





THE CIVITAS INITIATIVE IS CO-FINANCED BY THE EUROPEAN UNION



From pilot projects to integrated transport services : La Rochelle, Civitas ...and beyond

Civitas Workshop

Athens 24th April 2012 Matthieu Graindorge La Rochelle Urban Community



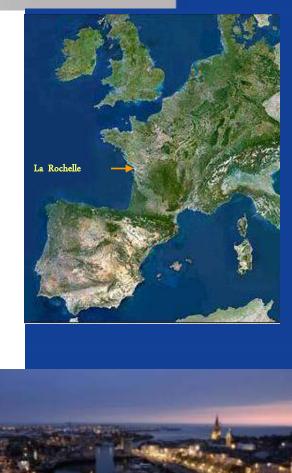


La Rochelle Urban Community

Population 150,000 inhabitants; 18 towns; 21,000 hectares; around 700 inhabitants/km2

Industrial sector : boat industry, transport (Alstom, Delphi, Rhodia....), commercial harbour ...

Other sectors : tourism & services, leasure harbour, University





La Rochelle and the CIVITAS-SUCCESS project

CIVITAS-SUCCESS Coordinator

- Project between 2005 and 2009
- 3 countries, 3 cities La Rochelle, Ploiesti (RO), Preston (UK), 12 Partners
- Specificity : small/middle sized towns

Why did La Rochelle involve in Civitas ?

- CIVITAS II more focused on middle-sized cities than Civitas I
- Adequation between the orientations of the EU Commission defined in CIVITAS and the strategy considered at local level in terms of urban transports







Which actions ?

A set of 25 actions :

- Clean vehicles
- Access Control Zones
- Bike-Sharing, bike infrastructures, cycle promotion
- Ticketing
- Real-time information
- Reorganisation of the bus network, of the electromobility services
- Business & Students travel plans ...



LA ROCHELLE CIVITAS



For some of the projects, Civitas has made it possible to :

- boost their implementation (eg EEV buses)
- make an in-depth and efficient reorganisation of the bus network (eg new bus network)
- implement more innovative projects (Ticketing integration, real-time information, bike sharing system)

For others, brand new projects (ex nihilo):

- Used cooking oils recycled into biodiesel
- Hybrid mini-buses



Towards a more sustainable mobility with "Yélo"





Creation of a coherent image of the PT network through a unique brand called 'Yélo'

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Integrated ticketing : a unique smarcard for all modes of transport



Before Civitas :

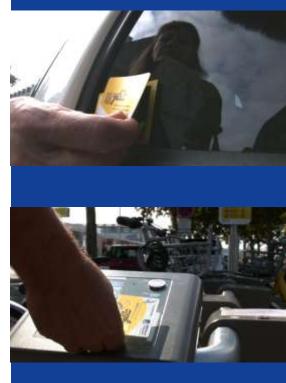
A smartcard for several bus networks of the County

Within Civitas :

- 2008/09 : a new step toward sustainable mobility
- Beyond the bus, a large range of transport modes and mobility services
- To make ALL modes of transport <u>easier & more</u> <u>practical</u> to use. Freedom of choice.

Beyond Civitas : future integration for regional notably for the mobility services (car-sharing) + new technologies (NFC)







Development of soft modes



Before Civitas : 1976 : 1st public bike loan called 'vélos jaunes' ('Yellow Bikes')

Within Civitas : design, evolution and installation of Bike-sharing system

Beyond Civitas : in 2012 : 310 bikes, 54 stations, 1 300 subscribers

230 kms of cycle paths and lanes







Improve collective transport



New buses complying with EURO 5 and the EEV standards

Buses with a High Level of Service : frequency 10 minutes

Dedicated bus lanes : within Civitas 6 kms, today more than 30 kms







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Real time information, ITS Services

Within Civitas :



- RTI systems : panels, SMS, bus shelters
- Recharging system of Public Transport Season Tickets on the internet



Beyond CIVITAS :

- TFT screens on-board buses
 - o Intermodality
 - o Accessibility
 - o Dynamic System
- Multilingual vocal announcement
- Future : QR codes, Apps







Access restrictions and pedestrian zones

Before Civitas :

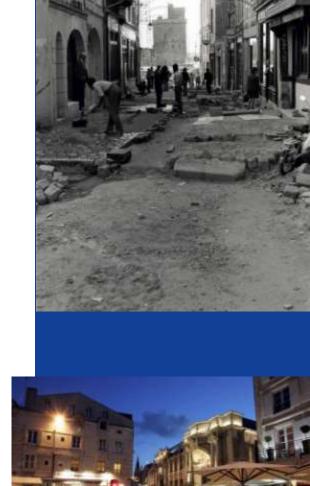


- 1973 Creation of the first town centre pedestrian area in France
- ...since then, progressive extension of pedestrian zones

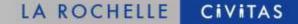
Within Civitas :

Access control zones :

- strolling zones in the historical city centre for cyclists, pedestrians
- Automated rising bollards









RUE ST JEAN DU PEROT











RUE DU BRAVE RONDEAU









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MARCE NEEDELLAND





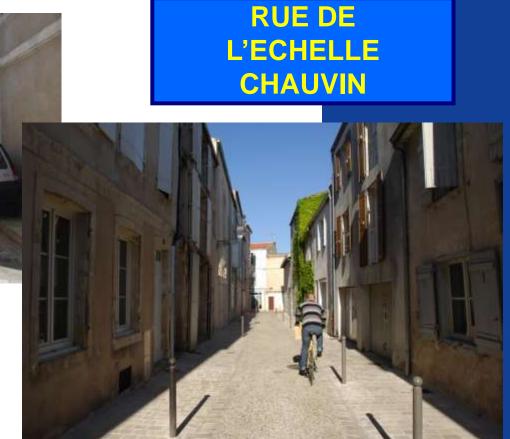




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Electro-mobility in La Rochelle: a long-standing story...



Late 80's - Early 90's :

- Vehicles manufactured in La Rochelle and tested by La Rochelle municipality: Volta cars
- Partnership with Peugeot EVs tested by selected households
- the City of La Rochelle buys electric vehicles and scooters for short-duration rental towards inhabitants and companies

Late 90's :

 the City of La Rochelle buys some utility electric vehicles : cleaning vehicles, garbage truck used in the city centre, and electric cars for the municipal fleet

Development of various electric modes : boat, car, truck, micro-buses





Within CIVITAS-SUCCESS: Find a sustainable organisation for the electromobility services

Main output : a long-term PPP (2006-2018) : delegated management of public services with Proxiway (Veolia) for three electromobility services

- o Electric car-sharing
- o Urban goods deliveries using electric vehicles o Electric / Hybrid Shuttle to the Park-and-Ride
- This organisation could be considered as innovative :
 - o Innovation in the contractual aspects : activities made durable
 - o Innovation in the management
 - o Technological innovation
 - 1st Delegated management of public services in France on new electric and hybrid transport services
 - The services have to be financially sustainable by the end of the contract
 - The main barrier encountered in the first years : the lack electric/hybrid available on the market !









Electric car-sharing Yélomobile (1/3)

- 3)
- 1999 : initiation of Liselec experimention with PSA + EDF
- Self-service round the clock, 7 days a week Complement to the bus network
- 7 stations 50 vehicles (25 Peugeot 106 ; 25 Citroën Saxo)
 - 75km autonomy
 - Ni Cd Batteries
- Temporary / short duration use, short distances (5km/trips av.)
- 1st/2nd car ownership, even as a company fleet
- A simple Procedure : one contract, one pass
- Can be used with the regular PT smartcard

the car... differently!

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CONTACT

10 VOLTS

50 VOLTS

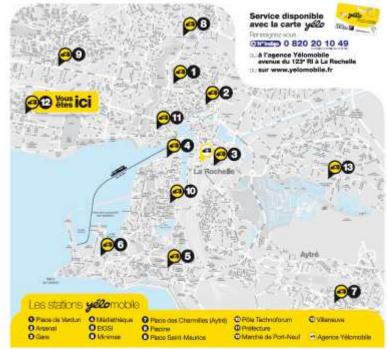
100 VOLTS

150 VOLTS

250 VOLTS

subscription	Hourly price
à la carte	7€
10 €/mois*	6€
50 €/mois*	4,80 €/h
100 €/mois*	4,20 €/h
150 €/mois*	3,60 €/h

3,00 €/h



250 €/mois*

Electric car-sharing Yélomobile (2/3)

Beyond Civitas : 13 stations available in 2012

- equipped with slow charging points
- 6 new stations in 2011
- A pricing offer adapted for most of the users

The more you use the service, the less you pay per hour

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Electric car-sharing Yélomobile (3/3)

Beyond Civitas : new generation electric cars for the carsharing system

- 4 vehicles pre-selected in July 2010
 - technical performance
 - commercial offer
 - compatibility with the car-sharing management system
- Presentation to the public, press conference : car-free day 2010
- Technical tests on the ground
- Qualitative Analysis : Focus group 50 drivers
- In December 2010 the final cars were chosen :
 - 30 C zero
 - 20 Mia









ELCIDIS : Electric City Distribution

Before CiVITAS : Elcidis project : Reorganizing urban deliveries

- One central platform strategically located between the centre and surroundings areas operating from 2001
- o Use of electric vans for last miles
 - small/medium Parcels : transferred to electric vans
 - Big parcels and Pallets : electric truck
- o Facilitating traffic fluidity (municipal decree restricting access to the very city centre between 6am and 7.30 a

Within CiVITAS : new delivery services, optimisation of the consolidation centre, coherency with other electromobility services

Beyond CIVITAS : New truck in May 2010 : Modec. New partnerships for new services.











Electric shuttle boats

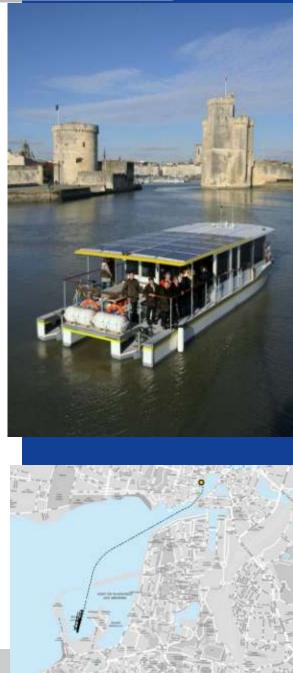
1988 : new route from both side of the Old Port 1998 : 1st solar electric shuttle boat in France

- 30 passengers
- Crossing La Rochelle's channel in a few minutes
- On-demand service; all year long
- Bikes can also be brought on board
- Accessible to people with reduced mobility
- 280 000 passengers / year
- Induction system + night charging



Electro solar « sea bus »

- 2 electro-solar boats rom May 2009
- 75 passengers ; full accessibility
- PV panels (26 m²) providing 20 % energy
- Charging to the grid during the night
- Ni-Cd batteries
- Speed 6 knots (13 km/h)
- 170 000 passengers /year
- First electric boats with enough power and range for seagoing navigation



Parking differently



Within Civitas : Park before entering the city

- Removing free parking places in the city
- Work with the stakeholders to accompany the change
- Creation of one park-and-ride

Efficient solutions to reach the City Center

- Bus with a high level of service ILLICO
- Electric/Hybrid shuttles
 - Electric microbuses (2003)
 - Civitas : 2-year experiment of 2 hybrid microbuses
 - 2012 : electric bus Oreos 4X
 - 44 seats ; 140 km range





Accompany the change towards inhabitants and companies : pedagogy, information, services

- Inform on incentives : for electric and hybrid vehicles for the offstreet and public parkings
- Public slow or fast free charging points available for electric vehicles when needed
- Inform the inhabitants/companies/local authorities on the possibilities to obtain subsidies for the purchase of Evs

Pedagogy : Citizens / Users / Professionals

- Continuous public consultation with stakeholders, with citizens
- Events: the car-free day...from 1997
- Non-profit marketing strategies
- Continuous & straightforward information : « yélo trends »







500 tendances

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Perpetuating innovation : cybercars

- New type of e-mobility : electric cybercars without any driver operating on an open and public space
- Technical innovation
- On-demand service
- Anticipate what could be the mobility of the future
- National media coverage for the launch and the conference



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Results : a change in the modal split

Bus : from 6 to 7,7 millions trips in three years

Bike : 310 bikes/54 stations/15 000 trips per months/ 600 trips per months/1300 subscribers, 10 % of modal split

Electric car-sharing : 2 millions kilometers in 10 years, 20 T C02 saved, 50 cars, 13 stations, 500 subcribers

Electro-solar boats: 450 000 trips / year

P+R : 800 home-to-work subscribers Nearly 150,000 trips per year with EV minibuses





Conclusion on LR's involvement in Civitas

From pilot projects to fully integrated public transport services

- A catalyst for local actions and behaviour change
- A higher visibility of La Rochelle at European level
- Importance of the "integrated" approach (+SUMP)
 - Balance between incentives and restrictions
 - Balance between soft and technical measure
 - A support of the investment but also the engineering, the communication, the evaluation
- Involvement of the politicians is crucial to go further in the behaviour change



Carry on the exchanges with other cities through CIVITAS & CIVINET !









Thanks for your attention !

yélo

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Cleaner and better transport in cities





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