

The Big Shift ITS - Tool or Origin?

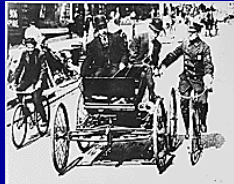
A DfT Perspective

Chris Ward
Transport Technology & Standards
DfT

Technology marches on

- Vehicles
- Infrastructure
- Communications
- Computerisation

Changes in transport technology



Changes in roadside technology



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Changes in vehicle technology

1966

- No seat belts
- No child seats
- No tyre tread controls
- No motorcycle crash helmets
- No ABS braking
- No EuroNCAP
- Not much traffic but driving task strenuous

About 7200
deaths a year

2006

- Front / Rear seat belts — 96% front belt wearing
- Child seats common
- Tyres in good condition — and run-flat
- Mandatory motorcycle crash helmets
- ABS almost standard plus ESC
- Regular 5★ EuroNCAP scores
- Traffic very heavy; driving automated but complex

About 3200
deaths a year

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Raised expectations

Solutions

- Cheaper
- Consumes less power
- Smaller
- "Greener"
- Handles more data
- Integrates many sub-systems
- Higher accuracy
- Allows anonymity

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DfT's objective

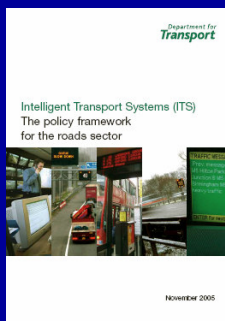
"to oversee the delivery of a reliable, safe and secure transport system that responds efficiently to the needs of individuals and business whilst safeguarding our environment."

DfT Aims and Objectives

DfT's strategies include:

- Promote safety & effective security
- Balance need to travel with improving quality of life
- Improve public transport
- Make better use of existing networks
- Invest in more capacity to increase reliability
- Support transport industries
- Support the economy

A new focus for ITS delivery



Increasing need for ITS

Two major developments:

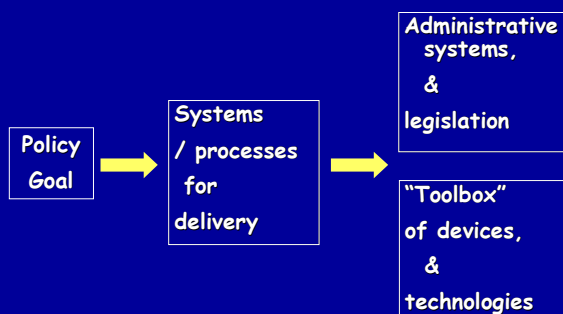
- Increased recognition of the potential of ITS in Local Transport Planning guidance
- Traffic Management Act and Network Management Duty

Aims of the Act

Tackling congestion and reducing disruption by:

- pro-active management
- better co-ordination and management
- more effective powers and sanctions
- wider civil enforcement powers

DfT technology requirements



The balancing act

- Balancing road safety technology and personal freedom
- Balancing network throughput and personal freedom
- Balancing freedom to travel and global warming
- Balancing social information benefit and personal privacy
- Proving to the public that we're not "Big Brothering"

Proving the case

- Not technology for technologies sake
- Need to be able to illustrate the benefits
- Need to evaluate the impact
- ITS Tool Kit

Conclusion

- Developments in ITS have shown what can be done
- Policy will increasingly be developed taking these advances into account
- However use of technology is not a given - must prove the case.
