



Summary of Integrated Corridor Management (ICM) Development Efforts Outside the United States

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Summary of ICM Efforts

Corridor	Corridor Type	Activities
M1 Freeway, Mebourne (Australia)	Suburban / Urban	<ul style="list-style-type: none">• Deployment of traffic management and traveler information systems along the freeway and freeway ramps
M42 Freeway, Birmingham (UK)	Suburban / Rural	<ul style="list-style-type: none">• Deployment of traffic management and traveler information systems along the freeway and freeway ramps

No documented evidence of active projects seeking to integrate the control of freeways and neighboring arterials

3

M1 Freeway, Melbourne

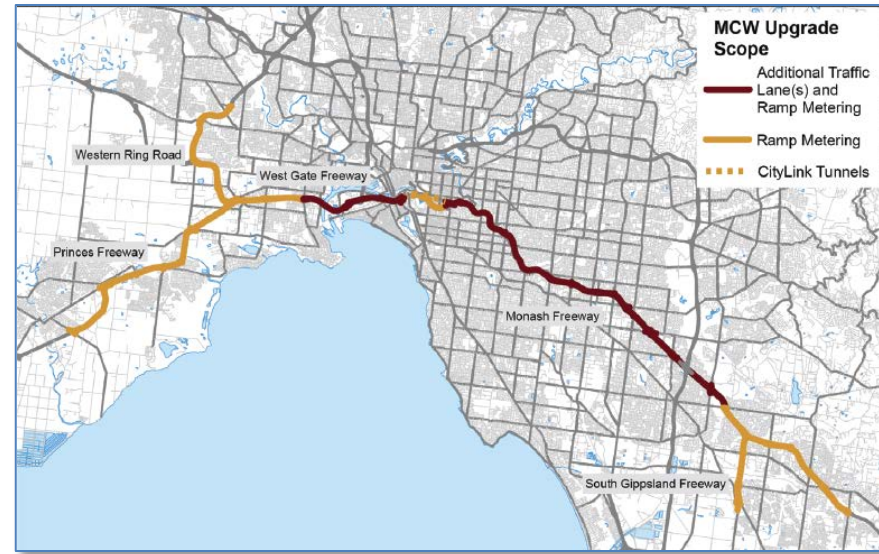
Corridor

4

□ 46-mile corridor along M1 freeway in Melbourne, Australia

▣ M1 freeway sections

- Monash Freeway
- CityLink Freeway
- West Gate Freeway

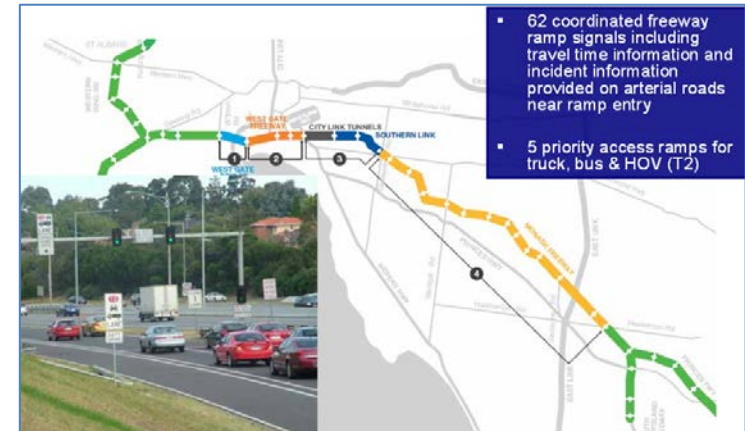


ICM Elements

5

- **Traffic monitoring**
 - ▣ Installation of 1 100 additional traffic detection devices

- **Freeway operations**
 - ▣ Coordinated ramp metering systems
 - ▣ Priority access ramps for
 - HOVs
 - Buses
 - Trucks
 - ▣ Lane management system
 - Variable speed limit signs
 - Lane use control signs
 - ▣ Central traffic management center



ICM Elements

6

□ Incident management

- Implementation of a system automatically generating response plans to incidents
 - Plan generated using 20 basic traffic engineering rules
 - Ability to implement responses in less than 10 s
 - Ability implement policy changes within seconds by changing relevant rules

□ Traveler information

- Use of electronic signs to providing advance notice of traffic conditions and incidents
 - Along freeway mainline
 - On arterial streets, upstream of freeway on-ramps

M1	Light	Min
Warrigal Rd		11
Punt Rd		15

M1	Medium	Min
Warrigal Rd		14
Punt Rd		21

M1	Heavy	Min
Warrigal Rd		17
Punt Rd		25

M1	Heavy	Min
Warrigal Rd		17
Punt Rd		25

M1	Major Delays	Min
Warrigal Rd		21
Punt Rd		35

M1	Seek Alt Route	Min
Warrigal Rd		45
Punt Rd		55

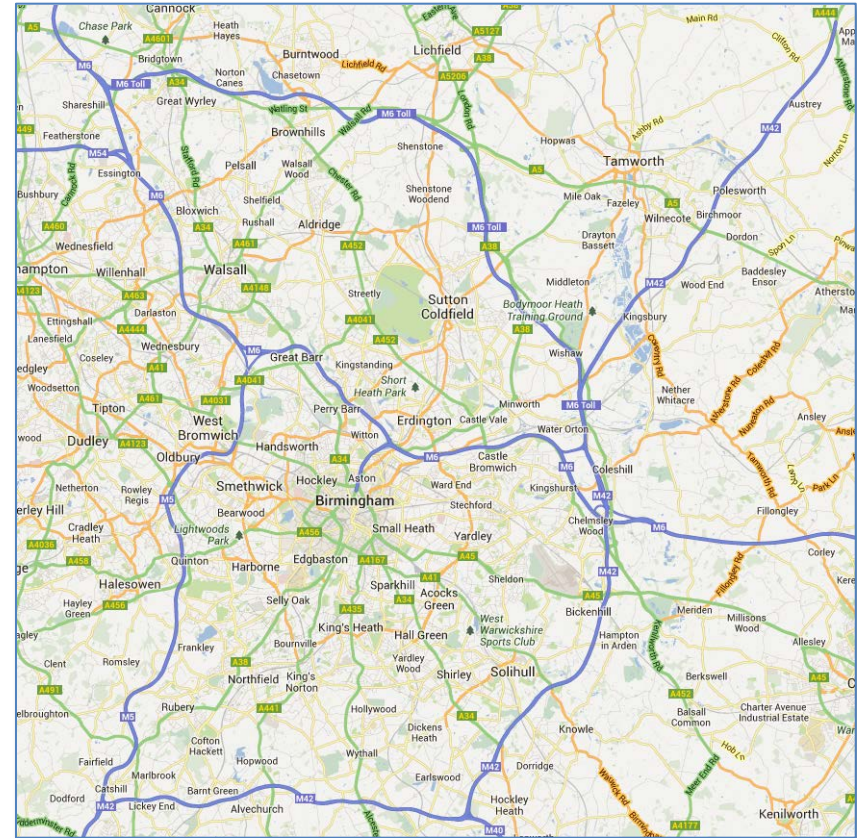
7

M42 Freeway, Birmingham, UK

Corridor

8

□ M42 Freeway near Birmingham, UK



ICM Elements

9

- **Traffic monitoring**
 - ▣ Use of loop detectors to monitor when and where speeds drop below predetermined thresholds

- **Freeway operations**
 - ▣ Variable speed limit system
 - ▣ Lane use control system
 - ▣ Use of shoulder as running lane under specific conditions to increase capacity
 - Available when A speed limit is displayed above the hard shoulder
 - 50 mph maximum permissible speed



ICM Elements

10

- **Traveler information**
 - ▣ Electronic signs along mainline to providing advance notice of traffic conditions and incidents

