

Current and emerging good practices in rural shared mobility – experiences from the SMARTA project

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Mobility is being transformed throughout Europe

SUMPs

...

ITS systems

Smart cities

Low emission zones

White Papers on urban transport

Transport Networking Companies rules











Cities

Towns and suburbs

> **Rural** areas

Distribution of population (%) by degree of urbanisation, EU-28 Eurostat 2017 (estimated)







Depopulation 2017 Austerity Ageing 27% population measures *Of the EU's population* lives in rural areas 27% of Europe's population means 137 million people, which equates to the population of the 40 largest Metropolitan areas in Europe 24% *More attention in transport policy, innovation,* capital investment and ongoing subsidy for rural *mobility needs* Of the EU's rural population is at risk of poverty or social exclusion

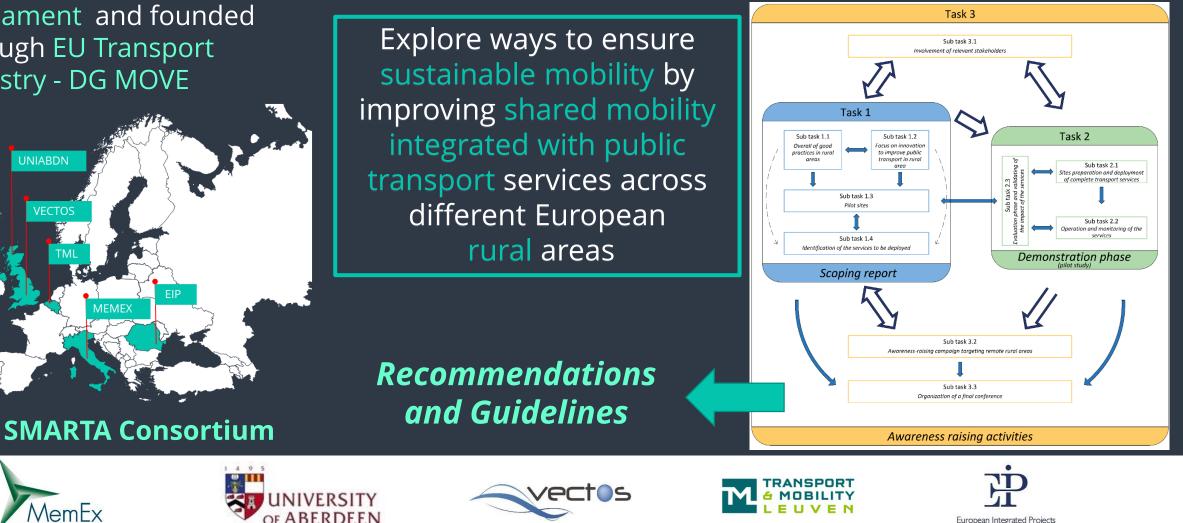




SMARTA Project

3 Main strands of activities

Research Demonstration Engagement



Sponsored by European Parliament and founded through EU Transport Ministry - DG MOVE

UNIABDN

VECTOS

SMARTA | Time to rethink rural mobility

MemEx

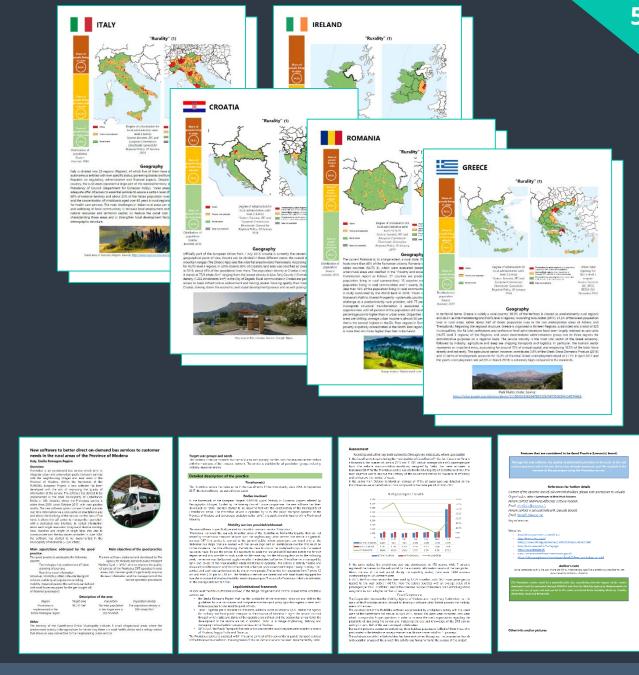
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European Integrated Projects

"Insight Papers"

Analysis of the challenges of mobility in rural areas and the framework in each of the 28 EU countries (including selected EEA states, North America and Australia)



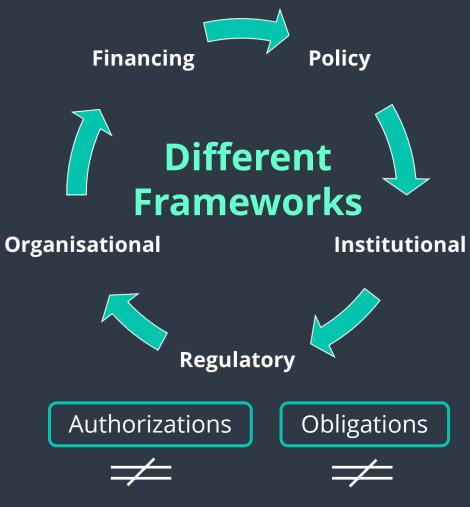
"Good Practices"

Comprehensive overview of Good Practices in rural shared mobility from around Europe and beyond



Insight Papers

Mapping the diversity within European frameworks



Which is the layer of Government at which rural mobility is primarily determined?

National

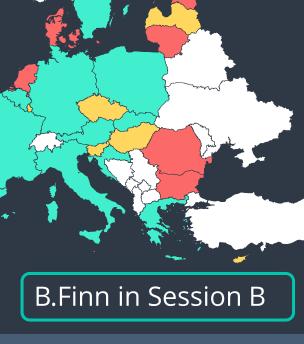
Cyprus, Czech Republic, Hungary, Ireland, Latvia, Luxemburg, Malta, Slovenia

State/Region

Austria, Belgium, Croatia, France, Germany, Greece, Italy, Poland, Portugal, Slovakia, Spain, Sweden

Municipality/Country

Bulgaria, Denmark, Estonia, Lithuania, Netherlands, Romania, Scotland, UK





Pilot Demonstration Sites

Validation and evaluation in real-field conditions of effectiveness, efficiency, response, impacts and prospects for shared mobility services connected with public transport



Combining travellers more efficiently by different service schemes



Improving the availability and integration of transport offer and mobility options

Support ITS such as user info, booking, ticketing, fleet control, MaaS schemes, ...



Specific Call for Tender has been launched by EU-DGMOVE for selecting 4 different pilot sites

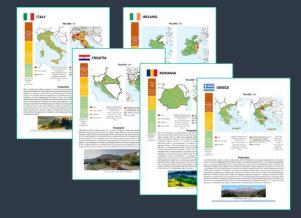
The SMARTA Consortium will assist, support and evaluate the 4 pilots



"Insight Papers"



Pilot Demonstration sites



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Stakeholder's Engagement

Gain a deep understanding about the key findings, lessons learnt and transferability issues of different mobility experiences in rural areas across Europe



Good Practices

A. Transport and mobility services in rural areas A.1 TRANSPORT SERVICES and TARGET USER GROUPS

• Solutions for all the population especially the disadvantaged (in terms of accessibility, availability, costs, tools etc.)

A.2 ICT IN PUBLIC TRANSPORTATION AND SHARED MOBILITY

- Technologies that enable more efficient planning of journeys
- Simulation of advantages and disadvantages
- Fleet management and real time information
- Multimodal travel planners
- Autonomous shuttles

A.3 INTERMODAL SERVICE COORDINATION

- Transport solutions at bus/train stations for last mile connectivity
 A.4 EASY MOBILITY
- Active modes, including sharing of bikes and e-bikes

B. Good Governance Enabling Sustainable

Rural Mobility

B.1 SOLUTIONS FOR SMART RURAL AREAS

- Financially viable systems
- New business concepts and solutions for improving the accessibility of rural areas

B.2 STRATEGIES FOR INCREASE RIDERSHIPs

- Good marketing campaigns
- Improvement of the systems reliability
- Attractive fares

B.3 COMMUNITY-BASED TRANSPORT SERVICES

- Local initiatives involving the community to identify transport solutions
- Needs assessment campaigns



Good Practices: case identified

National Program	DRT	Shared Mobility	Integrated PT
Rural Transport Program, Ireland	Ring a link, Kilkenny, Ireland	CT Program, Canada	Langdas case study (SmartMove project), Greece
ITNAmerica –Community Based Rural&Town Transportation,USA	Prontobus, Modena Province, Italy	Shared Use Mobility Agency, Elba Island, Italy	Krakow Metropolitan Transport, Poland
National Maas Framework, Finland	DRT in the region of Middle Tejo, Portugal	SOPOTNIKI –free transport for elders in rural areas, Slovenia	Smart Move in the Metropolitan Area of Alba Iulia, Romania
Fare-free buses, Estonia	Shotl Platform, Spain	Alpine Bus –Bus service in tourist area, Switzerland	Muldental in Fahrt, Germany
	The Village Bus in Kolsillre, Sweden	Talybont Energy –community car sharing, Wales	
32 Good Practices identified to the date Target 60 GPs	RegioTaxi, Netherlands	Rezo Pouce, France	
	Flexible solution in 8 rural municipalities (Flexi Tec),Belgium	EcoVolis community bike-sharing, Albania	
	Bummelbus (DRT), Luxembourg	Northern Commute, Limerick, IE	
	Western Region DRT Pilot Stage 1 –New South Wales, Australia	Autonomous shuttle in Bad Birnbach, Germany	
	Suffolk Links DRT, UK	Bürgerbuses, North Rhine- Westphalia , Germany	
	Fast seasonal bus line from Varna to the resort area;Bulgaria		
	ArrivaClick On-Demand Public Transport Service, UK		
	Badenoch and Strathspey Community Transport Company, Scotland		
Texelhopper-Flexible solution on Dutch Isle, Netherlands Donegal LocalLink, Ireland			

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Good Practices

Same description format

New software to better direct on-demand bus serve needs in the rural areas of the Province of Modena Italy, Emilia Romagna Region

Overview

ProntoBus is an on demand bus service which aims to integrate urban and extra-urban public transport services with the neighbouring villages and rural areas in the Province of Modena. Within the framework of the RUMOBIL European Project, a new software has been developed with the aim of improving the guality of information of the service. The software has started to be implemented in the small Municipality of Castelfranco Emilia (~ 30k inhabit.), where the Prontobus service is active from 2006, since October 2017, with very positive results. The new software system on user's hand provides real-time information via a web portal or smartphone app and allows the booking of the service; on the back office hand, it allows the call center to manage the reservation with a dedicated web interface, to collect information about each single reservation (origin and destination stop, hour, duration and length of single trips, etc) and to communicate with the bus drivers via tablet. In June 2018. the software has started to be implemented in the Municipality of Mirandola (~ 23k inhab.).

Main aspect/issue addressed by the good Main objectives of the good practice practice

The good practice is addressing the following aspects:

Technologies that enable more efficient planning of journeys Real time travel information

Moreover, Prontobus offers a flexible transport solution usable by all population including mobility-impaired people (the service is carried out with small buses equipped for the get-on/get-off

of disabled passengers

Description of the area Region Target area Prontobus is implemented in the

102.47 Km² Emilia Romagna regior

Other

The territory of the Castelfranco Emilia Municipality includes 8 small villages/rural areas where the predominant activity is the agriculture. In the territory there is a small health district and a railway station that allows an easy connection to the neighbouring urban centres

Population

The total population

in the target area is

32174 inhab.

1. Overview
- Short description of
Good Practice (GP)
- Main aspect/issue
addressed by GP
- Main objectives of GP
- Description of the
area
- Other

Target user groups

and needs

2. Detailed description

- Timeframe
- Bodies involved
- Mobility services
- provided/addressed
- Legal Framework
- Cost and Financing
- sources - Organizational set-up

since 2006. In September

- Supporting
- technologies **Detailed** descripti

The Prontobus service has 2017, the new software ha

In the framework of the European Mobility in European Regions affected by Demographic Change), funded by the Interreg Central Europe programme, the new software has been developed by "aMo" and has started to be implemented with the collaboration of the Municipality of Castelfranco Emilia. The Prontobus service is operated by SETA, the public transport operator of the Province of Modena, and is managed and planned by "aMo", the public mobility Agency of the Province of Modena

Mobility services provided/addressed

The new software is specifically related to the public transport service "Prontobus" "Prontobus" connects the sparsely inhabited areas of the Castelfranco Emilia Municipality, that are not served by conventional transport services, with the neighbouring urban centres. The service is a generalpurpose DRT (the service is opened to the general public) where passengers can board only at the dedicated bus stops, that are marked with the service logo and an identification number that must be communicated at the time of booking. The vehicles have to stop in the predefined stops only if a request has been made. To use the service, it is necessary to book the ride at least 30 minutes before the time of departure and it is possible to book a ride for the same day, for the following days or for the following week: the service must be booked by phone call at the dedicated call center. The call center is managed by SETA and covers all the Municipalities where Prontobus is operated. The service is entirely flexible and allows all possible trips to and from the network collection points (dedicated stops) ("many to many" DRT service) and each race can be booked by one or more people. The service is in operation from 7 am to 12 pm and from 2.30 pm to 7.30 pm. The Prontobus services are carried out with small buses equipped for board and deboard of disabled/mobility impaired passengers. The cost of a Prontobus ticket is is estimated on the average distance to travel.

Legal/Institutional Framework

At local level the main Authorities involved in the design, assignment and control phases of the Prontobu services are:

- · the Emilia Romagna Region that has the availability of the economic resources and defines the guidelines for one harmonised and comprehensive transport policy upon homogenous areas both from a geographic and mobility point of view
- "aMo Agenzia per la mobilità e il trasporto pubblico locale di Modena S.p.A", that is the agency for mobility and local public transport in the Province of Modena. It signs the service contract through which rights and duties of the operators are defined and the economical amounts for the development of the service are set; in addition, "aMo" is in charge of planning, defining and managing the local public transport services in the Province.
- · SETA S.p.A, the Public Transport Operator which operates the local transport services in the province of Modena, Reggio Emilia and Piacenza,

The Prontobus service is operated within the same contract of the conventional public transport services of the Modena Province basin. The assignment of this on-demand service has been implemented by "aMo"

3. Innovation aspects - Organisational responsibilities and working arrangements - Level of public sector financial support - Interconnections between shared and

public transport

- ICT connections and

- Other (e.g. social

innovation, etc.)

services

impacts

4. Assessment - Ridership and other key metrics/results - Good Governance - Success factors/strengths - Difficulties encountered/weaknes

 Features that are considered to be Good Practice (Lesson learnt) - References for celfranco Emilia con

10.09

7.889 1.405

4.2% 17.3%

11

further details Author's not

In the same period, the smartphone app was downloaded by 178 people, while 7 persons registered themselves on the web portal for the automatic information service of the web portal. About the use of the web portal, during the reporting period, there were 1.384 accesses corresponding to 385 different users.

1.306 1.314

of pass

36.5% 15.6% 13.7% 9.6%

9.000

8.000

7.000

6.000

1 38

In 2017, the Prontobus service has been used by 12926 travellers, with 1853 more passengers in respect to the year before (+16,7%). Now the service operates with an average value of 6 passengers per hour. In addition, due to the increased number of travellers, SETA is thinking about using vehicles with a higher number of seats.

Good Governance

The Cooperation between the Mobility Agency of Modena and the primary Stakeholder, i.e. the users of the Prontobus service, allowed to develop a software which better answers the mobility needs of the users

The development of the RUMOBIL software was preceded by a telephone survey with the usual users of the Castelfranco call service. In April 2017, around 300 users were contacted, who were asked to respond to 5 open questions in order to increase the user's expectations regarding the possibility of improving the service and increasing the use and knowledge of the DRT service among citizens. Half of the users surveyed collaborated.

During the project presentation conference, three habitual passengers (raffled off from those who participated in the telephone survey) received a multi-race carnet valid for 12 journeys. The collaboration with the Stakeholders has been maintained throughout the preparation, launch

and execution phases of the project; this activity was fundamental to the success of the project







The new software, designed and developed by The Agency for mobility and local public transport Modena S.p.A. - "aMo", aims to improve the quality

of services of the Prontohus DRT operated in rural

areas, with the main goal of significantly improve

the user information and the management of the

service operation procedures

Population density

The population density is

304 inhah /Km²

Bürgerbuses, North Rhine-Westphalia , Germany

Volunteer-based community transport service

- Based on a set of timetable and defined stops (conventional service)
- \checkmark Ticket payed directly to the driver and booking in advance is not necessary

Bürgerbuses complement public transport with first/ last-mile services

- Passenger capacity is limited to 8 seats because volunteer drivers do not have bus driver licenses
- The service scheme depends mainly on community level of engagement
- Financially combination of public and private funding as well as membership fees
- Vehicles are owned by volunteers association and can be supported by NRW's Ministry of Transport





Rezo Pouce, France

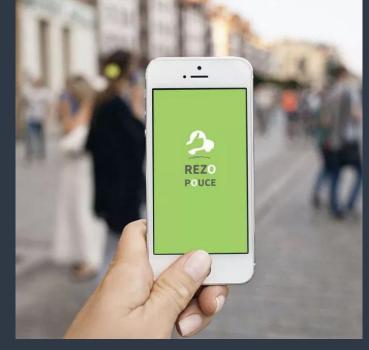
RezoPouce is a successful hitch-hiking service

IT platform for subscription avoiding subjective feeling of unsafety and uncertainty and allowing rapid, convenient and extremely cheap trip

Service is organised by the municipality with the support of the RezoPouce association

Innovative governance model: a cooperative society with collective interest (SCIC) "Spot" every 400 m in village





Currently, Rezo Pouce is active in more than 1800 French municipalities



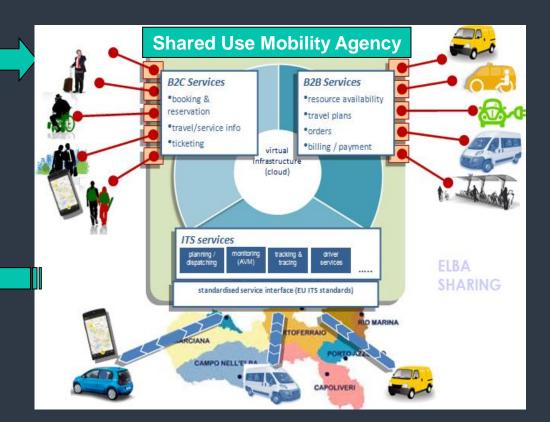




Shared Use Mobility Agency, Elba Island, Italy

- **Users** as potential mobility service provider
- Cooperation Netwoirking schemes
- **IT** platform and connectivity
- "Notice board" for sharing the different trips





First "step" of a future MaaS scenario in Elba

Center for planning, managing and coordinating ride sharing services, infomobility and transport services networking



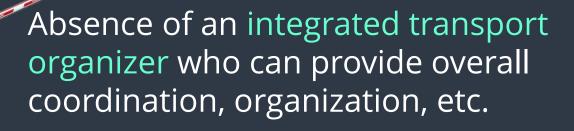
Shared Use Mobility Agency, Elba Island, Italy



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Starting the Cross Analysis of GPs DRT and Flexible Transport Services



Positive initiative in **Belgium** and **Denmark**

Political barriers and competition regulation

Conventional PT procurement

Lack of a detailed economic analysis

VS

Funding reserved only for starting the implementation

DRT service subsidied following Lack of a set of the same parameters as conventional lines

Financial barriers

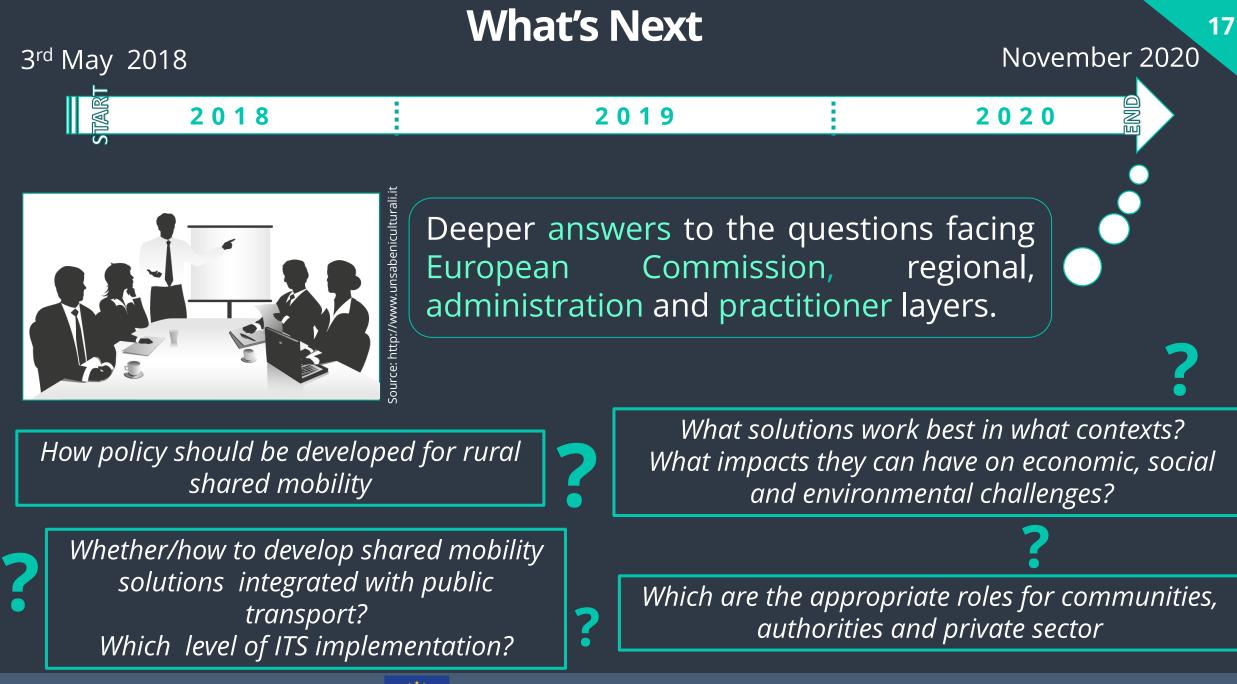
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quantitative and qualitative indicators

Few tenders give effective specifications VS on DRT services

Malta



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Thank you!

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