

INTRODUCTION

MMB Associates is a specialist consultancy providing transport telematics expertise to key clients, consultants, contractors suppliers and procurement organisations.

We have extensive expertise in the development and implementation of traffic control systems and their subsequent through life operation and management.

Our engineers have successful track records at senior level within UK government transport departments and in private sector consultancy practice. They have been responsible for a number of innovative projects that continue to influence the current approach to many transport applications. We have a comprehensive knowledge of the procedural and practical engineering issues that are necessary to deliver successful projects and ensure their successful operation.

Recent activities include the preparation of many Department of Transport and Highways Agency standards and specifications including technical requirements, advice notes and directives, design guides and codes of practice.

These documents form the basis on which many of today's traffic control and communications systems are procured, installed operated and maintained. They form the cornerstone for evolution and continuing development of traffic control technologies.



CAPABILITY AND EXPERTISE

- Motorway communications systems
- Controlled Motorway systems
- Ramp metering systems
- Message sign systems
- Detection and traffic data
- Closed circuit television (CCTV)
- Image Processing and Incident detection
- Journey time (Number Plate Recognition) systems
- Communications networks
- Control rooms
- Maintenance and operations management
 - Service level monitoring
 - Asset management systems

MOTORWAY AND TRUNK ROAD DESIGN, OPERATIONS AND MAINTENANCE MANAGEMENT

MMB Associates has continuity of expertise across all generations of motorway communications systems from early NMCS1 to the present NMCS2, Control Office Based (COBS) systems. This includes system design and specification, procurement and installation, system integration and commissioning, and operations and maintenance.



MMB staff were instrumental in designing the Highways Agency's standards for the infrastructure to support NMCS2.

We also developed many of the techniques and practices currently used for protection of operational systems during NMCS1 to NMCS2 cable upgrading and control office conversion works.

We have in-depth skills covering the design, maintenance and operation of traffic control and communications systems on the motorway and trunk road network. This is gained through senior staff who held responsibilities to ensure that the Highways Agency meets its service level and Road User's Charter obligations.

We are therefore able to offer an exceptional continuity of knowledge and understanding of how the Highways Agency fulfils its maintenance, operational support roles and meets service level obligations for operational systems.

Examples of recent projects include:

- NMCS2, M25 interim upgrading (COBS emulation) to support MIDAS and Controlled Motorways - Design and Project Management.
- NMCS2 COBS Message Sign sub-system (MSS) - Communications protocol development and input to all other design aspects.
- NMCS2 COBS MIDAS sub-system development - Design input.
- M27 Ramp Metering Pilot Scheme - Design and Project Management.
- M3/M27 Journey Time Measurement System (ANPR) - Design and Project management.
- M25 Controlled Motorway Pilot Scheme - Design and Project Management
- A13 DBFO - Lane availability monitoring, NMCS2, lighting - Design and specialist advice.
- A1M DBFO Yorkshire Link - MIDAS and Traffic Measurement System - specialist advice.
- Scheme Identification Surveys and equipment provision surveys M40 and A1(M).
- TCC Project - support to tendering consortia
- NRTS PFI Project - support to KHHD consultancy team preparing specifications and ITN.