

# **A90 Queue Management System: Maximising Existing Infrastructure for Bus Priority**

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# Stagecoach East Scotland Overview

- Local bus services across east central Scotland
- Express coach network connecting area with Scotland's cities
- 35 million passengers in 2015/2016
- 30 million miles operated
- 550 buses and coaches
- 1300 staff
- Part of Stagecoach Group



# Fife – Edinburgh bus travel overview



- Major destination for employment, shopping and leisure
- Morning and afternoon commuter peaks but substantial inter-peak travel for leisure
- Significant bidirectional travel from trips originating in Edinburgh
- Mix of direct bus, bus-bus and car-bus journey modes
- High quality Express coach network serving two strategically located Park & Rides at Ferrytoll (2000) and Halbeath (2013)
- Buses up to every 5 mins in peak, every 10 mins off peak



# Halbeath & Ferrytoll – Edinburgh Bus Routes





# A90 Queue Management - System background

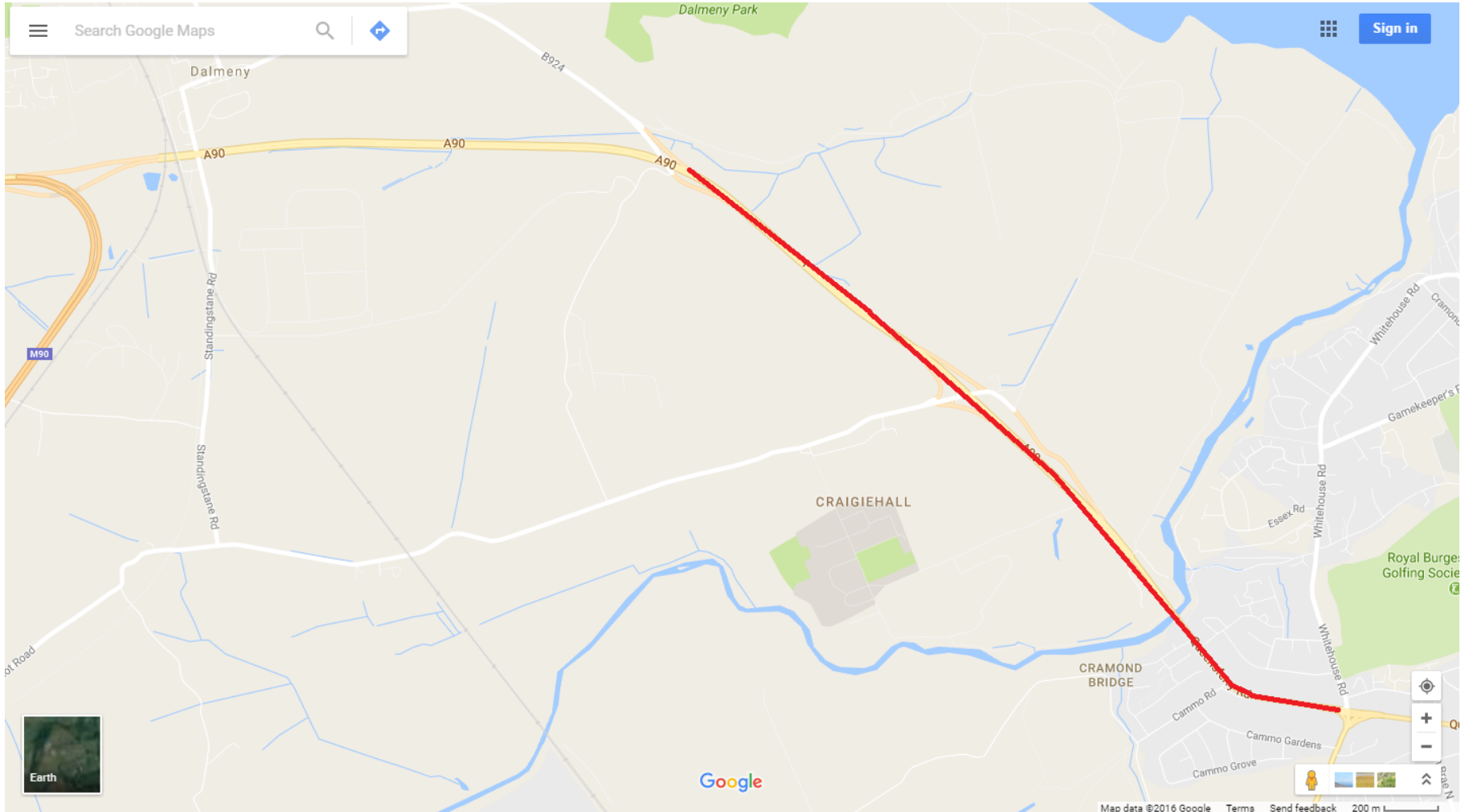


- Constructed 1999 - opened 2000
- Package of measures complementing opening of Ferrytoll Park & Ride
- Junction remodelling at Barnton, Drum Brae & Clermiston
- Signal rephasing at Blackhall

# A90 Queue Management - Scheme details

- New bus lane constructed alongside existing two lane dual carriageway
- Bus lane introduced on existing slip road
- Four new sets of traffic signals
- Mandatory part-time 50mph speed limit
- Extension of existing 40mph speed limit to north of Burnshot Bridge
- Installation of traffic sensors in road surface
- Minimises new build by optimising existing infrastructure
- Fully automated

# A90 Without Queue Management



# A90 With Queue Management





# A90 Queue Management - System benefits

- Average 13 min saving for buses in peak time
- Minimal to no delay for general traffic
- Lower emissions from smoother traffic flow
- Improved safety from lower speed limit and traffic control at slip roads
- Encourages modal shift from car to bus

# Success!

- Ferrytoll Park & Ride capacity doubled in 2005 to 1050 spaces
- New 1000 space Halbeath Park & Ride opened 2013
- New services introduced to meet growing demand
- Significant increase in bus interchange for travel to/from Edinburgh
- Modal shift from cars achieved



# Future Developments & Challenges

- Queensferry Crossing opening May 2017
- Creation of dedicated cross-Forth public transport corridor on Forth Road Bridge
- Expansion of bus priority to create continual bus priority over 24km from Halbeath
- Worsening congestion elsewhere must be tackled so time savings are not lost





# Questions?

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