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

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Summary of ICM Efforts

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<th>Corridor</th>
<th>Corridor Type</th>
<th>Activities</th>
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<td>M1 Freeway, Melbourne</td>
<td>Suburban / Urban</td>
<td>• Deployment of traffic management and traveler information systems along the freeway and freeway ramps</td>
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<tr>
<td>M42 Freeway, Birmingham</td>
<td>Suburban / Rural</td>
<td>• Deployment of traffic management and traveler information systems along the freeway and freeway ramps</td>
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No documented evidence of active projects seeking to integrate the control of freeways and neighboring arterials
M1 Freeway, Melbourne
Corridor

- 46-mile corridor along M1 freeway in Melbourne, Australia
  - M1 freeway sections
    - Monash Freeway
    - CityLink Freeway
    - West Gate Freeway
ICM Elements

- **Traffic monitoring**
  - Installation of 1100 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

- **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 to 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
M42 Freeway, Birmingham, UK
Corridor

- M42 Freeway near Birmingham, UK
ICM Elements

- **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

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