

ASECAP DAYS



DIGITAL EVENT 2021

Organized by:



Association Européenne des Concessionnaires
d'Autoroutes et d'Ouvrages à Péage



CALL FOR PRESENTATIONS

48th ASECAP Study & Information Days

***REGAINING TRUST AND CONFIDENCE TO BOOST THE
ECONOMY AND TO RECOVER FROM PANDEMIC***

Wednesday 10th of November 2021



The world has been hit by an unprecedented pandemic which caused an economic recession striking very hard Europe and the rest of the world, including road infrastructures. The 48th ASECAP Study & information days will focus on lessons learnt and on how it would be possible to foster safe and mobility solutions to boost the economy and recover from the pandemic crisis, by stimulating investments aimed at reaching the EU objectives of vision zero in terms of fatalities and of CO2 emissions. The contribution of the transport sector in dealing with mobility challenges to reach the Green Deal's objectives, under the EU Recovery and Resilience facility should provide some good opportunities, provided of having sustainable financing to allow public or private investments.

Presentation submission:

Abstract not exceeding **400 words** should be submitted using online facility from the dedicated form: <https://forms.gle/QEMxW9eycaXaqG8o8>

Timeline

Deadline for submission of abstracts
18th of June 2021

Notification of acceptance of abstract
5th of July 2021



A – ROAD INFRASTRUCTURE FINANCING

Accelerating mobility project delivery: Funding infrastructure projects that meet the climate change challenges, under the EU Recovery and Resilience facility.

The COVID 19 crisis has demonstrated the resilience of the road, a major infrastructure, which has made it possible to guarantee the supply of vital/essential goods (food, medicines, etc.). It has also shown that it supports the mobility of people who use the road for their daily commute to work, health, education,

...

Besides, demographic growth, economic globalisation and other social trends mean we need to modernise our infrastructure in compliance with EU objectives to make them greener, to enhance people's quality of life, to provide equal access to all citizen whether they are living in remote territories or in urban area, to improve resilience of road mobility and to support the smooth functioning of our economies.

Transport infrastructure is changing in depth and there is an urgent need to reflect on how it will look like 20 years from now. This is a major concern for all the stakeholders to have a sustainable approach that engages/involves public and private partnerships: What will road infrastructure look like in 15- or 30-years? How will mobility evolve over that period? How can infrastructure be adapted to climate change compliance? What measures could increase the resilience of road mobility during in times of crises? The changes are so important that these simple questions are critical for private investors. The session will explore how to modernise the infrastructure funding system and what conditions are needed to attract investors to implement sustainable financing schemes.

Topics:

- Existing European frameworks for road infrastructure financing
- New perspectives for mature concessions
- Financing solutions for green mobility solutions
- Recovery financing
- Investments on the resilience of the road mobility
- Threats and opportunities of the concession model
- Congestion charging schemes
- New tolling systems
- Requirements and conditions from private investors and financial institutions
- Financing alternatives for low-traffic road section
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B – SUSTAINABLE TRANSPORT SOLUTIONS

Toward low carbon motorway aligned with the green deal promoted by the EU Recovery and Resilience plan.

Motorway operators are more and more environmentally conscious players and put a high priority on considerations involved with climate change and the environment. In addition, road infrastructure played a key role during the pandemic, increasing the resilience of the EU mobility and logistic chain. During the recovery period, road operators are ready to present and develop innovative solutions to reduce the carbon footprint.



The speakers will highlight concrete examples of initiatives that have been implemented or are still being implemented by toll road operators to improve their environmental performances, but also offer new sustainable and resilient mobility solutions.

Topics:

- How to encourage the development of new greener mobility options?
- Fostering commuting mobility solutions: carpooling, bus transit system....
- Policy to promote multimodality
- Electrification of motorway
- Environmental programs and best practices undertaken by toll road operators
- Investment in environmental actions and return of the investment in terms of environmental benefits (CO2 reduction, reduction water consumption, recycling of waste materials...)
- Solution for urban mobility

C – ROAD SAFETY**What are the safety gains?**

Road infrastructure plays a key role in moving people and goods, but it is also responsible for the highest fatalities' numbers compared to other modes of transport, even though there are fewer fatalities on motorways, which are considered at least 4/5 times safer than other road infrastructure. Nevertheless, it is unacceptable for anyone to die or be seriously injured in a road accident. The challenges for road operators are to improve road safety and performance and to reduce the time to manage an accident or incident and strive towards the goal of vision ZERO. Solutions for automatic incident detection and first response can provide a real added value to our daily business; also, Artificial Intelligence is a powerful tool to analyze huge amounts of available data, and innovative video analytics and advanced decision support system can analyze real-time and historical traffic data to predict and detect incidents and provide most suitable incident management strategies. The session will also explore and identify policies, practices, issues, challenges, and innovative procedures to both monitor the infrastructure and be compliant with EU regulation.

Topics:

- Road safety policies
- Road infrastructure safety management
- Accidents data analysis,
- Road safety KPIs
- Safe system approach
- Road safety and Asset management
- Maintenance tools and methodologies
- Road Safety Campaigns



D – COOPERATIVE, CONNECTED AND AUTOMATED MOBILITY (CCAM)

Digital transformation on road infrastructure

Digitalization, as well as automation (CCAM) are part of the EU priority plan. It will transform most industries, including the toll road industry. Whether you are a network manager, a toll service provider, or a revenue assurance and business analyst, you know the impact and benefits of this amazing digital transformation in your mission and expect the same capacity with customers and stakeholders.

Beyond personal experiences, digital transformation promotes efficiency, performance, and adaptation/customization of toll roads services, which is crucial to the business dimension. It also leverages the opportunities and capabilities of a mix of digital technologies and their accelerated market trends in a strategic and prioritized way. The vision zero fatalities, the decarbonization agenda, and the emergence of cooperative, connected, and automated mobility (CCAM), among others, are additional driving forces to accompany this transformation process. The session will show how digital transformation is already changing Europe's roads and what challenges must be addressed within the next decade.

Topics:

- C-ITS deployment for vehicles and road infrastructure
- C-ITS services today and tomorrow: What does the ecosystem of vehicle and road need in future?
- Evolution of road infrastructure and the importance of digitalisation
- Digitalisation of the infrastructure to foster greener, smarter and automated mobility needs
- Co-existence of electronic road charging systems with C-ITS, radio local area networks, IoT, ...
- Digitalization of traffic management
- Digital transformation, range from political, legal, financial, technical to societal dimensions.

E- EMERGING TECHNOLOGIES

Innovation in toll collection and management

As electronic tolling technologies have developed over the past decade, motorway operators are seeing a shift from manual toll collection to all-electronic toll collections. In addition, variable pricing encourages more efficient use of transportation infrastructure by shifting demand to alternate modes and routing trips to less congested times of the day: Car-sharing/pooling services, managed lanes with bus lanes or HOV lanes, and the new user paradigm are evolving to meet the new mobility needs. What is the future of emerging technologies for toll collection, such as mobile phone tolling and license plate recognition? What about vehicle classification and car occupancy detection? What are the prospects for truck tolling or road charging for light vehicles? How can an efficient toll collection enforcement scheme be created? The session will explore all the innovative payment means/methods and their management in the evolving reality of toll road.

**Topics:**

- Emerging payment systems (mobile phone, ANPR, AI....),
- Blockchain,
- Fostering free flow tolling on EU roads
- Price management: Optimizing facilities capacities / solution to reduce CO2 emission
- managed lanes, HOV lanes, (car sharing, carpooling, dedicated bus lane...)
- Interoperability,
- Enforcement,
- Violation,
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F- R&D Road Infrastructure Projects**Improving European Cooperation and R&D Road Infrastructure**

R&D projects are supporting and implementing EU policies while tackling global challenges. R&D and technological innovation have a significant impact on socio-economic growth. During this period, the research and development (R&D) programmes could test and provide innovative solutions that could play a key role in EU companies' recovery from the pandemic, as well as contribute towards the EC targets for reducing CO2 emissions and the digitalization of the transport and transport management system.

The session will allow bringing together the road operators and the road stakeholders with R&D projects, that apply innovative solutions to road mobility and infrastructure.

Topics:

- Large Scale Demonstration
- Solar flagship projects
- Electrification
- Alternative fuels
- Greening of road mobility
- Innovative Traffic Management
- New mobility needs
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