Managing incidents with ITS

AITPM Presentation

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Presentation Overview

- In the context of an incident
- From a VicRoads perspective
- With references to the Burnley Tunnel incident on 23 March 2007
Available ITS

- Incident detection
- CCTV
- Traffic Management Centre
- SCATS traffic signal system
- Variable message signs
- Estimated travel time signs
- Variable speed limit signs
- The web?
- The media?
Use & Benefits of ITS

Incident Detection

- Measures traffic speed, volume & lane occupancy
- Includes threshold based alerts
- On all metropolitan freeways
Use & Benefits of ITS

Closed Circuit Television
- Confirmation of alerts and reports
- Monitoring of response progress
- Traffic reporting
Use & Benefits of ITS

Traffic Management Centre
- Response coordination (emergency services and IMT)
- Manual system operation
- Reports and updates
- Strategic development
Use & Benefits of ITS

SCATS - traffic signal system
- Congestion information (site by site)
- Remote changes to phase timing
- Network approach
Use & Benefits of ITS

Variable Message Signs

- Information to motorists

- ACCIDENT AHEAD
  EXPECT DELAYS

- ROAD CLOSED
  DETOUR AHEAD
Use & Benefits of ITS

Drive Time Signs
- Estimated travel times
- Congestion indicators
Use & Benefits of ITS

Variable Speed Limit Signs
- Increased safety
- Condition warnings
- Earlier opening (at lower speed)
Use & Benefits of ITS

Ramp control signs/ramp metering

- Restricting access
- Closing access
- Managing main carriageway flow
Use & Benefits of ITS

The Web?
- Pre-trip
- In-car navigation
- Peak loads
- Alternative messaging
Use & Benefits of ITS

The Media?
- Customer service
- Direct interviews
- ATN
- Intelematics
Use & Benefits of ITS

What’s missing?

- Coordinated Ramp Metering
- Pictogram VMS
- Lane Use Management System
- Dynamic Road Markings
- Active Traffic Management
  - Freeway Management Systems
- Network management tools
- Dedicated radio station for traffic
- Safer, smarter drivers?
Use & Benefits of ITS

Questions?