

European Projects Implementation Status on Sustainable Mobility and Mobility Management Actions in the Bologna Fair District

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MOBILITY MANAGEMENT

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SUMMARY

- FAIR DISTRICT MOBILITY MANAGEMENT PLAN
- CIVITAS+ MIMOSA PROJECT
- LIFE+ MHYBUS PROJECT

 In 2009 the Emilia-Romagna Region's Mobility Manager was commissioned by the Municipality of Bologna to **coordinate** the mobility management activities relating to the Fair District.

 For this purpose in April 2009 an **Action Plan**, called "**Mobility Management Fair District**," was presented as part of the "Plan for the enhancement of the mobility management actions" presented by the Municipality of Bologna and eligible for funding from Ministry for the Environment, Land and Sea (MATTM).

 On 29/4/2010 the Ministry for the Environment, Land and Sea has notified the project **final approval**.

 The project lasts **three years** and must be completed by the end **31/12/2012**.

 Total cost: € 85.714,00

 Ministerial co-financing: € 60.000,00

 Emilia-Romagna co-financing : € 25.714,00

PROJECT GOAL

Extending mobility management policies/strategies/actions to other companies located in the Fair area, although small in size and not bound by law to implement mobility management's actions, aiming at broaden the audience of companies and improve the efficiency of the management demand for mobility in an attractive area characterized by extremely heavy and critical traffic conditions and an high number of private operators/employees, even if located in small local units.

GENERAL OBJECTIVES

- Promotion of sustainable mobility related to the home-work trip
- Encouraging the use of public transport and car sharing service
- Facilitating access to public bike-sharing service
- Building a network of electrical bicycles
- Encouraging and promoting car pooling between different companies

FORESEEN ACTIONS 1/2

Cycling promotion

- Pilot project “bike to work”
- Company traditional and electric bike sharing
- Infrastructural measures
- Bike sharing integration
- Awareness raising initiatives (such as European Sustainable Mobility Week) targeted at employees

FORESEEN ACTIONS 2/2

- Car sharing and car pooling promotion
- Company Mobility Management planning (dedicated integrative transport services/shuttle bus service re-organization)
- Re-organization of the public area inside and around Fair District
- Mobility planning dedicated to disable people and orienteering measures for blind people
- Company fleet and parking area management innovation
- Low impact logistic and freight delivery

CIVITAS MIMOSA





Planned measures: 70 (18 in Bologna)

Costs: ~ 24 Mln € (~ 6,5 Mln € for Bologna)

EU Co-funding : ~ 15 Mln € (~ 4 Mln € for Bologna)

Duration: 4 years (2008 – 2012)

Involved cities: Bologna, Utrecht (NL), Danzica (PL), Funchal (P) e Tallin (EST)

Project Coordinator: Municipality of Bologna

Partners: 17

In Bologna:

Municipality of Bologna, ATC LPT company, SRM, Emilia-Romagna Region

RER main activities already completed:

Dissemination:

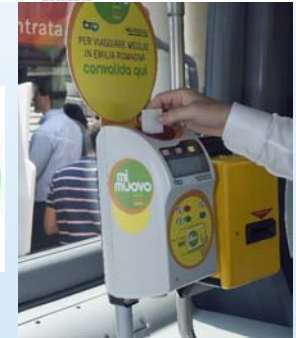
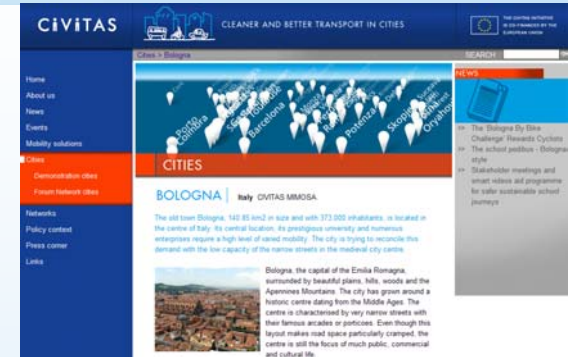
- Reporting activities on initiatives hold by RER and the other local partners (Municipality of Bologna, ATC ed SRM)
- Updating of the Measure implementation status in the civitas website
- Contribution to the newsletter and leaflets realization

MI MUOVO information campaign:

- A specific information campaign on MI MUOVO project is going to start in a week
- experience exchange with the European partners

Co-operation with ATC on the research and test activities for alternative fuels:

- A study on the ATC bus fleet consumption and emission has been carried out;
- A comparative research on the different existing alternative fuels (electric, hydrogen, hybrid) has been conducted; a report on this study is available on MIMOSA the web site.
- A tender has been awarded to VAN HOLL for the procurement by ATC of 2 12 meter long Hybrid buses in order to realize the foreseen tests.



LIFE+ MHYBUS



The european project MHyBus on Hydromethane

Emilia Romagna Region is coordinating the project MHYBUS co-financed by the European Commission in the framework of the LIFE + program 2007. The project implementation started in February 2009 and will be completed in June 2013.

MHYBUS intends to verify if a blend made of Hydrogen and methane is less polluting and more energy efficient than natural gas alone.

For this purpose the project aims at testing (on the road and with passengers on board) a bus prototype powered by a blend of methane with at least 15% Hydrogen, according to the final result of a preliminary experimentation conducted in a private ENEA test circuit.

Project Partners are:

ENEA



ASTER



ATM di Ravenna



SOL S.p.A.



ENEA TEST BENCH

The first test phase aiming at finding the most energy efficient Hydrogne percentage has been completed. A bus engine was bought and tested on the ENEA test bench in Casaccia (Rome).

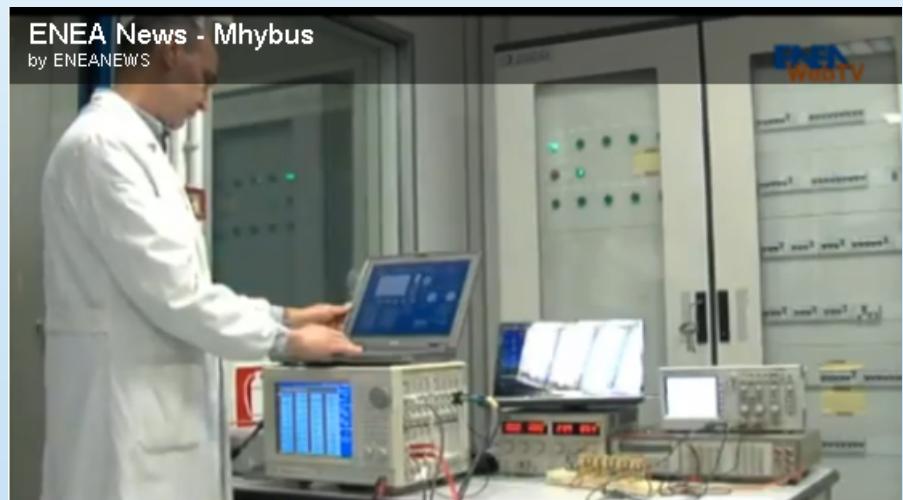
The test results were:

- the best percentage is 15%
- ACO₂ emission reduction of 11% was obtained

Afterwards the engine was transferred to **Neaples CNR** Engines Research Institute to carry out the mandatory tests foreseen and controlled by the Ministry of Transport.

In November 2011 the engine will be installed on the prototype bus by the bus manufacture **BREDAMENARINI** in order to start up the **on road test**.

A study by the University of PISA has verified that Hydromethane powered buses are not dangerous both for drivers and passengers.



Hydromethane filling station

- For the quick filling up during the bus service, the project foresees the realization of an Hydromethane station at the SOL plant in Ravenna.
- All the requested permissions (for the safety for instance) have already been obtained.
- In the next future a special compressor will be transferred from the ENEA test site in Casaccia (Rome) to the SOL plant in order to get the right pressure on filling the bus.



ENEA Compressor



SOL plant in Ravenna

Dissemination activities

Benvenuto a mhybus, Andrea Normanno!
Ecco una serie di cose che puoi già fare

Invita amici Aggiungi foto del profilo Aggiungi contenuto

Fotografie

+ Aggiungi fotografie Visualizza tutti

La community idrometano - nata in seno al progetto MHyBus finanziato dal Programma Life+ 2007-2013 della Commissione Europea - è aperta ad enti, imprese, professionisti, tecnici interessati all'uso delle miscele di idrogeno e metano per i trasporti. Tramite il **FORUM** si possono scambiare informazioni relative a tecnologie, progetti, pubblicazioni sull'uso dell'idrogeno tal quale e in miscele per l'autotrazione, sui veicoli che usano tali miscele, sul percorso di omologazione per tali veicoli, su progetti di mobilità sostenibile, ecc.

Membri

An informative website dedicated to MHyBUS project has been realized and is regularly updated

The website contains a session called “the hydromethane community” to promote the experience exchange on similar projects running at national and European level.

Actions to be fulfilled within June 2013

The prototype bus will have to cover 45.000 km in order to be homologated.

A communication campaign addressed to LTP users will be conducted on board and at bus stops to inform passengers

Tecnichal guidelines for the bus fuel shift from CNG to HCNG have to be elaborated.

The project foresees a HCNG cost benefit analysis (also through the hydrogen production from renewable sources) in order to evaluate the fuel shift feasibility for an existing CNG bus fleet

The project outputs will be disseminated through a specific dissemination campaign



Thanks for your attention

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