

EBSF_2

European Bus Systems of the Future 2



MOTIVATION AND OBJECTIVES

- Test and evaluate innovative solutions for urban and suburban bus systems through demonstrations in real service.
- Improve the efficiency of bus operations mainly in terms of costs and energy consumption as well as the attractiveness to the users.
- Demonstrate in real services in 12 cities and validate technological solutions addressing six key areas for innovation.



PROJECT PLAN, MILESTONES AND DELIVERABLES

To achieve its objectives, EBSF_2 is based on a consolidated methodological approach characterised by three main phases, namely:

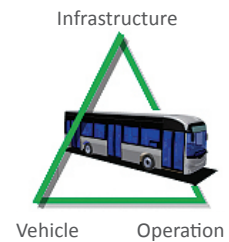
- Setting the scenarios and performance targets.
- Test innovations in real operation.
- Evaluation and validation of the results.

TECHNICAL APPROACH

Each site tests a subset of innovations, identified according to their technological maturity to ensure an easy commercialisation after the end of the project. Prototype and simulation tools will be used as well for more futuristic solution.

All together the demonstration sites deal with most current propulsion technologies (from internal combustion to hybrid and fully electric) and a wide range of bus systems, from BRT to local lines.

Also, a system approach is applied that considers the vehicle as one of the elements integrated in the whole bus system together with infrastructural requirements and mobility concepts.



ACHIEVEMENTS

By involving more than 500 vehicles with the related interfaces towards garage and urban infrastructure, EBSF_2 will greatly contribute to:

- Improve energy and thermal management of buses.
- Concepts and technologies for green driving assistance systems.
- Feasibility of innovative Human-Machine Interfaces solutions.
- New bus layout concepts for optimised interface between vehicle and platform.
- Fully interoperable IT solutions based on European standards.
- Modular bus that adapts the vehicle capacity to actual demand.
- Intelligent garage as well as processes for predictive maintenance.
- New interface between vehicle and urban infrastructure.

Budget 12.4 M€

Duration 36 months

DG INEA

Coordinator UITP

Partners ACTIA, ASSTRA, CEA, CEIT, CHALMERS, CRTM, D'APPOLONIA, DICEA, DBUS, DIGIGROUP Informatica, DIGIMOBEE, EVOBUS, FIT, FRAUNHOFER, HOGIA, HÜBNER, INEO, INIT, IRIZAR, IVECO, KEOLIS, MEL-SYSTEMS, PILOTFISH, PLUSERVICE, POLIS, RATP, RUPPRECHT Consult, SSB, START ROMAGNA, SYTRAL, TEKIA, TFL, TIS PT, TMB, TRAPEZE, UPM, UTP, VBC, VDV, VTAB, VTT

Website www.ebsf2.eu

Funding 10 M€

Start May 2015

Contract n° 636300

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