



Freight and (Road) Public Transport

State of play under FP7 and future
European R&D under Horizon 2020

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Policy context and EU strategy

- **EU Research (and Innovation) policy:** COM on “Innovation Union” (2010), the 7th Framework Programme for R&D (2007-2013).
- **Action Plan on Urban Mobility** (2009-2012) – Action 19 on city logistics,...
- **Action Plan on ITS (2008):** Group on Urban ITS (2010-2012).
- **White Paper on Transport policy 2010-2020 (2011), Urban Mobility Package 2013**
- **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.

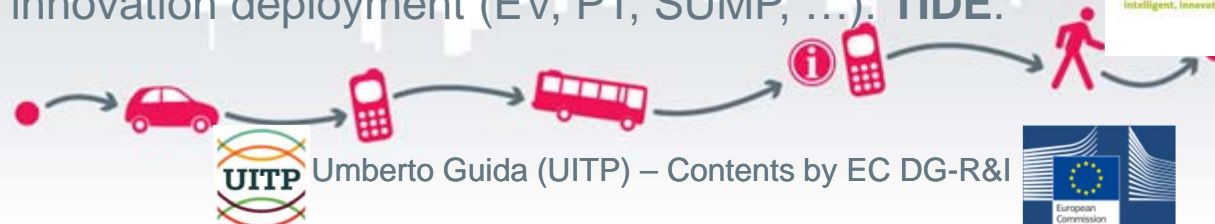


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EU R&D in Public Transport (road) under FP7

- 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), **VIAJEO** (traffic management - Brazil, China) and now **VIAJEO+** 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**.



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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 , VIAJEO+, SOLUTIONS.**
 - Coordination and exchange of best practices: **BESTFACT.**

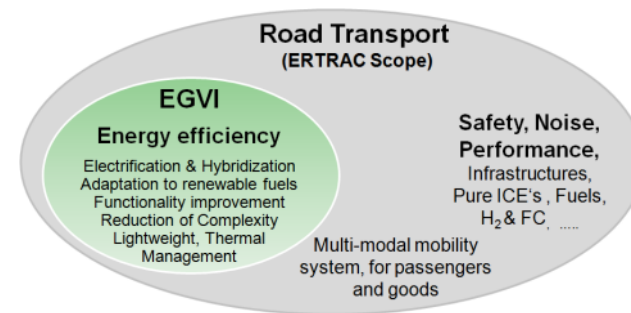


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Future opportunities for Freight and (road) Public Transport: European research policy coordination platforms

- **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 (EGVI)** (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.



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



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)

Projects about SYSTEM



Projects about ELEMENTS





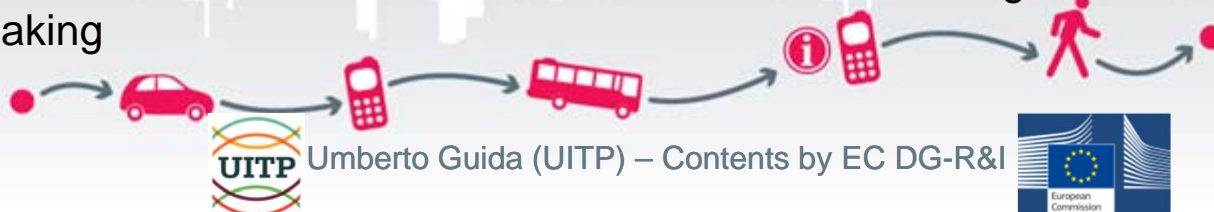
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HORIZON 2020



- Horizon 2020 (2014-2020): The new Framework Programmes for research and innovation, in line with EU 2020 strategy.
- 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

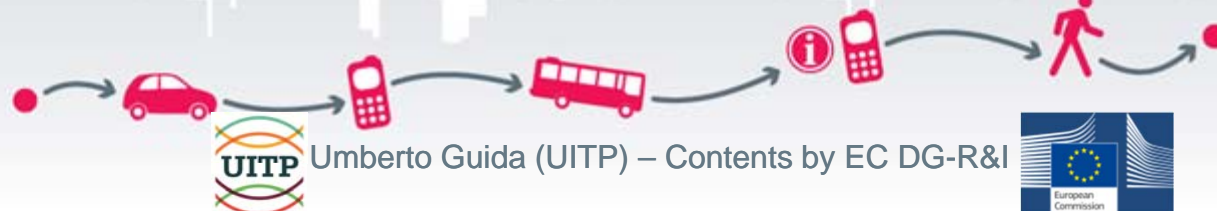
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Research content



- 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



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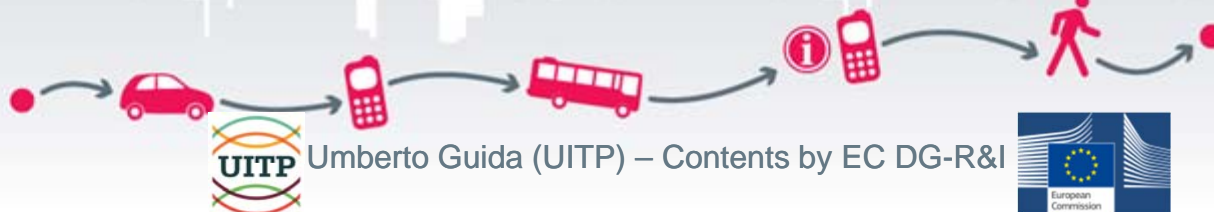


Other relevant opportunities:

- 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



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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



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Thank you!

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