Bus fleet renewal through deployment of clean and efficient vehicles

EU COMMISSION – EIB (JASPERS) – UITP WORKSHOP
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A NEW ERA HAS BEGUN...

- Cities to change to obtain better quality of life
- New innovations
- Automonous driving
- Digitalization
- Infrastructure in changing mode
- Low emission zones
- Automotive towards Electric
ACEA
OVERALL CHALLENGES IN THE SOCIETY VS. WHAT CAN WE DO?

Society challenges

- Reduction of Green House Gases
- Improving Air Quality
- Improving Quality of Life (including Noise levels etc)
- High health cost in general terms due to pollutions etc

What can we do together?

- Improving Public Transport (modal share)
- Improving bus image/attractiveness (bus systems)
- Investments in low/zero emission bus systems
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CURRENT SITUATION – EUROPEAN BUS BUSINESS

• ACEA BUS MANUFACTURER’s
  • Part of large industrial groups with high reputation
  • Employers of many 100,000’s only in Europe
  • Long term presence in the market
  • Extensive European service network (including parts supply)
  • Extensive investments in future technologies
  • Manufacturing of complementary technologies with focus on low/zero emission buses with low noise
  • Long term partners with the majority of PTA’s and PTO’s
Buses & Coaches registrations: ~28,000/yearly

European Bus Fleet 2013 (UITP)
- 79% Diesel
- 9.9% Biodiesel
- 7% CNG
- 0.6% Biogas
- 1.2% Electricity
- 2.3% Other

Estimation 2017:
- 75% Diesel Buses
- 40% Diesel Euro III and older
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CURRENT SITUATION - EUROPEAN BUS MARKET

Lower CO₂

Bio-fuels Euro VI

Electro-mobility

Diesel Euro III

Fossil fuels Euro VI

Higher CO₂

Higher PM / Nox

Lower PM / Nox

Zero PM / Nox

Expanded range of technologies
Around 5,700 Electromobility buses registered in Europe 2014-2017

UK leading market in Electromobility (partly due to installment of Green Funds early)
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INDUSTRY CHALLENGES

Heavy investments in Euro VI technologies

New business models in Electromobility

New players in Electromobility

Change from Euro norm legislations to new long term directives/targets from EU Commission

Heavy investments in Electromobility
ACEA CITY CHALLENGES*

- Ecological footprints
- Invest for Sustainability
- Ecosystem Services and Biodiversity
- The good life
- Leadership and cooperationable cities

*Source: WWF Sweden*
Ecological footprints

Transport, food and housing

*Source: WWF Sweden*
ACEA CITY CHALLENGES*

• Investment in infrastructure
• Develop smarter cities
• Demand new solutions
• Promote green procurement

* Source: WWF Sweden
ACEA CHALLENGES – NEW BUSINESS MODELS

Old situation

- Not included
- Not included
- Bus Operators tender document
- Bus Manufacturers

New situation

- Cities strategies for clean air, noise etc
- Public Transport Authority strategy & operational targets
- Bus Operators tender document
- Bus Manufacturers

Many more and new partners involved in Electromobility business
Old situation

- Not included

New situation

- Cities strategies for clean air, noise etc
- Public Transport Authority strategy & operational targets
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- Bus Manufacturers

Items to consider:

- Bus systems
- Business models
- Subsidies
- Financial instruments
- Green funds
- Infrastructure study/investments
- Vehicle age structure
- GPP
- Noise
- LCC
- And more...
• Improving Public Transport modal share (cost effective bus systems & attractiveness of new bus models)
• Investments in sustainable Public Transport
• Investments in infrastructure for Electromobility
• Financing, funding & subsidies needed for acceleration of bus fleet renewal
• Improving quality of life (air quality, noise and others)
More Information

For info or further questions on this seminar and the activities of the JASPERS Networking Platform, please contact the JASPERS Networking and Competence Centre at the following email:

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