



# Architecture Training from E-FRAME Further Information

## Seminar

### Planning integrated ITS using the FRAME Architecture

#### Recommended Audience

**Transport Executives:** those who provide high-level advice about ITS planning and implementation to decision makers (or who make the decision themselves) in national and local government, service providers, consultants, leading EC funded project partners, plus vehicle and ITS equipment manufacturers.

**ITS Engineers:** those who support the decision making process with technical data, or who participate in the creation and release of Calls for Tender. They may work for local or national governments, consultants, service providers, vehicle manufacturers or ITS equipment suppliers.

#### Aims and Objectives

- To show how ITS architectures can be used to plan the provision of integrated ITS; the benefits of using ITS architectures and the risks of not using one.
- To show how stakeholders' aspirations for integrated and cooperating ITS can be captured and combined into an ITS architecture that will satisfy their needs.
- To show how ITS architecture can be used to identify and plan management and business issues; how the implementation and deployment costs and benefits can be assessed; how the components and supporting communications can be defined, and the risks identified.
- To explain the work needed to create ITS architectures and the people to be involved.
- To provide real examples of this approach, and the achievements that have been made.

#### Contents

ITS integration; how the concept of ITS architectures fits into the implementation process; developing ITS architectures from Stakeholders' Aspirations; introduction to the European ITS Framework (FRAME) Architecture; using ITS architectures, including planning, risk assessment and the specification of systems; use of standards, review of world wide ITS architecture activities.

**Duration** – 0.5 day

#### Organisation

- This Seminar can be presented on its own, or as an introduction to the Workshop.
- The Seminar will comprise presentations and discussion, normally in English. Translation into other languages is the responsibility of the host.
- The number of attendees is unlimited.
- Other issues can be considered for inclusion in the Seminar at the organiser's request.



## Workshop

# Creating an ITS Architecture from the FRAME Architecture and how to use it

### Recommended Audience

**ITS Engineers:** those who support the decision making process with technical data, or who participate in the creation and release of Calls for Tender. They may work for local or national governments, consultants, service providers, vehicle manufacturers or ITS equipment suppliers.

### Aims and Objectives

- To show how the European ITS Framework (FRAME) Architecture can be used as a starting point for creating ITS architectures to support the deployment of services provided by integrated ITS.
- To show how ITS architectures can be used to specify the components of ITS services and their communications requirements.
- To show how ITS architectures can be used to identify and resolve management and business issues; undertake Cost/Benefit and Risk Analysis, as well as to produce Deployment and Migration Plans.
- To provide experience of creating an ITS architecture – see Case Study below.

### Contents

Introduction to the European ITS Framework (FRAME) Architecture; Users' Needs; models of ITS applications; the Functional Viewpoint; the Physical Viewpoint; the Communication Viewpoint; the Organisational Viewpoint; Deployment and Migration Plans; Cost/Benefit and Risk Analysis; System Specifications and Communications Requirements.

### Case Study

The Workshop can be supported by a Case Study through which attendees will gain experience of creating an ITS architecture using the FRAME Architecture Tools.

**Duration** – 2 days. A one day version is possible, but it will exclude the Case Study.

### Organisation

- The Workshop will take the form of presentations and discussion in English.
- During the two day Workshop some of the presentations will be followed by practical examples of using the FRAME Architecture Tools for the Case Study.
- In order to use the FRAME Architecture Tools attendees will also need access to a PC with Microsoft Office (including MS Access): one between two people is ideal. Access to the Internet is not normally required. In order that we can provide sufficient supervision during the exercises there is a limit of 30 attendees for a workshop that includes the Case Study.



## Presentation Team

The overall leader is Eur Ing Peter Jesty, supported by Mr Richard Bossom and Mr Alexander Frötscher. Their details are as follows.

**Eur Ing Peter Jesty** – has been involved in ITS architecture work for over ten years. This includes being part of the KAREN Project team (specialising in the development of User Needs) as well as developing ITS architectures for Urban and Regional Authorities. Until recently he has lectured in system design and project management at the University of Leeds in the UK for many years, and is a leading authority on safety-related systems for road transport applications, having spent many years working on European Projects in that area. He is currently the coordinator of the E-FRAME project.

**Mr Richard Bossom** – has been involved in ITS architecture work for over fifteen years. This includes leading the architecture development part of the KAREN Project, coordinating the FRAME-S project, as well as developing ITS architectures for Urban and Regional Authorities. Before that, he was part of the US National ITS Architecture development team, being responsible for the development of the Logical Architecture. He has been involved in ITS for over 30 years, specialising in urban traffic management for the first half of that period.

**Mr Alexander Frötscher** – is a senior Project Manager in the field of Transport and Traffic Telematics, and the Project Coordinator for the FP6 COOPERS integrated cooperative systems project.