



(I eTravel) Emilia-Romagna's challenge to promote electromobility at regional level

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EMILIA-ROMAGNA REGION: SNAPSHOT



TEN-T network



POPULATION

4,432,439



LAND

22,445 km²



CAPITAL CITY: **BOLOGNA**

PROVINCES: **9**

MUNICIPALITIES: **348**

ENTREPRISES

383,549



GDP PER HABITANT

30,493 €

UNIVERSITIES

5



INDUSTRIAL CENTRES

10

REGISTERED VEHICLES

2,699,973



DAILY TRIPS

8,927,000



AVERAGE

DAILY TRAVEL [km]

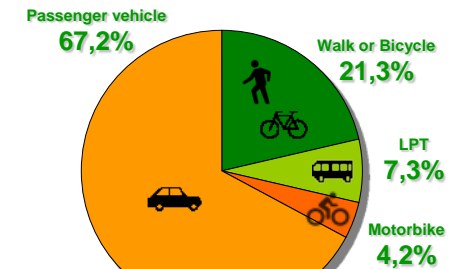
44 km



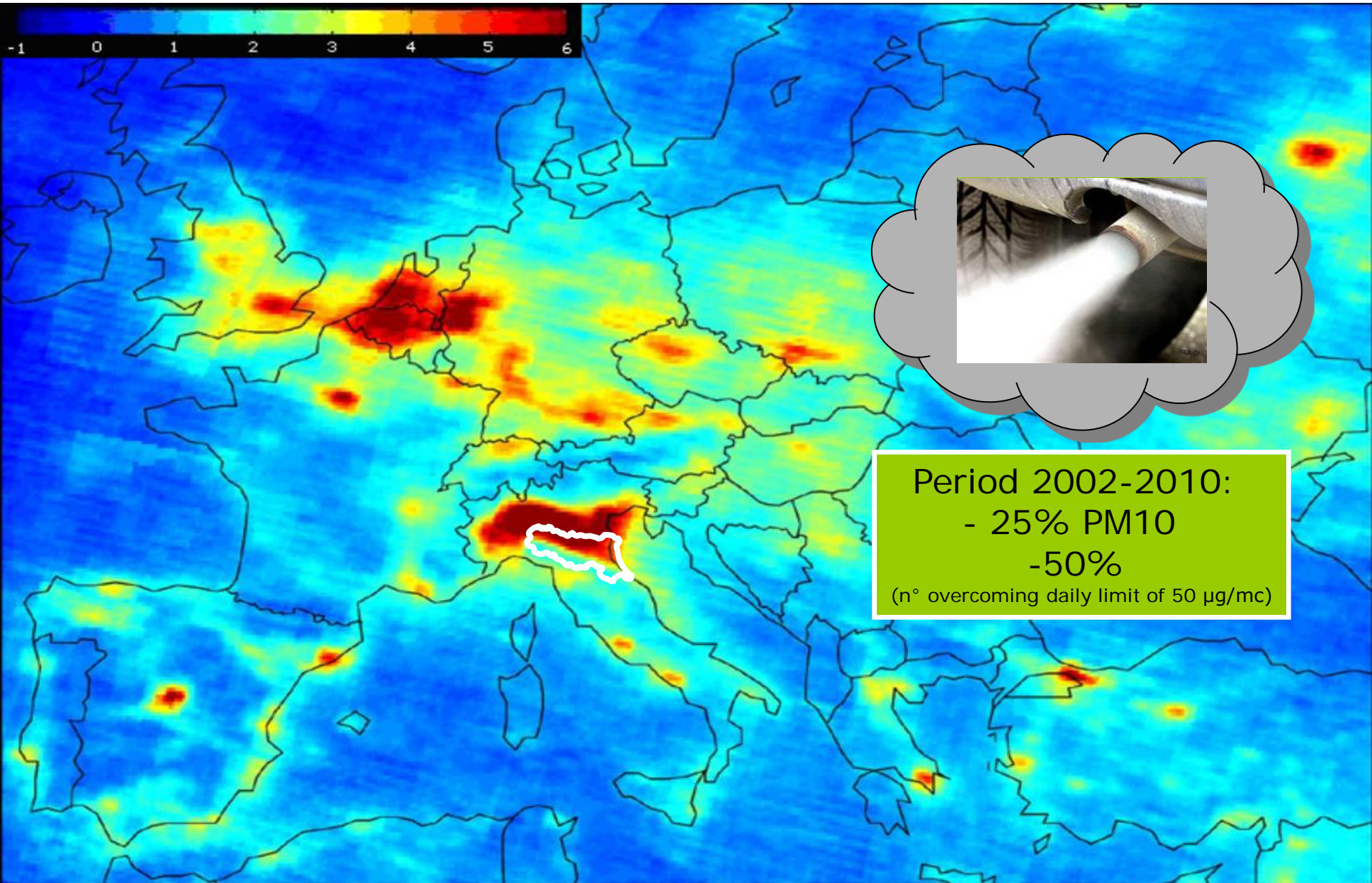
AVERAGE
DAILY TRAVEL
[MINUTES]
66'



MODAL SHIFT

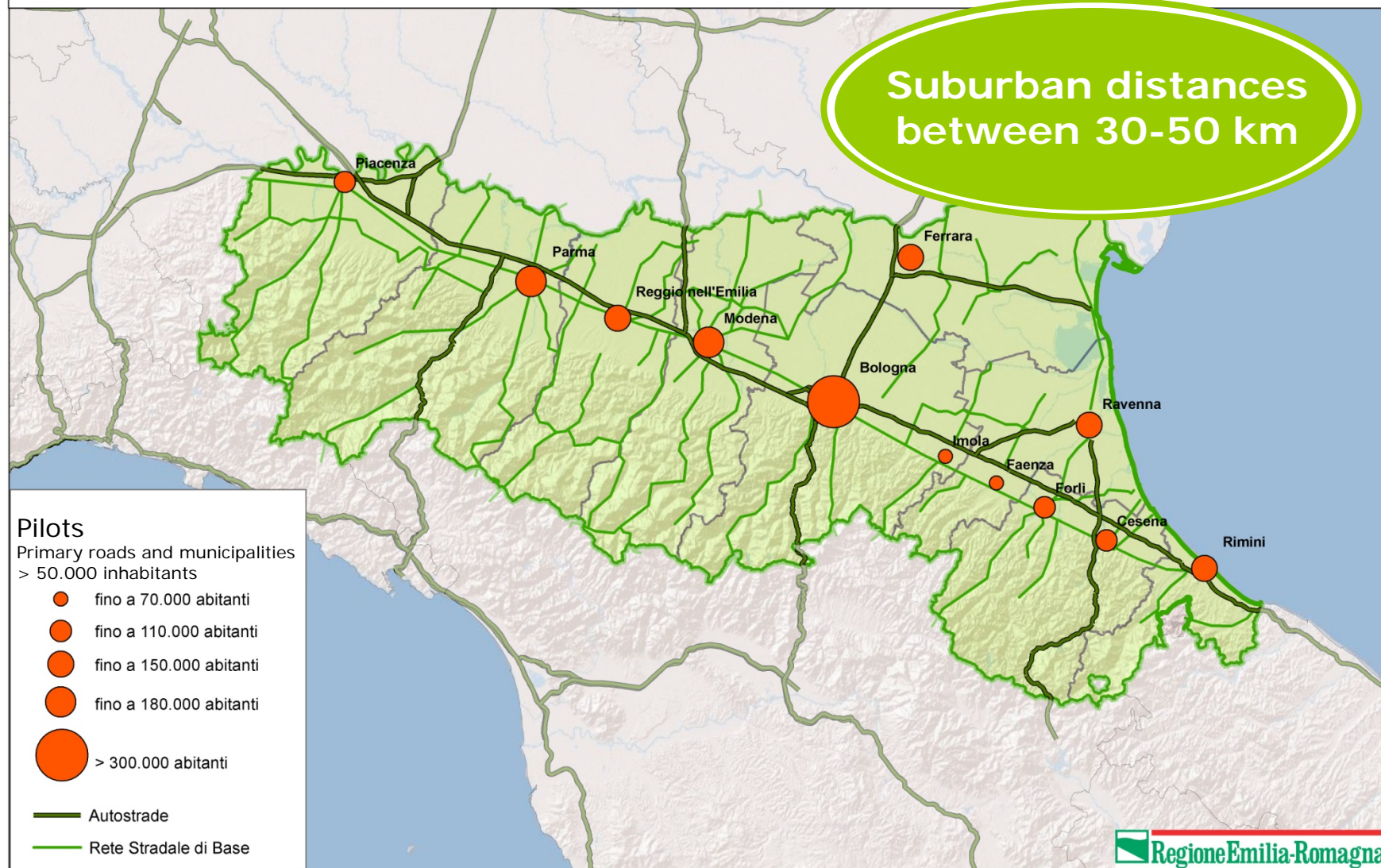


ENVIRONMENTAL PROBLEMS



TERRITORIAL FRAMEWORK

Primary roads and municipalities > 50.000 inhabitants



INTERDISCIPLINARY APPROACH

NEW PRIT 2020



PER
Regional Energy
Plan
2011-2013

Health plan
2009-2011

Environmental
Plan
2011-2013



- Sustainable mobility/Good mobility
- Electric mobility



REGIONAL ACTIONS FOR SUSTAINABLE MOBILITY:

Regional agreements on Air Quality with Provinces and Municipalities

Support for local policies: anti-smog actions; LPT development...

Sustainable Mobility Plan 2003-2005

DPF, New buses, Cycle network, Sustainable mobility, City Logistics

since
2002

68 MLN €

Regional funds for Methane/LPG conversion: 13MLN €

30.000 vehicles
converted

Funds for DPF installation: 4MLN €

678DPF
BUS
2008

Mi Nuovo Elettrico (Electric Mobility)



Bike sharing, Car sharing: 2MLN €

Incentives for the Municipality of Bologna to purchase e-bike (0,7MLN €)

Incentives for rail freight transport LR15/09

Intermodal
transport

9 MLN €
2010-2012

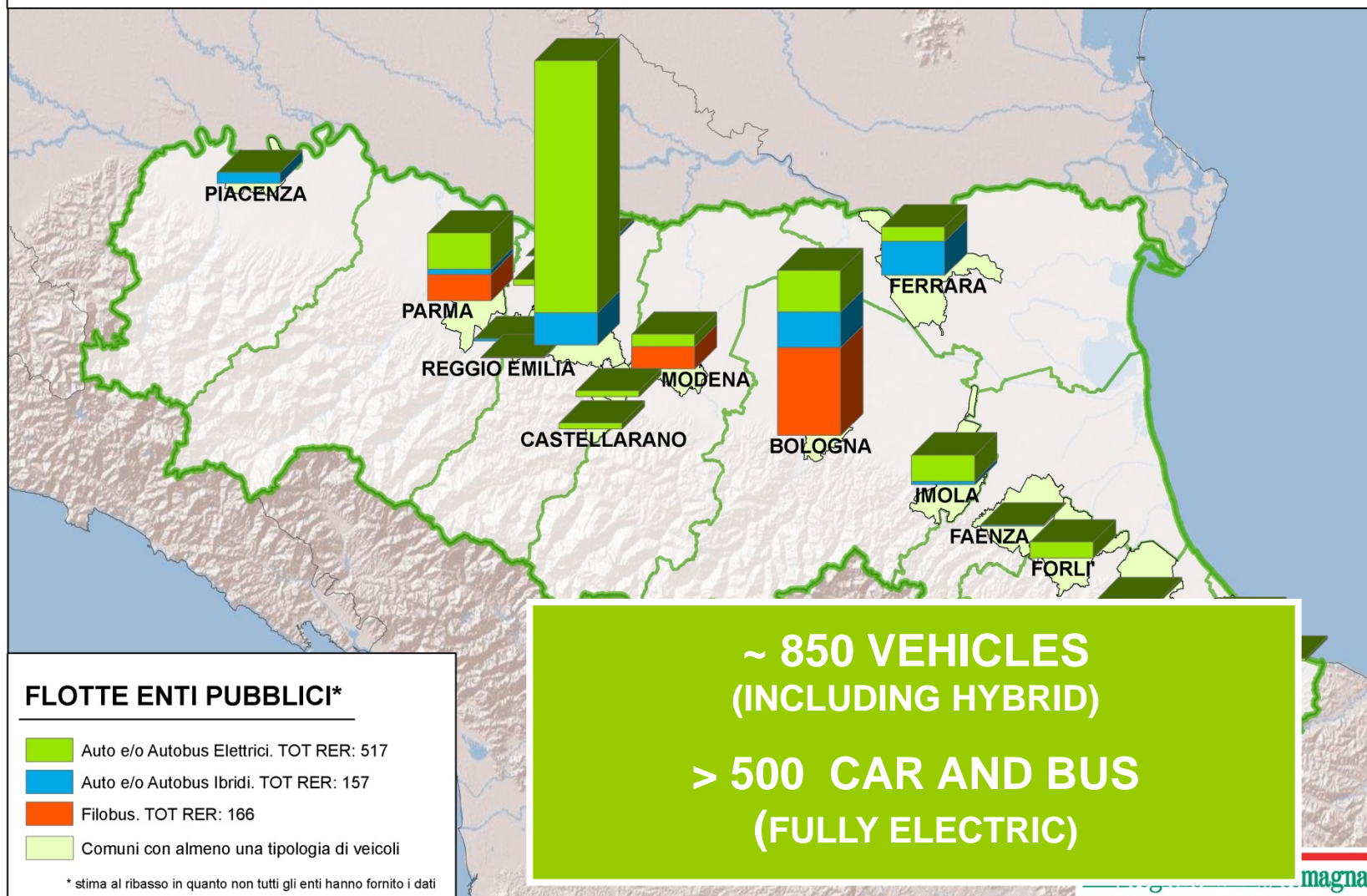
Investment in the Railway Sector: 400 MLN €

(rolling stock renewal, infrastructural improvement, security)

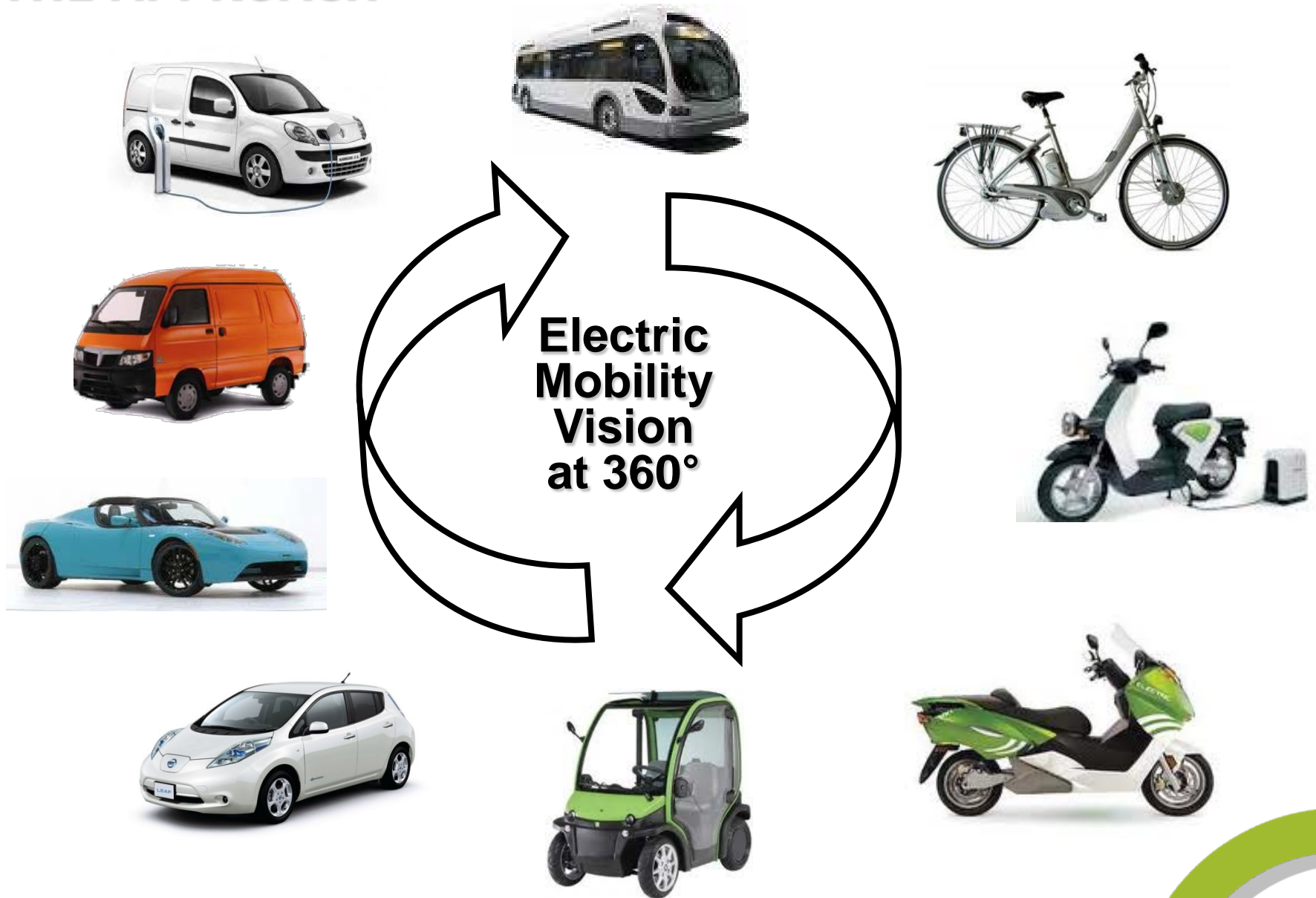


FLEET OF ELECTRIC VEHICLES IN PUBLIC ADMINISTRATION

MOBILITA' ELETTRICA ENTI PUBBLICI IN EMILIA ROMAGNA - 2010



THE APPROACH



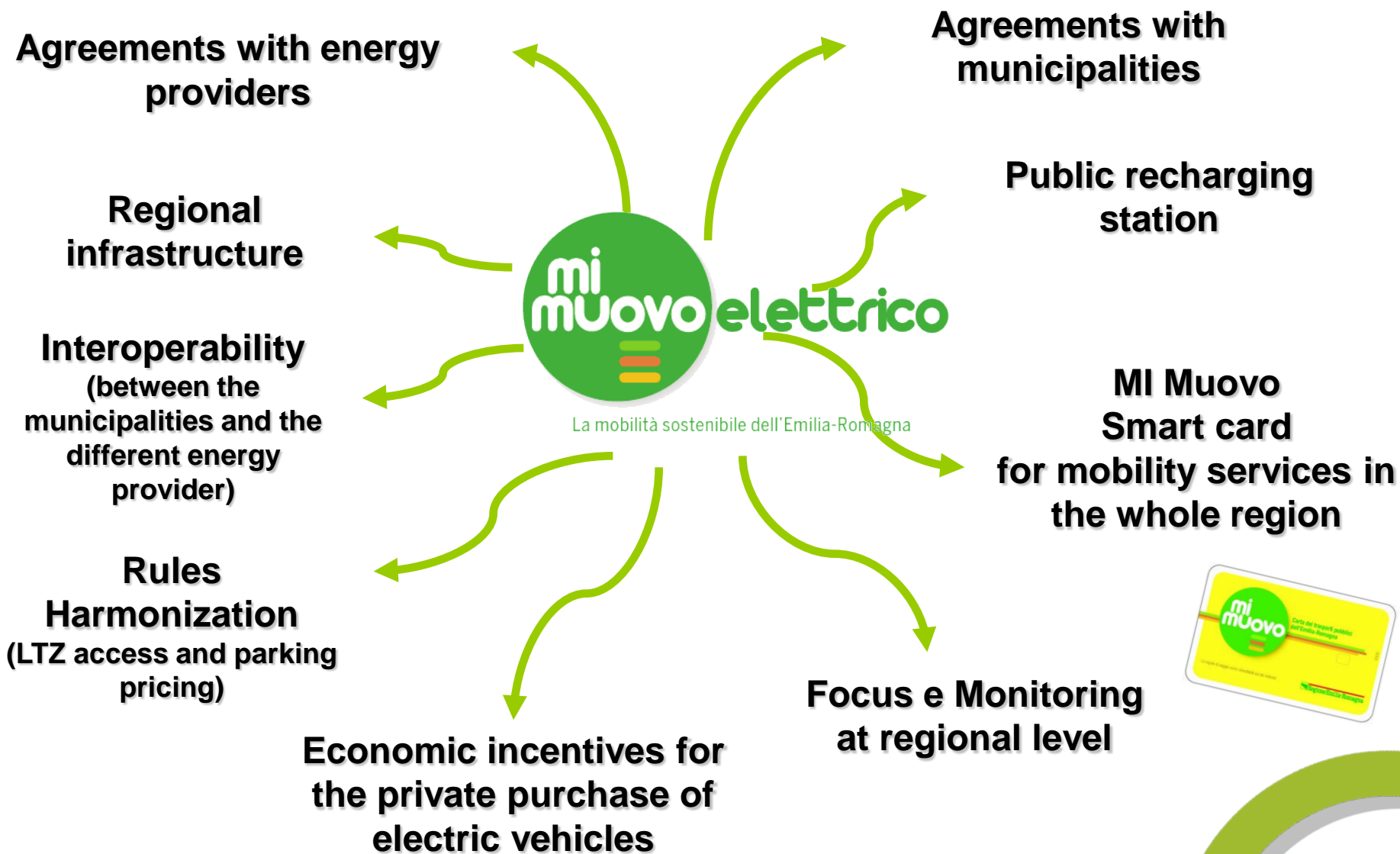
MI MUOVO SYSTEM



Contactless Smartcard
RFID technology



ELECTRIC MOBILITY REGIONAL PLAN



DO WE NEED A CHARGING POINT IN EACH PARKING PLACE ?



Better Place Project - Israel

TARGET:

- fleets
- citizens

.....

AIMS

- emergency charging
- long stop charging
- guarantee charging

LOCALIZATION:

- frequently used area
- interchange parking
 - city centre
 - workplace

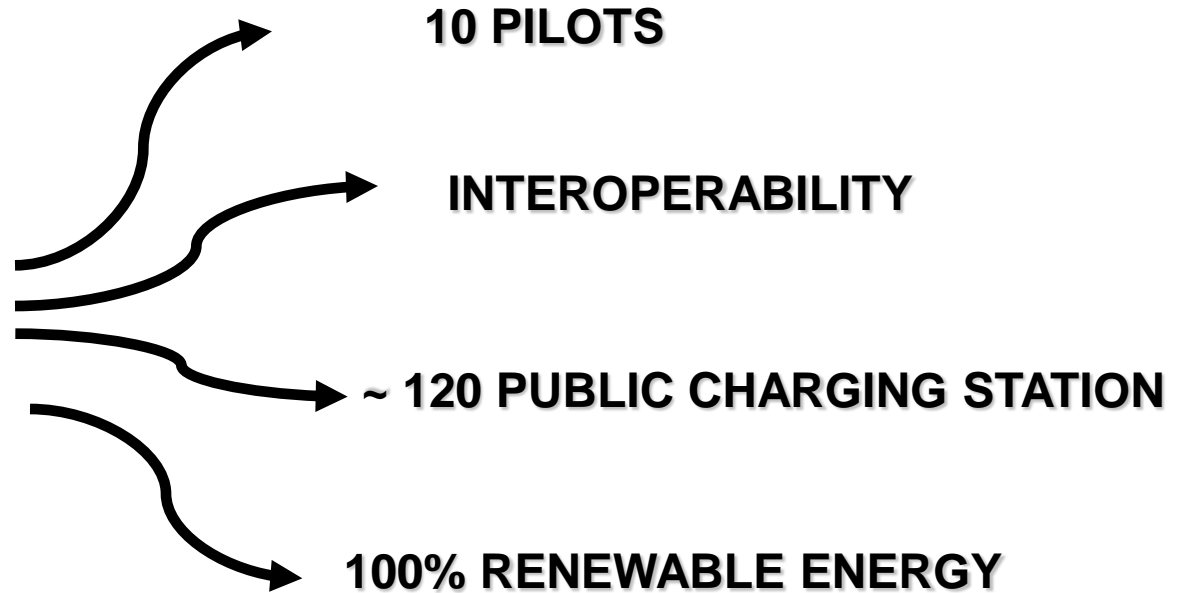
But basically
HOME STATION



AGREEMENTS WITH ELECTRIC PROVIDERS AND MUNICIPALITIES



1962 2012



Agreement with IREN. Coming soon!



RULES HARMONIZATION (LTZ ACCESS AND PARKING PRICING)

Thanks to this agreement, electric vehicles
can today:

- _ circulate within the regional LTZs without
time restrictions (h24);
- _ free parking;
- _ unification of all electronic control
databases managed by the partner towns





ENERGY PROVIDERS AND PILOT-PROJECTS

Started



Waiting to start



PUBLIC CHARGING POINTS NETWORK

Already available



Available soon



LTZ HARMONIZATION

Activated



Waiting for subscri



CITIES > 50.000 INHABITANTS



> 300.000 INHABITANTS



UNTIL 200.000 INHABITANTS



UNTIL 150.000 INHABITANTS

OTHER SYMBOLS

- HIGHWAY
- ROAD NETWORK
- REGIONAL BORDER
- PROVINCES
- WATERWAYS

AGREEMENT WITH ENEL AND MUNICIPALITIES OF BOLOGNA, REGGIO EMILIA, RIMINI

Year 2010



**Electric mobility
plan
implementation**

**Public charging
point**



COMUNE DI BOLOGNA

**Wider metropolitan
context**



COMUNE DI
REGGIO NELL'EMILIA

Goods delivery



Comune di Rimini

Tourism



AGREEMENT WITH HERA AND MUNICIPALITIES OF MODENA, IMOLA

Year 2011



Comune di Modena



Città di Imola

**Electric mobility
plan
implementation**

**Public charging
point**

**Wider metropolitan
context**



AGREEMENT WITH ENEL AND MUNICIPALITIES OF CESENA, FERRARA, FORLI', PIACENZA, RAVENNA

Year 2012

Electric mobility plan
implementation

Public charging
point



Comune di Cesena



Comune di Ferrara



Comune di Forlì



Comune di Piacenza



Comune di Ravenna

**GRID4EU
and Renewable**

**Wider metropolitan context
(University, Fear, Petrolchimico...)**

**Car-sharing
Car-pooling**

**Public/Private Fleets
Goods Delivery**

Ravenna Green Port



CINQUANTA

1962 2012



Agreement with IREN and Municipality of Parma. Coming soon!

CIVITAS INITIATIVE - CIVITA MIMOSA

Alternative fuels for the Local Public Transport

Research and

- study of the

- search of the

- purchase

Results of

Analysis made

Characteristics

Type: Van Hool

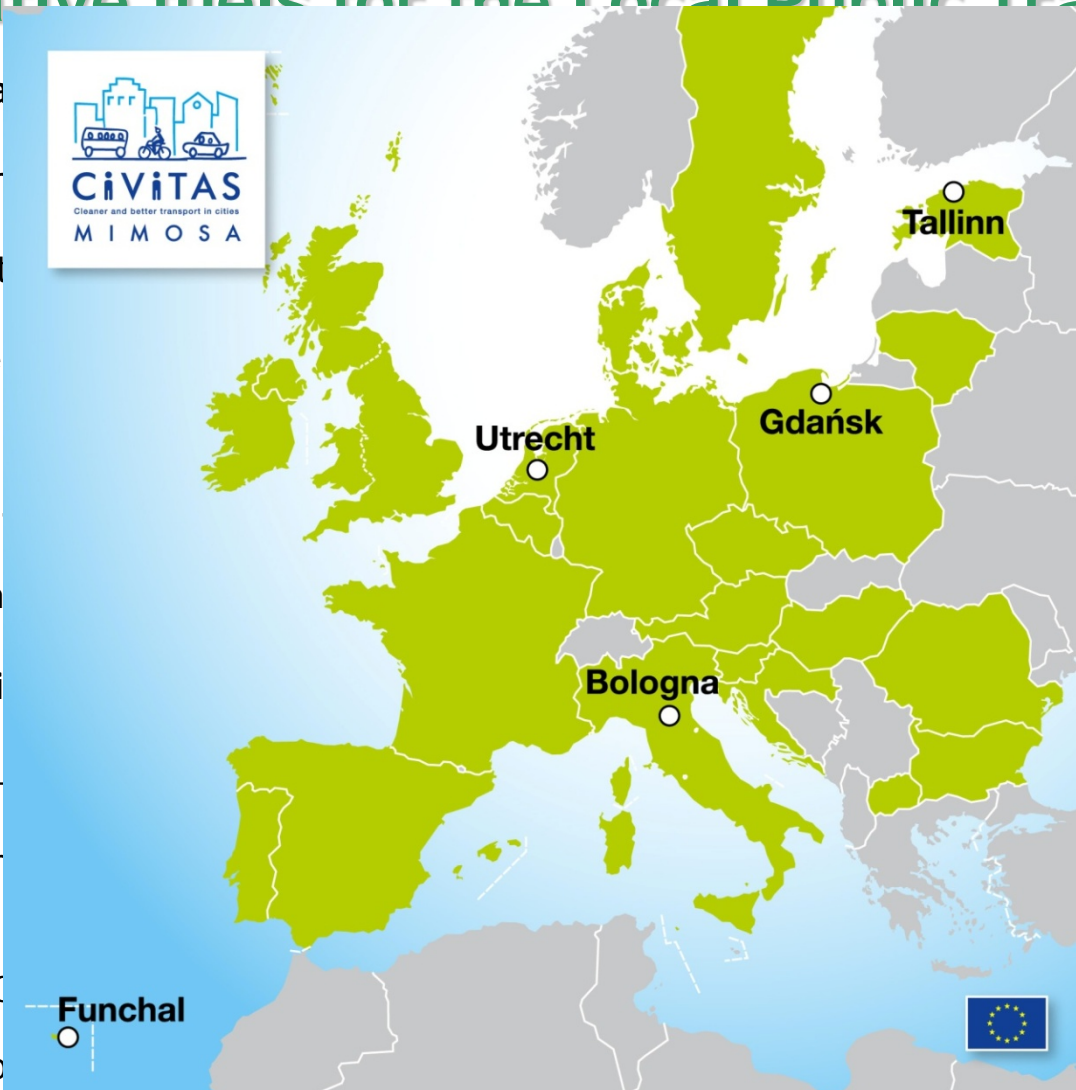
Length 12 m

Width 2,55 m

Cost 300.000 €

Seating capacity

Standing places: 56



the city of Bologna

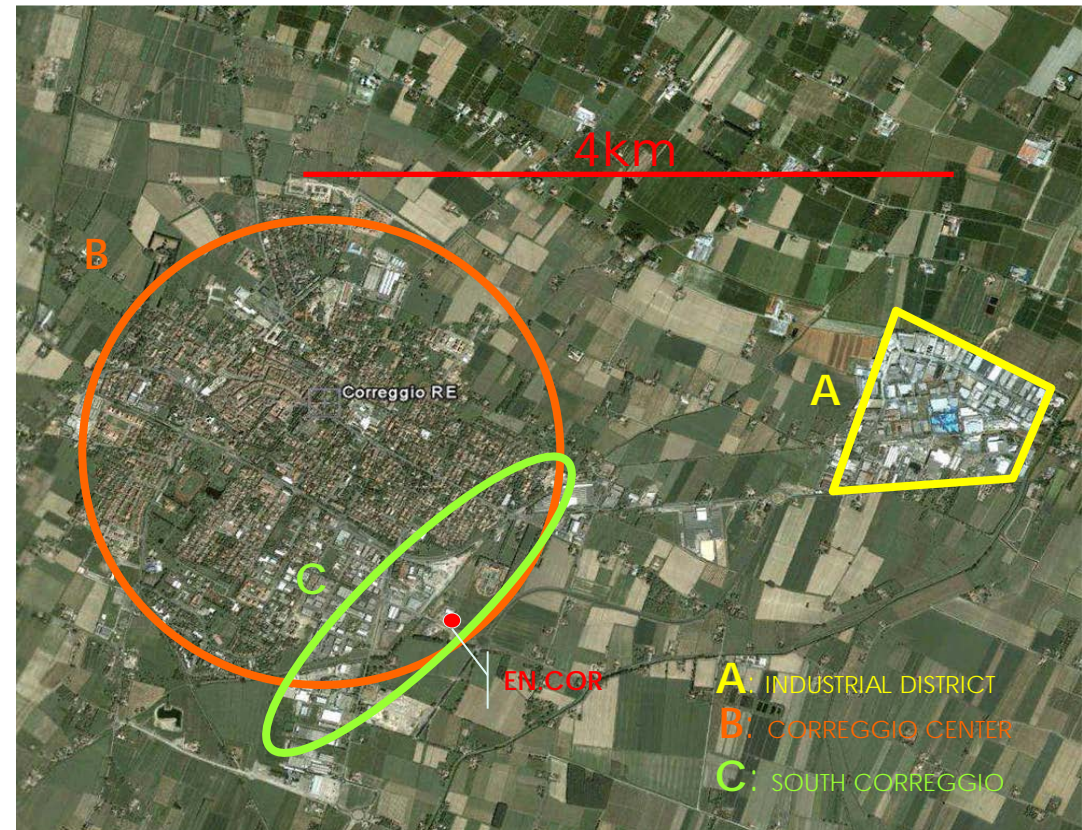


IMOSMID PROJECT - Objectives



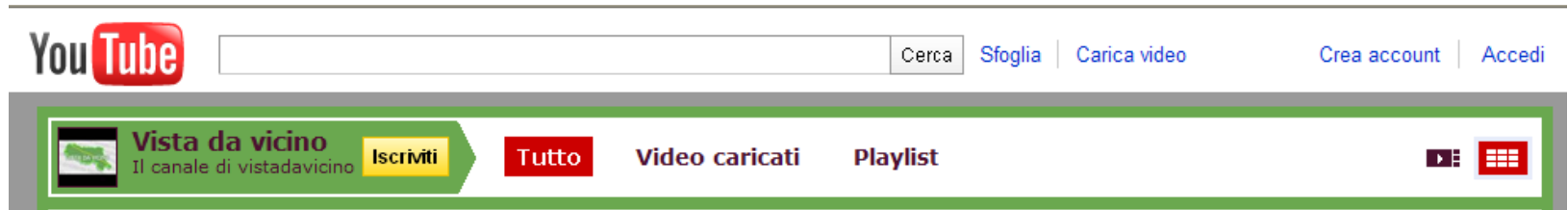
The Project aims

- 1) To identify and define a governance model based on sustainability criteria
- 2) To develop an innovative and integrated approach for the Mobility Management of industrial districts.
- 3) To promote MODE shifting, to face the growing demand for transports, from private to local public transports, and notably to zero emissions vehicles: in order to save energy and reduce at the same time local CO2 emissions.
- 4) To **integrate transport and energy** in a system capable of taking advantage from **renewable energy produced** within the industrial districts of the Municipality of Correggio, to support the local transport policy of sustainability.



25 electric cars – 100% renewable energy – 312.000 km/year

Web-TV COMUNICATION : VISTA DA VICINO



UNA REGIONE ALLA (RI)CARICA

<https://www.youtube.com/watch?v=vzvVVK28-LI>

English version

<https://www.youtube.com/watch?v=gt8J8ee4ME4>

Italian version





Thanks for your attention !



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