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Local Council Roads
Innovation Group



PIARC – Learning from International Case Studies

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Department
for Transport



PIARC – Who, Why, and How

Vision: The Association will be the world leader in the exchange of knowledge on roads and road transport policy and practices within an integrated sustainable transport context.

Since its inception in 1909, the Association continues to foster and facilitate global discussion and knowledge sharing on roads and road transport.

Mission:

- Being a leading international forum for analysis & discussion of the full spectrum of transport issues, related to roads and road transport
- Identifying, developing and disseminating best practice and giving better access to international information
- Fully considering within its activities the needs of developing countries and countries in transition
- Developing and promoting efficient tools for decision making on matters related to roads and road transport

Values:

- to provide responsive and quality service to all its members
- to be open, objective, and impartial to foster peaceful dialogue for socioeconomic development
- to promote sustainable, integrated, and sound economic solutions that respect the differing international road transport needs
- to be gender inclusive and diverse [Women in Transport](#) *[Plug for event on 13th May!]*
- to act as a meeting point for road organisations, be non-partisan and areligious

How:

- Creates and coordinates Technical Committees
- Organizes a quadrennial World Road Congress, a quadrennial World Winter Road Congress and various technical seminars
- Publishes a large number of documents including a quarterly magazine Routes/Roads

PIARC – What does it mean for the UK?

History: The United Kingdom has been key to PIARC since its inception in 1909, having hosted the 2nd World Road Congress in London in 1911. More than 100 years later, the UK continues to foster and facilitate global discussion and knowledge sharing on roads and road transport.

High Level Structure: PIARC is organised as multiple strategic themes

- Strategic Theme 1 - Road Administration
- Strategic Theme 2 - Road Mobility
- Strategic Theme 3 - Safety and Sustainability
- Strategic Theme 4 - Resilient Infrastructure

Current UK activities: (part of extending PIARC's reach into the wider UK sector)

- David Buttery, Director of Roads Strategy at DfT is the First Delegate to PIARC within the United Kingdom
- Administered by CIHT - key contact is Justin Ward, Head of Policy and Technical Practice
- The UK currently has over 50 UK representatives from both the public and private sector including:
 - DfT and wider Devolved Nations
 - Sub National Transport Bodies, Combined Authorities and LHAs
 - Academic and industry bodies such as Highways UK
 - Private sector consultants and service providers
- Young Professionals Network to help develop the next generation

A full list can be provided to see who is currently representing the UK in which areas

Overall Value:

- Creates a focal point to gather thought leadership and best practice from its global members which the UK can influence
- Road Network Operators (RNOs) and related organisations can discuss issues of the day in an open environment allowing cross fertilisation of ideas: **key themes around resilience, decarbonisation and efficiency have direct synergies for UK**
- Ability to harvest knowledge from the wider industry to stay up to date with the potential to then apply global best practice back into the UK across all aspects of managing and maintain the national road network
- Participation in physical meetings and workshops are key to create an environment for innovation away from members' day to day roles and responsibilities

PIARC – Strategic Themes and spotlight on ITS and CCAM

Spotlight: Strategic Theme 2 highlights include:

Technical Committee 2.4 : Road Network Operations and ITS for Sustainability

2.4.1 – Applications of new technologies and digital transformation concept to RNOs

2.4.2 – Conceive ITS solutions for sustainable mobility

2.4.3 - RNO and ITS development in Low Middle-Income Countries : Challenges and Opportunities

Importance to LHAs / DfT:

- An opportunity to showcase the work we do in the UK including Digital for Customer with National Highways and our extensive ITS developments on the local roads network
- To also understand the latest developments in road network operations both in Europe and globally that builds on current ITS platforms

Technical Committee 2.5: Road infrastructure for Connected and Automated Mobility

Current UK Members: DfT's Traffic Technology Division supported by Jonathan Mann and Ian Patey, WSP

2.5.1 – Roads for connected, cooperative and automated mobility

2.5.2 - Automated driving and infrastructure

2.5.3 - Architectures and business models for public authorities and road agencies

Importance to LHAs /DfT :

- Connected, cooperative and automated mobility is a reality that is growing in importance due to its contribution to improving road safety and enabling decarbonization and efficiency of the transport ecosystem.
 - It also can provide real-time intelligent and trusted information to Automated Vehicles.
- We get access to global road operator/partners and their views on CCAM evolution but can also showcase our UK expert knowledge in this area. There is value to have a UK voice at this forum from wider Central Government bodies e.g. CCAV, and UK bodies such as WMG but also Sub national and Combined Authorities spearheading innovation
- In the UK Self Driving Vehicles (SDV) roll out, formalised as part of the Road Transport Bill already has hooks in place to leverage Digital Intelligent Infrastructure
 - D-TRO is leading the way, but in the future Cooperative messages, Probe Vehicle Data, Vehicle OEM data could all help not just to improve safety but also acceptance
 - Better understand RNOs' network management influence on social equity / maintaining quality of place in our towns and cities with the roll out of new and influential technologies

WSP PIARC – Case Study 1: Evaluating impacts of new mobility

Technical Committee 2.1 Mobility in Urban Areas

Scope: Impacts of new mobility in urban and per-urban areas

A PIARC collection of Case Studies

Key topics discussed:

- Integration of Transport Modes
- Sustainable Mobility
- Role of Road Network Operators and collaboration examples
- Challenges focused on Urban and peri urban transport
- Survey findings and impact of new mobility initiatives
- Funding mechanisms

Value to UK:

- Broader 'world view' on tackling common problems
- Examples of new mobility measures applied in the global context
- Innovation ideas that could be applied to the UK
- PIARC UK members can facilitate 1-1 follow up as required



Task Force B.2: Automated Vehicles (prior to TC2.5)

Scope: Automated Vehicles:

Challenges and Opportunities for Road Operators and Road Authorities

Key topics discussed:

- Physical infrastructure including city planning, signs and signals
- Digital infrastructure connectivity and use cases
- Digital mapping, digital twins, GPS urban ‘blind spots’
- Common data issues for implementation
- Impacts on RNO traffic operations and road capacity
- Social issues and Human Factor considerations
- Legal responsibility and finance

Value to UK:

- UK contributions for a UK context
- Example of automation and connected use cases
- Urban and rural considerations
- Recommendations for Road Operators and Road Authorities





Thank you



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Questions

