



# **Bus fleet renewal through deployment of clean and efficient Vehicles**

**EU Commission – EIB (JASPERS) – UITP- Workshop,**

**June 26<sup>th</sup>, 12h00 to June 27<sup>th</sup>, 14h00**

**@ Committee of the Regions (CoR)**

**Rue Belliard 99-101, Room JDE 52, Brussels**

## **Experience and Questions in EU countries drawing on ESI Funds and EIB/JASPERS support.**

### **THE CONTEXT**

Many local transport authorities in Europe are in need of replacing ageing bus units within their fleets at a faster pace or of introducing bus transport to serve a growing urban population. The purpose is to meet current standards, increase efficiency and passenger comfort and reduce transport related emissions. EU funds – mainly from European Structural and Investment Funds (ESI) but also from Horizon 2020 and potentially from the Connected Europe Facility (CEF) – contribute to modernising the urban and regional bus fleets in the EU and therefore to improving public transport quality and efficiency.

Bus fleet renewal and/or extension through EU funding represent an important opportunity to improve the quality, efficiency and image of public transport as a whole, its market share, the environment in the area served and the integration into a wider smart local development strategy.

Policies at EU level strongly support the implementation of cleaner and more sustainable urban transport, with a particular focus on clean fuels and vehicles. The Commission's 2016 Strategy for Low Emission Mobility as well as the Directive for Alternative Fuel Infrastructure and the revision of the Clean Vehicles Directive form the basis for the evolution of efficient transport with a specific focus on CO<sub>2</sub> emissions and environmental performance. The objective is to accelerate the deployment of Low Emission Vehicles, and to move towards Zero Emission Vehicles.

There is a wide choice of cleaner fuel and engine technology for urban bus operations, beyond lower emission Euro VI vehicles and the use of biodiesel blends:

- Fully electric buses, including trolley buses, battery electric, and fuelcell electric;
- Hybrid electric (diesel, natural gas, hydrogen) and plug-in hybrids;
- Natural Gas (CNG or LNG), including biomethane;
- Other renewable fuels (e.g. Bioethanol, HVO).

All of those technologies may contribute to the policy goal of gradual shift to low emission public transport. Each community should develop appropriate transition steps, based on needs assessment, comprehensive planning and building on relevant experience. In this process, careful consideration of the technology choice should derive from a wider operational concept and its associated delivery strategy. This will facilitate a smooth transition towards low and ultimately zero emission mobility, while ensuring an attractive and competitive public transport system.

JASPERS, in cooperation with the EU Commission and UITP, invites interested operators, responsible authorities at local, regional and national level, manufacturers and NGOs to attend this workshop and contribute to the development of planning and procurement approaches in all ESI Funds benefitting countries. Within the remits and capacity limits of its advisory role JASPERS and the EIB at large are ready to contribute to the preparation and implementation of projects to achieve those objectives.

# AGENDA

Day One: **26.6.2018, 12h00-18h00**

**11h30- 12h00** Registration, Welcome Coffee

## Setting the frame

**12h00-12h30** Welcome and Introduction  
DG REGIO, Rudolf Niessler, Director Smart and Sustainable Growth  
DG MOVE, Herald Ruijters, Director Investment, Innovative and Sustainable Transport  
JASPERS, Alan Lynch, Head of the Rail Air Maritime Division  
UITP, Thomas Avanzata, Director Department European Affairs  
CoR, Petr Osvald - Member of Plzeň City Council  
Chair of the Commission for Territorial Cohesion Policy (COTER)

**12h30-13h00** EIB/JASPERS: How to get there: Managing the transition to Low Emission Bus Fleets. Principles of bus fleet renewal or extension and bus technology selection.  
Joseba Izquierdo, Transport Engineer, JASPERS regional office Vienna

**13h00-14h00** Lunch break

## Overview: The clean bus market and experience

**14h00-14h15** ACEA: City Buses in the EU: Current situation, opportunities and challenges for European cities and bus manufacturers - what are the issues to focus on?  
Lars Johansson, Director, Public Affairs & Governmental Relations, Volvo Bus, ACEA expert in DG MOVE Expert Group on Clean Bus Deployment

**14h15-14h30** Agoria/CLCCR, The perspective of smaller bus manufacturers – e-bus production – development of volumes, operational experience and services  
Ben Van Roose, Head Manufacturing Industries @ Agoria

**14h30-14h45** UITP: State of play on testing and implementing zero emission and other clean and efficient buses – overview of experience in cities  
Umberto Guida, Director Research and Innovation

**14h45-15h30** Discussion.  
Moderator: Aleksandra O'Donovan, Bloomberg New Energy Finance

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**15h30- 16h00 Coffee Break**

**Clean bus operation - experience in Warsaw, Sofia, Plzen, Madrid**

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**16h00-16h20**

The case of Warsaw: e-bus fleet extension in the context of a mixed fleet. Comparative considerations on operational performance  
Katarzyna Kwiatkowska, Grants and EU Projects Department, MZA, Warsaw

**16h20-16h40**

The case of Sofia, Improvement of the fleet after six transition years with EU funds, EIB loans and leasing  
Pavlin Vasilev, Head of operations, Sofiabus

**16h40-17h00**

The case of Plzen, Czech Republic: Renewal of the trolley bus and conventional bus fleet, steps towards carbon free public transport, operational experience and passenger satisfaction and development  
Jiří Kohout, Head of the Transportation Department, Plzen City Transport Company (PMDP)

**17h00-17h30**

Discussion and Wrap up of the day  
Moderators: Alain Van Gaeve, Policy Officer, Sustainable and Intelligent Transport, DG MOVE; Jochen Schneider, Senior Economist, Networking an Competence Centre, EIB/JASPERS

**17h30-18h00**

**Networking drink in lobby outside the meeting room**

**Networking event: Dining in Brussels, City Centre**

**19h30 – 22h00: Jardin Van Gogh, Place Ste Cathérine 5, 1000 Bruxelles (self payment)**

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## Day Two: **27**.6.2018, 9h00-14h00

**08h30-09h00**   **Arrival, Welcome Coffee**

### **Policy objectives and Bank funding**

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**9h00-09h20**   DG REGIO: Funding mobile assets under Transport and Decarbonisation Objectives  
Vincent Leiner, Head of the Transport Matrix within the Unit Smart and Sustainable Growth Unit

**9h20-09h40**   DG MOVE: Rules and Funds: Policy approach to support low emission mobility and clean buses – European clean bus deployment initiative (revision of the clean vehicles directive, declaration, expert group on clean buses), mobility package, CEF (blending) contribution – state of play  
Alain Van Gaever, Policy Officer, Sustainable and Intelligent Transport  
Antongiulio Marin, Deputy Head of Unit Transport Investment

**09h40-10h00**   EIB lending and European Fund for Strategic Investments (EFSI): Funding of Urban Transport and buses through conventional lending and the Cleaner Transport Facility and its impact on bus fleet renewal, Per Als, Senior Transport Specialist, EIB Projects Department

**10h00-10h30**   Discussion  
Moderator: Artur Perchel, Manager Central Eastern Europe & Israel, UITP

**10h30-11h00**   **Coffee Break**

### **Clean bus operation - experience in Tuscany, Netherlands and Slovakia**

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**11h00-11h15**   Northern Tuscany: The case of clean bus operation and testing in cities and regions– analysis of bus technology options and explanation of the choice made – infrastructure conditions, operational experience, funding requirements, passenger market impact  
Andrea Ferrari, Head of Operations, Busitalia, Florence

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**11h15-11h30** Klagenfurt/Austria, establishment of a new urban trolley bus network – implications on the future bus fleet structure and on the role of public transport at local and regional level  
Dr. Sebastian Hafner, Head of Department Climate and Environmental Protection, city of Klagenfurt; Dr Manfred Ortner; Deputy Director General of Municipal Services company Klagenfurt

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**11h30-11h45** SUMP-based development of bus transport solutions, the case of Bratislava – extension of the trolley bus network and fleet renewal  
Neri di Volo, JASPERS Principal Transport Specialist on behalf of the Director Public Transport and Rail, SK Ministry of Transport, Construction and Regional Development, Bratislava

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**11h45-12h00** Experience in the Netherlands with zero and low emission buses – Total cost of ownership  
Michiel Scheffer - Member of the Executive Council of the Province of Gelderland

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**12h00-12h15** Discussion  
Moderator: JASPERS, Principal Transport Specialist Neri di Volo

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## Wrap up of the event

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**12h15-13h00** Moderated podium discussion on new insights to take back from the event and conclusions concerning market developments, project preparation, specific follow up per country.  
JASPERS/EIB, Senior Transport Specialists: Neri di Volo, Jochen Schneider, Per Als  
UITP: Artur Perchel, Manager Central Eastern Europe  
EC: Axel Volkery, DG MOVE, Unit Sustainable and Intelligent Transport CoR, Michiel Scheffer - Member of the Executive Council of the Province of Gelderland  
Manufacturers: Jean Marc Boucheret, Global Bus Sustainable Mobility Manager Iveco  
ACEA expert in DG MOVE Expert Group on Clean Bus Deployment

**13h00-14h00** **Networking lunch**

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**Event Moderator and contact person:**  
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