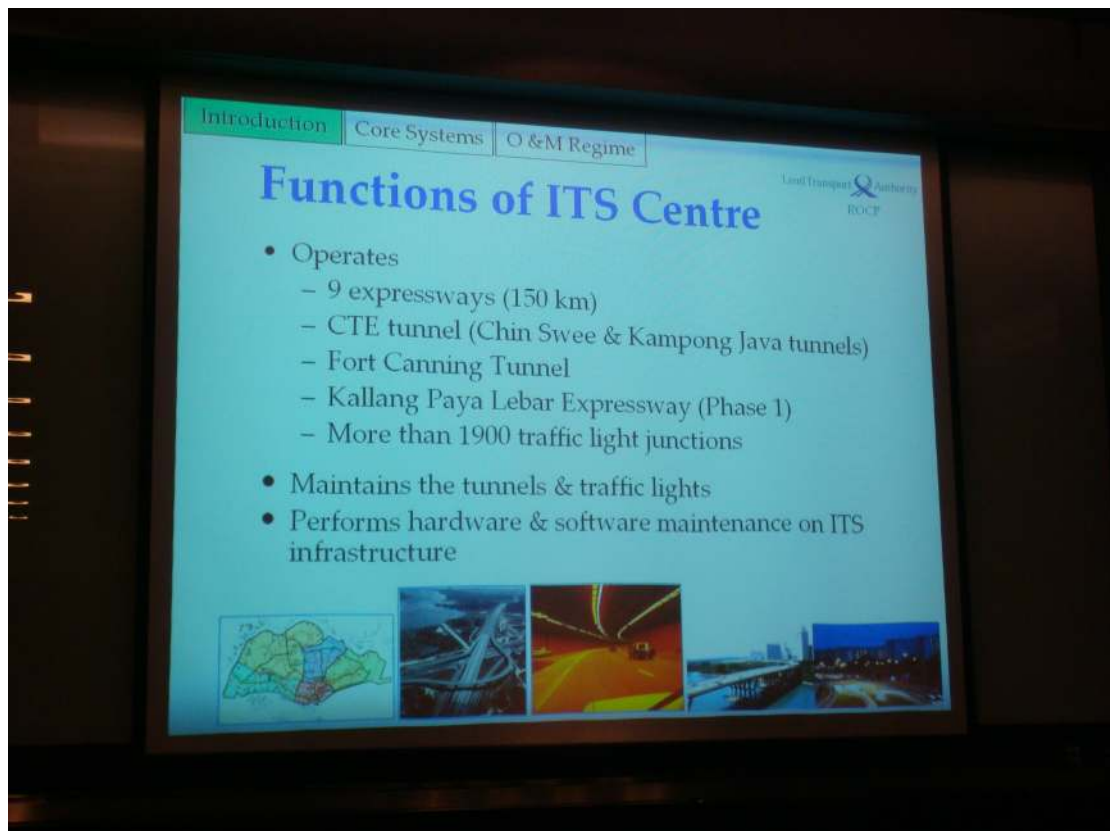
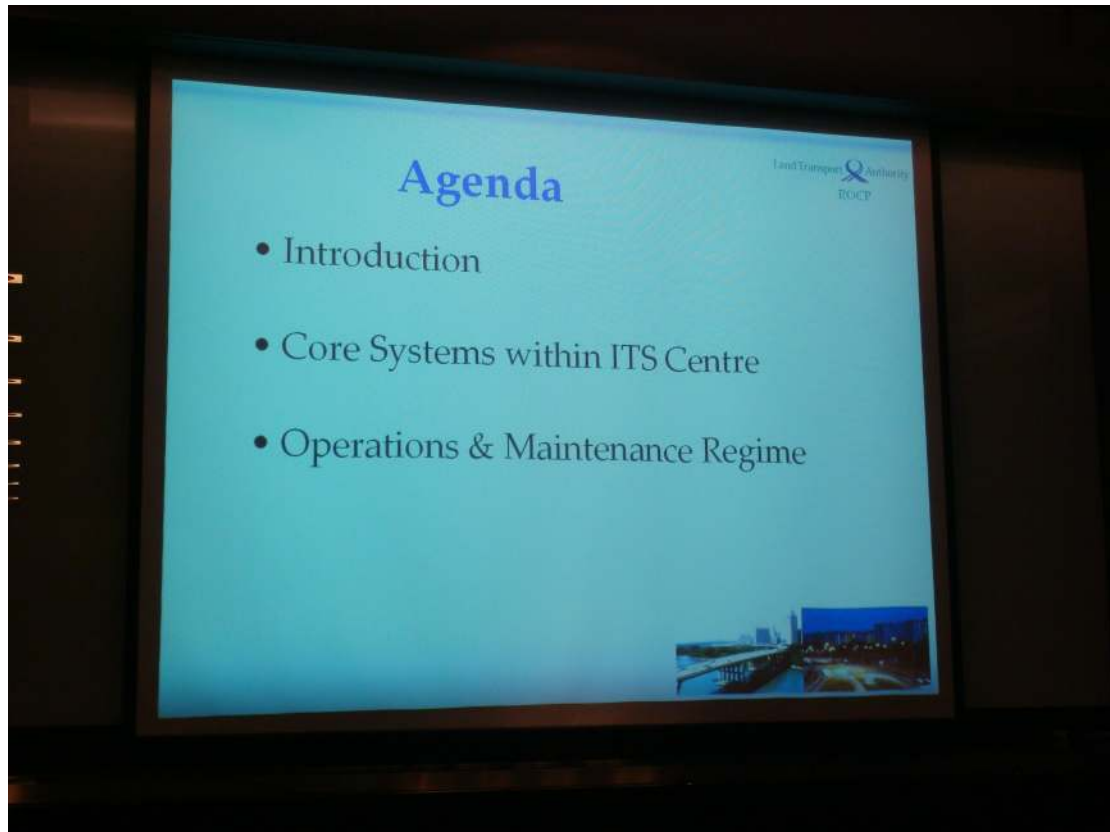
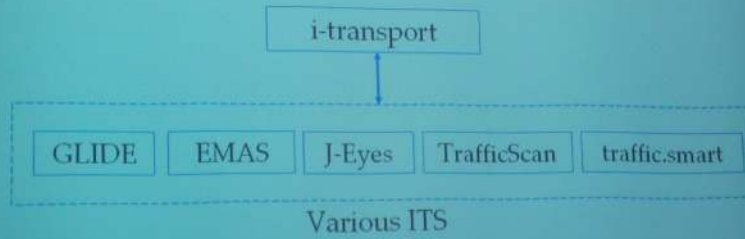


附錄 3.新加坡交控中心簡報



Functions of ITS Centre

- Operates 24 hours daily & manages traffic via the i-transport platform



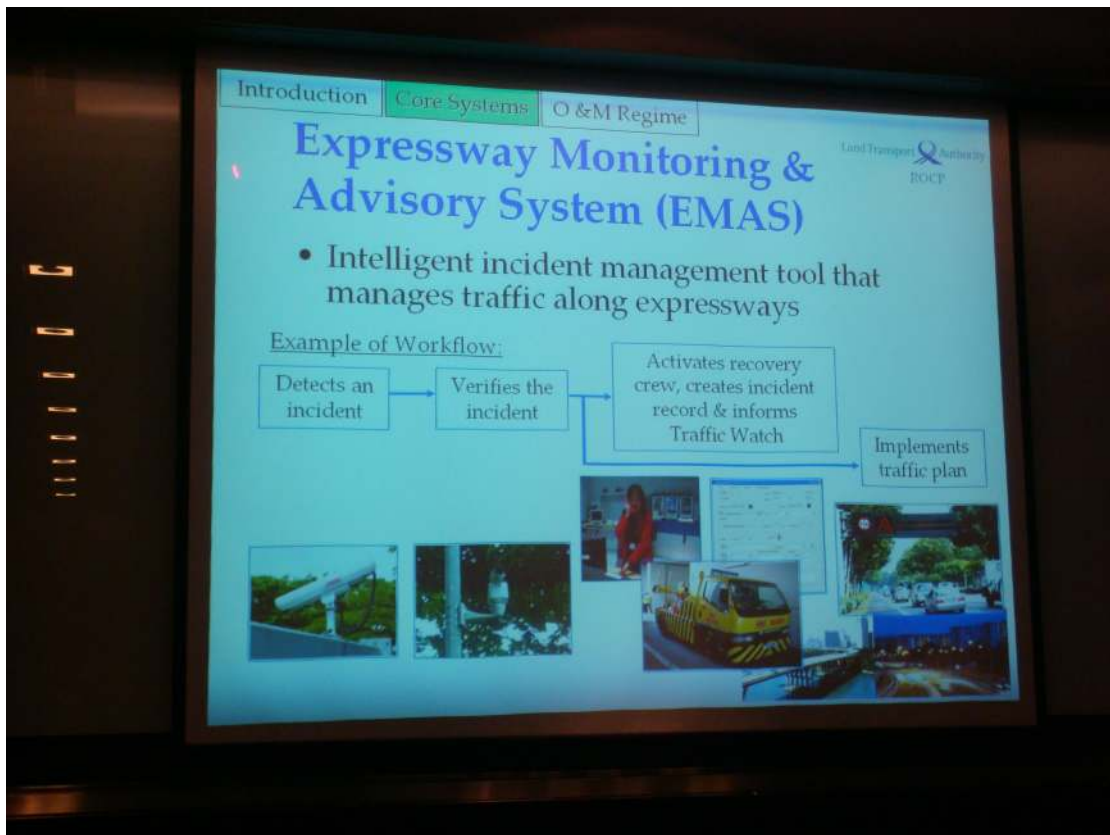
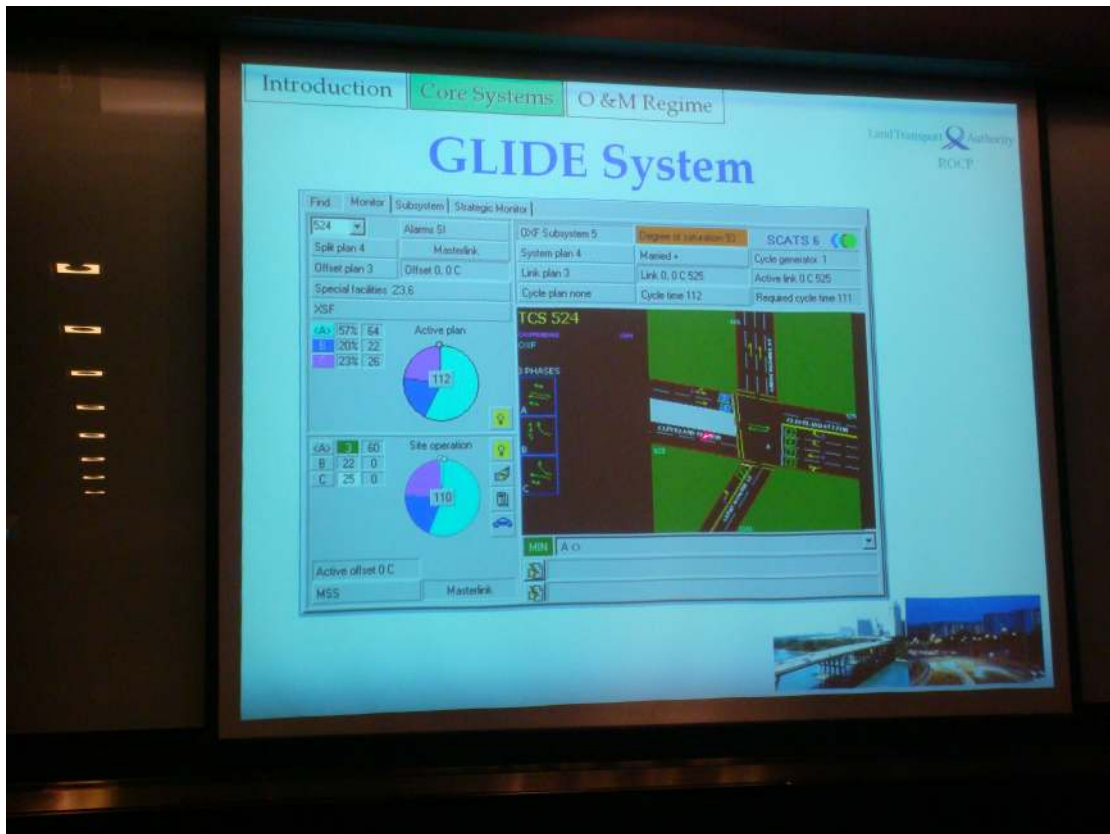
Computerised Traffic Signal Control System - GLIDE

- Collects traffic data via detector loops
- Assigns cycle length & split timings automatically based on traffic volume



	Plan 1	Plan 2	Plan 3	Plan 4	
0	A	A	A	A	0
	54%	47%	40%	33%	33
54	B	D	B	B	
	35%	33%	40%	47%	
80	C	C	C	C	80
	25%	20%	20%	20%	100






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Junction Eyes (J-Eyes)

Monitors traffic condition (e.g. congestion, traffic incidents) at critical traffic junctions



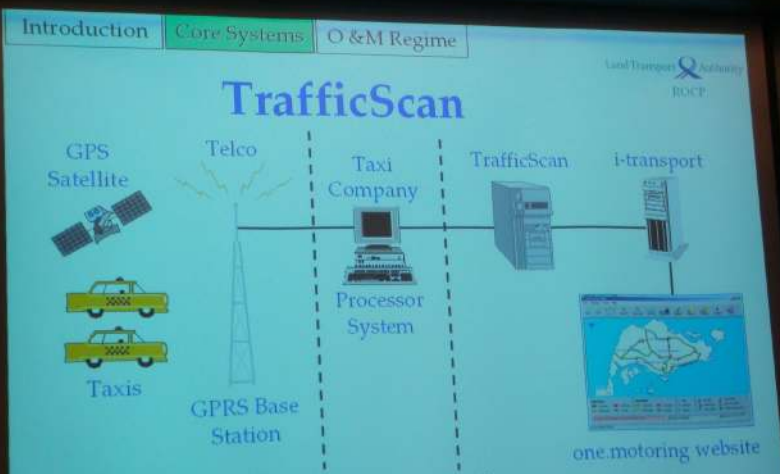
Current: 276 cameras


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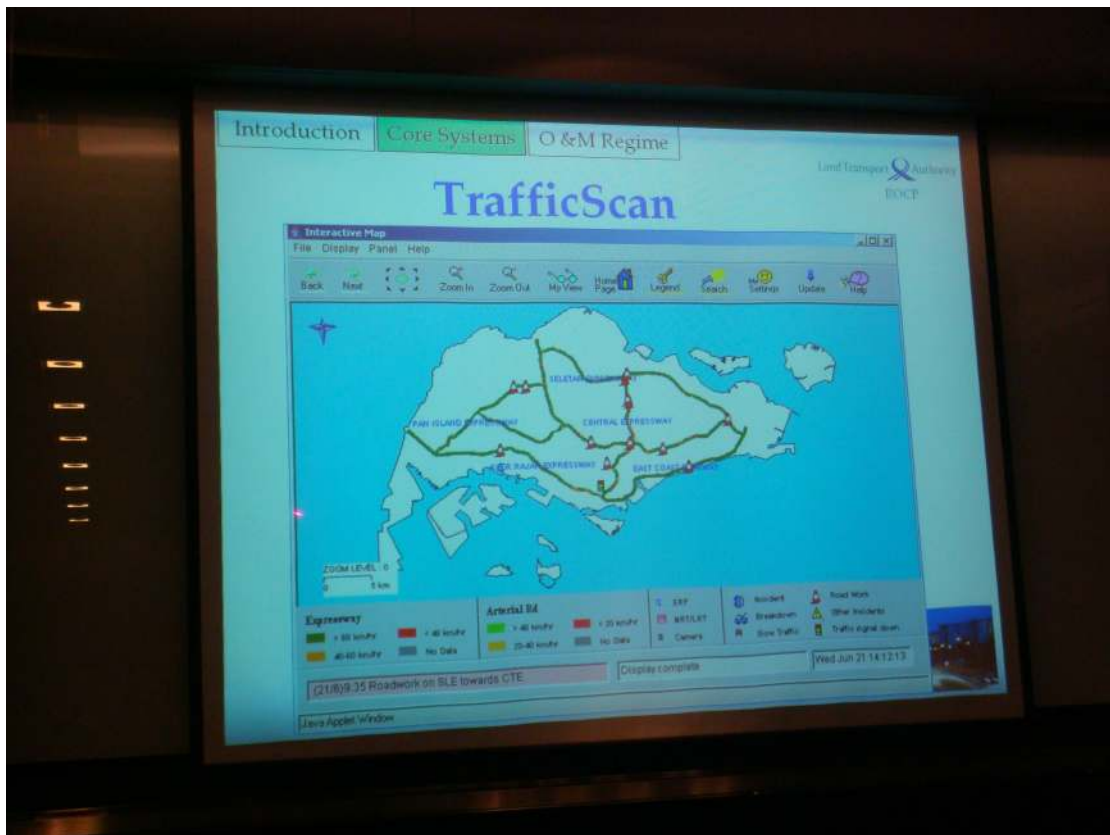
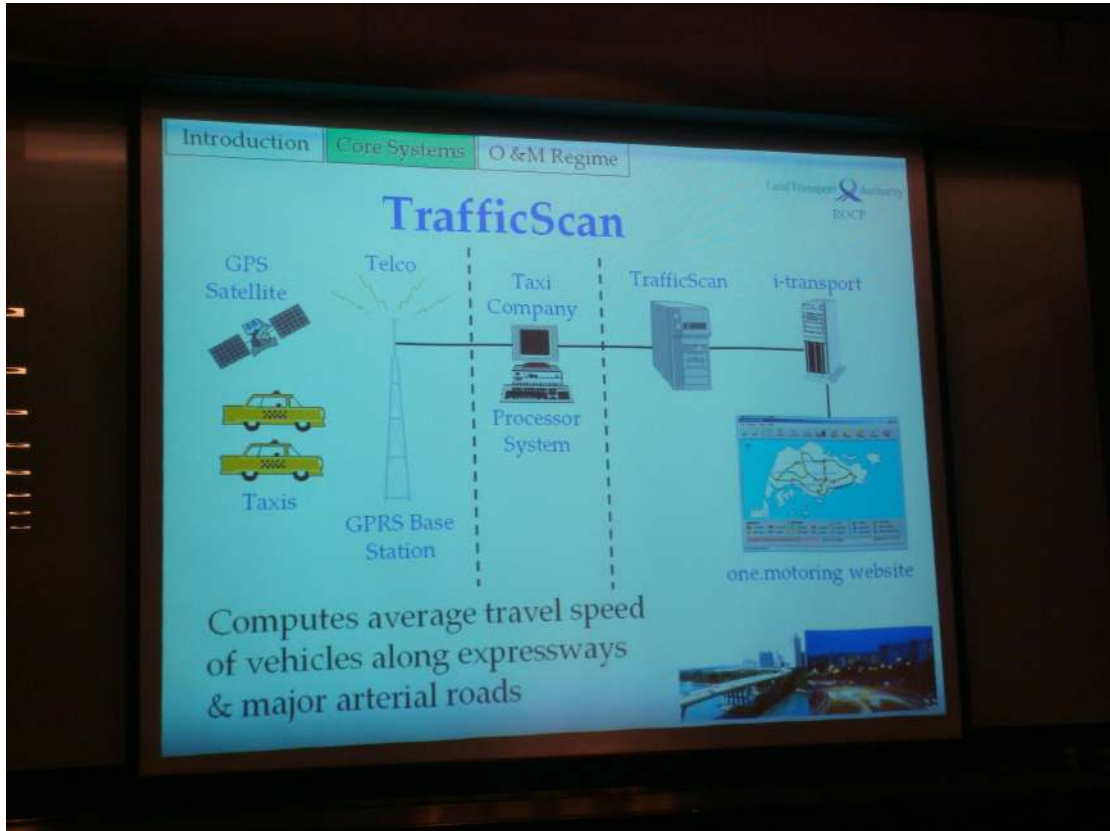
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TrafficScan



Computes average travel speed of vehicles along expressways & major arterial roads





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traffic.smart



Disseminates real-time traffic information from various ITS & made available to expressway users on the Internet via www.onemotoring.com.sg



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Woodlands Checkpoint (BKE)



Sheares Bridge (ECP)

No. of Web Cameras: 40



Seletar Flyover (SLE)

Images taken from Web Cameras via one motoring website



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i-transport

```

    graph TD
      subgraph Modules
        T[Traffic Information Module]
        I[Inference Module]
        S[Simulation Module]
        St[Statistical Module]
        OI[Operational Interface Module]
      end
      subgraph ITS
        V[Various ITS  
(e.g. GLIDE, EMAS, J-Eyes,  
TrafficScan & traffic.smart)]
      end
      OI <--> V
  
```

Integrates various ITS to enable control via a single common interface

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i-transport

```

    graph LR
      GIS[Receives incident alerts & locates incidents via Geographical Information System (GIS)] --> UI[Creates incident record]
  
```

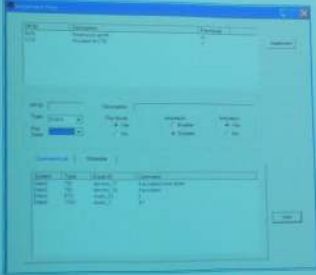
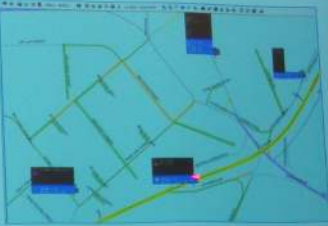
Receives incident alerts & locates incidents via Geographical Information System (GIS)

Creates incident record

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Generates & recommends response plan automatically

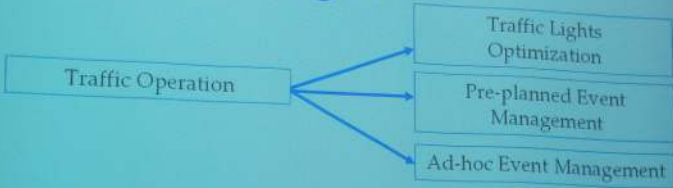

Implements & monitors response plan



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Operations & Maintenance Regime





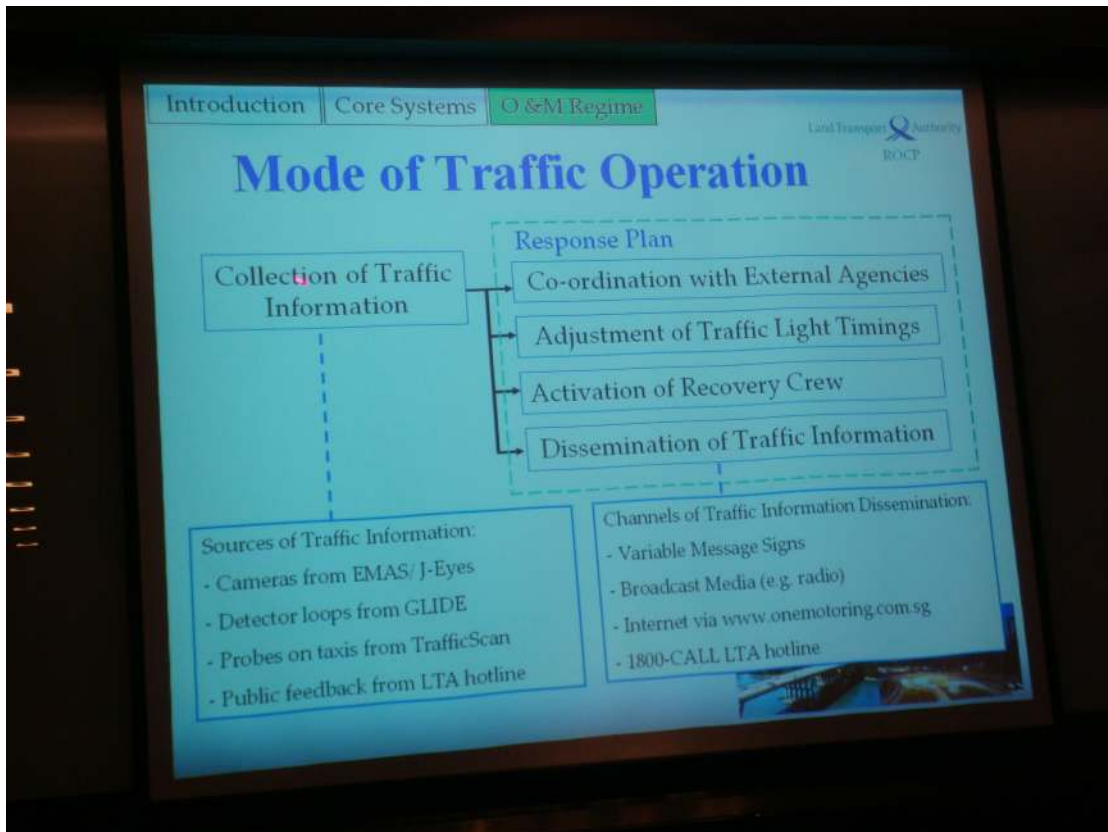
Traffic Operation

- Traffic Lights Optimization
- Pre-planned Event Management
- Ad-hoc Event Management

Maintenance

- Tunnel Maintenance
- System Maintenance
- Traffic Lights Maintenance






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- ## Maintenance
- Tunnel Maintenance
 - System Maintenance
 - Traffic Lights Maintenance
-

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Maintenance

- Preventive & corrective maintenance of CTE tunnels, facility buildings, E&M systems & ITS Centre
- Management of term contracts for maintenance of ITS & equipment
- Supervision of installation, modification & upgrading of traffic lights



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Key Performance Indicators

- Ensuring Prompt Response & Clearance Time

	Response Time (Mins)	Clearance Time (Mins)
Tunnels	8	8
Expressways	15	12

- Ensuring High System Availability

	Availability (%)
GLIDE System	98.0
Traffic Lights	99.9
Road Network	95.0

Summary

We aim to provide road users with a smooth & safe journey through the operation of the various Intelligent Transport Systems

