Freight and (Road) Public Transport
State of play under FP7 and future European R&D under Horizon 2020

Umberto Guida
Head EU Projects - UITP
Patrick Mercier-Handyside
European Commission
DG research and Innovation

www.viajeoplus.eu
Policy context and EU strategy

- **Action Plan on Urban Mobility** (2009-2012) – Action 19 on city logistics,…
- **Clean Vehicles Directive (2009/33)**.
- **Clean Power for Transport initiative**: COM on alternative fuels strategy, proposal for a Directive on fuel infrastructures.
- **EC type-approval system for motor vehicles (Directive 2007/46/EC and UNECE)**: inc. for HD vehicles emissions Euro VI (pollutant emissions) and soon on CO2 emissions.
EU R&D in Public Transport (road) under FP7

• High quality public transport vehicles (and interfaces): EBSF (the European Bus System of the Future), HCV (2nd generation hybrid buses), CITYMOBIL (semi-automated bus), ZeEUS (Electric buses).
• Intermodal transport interchanges and stations: NODES and CITYHUB.
• Accessibility for All: MEDIATE (accessibility tools), ACCESS2ALL (guidelines for PT) and PUBTRANS4ALL (accessibility in PT system).
• ITS: EUROPTIMA (Open Platform for smart card Ticketing, payment), OPTICITIES (Multimodal network management).
• International cooperation: TRANSAFRICA (PT in Africa), VIAJE O (traffic management - Brazil, China) and now VIAJE O+ and SOLUTIONS.
• The future of bus R&D: 3iBS CSA for bus road map, dissemination and exploitation.
• Urban transport innovation deployment (EV, PT, SUMP, …): TIDE.
EU R&D on city logistics under FP7

• New vehicles, distribution centers and associated services
  – Innovative, clean and efficient freight transport concepts: CITYLOG, CITYMOVE.
  – Development of urban electric vehicles: DELIVER, SMARTFUSION, FURBOT.
  – Optimisation of urban freight management via ITS: FREILOT, OPTICITIES.
  – Urban Distribution Centers: STRAIGHTSOL.
  – International cooperation: TURBLOG, VIAJEEO+, SOLUTIONS.
  – Coordination and exchange of best practices: BESTFACT.
Future opportunities for Freight and (road) Public Transport: European research policy coordination platforms

- **ERTRAC**, the European Technology Platform on road transport (and interfaces): Research road maps with three main areas: Infrastructures, services and vehicles.

- **European Green Vehicles Initiative (PPP)**: Follow-up of the EGCI. Support to European competitiveness. A PPP on energy efficiency of road vehicles (cars, trucks and vans, buses).

- **ALICE**, the new European Technology Platform on logistics: launched the 12th June 2013 (after EIRAC) – research road map – all modes.
Innovative Bus Systems Roadmap

- Areas for further innovation research and priorities
- Developed in collaboration with ERTRAC in 2011 (EBSF)
  - updated in 3iBS project
  - Contribution by other projects (ZeEUS, TROLLEY...)
- Supported by key actors of bus service domain
- Contributions and review by more than 100 bus stakeholders

- Bus system integration in new urban scenarios
  - Mobility challenges of an ageing society
- EBSF ICT platform integration and standard adoption
- Sustainable Bus System
  - Energy efficiency
  - Environmental performances
  - Electrification of bus systems
- Innovative vehicle technologies
  - comfort, accessibility, improved driving style...
  - Modularity (including new operation concepts)

Representing 1400 PT stakeholders worldwide UITP is in the frontline of the R&D activities about Public Transport

A dedicated societal challenge on "Smart, green and integrated transport"

Objective: “Achieve a European transport system that is resource-efficient, climate- and environmentally-friendly, safe and seamless for the benefit of all citizens, the economy and society”

Priorities (Specific Programme):
1. Resource efficient transport that respect the environment
2. Better mobility, less congestion, more safety and security
3. Global leadership for the European transport industry
4. Socio-economic and behavioural research and forward looking activities for policy making
Research content

• Mobility for Growth
  – The **mode-specific Road** area funds:
    • R&I for road transport in *complement* to the ‘Green Vehicles’ call
    • Activities in the field of Internal combustion engines; support to air quality policy; safety of road transport; production technology; new vehicle concepts for road and urban transport
  – The **Urban mobility** area:
    • Transport integration (Urban, ITS, infrastructure...)
    • Cross-cutting issues (socio-economic and behavioural research...)
    • Innovation in resource-efficient and competitive urban mobility and transport ('CIVITAS 2020'):
      • Transformation towards a cleaner and better urban mobility and transport with five complementary challenge-topics - Build on legacy (CIVITAS, STEER market take-up..)

• Green Vehicles:
  – Improvement of energy efficiency of road transport vehicles
  – Use of new types of non-conventional energies in road transport, such as electricity, CNG and LNG, bio-based fuels
Other relevant opportunities:

• Smart Cities and Communities
• Industrial Leadership (LEIT)
  – ICT
  – Manufacturing
  – Materials
• Joint Undertakings (Fuel Cells and Hydrogen 2…)
• Small Business and Fast-Track Innovation for Transport
H2020 - Next set of Calls

- **1st Call – 2nd Group = 28/08/2014**
  - ETP (EU Tech Platform – follow-up ERTRAC/ERRAC)
  - Hybrids vehicles, auxiliaries, infrastructure (CPT)

- **2nd Call – 1st Group = 31/03/2015**
  - Action plan for ETP, International cooperation,
  - SUMP actions, CIVITAS/SC&C demo (IP+CSA)

- **2nd Call – 2nd Group = 27/08/2015**
  - CIVITAS/SC&C demo (IP+CSA), Green Vehicle
Thank you!

UMBERTO GUIDA
Head of EU Projects, UITP
Umberto.guida@uitp.org

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