



52nd ASECAP DAYS

Challenges of Future
Mobility | The Role of Road
Infrastructure



Organized by  ASECAP

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Asociación de Empresas Constructoras
y Concesionarias de Infraestructuras

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www.asecapdays.com

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Impact of deployment of zero emission vehicles on road infrastructure

Nuno Gusmao
Kapsch TrafficCom AG

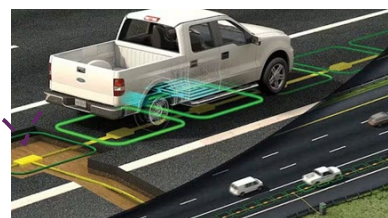
Technological advances

Electrical vehicles and infrastructures

Short term

Medium term

Long term



ROAD USER
CHARGING



Vehicles

Infrastructures &
solutions

Drones in transport

in the online-demand age

Short term

Medium term

Long term

Urban environments

- Transportation to solve last mile problem
- Curbing pollution
- Curbing infrastructure costs

Non urban environments



Challenges and benefits

Disruptive times are coming for transportation

Challenges

- 3D three dimensional problem
- Safety of vehicles and passengers
- Security
- Regulation
- Solutions and technology for charging for use
 - Detection
 - Identification
 - Charging
 - Enforcing
- Traffic management

Benefits

- Virtual infrastructure (aerial corridors)
- Multiplexing, the sky is the limit
- Cure urban congestion
- Reduce greenhouse gas emissions



Worldwide landscape

What's being done

EU

- Regulation
- Business models (Logistics, transportations, collections, enforcement,
- Technology (Detection, identification, security, traffic management

Rest of the world

- Regulatory frameworks for piloted and autonomous air taxis and cargo drones
- Develop aerial corridors



