

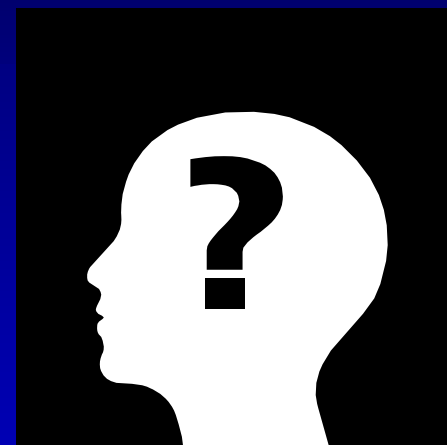
# ITS Evaluation 101 Training Session

ITS World Congress  
November 19, 2003

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# Evaluation 101 Session Overview

- Purpose of this session
  - To demonstrate the importance of ITS evaluation
  - To improve understanding of how to undertake ITS evaluations
- To explore ITS evaluation from an international perspective



# Session Aims

- **We hope the session will:**
  - **Demonstrate the importance of evaluation**
  - **Identify the major elements of an evaluation exercise**
  - **Allow you to select appropriate performance measures for evaluation**
  - **Allow you to select appropriate evaluation techniques and tools**

# Agenda - 1

- Introductions and Overview 10:00 – 10:10
- Background – US perspective 10:10 – 10:25
- Background – European perspective 10:25 – 10:40
- The Evaluation Process 10:40 – 11:30
- Break 11:30 – 12:00

# Agenda - 2

- Evaluation Techniques and Performance Measures 12:00 – 12:35
- Real Evaluations 12:35 – 13:05
- Further Resources,  
Summary and Conclusion / Q&A 13:05 – 13:30

# Who's Who

- **Self introductions please:**
  - **Your name**
  - **Organisation**
  - **Role**
  - **What you want to get out of today**

# Background: What is ITS?

The application of

- advanced sensor, computer, electronics, and communications technologies and
- management strategies
- in an integrated manner
- providing traveller information

All this aims to increase the safety and efficiency of the surface transportation system

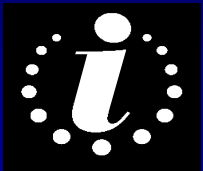
*ITS is a continuation of things we've been doing all along*

# Background: What is ITS?

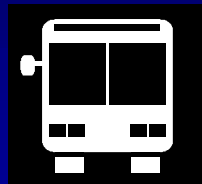
- ITS Components:
  - Urban/Metropolitan
  - Inter-urban/Rural
  - Commercial Vehicle Operations (CVO)
  - Intelligent Vehicles



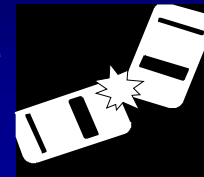
# Urban ITS Infrastructure



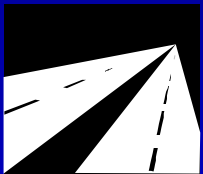
**Multi-modal  
Regional  
Traveller  
Information**



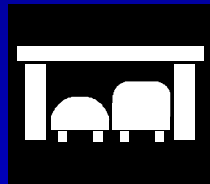
**Public Transport  
Management**



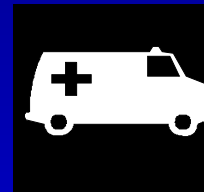
**Incident  
Management**



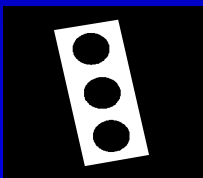
**Inter-urban  
Management**



**Electronic  
Toll  
Collection**



**Emergency  
Management**



**Adaptive  
Signal Control**



**Electronic  
Fare  
Payment**



**Highway/Rail  
Level Crossings**

# Inter-urban/Rural ITS



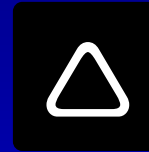
**Emergency Services**



**Crash Prevention and Security**



**Travel and Tourism**



**Operations and Maintenance**



**Traffic Management**



**Weather**



**Public Transport and Mobility**

# Commercial Vehicle Operations / Intermodal Freight

- Operations Management
- Safety Assurance (vehicle tracking)
- Document and Customs control
- Electronic Screening
- Carrier and Port Operations

# Intelligent Vehicles

- Technologies to address
  - Rear-end collisions
  - Lane change and merge collisions
  - Road departure collisions
  - Intersection collisions
  - Vision enhancement
  - Vehicle Stability
  - Driver condition
  - Driver workload



# Agenda

- Introductions and Overview
- **Background – US perspective**
- Background – European perspective
- The Evaluation Process
- Evaluation Techniques & Performance Measures
- Real Evaluations
- Wrap-up and Conclusions