



INTERNATIONAL ROAD FEDERATION  
FEDERATION ROUTIERE INTERNATIONALE



الطرق السيارة بالمغرب  
Autoroutes du Maroc



Marrakech, Morocco

19 – 20 March 2013

# IRF REGIONAL CONFERENCE NORTH AFRICA - MEDITERRANEAN



## PROGRAMME

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## Programme at a Glance

Monday 18 March		Tuesday 19 March		Wednesday 20 March	
IRF Meetings		IRF Regional Conference: North-Africa & Mediterranean			
8:00 – 12:30	<b>IRF Board of Directors &amp; General Assembly Meetings</b>	9:00 - 12:30	<b>Opening Ceremony &amp; Panel Discussion</b>	9:00 - 12:30	<b>Plenary Sessions Road Safety</b>  ITS Workshop in Parallel  Green Public Procurement Workshop in Parallel
14:00 – 17:30	<b>IRF Committee meetings</b>	14:00 - 17:30	<b>Plenary Sessions on Interurban Road Links &amp; Urban Mobility</b>  Road Safety Audit Workshop in Parallel	14:00 - 15:30	<b>Panel Discussion</b>
19:30 – 22:00	<b>IRF Dinner</b>	20:00 - 22:30	<b>Gala Dinner &amp; InARoad Awards Ceremony</b>	15:30 - 16:00	<b>Closing Ceremony</b>

## General Information

### Conference languages

The conference languages are English and French. Arabic will be available for the opening ceremony only. Simultaneous translation will be provided. The Workshops' language is English.

### Conference venue

**Pullman Marrakech Palmeraie Resort & Spa 5\***  
 Km 6, Route de Fès  
 40060 Marrakech  
 Tel: +212 (0) 524 39 38 00  
 Email: h3000@accor.com  
<http://www.pullmanhotels.com>  
<http://www.accorhotels.com>

### More information

**For the programme:**  
 Mrs. Caroline Visser  
 Email: [cvisser@irfnet.org](mailto:cvisser@irfnet.org)  
 Tel: +41 22 306 02 60

**For registration & logistics:**  
 Mrs. Lydia Scotto  
 Email: [lscotto@irfnet.org](mailto:lscotto@irfnet.org)  
 Tel: +41 22 306 02 60

## WELCOME



It is with great pleasure that I encourage you to participate in the IRF Regional Conference taking place in Marrakech on 19 and 20 March 2013.

The City of Marrakech is delighted to welcome you for what promises to be an unforgettable conference in a charming and splendid setting. Its colors, its renowned Palm Grove, its proximity to the Atlas Mountain range and to the Sahara desert have made this city a famed international destination. History has recognized Marrakech's role as a Crossroads; where caravans that once ensured a flourishing trade with Africa were accustomed to resting and resupplying themselves prior to taking on the great crossing of the Sahara. We have the opportunity to come together here today, to this Crossroads, to discuss the modern day transportation networks that have replaced the caravan routes.

The conference in Marrakech, organized by the IRF in partnership with the Ministry of Transportation, the ADM and the AMR, will afford an opportunity to review the regional Mediterranean transportation network. Officials from the Maghreb and Mediterranean regions and beyond will confer on current issues and future scenarios. The IRF Regional Conference: North Africa & Mediterranean will offer an important and influential platform for road sector professionals, enabling you to dialogue, exchange experiences and share your visions for a new generation of sustainable and economically viable road networks. Key issues will be discussed, such as, operating systems, traffic management, and especially intelligent transport systems, funding mechanisms, maintenance and management of networks, and public-private partnership, etc.

Don't miss out on the opportunity to take part in this important meeting at the crossroads of the Mediterranean region.

**Otmane FASSI FEHRI**  
Director General, Autoroutes du Maroc, Morocco



On behalf of the International Road Federation, I would like to welcome you to the IRF Regional Conference: North-Africa & Mediterranean.

Demanding climatic conditions, growing urbanisation and changing mobility patterns, coupled with a period of recent economic and social upheaval, have imposed a number of important challenges to road development and operation in the North Africa and Mediterranean region.

To dynamically address these, and to capitalise on the very real opportunities they present for the future, IRF and its local partners Autoroutes du Maroc and the Moroccan Road Association, bring together leading road sector players and other key stakeholders and experts for what promises to be a landmark event in 2013's professional and business calendar.

A rich and varied programme including the opening ceremony addressed by Senior dignitaries, plenary sessions, panel debates and parallel workshops on highly topical subjects awaits you, in the splendid surroundings and hospitality of Marrakech. Furthermore, the InARoad Awards Ceremony for excellence in road sector will be solemnized during the Gala Dinner.

We are honoured and grateful for the support of H.E. Mr Abdelaziz RABBAH, Minister of Equipment and Transport, royal Kingdom of Morocco.

We hope that the outcomes of the Conference will provide important inspiration for road experts, and that the Conference will contribute in establishing useful business contacts, eventually enhancing advanced road construction technologies and research on road safety improvement.

**Kiran K. KAPILA**  
Chairman IRF Geneva

## Conference Committee

- ▶ Mr. Kiran K. KAPILA, Chairman IRF Geneva
- ▶ Mr. Otmane FASSI FEHRI, Director General, Autoroutes du Maroc, Morocco
- ▶ Mr. Abdelaziz DHABI, President, Association Marocaine des Routes, Morocco
- ▶ H.E. Mr. Tekletsadik REBA AYANE, Hon'ble Minister of State, Ministry of Transport, Ethiopia
- ▶ Dr. Essam SHARAF, Former Prime Minister, Former Minister of Transport, Professor of Highway Engineering, Cairo University, Egypt
- ▶ Dr. Yücel ERDEM, Erer Consulting, Engineering and Contracting Co, Turkey
- ▶ Mr. Josef CZAKO, Senior Vice President, Kapsch TrafficCom, Austria
- ▶ Mrs. Logashri SEWNARAIN, President, South-African Road Federation, South-Africa
- ▶ Mr. Hilton VORSTER, Director, City of Tshwane, South-Africa
- ▶ Mrs. Caroline VISSER, Deputy Director General, IRF Geneva, Switzerland

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## Silver Sponsor



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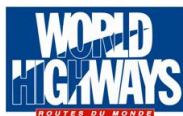
## Endorsers & Partners



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## Monday, 18 March 2013

8:00 - 9:30	IRF Executive Committee & Board of Directors meeting (IRF Board Members only) <i>Bab Doukoula room</i>	
10:00 – 12:30	IRF General Assembly (IRF Members only) <i>Bab Doukoula room</i>	
13:00 - 18:00	Conference Registration	
14:00 – 17:30	4th Working Meeting of the IRF Road Financing & Economics Committee (Members only) <i>El Badi room</i>	IRF Group of Experts on Road Safety (Members only) <i>Bahia room</i>
19:30 – 22:00	IRF Dinner, <i>Le Ryad Restaurant, Pullman Hotel</i>	

## Tuesday, 19 March 2013

8:00 – 9:00	Conference Registration	
	<b>Opening Ceremony, Koutoubia room</b>	
	<b>Opening</b>	
	<ul style="list-style-type: none"> <li>▶ Mr. Kiran K. KAPILA, Chairman IRF Geneva</li> <li>▶ Mr. Otmane FASSI FEHRI, Director General, Autoroutes du Maroc, Morocco</li> </ul>	
9:00 – 10:30	<b>Key notes</b>	
	<ul style="list-style-type: none"> <li>▶ H.E. Mr Abdelaziz RABBAH, Minister of Public Works and Transport, Morocco</li> <li>▶ Mrs. Amani ABOU-ZEID, Resident Representative, African Development Bank, Morocco</li> <li>▶ Dr. Sudhir KRISHNA, Secretary, Ministry of Urban Development, India</li> </ul>	
10:30 – 11:00	Coffee Break	
	<b>Panel Discussion, Koutoubia room</b>	
	On the role of road infrastructure networks in multi-modal transport, logistics and trade in the region.	
	<b>Moderated by:</b>	
	<ul style="list-style-type: none"> <li>▶ Mr. Kiran K. KAPILA, Chairman IRF Geneva</li> </ul>	
11:00 – 12:30	Panelists:	
	<ul style="list-style-type: none"> <li>▶ Mr. Hicham N'HAMMOUCHA, Director of Roads, Ministry of Transport, Morocco</li> <li>▶ Mr. Otmane FASSI FEHRI, Director General, Autoroutes du Maroc, Morocco</li> <li>▶ Representative, The World Bank</li> </ul>	

- ▶ Mrs. Amani ABOU-ZEID, Resident Representative, African Development Bank, Morocco
- ▶ Mr Younes TAZI, Directeur Général, Agence Marocaine de Développement de la Logistique

12.30 - 14.00 Lunch Break

**Plenary Session 1: Interurban Road Links, Koutoubia room**

**Moderated by:**

- ▶ Mr. Otmane FASSI FEHRI, Director General, Autoroutes du Maroc, Morocco

Releasing economic potential of regions with strategic road planning

- ▶ Dr Cristian GONZALEZ, Programme Officer Statistics & Data, IRF, Geneva

Building motorways in environmentally sensitive areas

14:00 – 15:30

- ▶ Mr. Houssine EJJAOUANI, Technical and Scientific Director LPEE, Morocco

South Africa N3 Toll Concession(Pty) Ltd: Lessons Learnt during the Bidding and Operations Phase

- ▶ Mr. Neil TOLMIE, CEO, N3 Toll Concession, South Africa

Benefits of Life-Cycle Assessment of Roads

- ▶ Bouchaïb SAFIR, Technical & Development Manager MENA & North Africa, COLAS, France

Performance of Roads in a Hot Climate

- ▶ Dr. Otakar VACIN, Associate Professor, Czech Technical University, Czech Republic

15:30 – 16:00 Coffee Break

**Plenary Session 2: Urban mobility, Koutoubia room**

**Moderated by:**

- ▶ Dr Adnan RAHMAN, Director, Cambridge Systematics, Netherlands

16:00 – 17:30

Cities of Tomorrow: Mobility in the Urban Context

- ▶ Mr. Guruprasad MOHAPATRA, Municipal Commissioner, Ahmedabad, India

Implementing Bus Rapid Transit in cities

Sharing the Road: Planning implications for urban road networks

- ▶ Liana Vetch, Programme Coordinator, UNEP

20.00-22.30

**Gala Dinner & InARoad Awards Ceremony Koutoubia room**

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## Wednesday, 20 March 2013

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### Plenary Session 3: Road Safety, *Koutoubia room*

#### **Moderated by:**

- ▶ Mrs. Logashri SEWNARAIN, President, South-African Road Federation, South Africa

Brief overview of regional road safety perspective & Global Status Report

IRF Road Safety Masters Plans Guidelines

- ▶ Mr. Hilton VORSTER, Executive Director, Transport & Infrastructure Planning, City of Tshwane, South Africa

9:00 – 10:30

Strategic Integral Plan for Road Safety in Morocco

- ▶ Mr Benacer BOULAAJOU, Secrétaire Permanent, Comité National de Prévention des Accidents de la Circulation, Maroc

The Provision of Safe Infrastructure

- ▶ Mr. Rik NUYTTENS, Regulatory Affairs Manager, 3M, Belgium

The Role of ITS in Road Safety

- ▶ Mr. Philip WIJERS, Director Government Affairs, GATSO, Netherlands

#### **Questions & Debate**

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10:30 – 11:00

Coffee Break

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### Plenary Session 4: Road Safety (continued), *Koutoubia room*

#### **Moderated by:**

- ▶ Mr. Hilton VORSTER, Executive Director, Transport & Infrastructure Planning, City of Tshwane, South Africa

Effective Advocacy Programmes

- ▶ Mr. Simon BACHAWATI, MENA Region Coordinator, Global Road Safety Partnership (GRSP)

Data Management for Road Safety

- ▶ Mr. Yonas BEKELE, Infrastructure and Natural Resources Development Section, United Nations Economic Commission for Africa

11:00 – 12:30

Using crash data to inform the development of road safety programmes

- ▶ Mr Subu KAMAL, Strategic Applications Director, TRL, UK

Developing Road Safety Audit Programmes

- ▶ Mr. Paul HILLIER, National Technical Leader, Incident Investigations & Reviews Safe Systems, ARRB, Australia

Road Safety Risk Mapping Using Structured Data

- ▶ Prof. P. K. SIKDAR, Advisor, IRF and President, ICT Pvt. Ltd.

#### **Panel discussion**

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12:45 – 14:00

Lunch Break

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**Panel Discussion, Koutoubia room**

On the Future of Road Networks

**Moderated by:**

- ▶ Mr. Josef CZAKO, Senior Vice President, Kapsch TrafficCom, Austria

**Panelists:**

- 14:00 – 15:30
- ▶ Mr. Abdelaziz DAHBI, President, Moroccan Road Association (AMR), Morocco
  - ▶ Mr. Diego FERRER, Senior Economist, European Investment Bank, Luxembourg
  - ▶ Mrs. Zeina NAZER, Secretary General, ITS Arab
  - ▶ Dr. Adnan RAHMAN, Director, Cambridge Systematics, Netherlands
  - ▶ Mrs Oshani PERERA, International Institute for Sustainable Development
  - ▶ Mr. Hilton VORSTER, Executive Director, Transport & Infrastructure Planning, City of Tshwane, South-Africa
  - ▶ Mrs. Logashri SEWNARAIN, President, South African Road Federation (SARF), South-Africa
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**Closing Ceremony, Koutoubia room**

IRF World Meeting 2013

- ▶ Mr. Jean Claude ROFFÉ, President, IRF 2013 World Meeting Outreach Committee, France

- 15:30 – 16:00
- Conference Conclusions
- ▶ Mr. Otmane FASSI FEHRI, Director General, Autoroutes du Maroc, Morocco

The Way Forward

- ▶ Mr. Kiran K. KAPILA, Chairman IRF Geneva

Conference Closing

- ▶ Mrs. Caroline VISSER, Deputy Director General, IRF Geneva, Switzerland
- 



The IRF is proud to announce the winners of the 2012 InARoad competition. The Awards Ceremony will take place at the Gala dinner on Tuesday 19 March 2013.



1.

**First Prize - Aceh Road Rehabilitation and Reconstruction Project**

Aceh, Indonesia - submitted by Mr. Roy Ventura, USAID, Indonesia.

**Technical category: Rural Transport**

In designing and constructing a new high-tech coastal highway to trigger the Aceh economy, the winning InARoad project had to overcome endless obstacles of logistics, government coordination, community outreach, capacity building/technology transfer, budget constraints and environmental management in a devastated, rudimentary location that - on top of everything else - had been the scene of a 30 year insurgency.

2.

**Second Prize - Consultancy Services for the Maintenance Needs Assessment and Updating of Road Financing Study**

Ethiopia - submitted by Mr. Satyakam, Intercontinental Consultants and Technocrats Pvt. Ltd, India

**Technical category: Finance & Economics**

The Government of the Federal Democratic Republic of Ethiopia has accorded high priority for road sector development programmes. As a result, considerable investments have been made to improve the country's road networks as a basis for enhancing overall socio-economic development.

3.

**Third Prize - Ghana Bamboo Bike Initiative**

Ghana - submitted by Miss. Bernice Dapaah, Bright Generation Community Foundation

**Technical category: Social Development**

This InARoad laureate addresses the quadruple problems of climate change, poverty, rural-urban migration and high unemployment amongst youth by creating sustainable livelihood job skills as bamboo bike builders. The project produces high-quality multipurpose bikes, made from an abundant local resource, that are appropriate for specific local needs and the country's high terrain.

**Honorable mentions:**

Professional Driver Training Project Zambia - submitted by Mr. Gary Foster, Transaid, United Kingdom

**Technical Category: Road Safety**

Enterprise Road Management System - submitted by Mr. Rajiv Sharaf, Reliance Infrastructure Ltd, India

**Technical Category: Governance**

Media Campaign for Public Support for Cleaner Buses and Fuels - submitted by Mr. Cosmas P.M. Takule, Dar Rapid Transit Agency, Tanzania

**Technical Category: Urban Mobility**

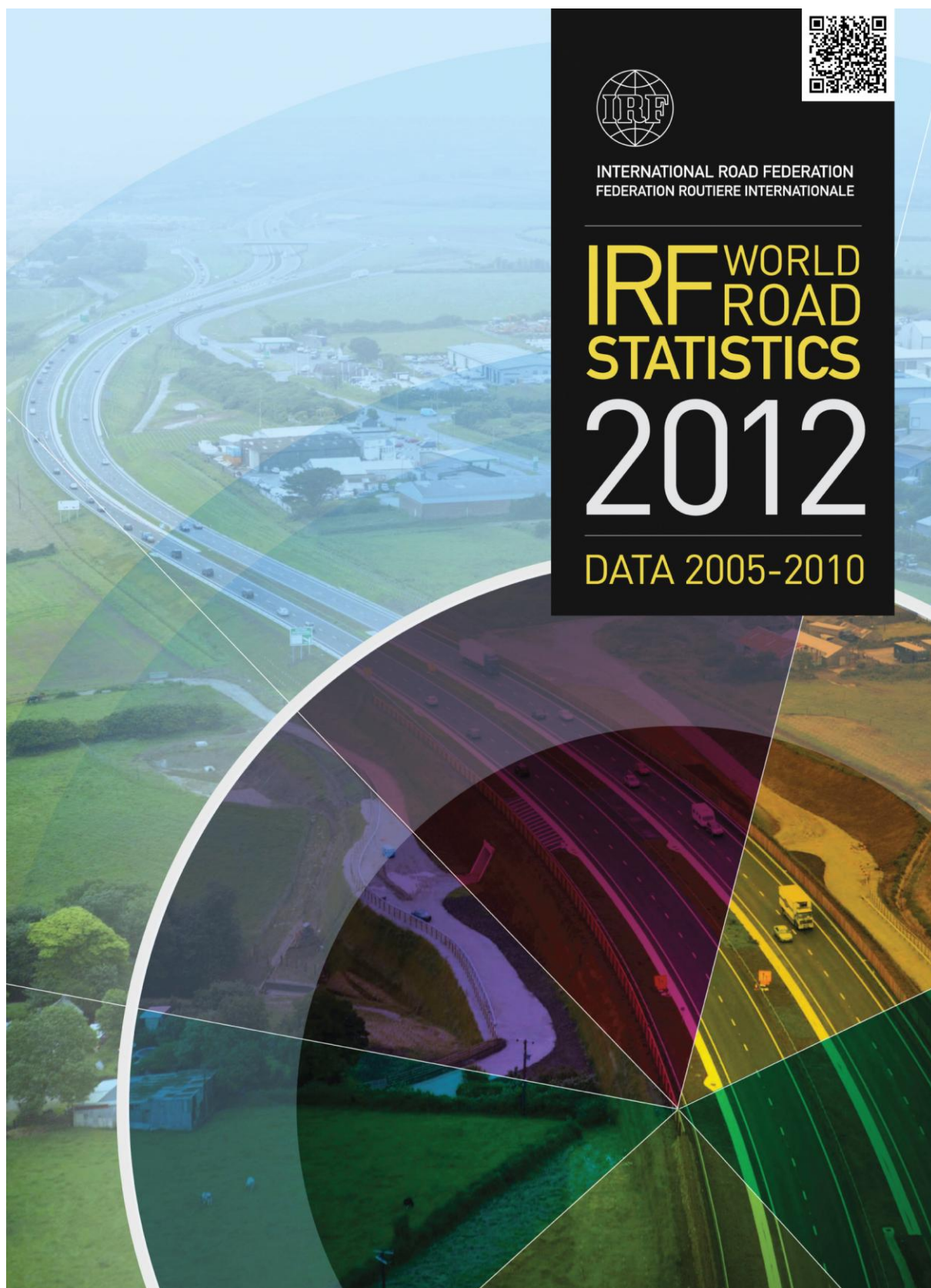
Ethnic Minority Women's Rural Road Maintenance in Vietnam - submitted by Phuong Thi Minh Tran, World Bank, EASVS country office, Vietnam

**Technical Category: Social Development**

The **Innovation Award for Road Transport in Developing Countries (InARoad)** is a competition recognising exemplary projects that have made real impacts on transport in developing countries and rewarding innovative, sustainable and good practices in this field. By honouring excellence and innovation in transport the award seeks to showcase the positive impacts of improved road infrastructure and transport conditions on the quality of life of communities and its vital contribution to poverty reduction, thus encouraging decision-makers and practitioners worldwide to implement such solutions.



INTERNATIONAL ROAD FEDERATION  
FEDERATION ROUTIERE INTERNATIONALE



# Implementing a Road Safety Audit – 36 Good Reasons Why!

This workshop is powered by:



## Workshop - Tuesday, 19 March 2013

*For pre-registered delegates only. The workshop is in English (no translation provided).  
The workshop will take place in the Tiskwine room.*

*Workshop conducted by: Mr. Paul HILLIER, National Technical Leader, Safe Systems, ARRB Group, Australia*

### Programme

<b>14:00-14:10</b>	<b>Welcome &amp; Opening</b>
<b>14:10-14:30</b>	<b>Session 1: Road Safety Auditing 101</b> <ul style="list-style-type: none"> <li>▶ Risks / hazards on road networks - identifying and defining them</li> <li>▶ Can we be Reactive? Preventive? Predictive? (Or all three?)</li> </ul>
<b>14:30-15:45</b>	<ul style="list-style-type: none"> <li>▶ What is a Road Safety Audit? (and what it isn't)</li> <li>▶ Indicative costs and benefits (including the 36 good reasons why!)</li> <li>▶ Typical stages &amp; a brief look at process – inc. reporting and record keeping</li> </ul>
<b>15:45-16:00</b>	<b>Coffee Break</b>
<b>16:00-16:30</b>	<b>Session 2: Risk / Hazard Management and Mitigation</b> <ul style="list-style-type: none"> <li>▶ Possible responses to a Road Safety Audit report</li> <li>▶ Managing Risk - to act or not? (including the concept of 'do no harm')</li> <li>▶ Mitigation options – overview, inc. possible returns &amp; evaluation</li> </ul>
<b>16:30-17:00</b>	<b>Session 3: Institutional Strengthening &amp; Early Steps</b> <ul style="list-style-type: none"> <li>▶ Training and developing of auditors (inc. IRF initiatives, train the trainer)</li> <li>▶ Available guidance documents and toolkits</li> <li>▶ Where to Now? – the Early Steps towards a road safety audit regime</li> </ul>
<b>17:00-17:45</b>	<b>Session 4: Where It Can Go Wrong / Future Considerations</b> <ul style="list-style-type: none"> <li>▶ Potential “weak links in the chain” – inc. integration within a project cycle(s)</li> <li>▶ Auditor accreditation, audit of audits and auditors</li> <li>▶ The Future? – working with the Safe System, evolution of practices &amp; tools</li> </ul> <p>Questions &amp; Answers</p>
<b>17:45-18:00</b>	<b>Closing Remarks and Workshop Close</b>

# ITS Workshop Programme

## Wednesday, 20 March 2013

Sponsored by:

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*For pre-registered delegates only. The workshop is in English (no translation provided).  
The workshop will take place in the Tiskwine room.*

### Programme

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#### Welcome & Opening

**9:00 - 9:45**

- ▶ Mr. Kiran K. KAPILA, Chairman International Road Federation
- ▶ Mrs. Zeina NAZER, Secretary General, ITS Arab

#### Key note

- ▶ Mr. Josef CZAKO, Chairman IRF Policy Committee on ITS, Senior Vice President, Kapsch TrafficCom, Austria
- 

#### Status of ITS deployment in the MENA region

**9:45 - 10:30**

- ▶ Morocco: Mr. Mustapha CHIKHI, Engineering Director, Autoroutes du Maroc
  - ▶ Egypt: Dr. Khaled EL ARABY, ITS Egypt
  - ▶ Tunisia & Palestine: Dr. Muna HAMDY, Founder and Leader iMobility Future Vision Group and Virtual Research Centre
  - ▶ Turkey: Representative of the Turkish Ministry of Transport, Maritime Affairs and Communications (TBC)
- 

**10:30-10:50**

Coffee Break

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#### Interactive Discussion

**10:50- 11:40**

- What are the main transport challenges in the MENA region?
- Is ITS sufficiently utilized to address these challenges?
- What are the main hurdles to deployment of ITS?

#### Moderated by:

- ▶ Mrs. Zeina NAZER, Secretary General, ITS Arab
  - ▶ Mr. Josef CZAKO, Chairman IRF Policy Committee on ITS
- 

#### Activities of International Organizations

**11:40 – 12:20**

- ▶ Mrs. Zeina NAZER, Secretary General, ITS Arab
  - ▶ Mrs. Irene FUSCO, Telespazio S.p.A, Italy
  - ▶ Mrs. Caroline VISSER, Deputy Director General, International Road Federation
- 

**12:20 – 12:30**

**Wrap up & Closing**

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# Buy it Green! Sustainable and Green Public Procurement in the Road Sector

## Workshop - Wednesday, 20 March 2013



*For pre-registered delegates only. The workshop is in English (no translation provided).  
The workshop will take place in the El Badi room.*



*Workshop conducted by:*

- *Mrs. Oshani PERERA, Program Leader, International Institute for Sustainable Development, Switzerland*
- *Mrs. Laura TURLEY, Research Officer, International Institute for Sustainable Development, Switzerland*
- *Mr. Ranjeet KUMAR DAS, Government of Assam, India*

### Programme

<b>9:00 - 9:15</b>	<b>Welcome &amp; Opening</b>
	<p><b>Session 1: Sustainable Procurement: why, where and how?</b></p> <p>The business case for Sustainable Public Procurement and Public Private Partnerships (PPPs)</p> <p>Embedding sustainability criteria (environmental, social and economic) into the procurement and PPP cycle: what are the effective points of entry?</p>
<b>9:15 - 10:55</b>	<p>Questions &amp; Answers</p> <p><b>Session 2: Procuring Green Roads:</b></p> <ul style="list-style-type: none"> <li>▶ The Green Roads Rating System</li> <li>▶ EU Green Public Procurement Guidelines for Road Construction and Traffic Signs</li> <li>▶ CHANGER' the IRF GHG Calculator as a means to verify compliance with sustainability criteria</li> </ul>
<b>10:45-11:00</b>	Coffee Break
	<p><b>Session 3: Developing Green Roads in Assam, India</b></p> <p>Questions &amp; Answers</p>
<b>11:00- 12:15</b>	<p><b>Session 4: Promoting Green Roads: Next Steps with the Partnership for Procurement and Green Growth</b></p>
<b>12:15 – 12:30</b>	<b>Conclusion</b>

## Sponsorship Information

### Gold Sponsor



- **Intercontinental Consultants and Technocrats Pvt. Ltd**

Intercontinental Consultants and Technocrats Pvt. Ltd. (ICT), an ISO-9001:2008 Certified Company, is a leading international Consulting Organisation specializing in infrastructure development in various sectors.

Founded in 1987, ICT's operations have grown to be a major engineering force providing a full range of professional services. The company has undertaken over 600 consultancy assignments in 38 countries of Asia, Africa, The Pacific and the Middle East.



The Corporate office of the Company is located at New Delhi and it has a number of branches and project offices in various countries, including Afghanistan, Bangladesh, Ethiopia, Ghana, Mongolia, Philippines, Tanzania, besides several offices spread across various states in India.

ICT has extensive experience of working with various international funding institutions like the World Bank, African Development Bank, Asian Development Bank, Kuwait Fund for Arab Economic Development, Millennium Challenge Corporation, Abu Dhabi Fund for Development, Department for International Development, Japan International Corporation Agency, Commonwealth Secretariat, International Civil Aviation Organisation, World Tourism Organisation, United Nations Development Programme, Kreditanstalt für Wiederaufbau, etc.

ICT has taken a premier role in advising the Authorities and arranging training programmes on Road Safety and has undertaken a number of Road Safety Consultancy assignments in various countries, including India. For services provided for the project "Dissemination of Road Safety Manual", in India, ICT had received the prestigious Global Road Achievement Award from the International Road Federation.

ICT has bagged a number of awards for providing consultancy services of the highest order, including the Niryat Shree Award and Silver Trophy for best Export Performance in Consultancy Services during 2009-2010, awarded by the Hon'ble President of India.

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- **Dupont**

DuPont ([www.dupont.com](http://www.dupont.com)) is a science-based products and services company. Founded in 1802, DuPont has been bringing world-class science and engineering to the global marketplace in the form of innovative products, materials, and services since 1802. The company believes that by collaborating with customers, governments, NGOs, and thought leaders we can help find solutions to

such global challenges as providing enough healthy food for people everywhere, decreasing dependence on fossil fuels, and protecting life and the environment.

In accordance with this vision, DuPont actively contributes to the paving industry to provide sustainable improvements in the performance of asphalt concrete through the use of DuPont™ Elvaloy® terpolymer. Added in small quantities to the mix Elvaloy® contains an active ingredient that chemically reacts with asphalt to form a polymer-linked-asphalt system with improved performance properties. These include enhanced resistance to fatigue and cracking as well as the ability to stretch and contract as temperatures change. Meanwhile, the elastomeric properties of the material provide a more stable and stronger mix, improving shear resistance and therefore improving the rutting performance of the road surface.

- **3M**



For over 60 years, 3M has lead the development of reflective films with "quality" and "innovation" as their mottos.

Committed to improving road safety, 3M has a dedicated department which works to provide innovative solutions to meet the needs of drivers:

- Vertical Signage: full range of reflective films for permanent signs meeting the needs of driver visibility at night
- Components for Road Signs: complete range for efficient production of reflective signs
- Temporary Signage: Full range for signaling projects, reflective films for traffic signs and road markings to make potentially dangerous situations visible
- Horizontal Display: full range of highly reflective, temporary or permanent: road markings, blocks, "primers" and application machines for better guidance day and night
- Vehicle Signage: full range of reflective safety markings for better visibility of police vehicles, emergency and municipal, of vans, of special transports, of buses
- Vehicle Registration: solutions improving vehicle registration, partnerships to meet the current demand and explore new avenues for the future

## Gala Dinner sponsor

- **Q-Free**



*Leading the way in Road User Charging and Advanced Transportation Management*

Q-Free is a leading global supplier of products and solutions within ITS (Intelligent Transport Systems) for Road User Charging and Advanced Transportation Management. With references in every main application area, including highway tolling, truck tolling and congestion charging, Q-Free offers a complete range of versatile products, turnkey solutions and professional services based on the most advanced and cost effective technologies. Over the years the company has established a next generation core technology portfolio in all key areas, such as DSRC, ALPR and GNSS.

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[www.sreprogramme.org](http://www.sreprogramme.org)

# Senior Road Executives Programme™ 2013

School of Civil Engineering, University of Birmingham, UK



Road Sector Reforms

17–19 June 2013

Road Financing

20–22 June 2013

Road Safety

24–26 June 2013

Road Maintenance Management

27–29 June 2013



International  
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