Overview

The landscape of mobility in Qatar is changing rapidly with the introduction of Qatar’s rail network, Lusail tram and Doha Expressway packages. Furthermore, new trends in mobility models and advancements in technology are enabling the integration of these otherwise disparate modes of transportation.

With this in mind, the ITS and Future mobility Middle East conference will focus on the integration and connectivity of mobility models through the use of intelligent transport solutions such as autonomous vehicles, big data, intelligent signage and effective traffic management strategies.
Confirmed speakers:

Akin Adamson, Director, Middle East Region, TRL
Heni Karaa, Technology Product Manager, Qatar Mobility Center
Aurang Zeb, Roads Engineering Advisor, Public Works Authority ‘Ashghal’ (subject to final approval from DG)
Fethi Filali, Head of Technology at QMIC, Qatar Mobility Center
Wilson Craig, Manager – Transport Technology, Civil & Infrastructure, Aecom
Narasimha Murthy, Senior Manager – Transportation Planning and Traffic Engineering, Khatib and Alami
Moen Azmi, Head of Infrastructure and Traffic Department, Arab Engineering Bureau
Brig Mohammad Al Malki, General Secretary of the National Traffic Safety Committee
Prof. Kim Jraiw, Manager, National Traffic Safety Office, National Traffic Safety Committee
Nabeel Alzaka, Executive Director, Surface Mobility Consultants

Invited speakers:

David Sears, Senior Transportation Planner - Mott Macdonald
Mr. Siddiq Dali, Transportation Engineer, Ministry of Interior
Moen Azmi, Head of Infrastructure and Traffic Department, Arab Engineering Bureau
Mr. Raimund Hanauer, Civil Manager, Qatar Railways Company
Fabian Marsh, Roads Safety Advisor, Public Works Authority ‘Ashghal’
Vinod Pulinote, Transport Planner, Ministry of Transport and Communications
Dimitris Condor, Design Manager for Roads and Highways, Khatib and Alami
Nabeel Al Rawi, Chief Transport Engineer / Senior Projects Director, Ministry of Transport and Communications
Mr. Narasimha Murthy, Senior Manager – Transportation Planning and Traffic Engineering, Khatib and Alami
Mohammed Dakri, Principal ITS Consultant, Amey (Qatar)
Osaid Samarah, ITS and Traffic Center Operator, Qatar Mobility Center
Fethi Filali, Head of Technology at QMIC, Qatar Mobility Center

Monday 18th September 2017– Forum day one

08:00  Start of forum registration and welcome refreshments
08:45  Opening remarks from IQPC and introduction to session Chair
08:50  Opening remarks form the session chair

MASTERPLANS AND NATIONAL TRANSPORTATION STRATEGY

09:00  An update on Qatar’s National Transportation Strategy (QNTS)
  • Strategies for encouraging the use of public transportation in Qatar
  • An overview of bus infrastructure guidelines and design requirements for passenger bus services in Qatar
  • Integrating public transport infrastructure into Qatar’s multi-modal transportation plan

09:00  An update on Qatar’s Transport Masterplan: New guidelines for the development Of Qatar’s transportation infrastructure

09:20  An overview of Qatar’s freight transport masterplan: guidelines for developing Qatar’s future multimodal freight transportation system
09:40 Pedestrian Safety Masterplan: Guidelines for designing Qatar’s public realm to facilitate walkability and integrated mobility

10:10 The impact of high capacity transit systems on Qatar’s economy

10:40 ITS applications in public transportation: Developing a smarter city through intelligent transportation solutions

11:10 An update on Ashghal’s road asset management centre: Using ITS to monitor Qatar’s road networks for intelligent transport planning and decision making
  - Developing a predictive road maintenance strategy through the use of ITS and data collection

11:40 Official exhibition opening followed by networking refreshments

12:00 Live theatre sessions!
   Back by popular demand to the Qatar Transport Safety Forum, the live theatre sessions are designed to increase interaction and networking through a series of live demonstrations and interactive presentations.

**Session highlights and how it all works:**
   - There will be two theatres showing a total of 8 shows that will be presented by leading solution providers
   - There will be a total of 4 show times, meaning that two shows will run at the same time. Show times are 11:00AM, 11:20AM, 12:10PM and 12:40PM
   - As an attendee, you will need to select the shows you want to attend at the given time slot
   - There are limited seats per theatre so it is advised to arrive 5 minutes before the start of the show as the doors will open a few minutes before the show starts
   - Each show will last for 15 minutes, at which point delegates will be given 5 minutes to either switch theatres or stay for the next show. Please note that in some cases the same show will be presented twice meaning you may want to switch theatres
   - Please see the theatre grid below for show times, details and topics

<table>
<thead>
<tr>
<th>Time</th>
<th>Theatre A</th>
<th>Theatre B</th>
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<tbody>
<tr>
<td>12:00</td>
<td>Intelligent signage solutions to prevent collisions</td>
<td>New designs for crash barriers to reduce the degree of severity of vehicle impact</td>
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<tr>
<td>12:20</td>
<td>Using wave motion sensors to prevent high vehicle collisions</td>
<td>Lighting solutions to enhance pedestrian safety</td>
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<tr>
<td>12:40</td>
<td>Intelligent traffic detection solutions for 24/7 traffic monitoring</td>
<td>Smart crosswalk solutions to enhance pedestrian safety</td>
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<tr>
<td>13:00</td>
<td>ITS for intelligent fleet management</td>
<td>Passive safe solutions to protect motorists</td>
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13:20 Networking lunch

**THE BREAK-OUT**
Following lunch, delegates will break-out into focused discussion sessions. Delegates will have time to interact with field experts on select topics in an environment that will promote critical thinking on the most relevant issues in each perspective session. **Please choose from:**

<table>
<thead>
<tr>
<th>Room A: ITS for public Transportation and Road Optimisation</th>
<th>Room B: Achieving road safety through technology, enforcement and engineering</th>
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| 14:20 Developing an effective incident response strategy using ITS solutions  
  - How can ITS improve response time and reduce casualties  
  - Using ITS to track crash sites | 14:20 Developing key performance indicators for road safety ratings: Doha Expressway case study  
  - The role of road asset KPI’s on road safety ratings  
  - Factors affecting road safety ratings in Qatar |
| 14:40 An overview of intelligent vehicle technologies for improved safety and reduced congestion  
  - How can vehicle-to-vehicle communication (V2V) and vehicle-infrastructure integration (VII) systems be added to currently-available driver system to decrease the number and severity of collisions and to ease traffic flow? | 14:40 Developing an effective CSR campaign for road safety |
| 15:00 Fleet management: Implementing intelligent tracking solutions for public transport fleet management | 15:00 Understanding the factors affecting decision making at grid crossings by cyclists, pedestrians and motorists  
  - Examining road users behaviour at grid crossings  
  - Strategies for influencing the behaviour of motorists, pedestrians and cyclists at grid crossings for a reduced collisions |
| 15:20 Lusail Expressway case study: ITS for tunnel management  
  - Solutions for integrating traffic control with facility operations for enhanced safety of motorists  
  - Maximising systems integration for effective incident response | 15:20 Using crash data analysis to prevent collisions and improve roadway design  
  - An update on Ashghals’ crash data analysis tool  
  - Using crash data analysis to inform roadway design and ITS procurement |
| 15:40 Comparing ITS solutions for rail versus road management | 15:40 Road safety considerations for private residential developments  
  - Integrating road access barriers to traffic signals for a safer pedestrian environment  
  - Design strategies to facilitate traffic calming in residential areas; |
| 16:00 Encouraging the use of public transport through the use of smart ticketing  
  - IT solutions for the integration of ticketing and transport information systems | 16:00 Designing road systems to support cognitive behavior of roads users for improved safety  
  - How can the design of roads influence road user behavior and reduce collisions and traumas? |
| 16:20 ITS solutions for on-demand transit and the BRT (Bus Rapid Transit) network in Qatar  
  - Integrating passenger information systems to support mobility and multi-modal transportation  
  - Understanding the key elements of a successful BRT system | 16:20 Improving safety through the use of a performance based road network  
  - Developing a performance based road asset management system (PBRAMS)  
  - Understanding the road safety benefits to road users when adopting a PMMR contract |

16:40 Wrap up and end of forum day one
Tuesday, 19 September 2017 – Forum day two

08:30  Start of forum registration and welcome refreshments
09:00  Opening remarks from the session Chair

DEVELOPING SUSTAINABLE TRANSPORTATION MODELS

09:15 Integrating transportation models into public realm design for improved mobility and well-being of individuals

09:45 Ensuring maximum efficiency of Qatar’s rail network through the use of transit oriented development and integrated transportation systems
  • How is TOD decreasing reliance on personal vehicle ownership?
  • Urban development strategies for unlocking the potential of Qatar’s railway network

Moen Azmi, Head of Infrastructure and Traffic Department, Arab Engineering Bureau

10:15 Mobility as a Service (MaaS): Developing a seamless on-demand based travel platform
  • Integrating end to end transportation planning through the use of apps and digital transformation
  • Using data to optimise the transportation network
  • An overview of effective MaaS pilot projects around the globe

10:15 Maximising land use for transportation and mobility: strategies for reducing car dependency and encouraging the use of public transport

10:45 Project case study: The Education City ‘People Mover’ project: Education city as a microcosm for the future of Qatar as a ‘driverless’ society

11:15 Networking break and morning refreshments

11:45 THE BREAK-OUT

Following the morning break, delegates will break-out into focused discussion sessions. Choose from:

**Room A: Improving Transportation and Pedestrian mobility Through Design and Engineering**

11:45 How to effectively manage pedestrian safety using intelligent solutions
  • An overview of new engineering strategies for managing pedestrian safety; smart crosswalks, flashing LED’s, and pedestrian refuge areas

12:15 The future of pedestrian mobility: Examining the feasibility of using alternative mobility vehicles designed to support short-distance trips in urban settings

12:45 Comparing the process of system assurance for railway and metro services versus road systems
  • Establishing and preparing RAM services for road versus railway
  • An overview of world class best practice in railway system assurance

13:15 Overcoming the key pedestrian safety issues associated with public transit rail services
  • Junction safety solutions to protect pedestrians

13:45 Creating and maintaining access routes into city centres to facilitate greater pedestrian permeability
  • Developing access routes between metro stations and railway transit stations

**Room B: The Future of Mobility: Future Transportation trends shaping the future of cities across the world**

11:45 Using smart technologies and data centres to provide accurate and responsive travel information

12:15 How is the progressive automation of motor vehicles improving road safety across the globe?

Akin Adamson, Director, Middle East Region, TRL

12:45 Deploying connected, automated vehicle systems in Qatar
  • Understanding the potential barriers to adoption of connected vehicles
  • Strategies for protecting vehicles from cyber attacks
  • Implementing cloud based platforms for effective fleet management of connected autonomous vehicles

13:15 Panel discussion: What does the future of mobility look like?
  • Will driverless cars soon become a commercial reality?
  • An overview of the factors influencing the future of the automotive industry
  • How are socio-economic factors influencing today’s mobility consumption models?

13:45 How is IoT revolutionising fleet management for public transportation?
  • Strategies for integrating telematics solutions such as vehicle control, location tracking and passenger information systems
  • Integrating smart ticketing with passenger information systems

Heni Karaa, Technology Product Manager, Qatar Mobility Centre
14:15 Chairman's closing remarks
14:30 Networking lunch
15:30 Close of Forum