

Development of an ITS Technical Framework for the UK

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Overview

- Policy Context
- Goals and objectives
- Scope
- Initial approach, analysis and conclusions
- Alternative approach
- Requirements of key stakeholders
- Testing the approach
- Conclusions and recommendations

Policy Context

- ITS Policy Framework for the roads sector published Nov 2005
- One of the actions was to deliver in partnership with others a national ITS technical framework.
- This paper provides an update on progress in taking that action forward.
- Comments from ITS Stakeholders are welcome

Supporting transport policies

- Improving road network management
- Improving road safety
- Better travel and traveller information
- Better public transport
- A more efficient road freight industry
- Reducing negative environmental impacts
- Security, crime reduction, and emergency planning

Setting the goal

- The goal set for the National Technical Framework for ITS (NTFI) is to encourage the cost-effective deployment of current and future ITS applications, making best use of information and resources.

Objectives

- To enable investors in ITS to **maximise the available benefits** through open interfaces that support data exchange and sharing of resources.
- To enable deployment and operational **costs to be reduced** by encouraging the use of open, shared platforms, resources and data.
- To **reduce the barriers** to deployment of ITS by reducing risks associated with lack of open interfaces and lack of seamless interoperability.
- To enable ITS applications and services to **work seamlessly** across geographic boundaries.
- To enable applications of ITS promoted by the public and private sectors to **inter-work** and share resources and information as appropriate.
- To promote a strong, **competitive market** for ITS products.

Scope

- Be relevant to the whole of the UK.
- Focus on public sector applications and their interfaces to the market for private sector applications.
- Initially focus on road transport, recognising the need to work across the boundaries with other modes.
- Cover a minimum defined set of ITS applications and services.

The Approach

- The approach needs to:
 - Recognise that there are many ITS stakeholders in the UK
 - Accept devolved ownership of the NTFI
 - Ensure long-term governance
 - Acknowledge the role of public sector stakeholders
 - Accommodate the aspirations of public and private sectors
 - Multiple levels of detail
 - Develop a strong business case for the NTFI
- Approach tested on case studies and strategic applications

Requirements of key stakeholders

- Key Stakeholders should have responsibility for:
 - The delivery of ITS applications/services
 - The specifications/ requirements of ITS applications/services
 - Implementing the NTFI in their organisation
- In return the stakeholders will be offered the opportunity:
 - To own the relevant part of the NTFI
 - To own and manage the (external) interfaces to other parts of the NTFI
 - To develop the business case for the use of the NTFI
 - To apply the NTFI to their ITS deployments

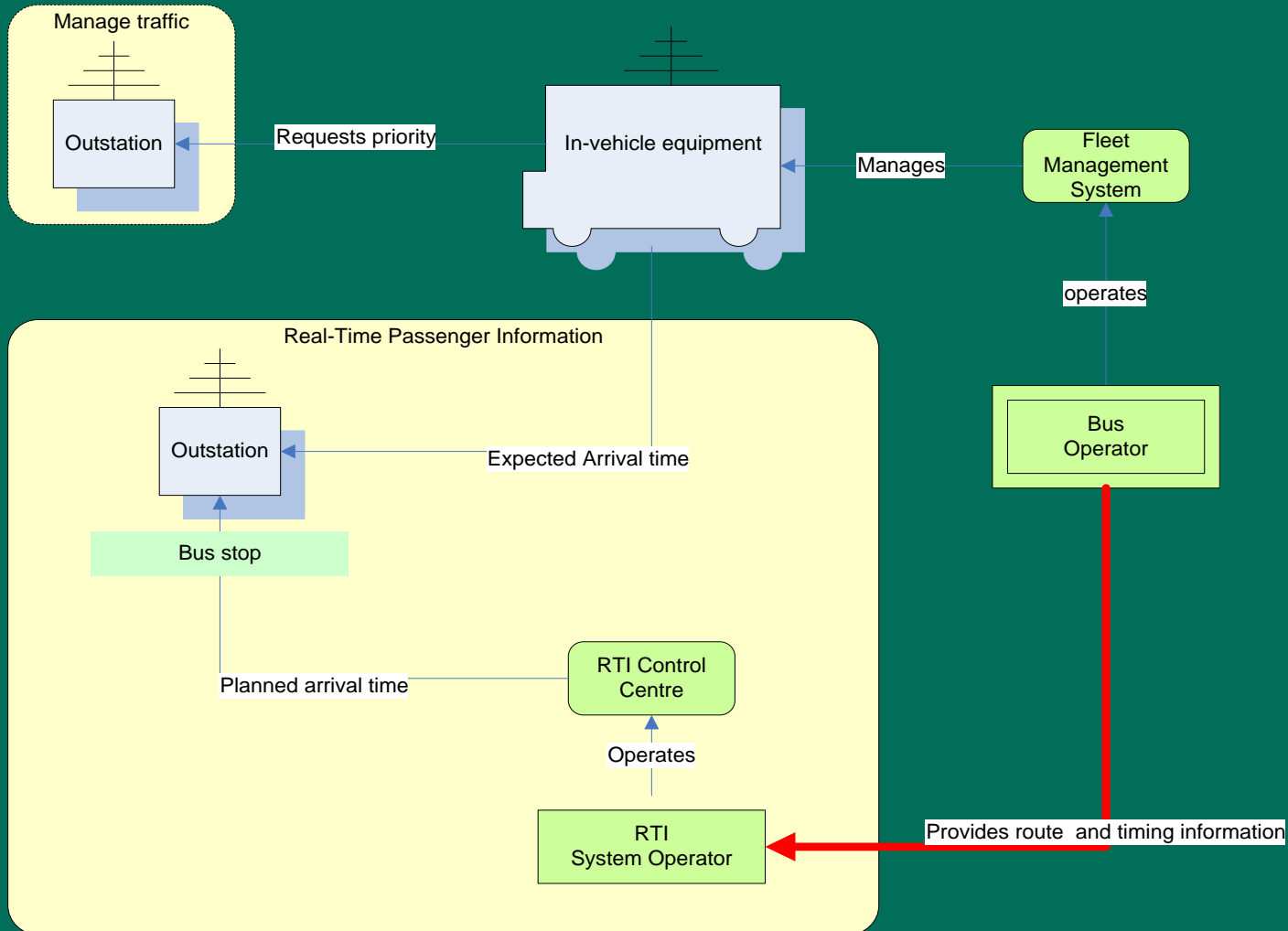
Case Studies

- Highway Authorities
 - Highways Agency
 - Hampshire (Romanse)
 - Kent County Council
 - West Midlands
- Strategic applications
 - Real-time Passenger Information
 - Smartcards
 - Road Pricing
- Private Sector
 - In-vehicle applications

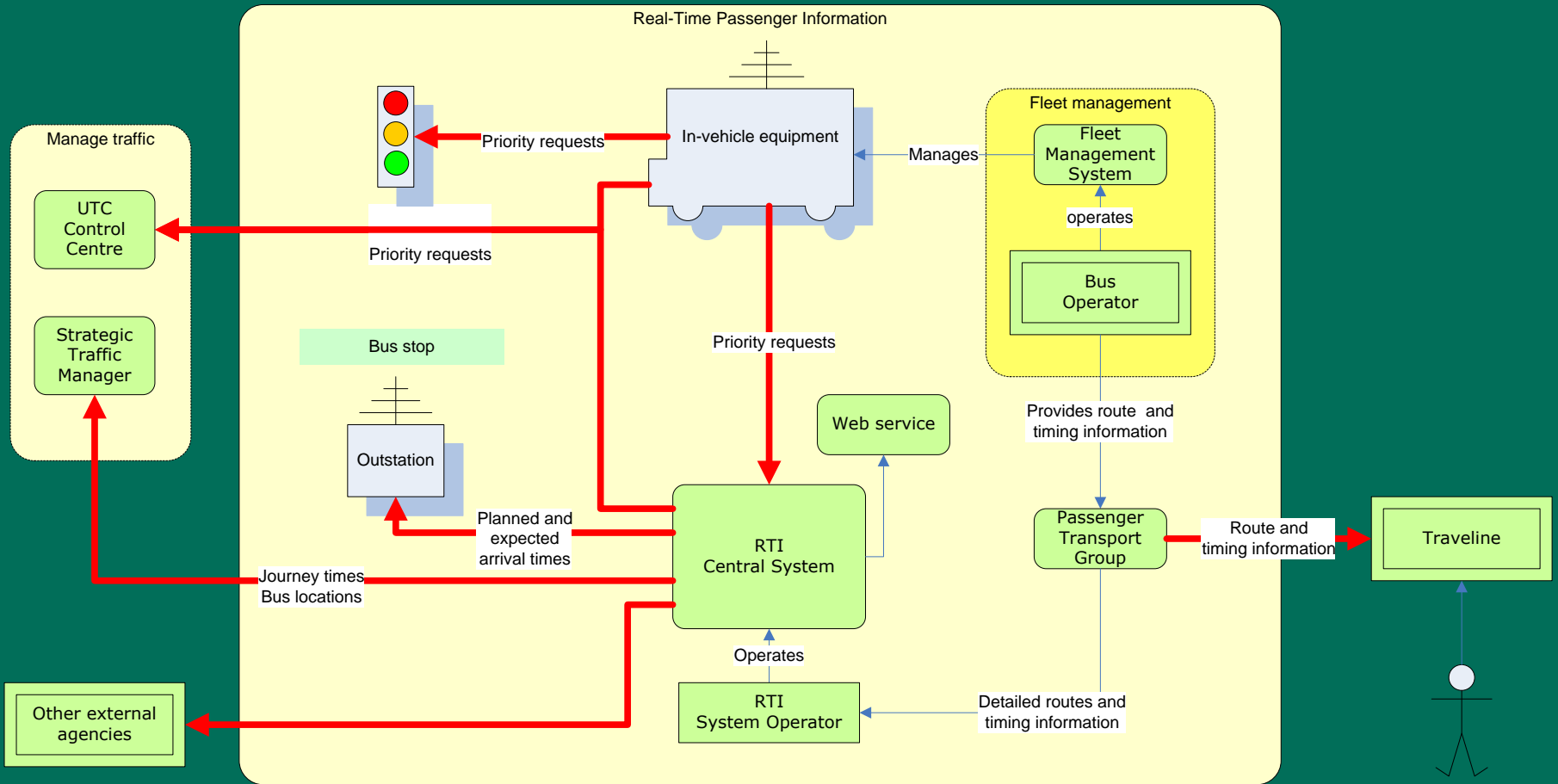
The Zachman Framework

	What	How	Where	Who	When	Why
Contextual						
Concept						
Logical						
Physical						
As built						
Functional						

Real-time passenger information



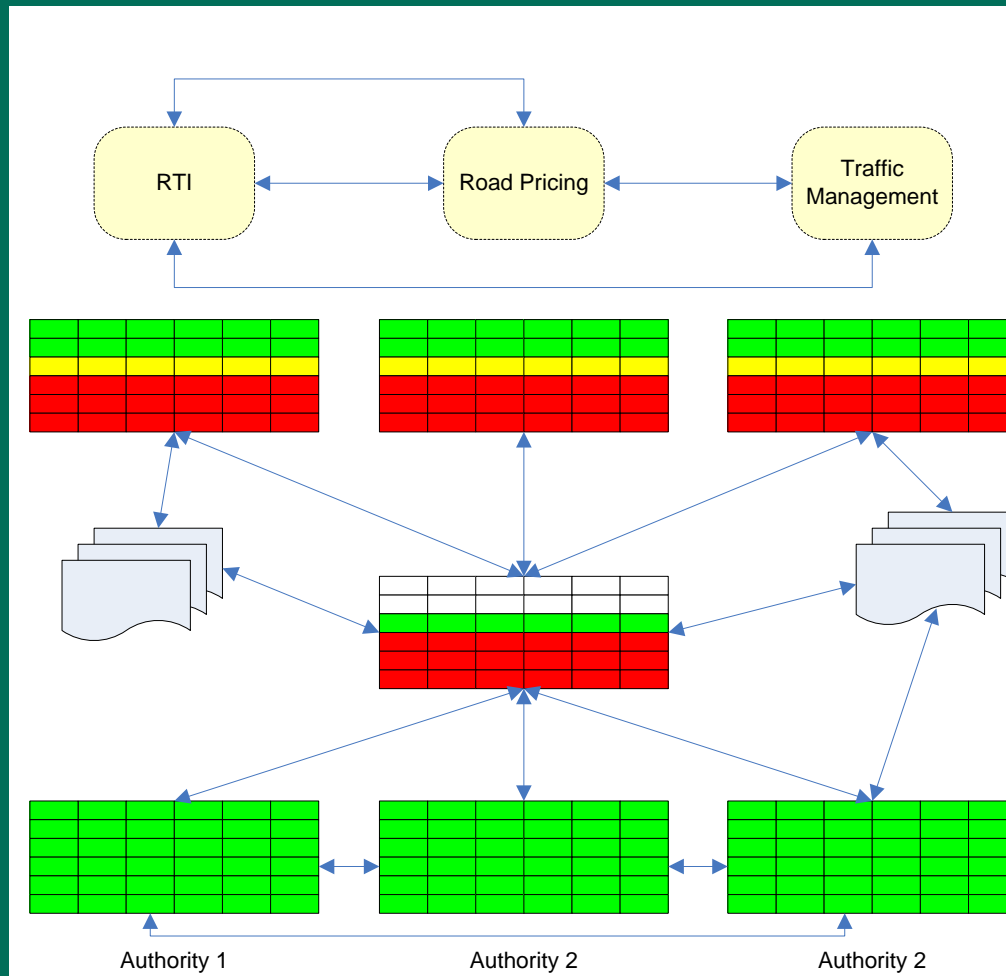
Real-time passenger information (Romanse situation)



Conclusions

- Each enterprise needs its own architecture
- Different enterprises take different approaches
- Currently, key interfaces are not stable or managed
- Business case needs to be developed with the governance
- Need for a long-term approach with consistent governance
- DfT will not decide the outcome in advance

What would the National Technical Framework look like?



Recommendations

- Recognise the various owners
- Ownership structure of the NTFI
- All owners need a business case
- DfT's role
- The process for the NTFI

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