief

B. During Crisis:

a. To **provide manpower in helping** the official rescue teams & agencies to evacuate flood victims.

b. To **complement the official rescue agencies** in providing food & supplies in isolated areas that might be overlooked by official rescue team.

CRSM's Role in Flood Relief

c. To provide CRSM **voluntary workers** at evacuation centres.

d. Distribution of appropriate quantity of **food & supplies** to the respective evacuation centres & isolated areas.

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Disaster Portal

- Developed for the National Security Council of Malaysia,this portal is an informational and warning center of current data on occuring disasters in Malaysia. News, warnings, information and activities on various types of disaster can be accessed here.

MKN Portal

FOR TW ONLY

Portal MKN

National Security Department

1. http://portalbanjir.mkn.gov.my/

2. http://portalbencana.mkn.gov.my/

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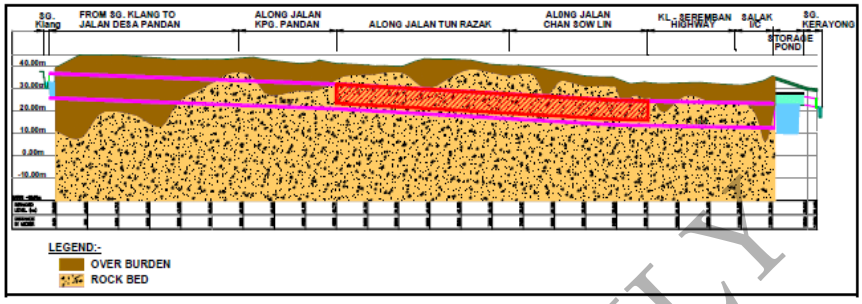
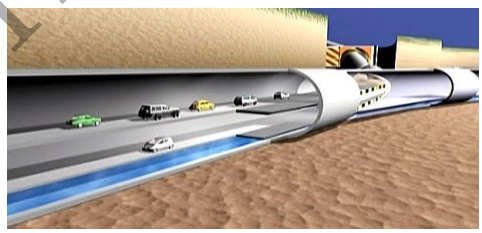
www.smarttunnel.com.my

Geological Profile



SMART Tunnel



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CRSM's Role in Flood Relief

C. Post Disaster:

a. To help **register losses suffered by flood victims**. Assist them in getting aids both from government & private sectors.

b. To offer **post crisis site cleaning** to public amenities & residence of flood victims.

c. To **organise large scale commu cleaning up programme**. Impro health condition in post disaster areas.

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Fundraising Campaigns

a. Earthquakes in Sichuan, China (2008)
b. Cyclone Nargis, Myanmar (2008)
c. Typhoon Morakot, Taiwan (2009)
d. Typhoon Ketsan, the Philippines (2009)
e. Earthquakes in Padang, Indonesia (2009)

Advantages of 1MCA&CRSM

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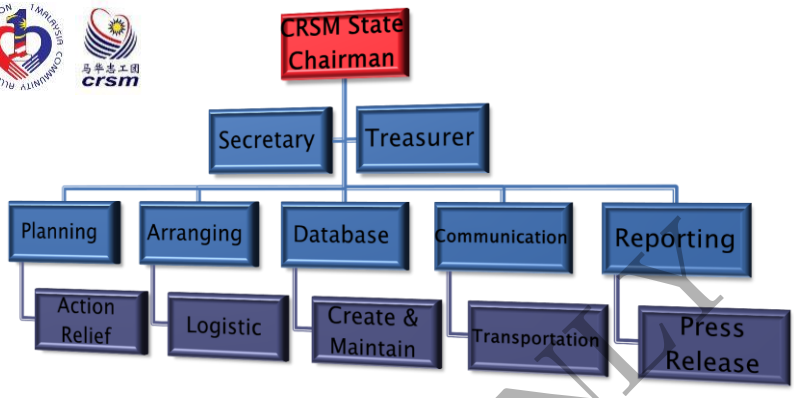
State Relief & Operation Center



Volunteer Management System (VMS)

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Introduction

- VMS is an online web application which would allow the Crisis Relief Squad of MCA (CRSM) **to manage volunteer, supply and crisis records.**
- The system, which allows CRSM to create, upload and modify volunteer and suppliers details. **SMSes will be sent to relevant members and suppliers to request for manpower and supplies**.
- **VMS can also be done via mobile phones** that can be used to do crisis reporting from anywhere. This would allow crises and disasters to be reported pervasively if compared to doing a report using a personal computer.
- With VMS, CRSM hopes to speed up the process of dispatching members during a crisis as well as store a well documented list of crisis reports, memberships and supplies so that disaster relief may **now be done efficiently and easily**.

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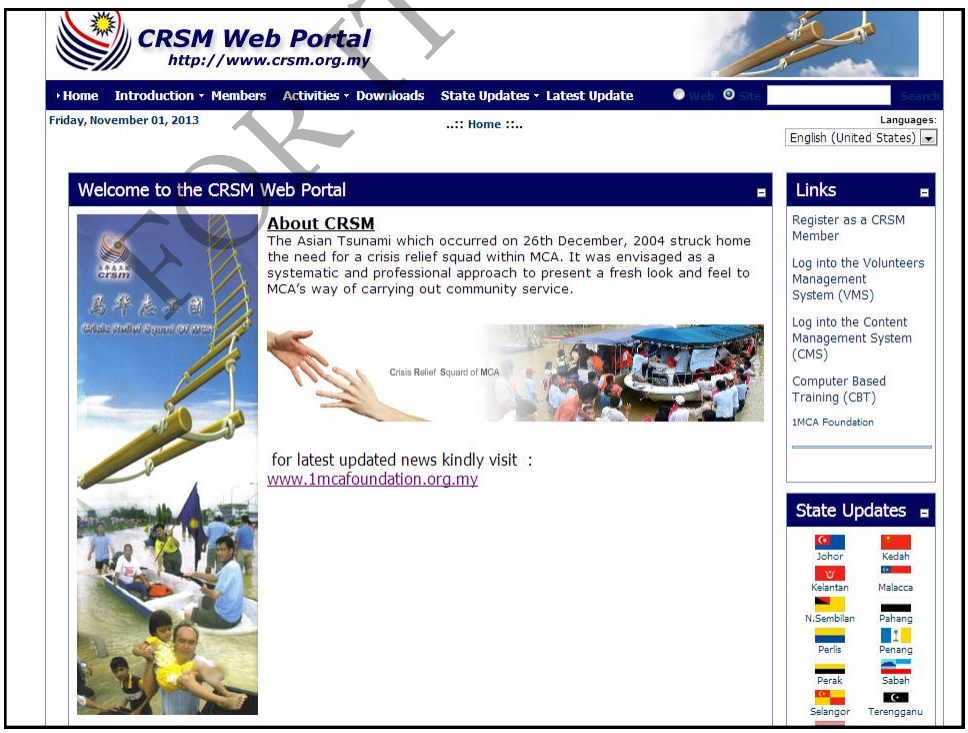

Objectives

The main objectives of the VMS are as follow:

- To allow **better management of volunteer records**
- To allow state leaders/national chiefs of CRSM **to perform crisis reporting** whenever a crisis/disaster strikes
- To create a more simpler and pervasive manner of **crisis reporting using the mobile** reporting module
- To allow a **paperless approach for record keeping and management**
- To provide better **organization of CRSM's crisis supplies** using Supply Chain Management

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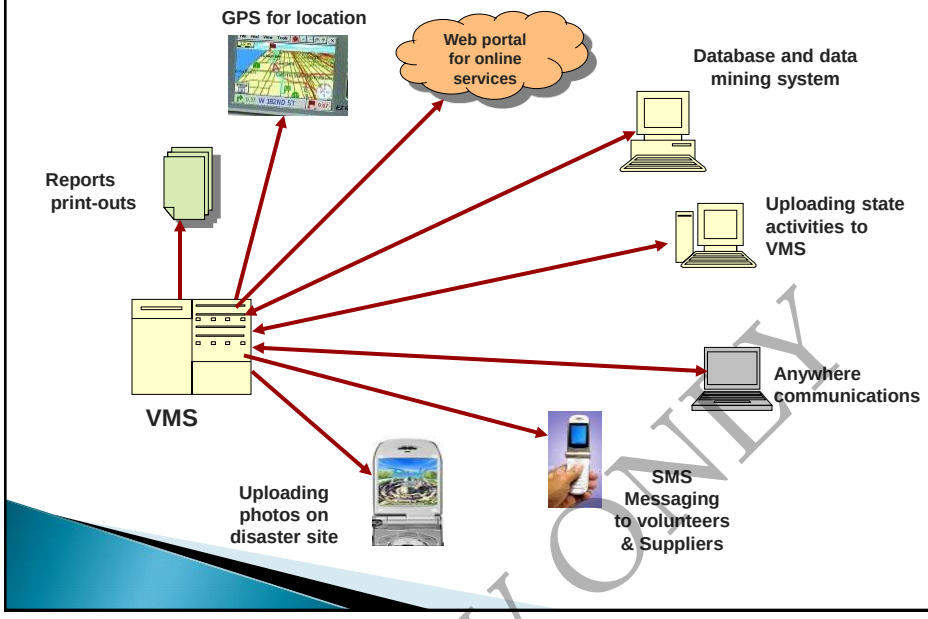
Main Feature

1. Volunteer Management
2. Crisis Management Report Disaster victims survey
3. Supplier Management
4. Bulk SMS
5. Stock Management (Phase 2)
6. Online Training (phase 2)

Functionalities of a Volunteers Management System



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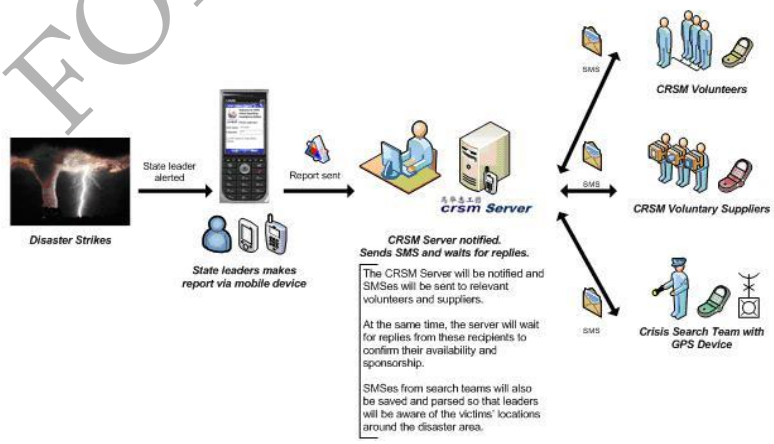
CRSM Mobile Model for Disaster Management Diagram (Flow diagram)



Future Plan

- The VMS system could also **send crisis details and information to other NGOs or government agencies** through the pervasive and ubiquitous framework.
- This could help increase the **focus on a disaster stuck area** by providing what CRSM knows regarding the crisis.
- On the opposite end, the NGOs and government agencies could also send details back to the VMS. With **such information sharing** available, every involved party could coordinate to provide the relevant help to victims.
- In order to do this, technical discussions must firstly be made to ensure that the systems can communicate and coordinate the relevant information to each other.

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Summary

- As a NGO which is involved in Disaster Crisis Management, we are aware that **our stand** and role is to provide **Crisis Relief** only, and not Rescue Services
- **Proper training** will help our members to understand and know their role in Crisis Relief
- Building **strong relationships** with Government Agencies and NGOs is very important in order to allows us to react quickly and effectively in response to an incident.
- Though we might not know when or where the next disaster will strike, we will **be prepared** for it before it occurs

We uphold the virtues and righteousness of mankind!

Thank You.

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What is SMART?

- SMART is an acronym for Stormwater Management and Road Tunnel
- A project under the **Federal Government** initiated to alleviate the flooding problem in the city centre of Kuala Lumpur.
- The project is implemented through a joint venture pact between **MMC Berhad** and **Gamuda Berhad** with the **Department of Irrigation And Drainage Malaysia** and the **Malaysian Highway Authority** as the executing government agencies.

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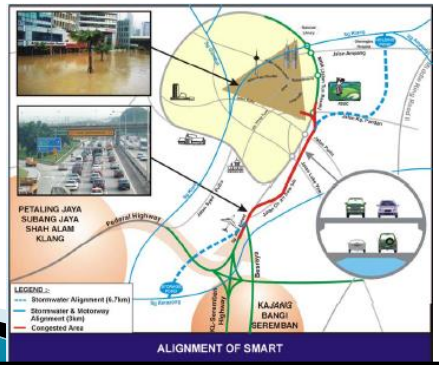
Why?

- **In April and October of 2001, and again in June 2003, massive floods in Kuala Lumpur caused serious damage.**
- **It was apparent that the rivers flowing through the city were unable to hold the water and space constraints did not permit river improvement work.**



Overview

- A test on 29 January 2007.
- First multi-functioning tunnel in the world.
- Located 20 m below city
- Use of biggest TBM
- Use of special TBM for soft grounds
- Built pre-cast slabs for highways
- Total cost approximately $514 million.

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www.smarttunnel.com.my

Overview

- The motorway tunnel is suitable for **light vehicles** only (< 2.0m height). **No motorcycles and heavy vehicles.**
- **Unidirectional traffic flow** – reduce accident risk
- 2 traffic lanes and 1 emergency lane – expedite emergency response

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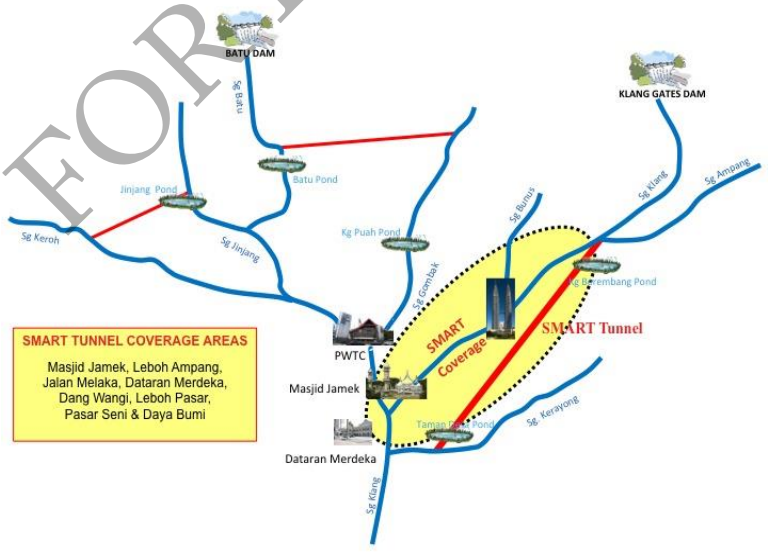
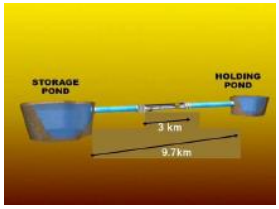
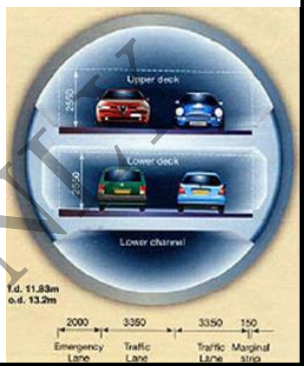


Technical Specifications



- **Stormwater Tunnel:**
  - **Stormwater tunnel length:** 9.7 km **Diameter:** 13.2 m (outer diameter)
  - **Tunnelling method:** Tunnel Boring Machine (TBM)
  - **TBM type:** Slurry shield
- **Motorway Tunnel:**
  - **Motorway tunnel length:** 4 km
  - **Structure type:** Double Deck



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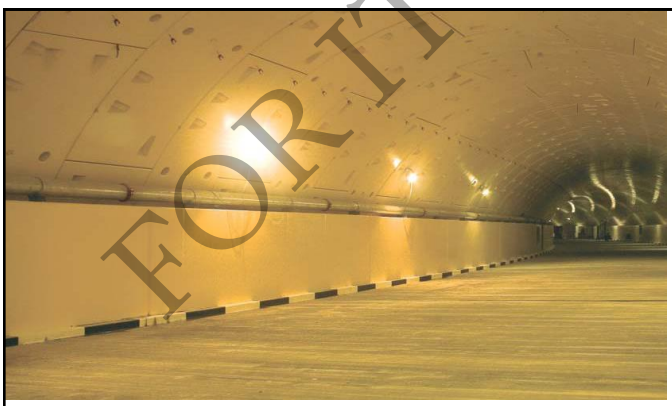

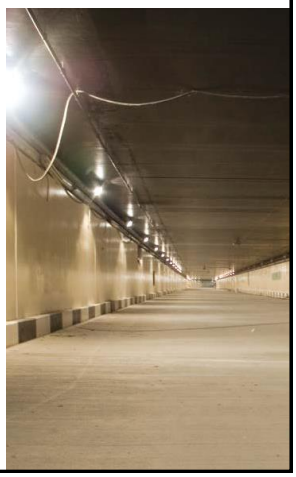

Geological Profile

- Kuala Lumpur city is sitting on Karstic limestone geology with high ground water table.
- The special features of Karstic limestone include cliffs, pinnacles, cavities, collapsed cavities and sinkholes.
- Overlying these Karstic limestones is loose alluvium from previous tin mining activities.
- Due to the nature of the soil condition, much thought and planning was channeled towards the selection of a construction method that would have minimal negative impact on the geological condition of the soil.

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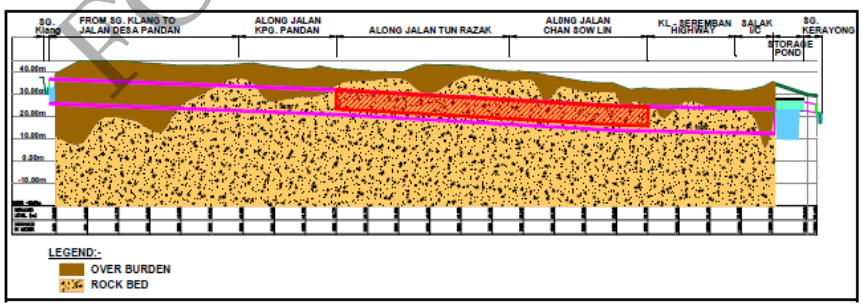
Geological Profile



How Does SMART Help?

- Main purpose to divert floodwaters and prevent spillover into communities near the Jalan Tun Perak Bridge.
- Reduces traffic congestion during rush hour.
- Motorists reduce travel times between Jalan Istana Interchange and Kampung Pandan from 15 min to 4 min.

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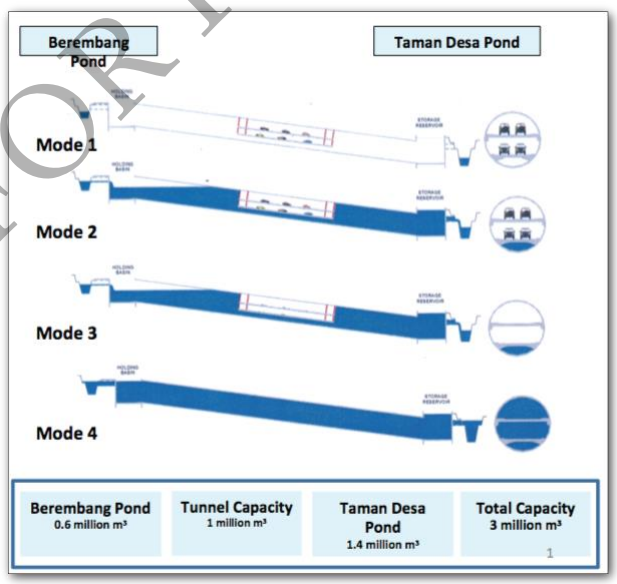

Operation

- **MODE 1**
- When weather is fair with little or no rain and traffoc is allowed in the tunnel
- **MODE 2**
- Activated when moderate rainfalls and the flow rate recorded at the confluence of upper Sg. Klang/Sg. Ampang (L4 flow station) is 70-150 m^3/s. Only 50 m^3/s is allowed to flow downstream
- Excess flood water will be diverted to SMART storages and only the lower drains of tunnel will be used to convey flood flow to the Desa attenuation pond
- Road tunnel will still be opened to traffic
- **MODE 3**
- Activated when major storm event occurs and flood model forecasts a flow rate of 150 m^3/s or more at L4
- Traffice will be evacuated from the road tunnel. This normally takes about one hour. Only 10 m^3/s is allowed to flow downstream
- If heavy rain storm stops early or due to some specific circumstances, then the traffic tunnel will not be flooded
- Road tunnel will be re-opened to traffic within 2-8 hours after closure
- **MODE 4**
- Activated if heavy rain storm prolongs, usually will be confirmed 1-2 hour after Mode 3 is declared
- Road tunnel will be used for passage of flood after traffic evacuation completed. Only 10 m^3/s is allowed to flow downstream
- Road tunnel will be re-opened within 4 days of closure

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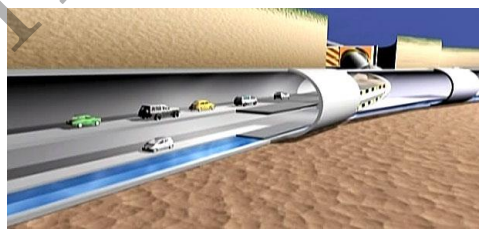
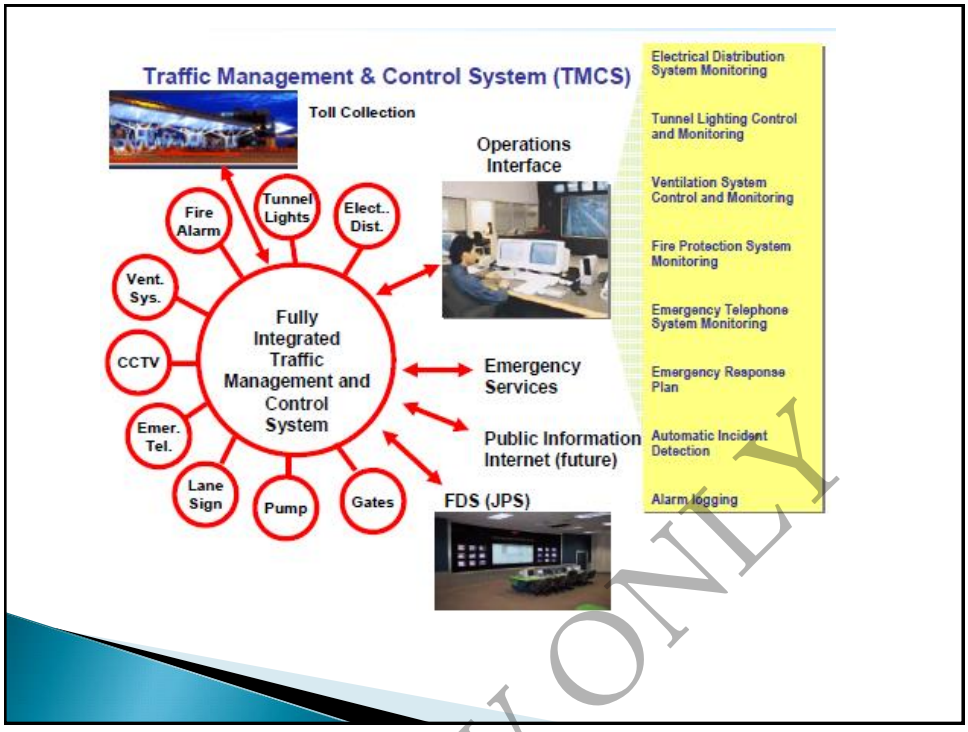
SMART Tunnel




Traffic Management & Control System (TMCS)
Toll Collection
Operations Interface
Fire Alarm
Tunnel Lights
Elect.. Dist.
Vent. Sys.
CCTV
Emer. Tel.
Lane Sign
Pump
Gates
Fully Integrated Traffic Management and Control System
Emergency Services
Public Information Internet (future)
FDS (JPS)
Electrical Distribution System Monitoring
Tunnel Lighting Control and Monitoring
Ventilation System Control and Monitoring
Fire Protection System Monitoring
Emergency Telephone System Monitoring
Emergency Response Plan
Automatic Incident Detection
Alarm logging

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