### Safe roads, Reliable journeys, Informed travellers



# Applying Technology to Roads Management

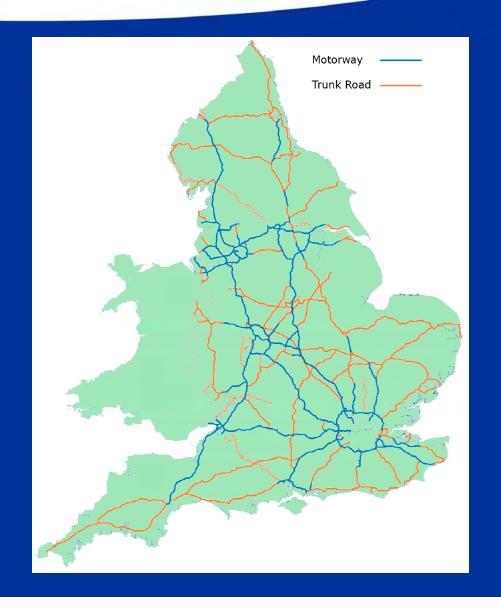
Archie Robertson

Chief Executive
Highways Agency

#### Highways Agency Network



- 4818 miles (7754 km)
- 2.8% of roads in England
- 31% of all road traffic and 62% of all freight





# Roads agency 'too timid to tackle jams'



The HA appears to be a slow driver in the fast lane. It should either accelerate change or be prepared to get out

of the way.

Highways Agency 'too slow' to tackle congestion

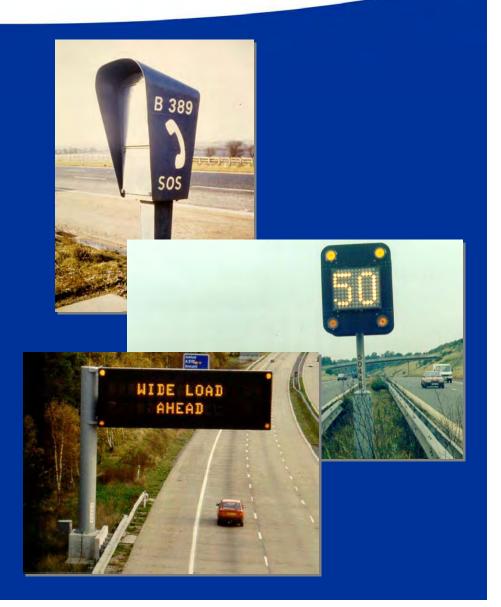
#### 40 Year History



1959 – First emergency phones

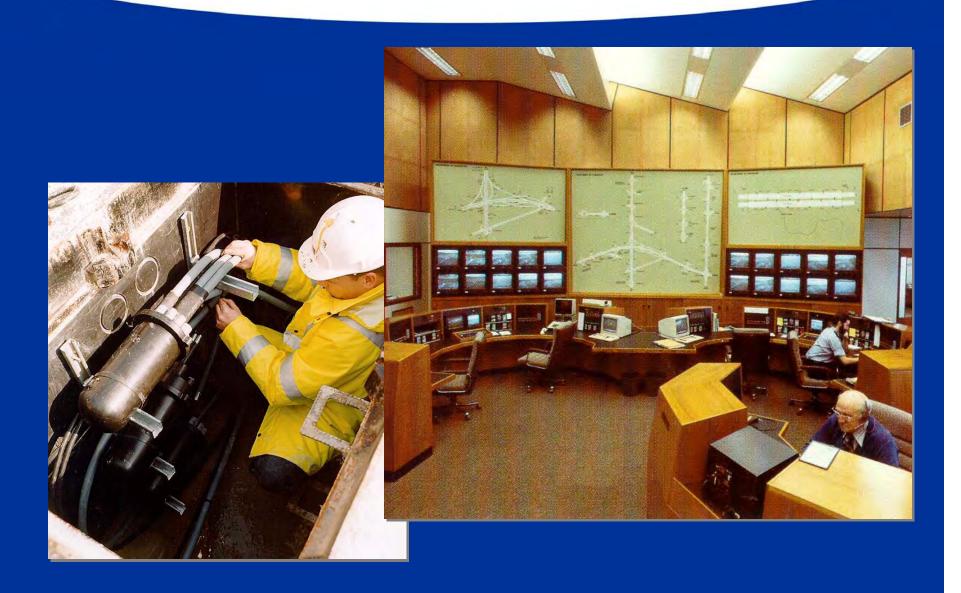
1964 – First signals

1990 – New generation of signal



#### Communications and Control Centres





#### RCCs and Traffic Officers





## Safe roads, Reliable journeys, Informed travellers



Safe Roads,

Reliable Journeys,

Informed Travellers

#### **Queue Protection**





#### Ramp Metering





#### **Controlled Motorways**





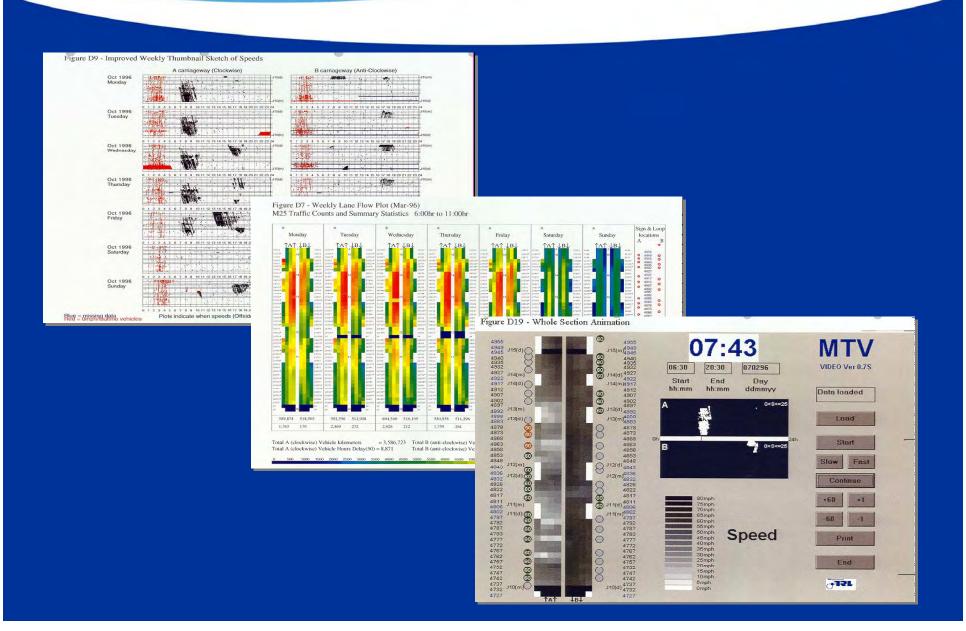
#### **Active Traffic Management**





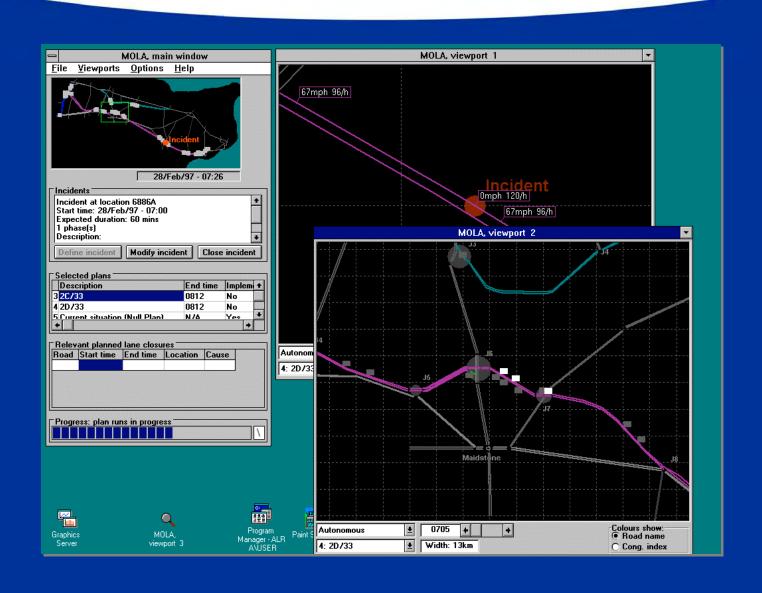
#### MTV - Motorway Traffic Viewer





#### MOLA – Motorway On-Line Assistant





#### National Traffic Control Centre





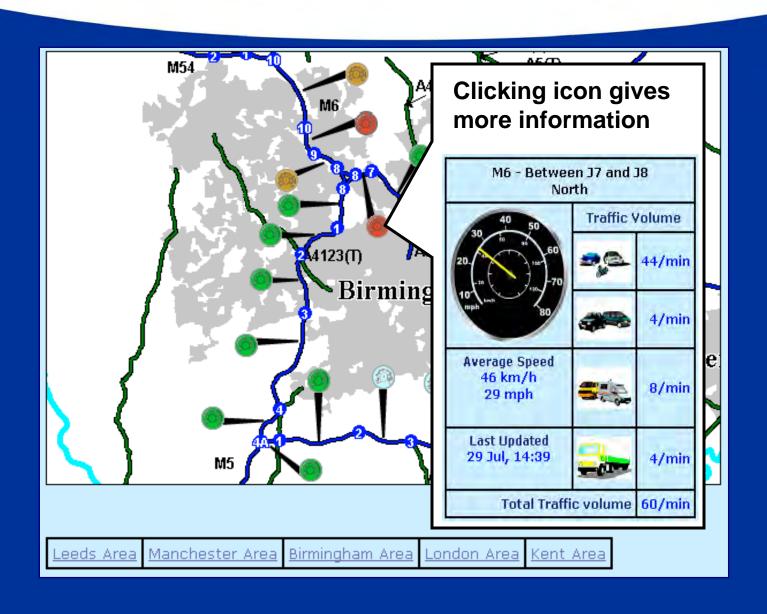
#### Strategic Traffic Management





#### Information on the Web





# Safe roads, Reliable journeys, Informed travellers

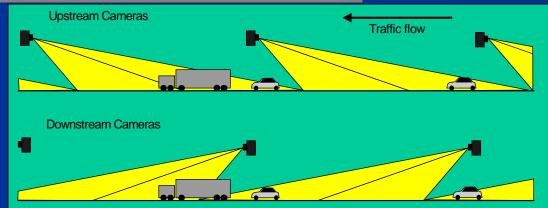




#### **Improved Monitoring**









#### Video Information Highway









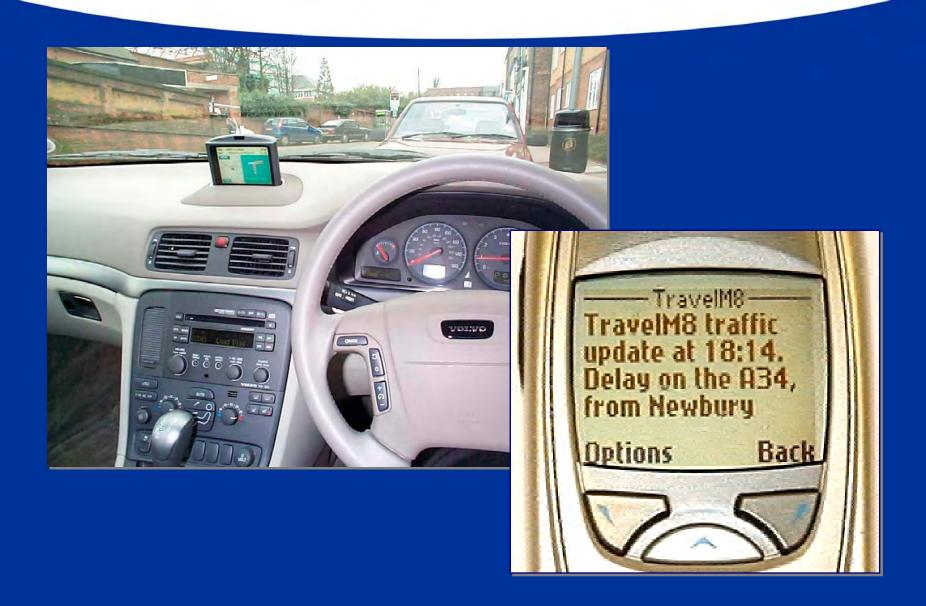
#### Road Traffic Advisor





#### Information in the Vehicle





#### Co-operative Vehicle Highway Systems





#### Questions



Safety – Are we too risk averse?

Should we take greater risks with taxpayers money?

Should we spend more on technology and less on tarmac?

#### Safe roads, Reliable journeys, Informed travellers



