

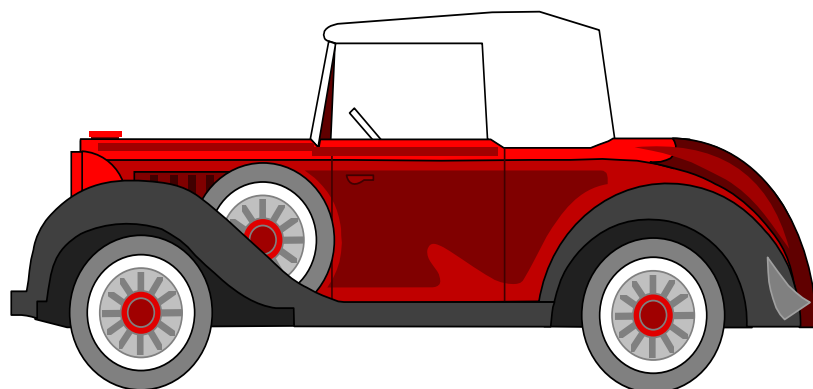


C1.4 Road Network Operations

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- Ankerbold International Ltd.
- Managing Consultant (ITS)
- jcm@ankerbold.co.uk

Traffic control 100 years ago



Traffic control in the 21st century



Real-Time
Operations

24 hours x 7 days a
week

Network Operations

Dynamic measures.....



accidents



congestion



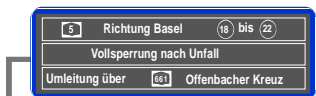
road works



events

Traffic situation
analysis / forecast

..... to remove and reduce traffic problems



“Wide area” networks

A network that has its geographical limits defined according to the road users' needs...

- that may be multi-modal, multi-jurisdictional, multi-national (local, regional, national authorities and concession-holders)...



- using possibly different levels of infrastructure (rural, local or national roads hierarchy)...



- that involves interaction and inter-agency cooperation on traffic management and traffic information

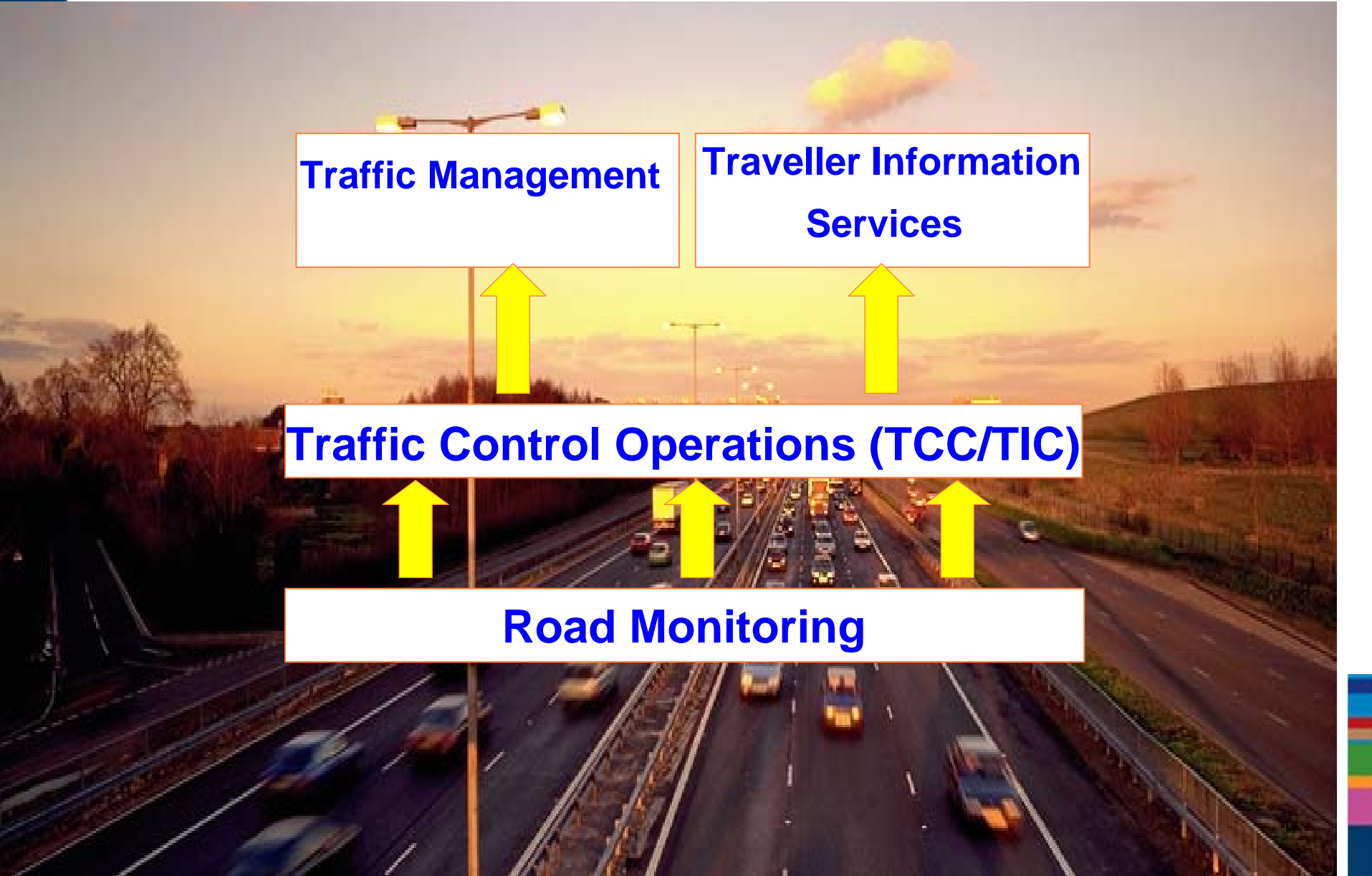
Network Operations: business components

Traffic Management

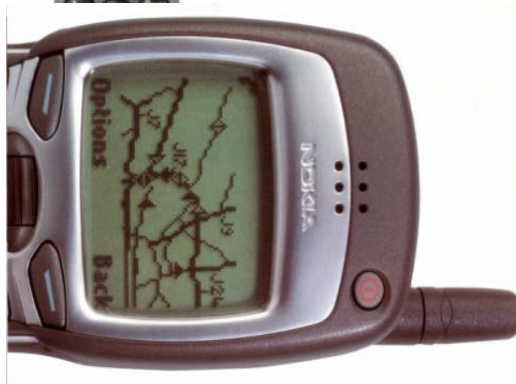
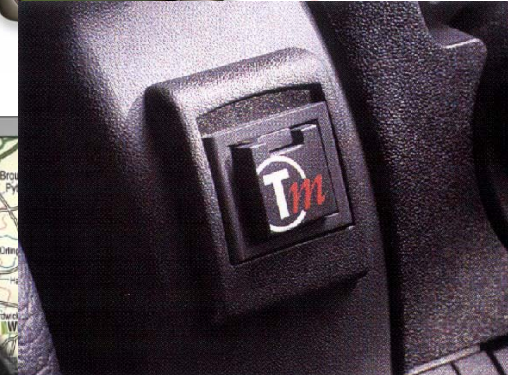
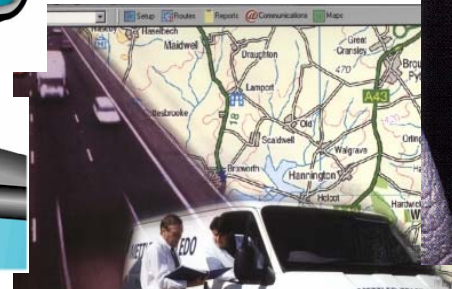
**Traveller Information
Services**

Traffic Control Operations (TCC/TIC)

Road Monitoring



Services to the Road User



Trafficmaster
online.com

find out more

Trafficmaster Products

KEY: traffic speed and direction
20 15 5
20-25 m.p.h. 10-15 m.p.h. 0-5 m.p.h.

Member Services

- Live traffic maps
- Journey Guard
- Mobile Internet Services
- Personal Traffic Alerts and Reports [click here](#)

NEW model

The all new Xsara Picasso - from the moment you set eyes on it you'll be hooked, because while style is difficult to define, it's very easy to recognise. Get ready for The Great Escape...

THE NEW CITROËN XSARA PICASSO

map journeys guard products my details log out

zoom

going, A1 (S) Free Flowing, A1079 (E) Free Flowing, A1079



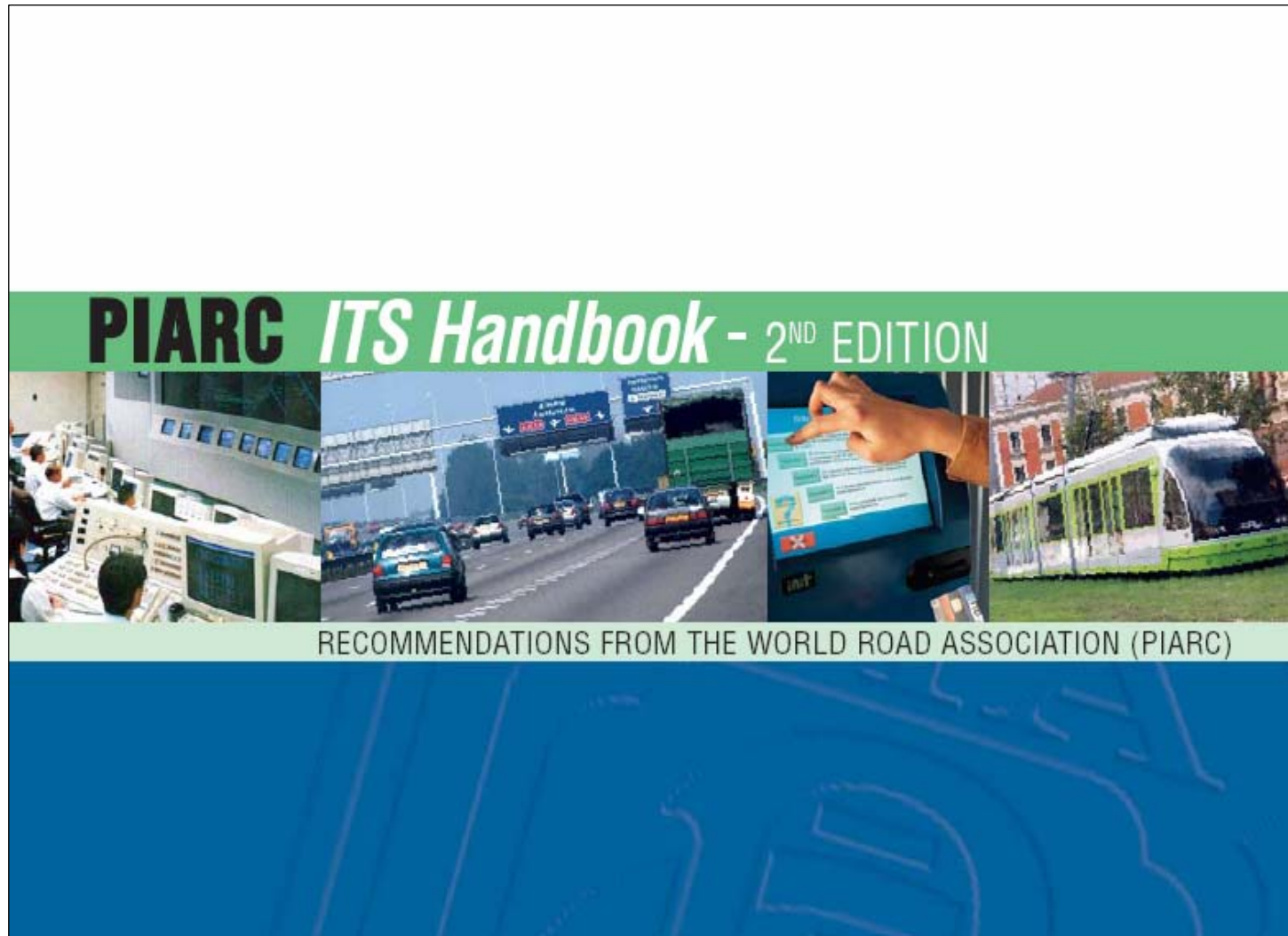
Network Operations: Mission

Network operations means getting the best performance from the asset.

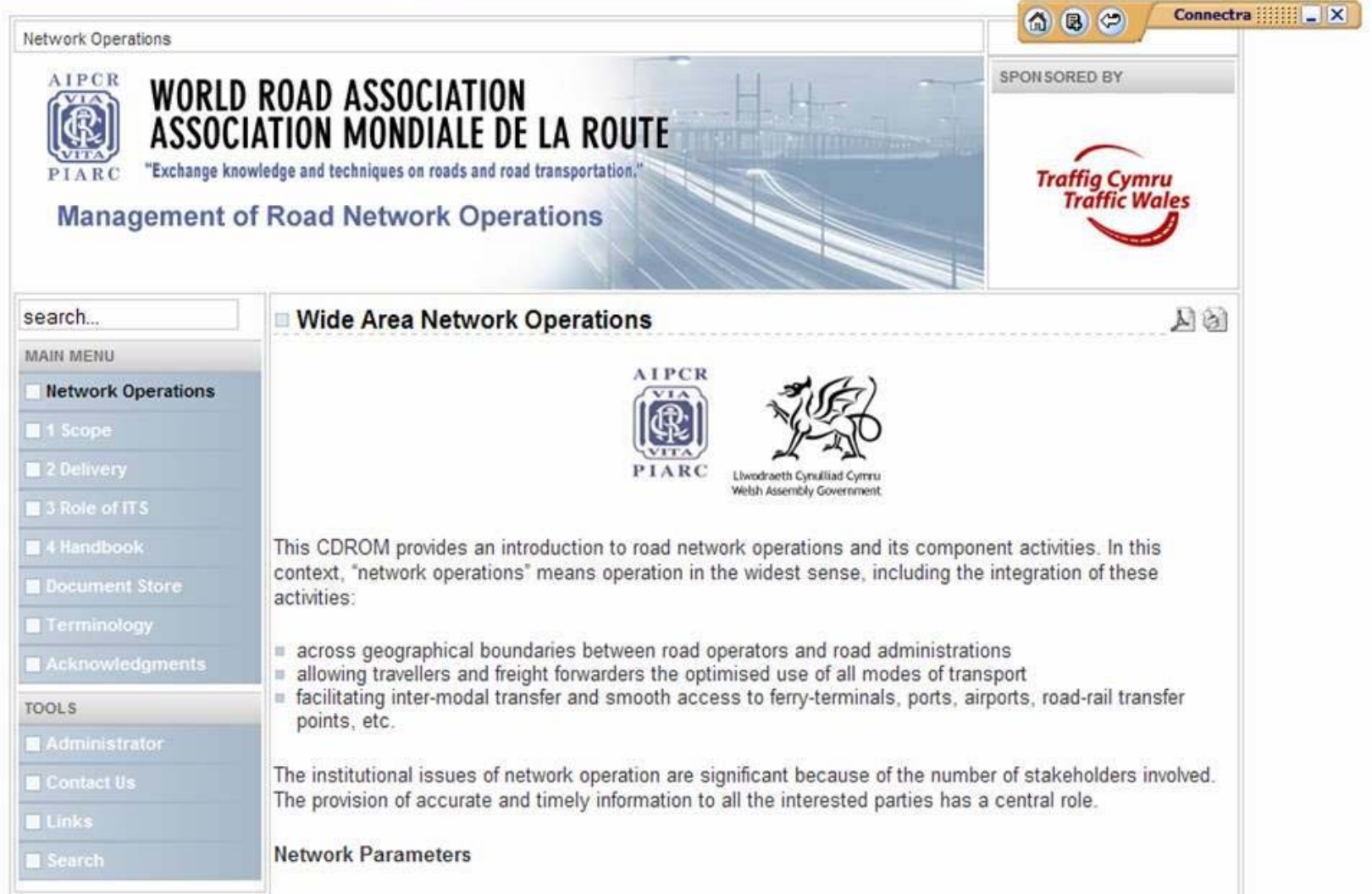
The road user becomes a customer!



Intelligent Transport Systems and "Wide area" Network Operations

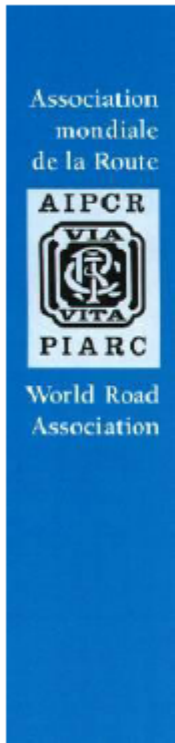


TC1.4 Report on Network Operations



The screenshot displays a web browser window with the following elements:

- Browser Title Bar:** Shows "Connectra" and standard navigation icons.
- Page Header:** "Network Operations" on the left; a large banner for the "WORLD ROAD ASSOCIATION / ASSOCIATION MONDIALE DE LA ROUTE" with the tagline "Exchange knowledge and techniques on roads and road transportation." and the sub-header "Management of Road Network Operations" on a background image of a highway at night.
- Sponsored By:** A box on the right containing the logo for "Traffig Cymru / Traffic Wales".
- Left Navigation Menu:**
 - Search bar: "search..."
 - MAIN MENU
 - Network Operations
 - 1 Scope
 - 2 Delivery
 - 3 Role of ITS
 - 4 Handbook
 - Document Store
 - Terminology
 - Acknowledgments
 - TOOLS
 - Administrator
 - Contact Us
 - Links
 - Search
- Main Content Area:**
 - Section: "Wide Area Network Operations" (indicated by a checked checkbox).
 - Logos: AIPCR VIA PIARC and the Welsh Assembly Government (Llywodraeth Cynulliad Cymru).
 - Text: "This CDROM provides an introduction to road network operations and its component activities. In this context, 'network operations' means operation in the widest sense, including the integration of these activities:"
 - List of activities:
 - across geographical boundaries between road operators and road administrations
 - allowing travellers and freight forwarders the optimised use of all modes of transport
 - facilitating inter-modal transfer and smooth access to ferry-terminals, ports, airports, road-rail transfer points, etc.
 - Text: "The institutional issues of network operation are significant because of the number of stakeholders involved. The provision of accurate and timely information to all the interested parties has a central role."
 - Section: "Network Parameters"



ROAD NETWORK OPERATIONS HANDBOOK

Chapter 1 Road Network Operations Overview

Contents

1.1	INTRODUCTION.....	2
1.2	ROAD NETWORK OPERATIONS – CHALLENGES, FIELDS AND MISSIONS	3
1.3	ROAD NETWORK OPERATIONS TASKS AND MEASURES	4
1.4	ROAD NETWORK OPERATIONS AND ITS SOLUTIONS.....	5
1.5	INSTITUTIONAL AND ORGANISATIONAL ASPECTS	8
1.6	PERFORMANCE ASSESSMENT.....	9

TC1.4 Report on Network Operations

MAIN MENU
<input type="checkbox"/> Network Operations
<input checked="" type="checkbox"/> 1 Scope
<input type="checkbox"/> 1.1 Core activities
<input type="checkbox"/> 1.2 User needs
<input type="checkbox"/> 1.3 Meeting expectations
<input type="checkbox"/> 1.4 Benefits
<input type="checkbox"/> 1.5 What is needed?
<input type="checkbox"/> 2 Delivery
<input type="checkbox"/> 3 Role of ITS
<input type="checkbox"/> 4 Handbook
<input type="checkbox"/> Document Store
<input type="checkbox"/> Terminology
<input type="checkbox"/> Acknowledgments

MAIN MENU
<input type="checkbox"/> Network Operations
<input type="checkbox"/> 1 Scope
<input checked="" type="checkbox"/> 2 Delivery
<input type="checkbox"/> 2.1 Traffic Information
<input type="checkbox"/> 2.2 Customer Service
<input type="checkbox"/> 2.3 Traffic Control
<input type="checkbox"/> 2.4 Asset Management
<input type="checkbox"/> 3 Role of ITS
<input type="checkbox"/> 4 Handbook
<input type="checkbox"/> Document Store
<input type="checkbox"/> Terminology
<input type="checkbox"/> Acknowledgments

MAIN MENU
<input type="checkbox"/> Network Operations
<input type="checkbox"/> 1 Scope
<input type="checkbox"/> 2 Delivery
<input checked="" type="checkbox"/> 3 Role of ITS
<input type="checkbox"/> 3.1 Implementation
<input type="checkbox"/> 3.2 Safety Impacts
<input type="checkbox"/> 3.3 Efficiency Gains
<input type="checkbox"/> 3.4 Environment
<input type="checkbox"/> 3.5 Non-technical
<input type="checkbox"/> 4 Handbook
<input type="checkbox"/> Document Store
<input type="checkbox"/> Terminology
<input type="checkbox"/> Acknowledgments

PIARC Technical Committee 1-4 Management of Network Operations

**23rd World Road Congress
18 September 2007**





Session Moderator

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