

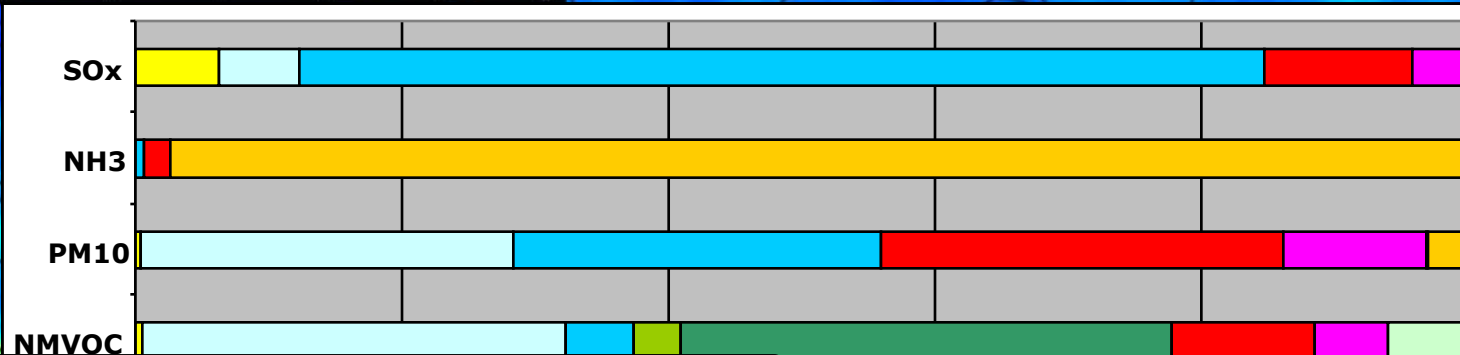
VISIONS AND MEASURES ON ELECTRIC MOBILITY: EMILIA ROMAGNA CASE

Paolo Ferrecchi

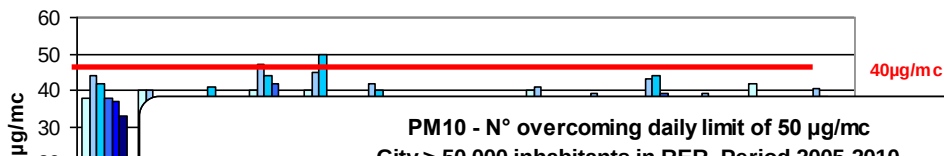
General Director Infrastructural Networks, Logistics
and Mobility Systems, Emilia-Romagna Region

City Logistics: Good Practices, Policies, Actions
Bologna, 13th December 2011

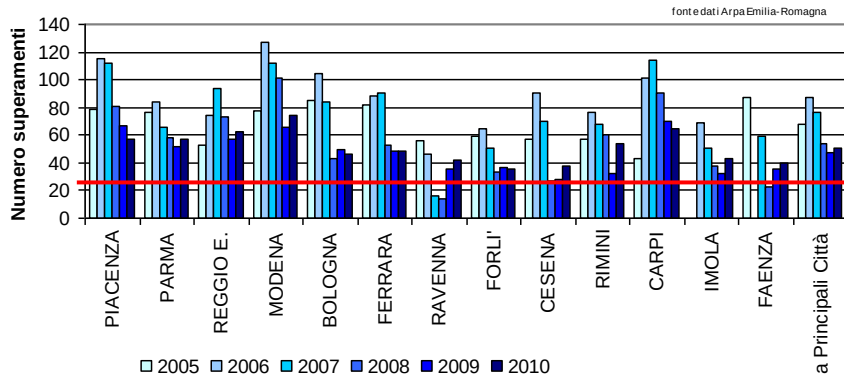
ENVIRONMENTAL PROBLEMS



Annual average PM10 - City > 50.000 inhabitants in RER
Period 2005-2010



PM10 - N° overcoming daily limit of 50 µg/mc
City > 50.000 inhabitants in RER. Period 2005-2010



soglia 35
superamenti

Period 2002-2010:
- 25% PM10
- 50% n. overcoming



INTERDISCIPLINARY APPROACH

**NEW
PRIT 2010-2020**



**PER
Regional Energy
Plan
2011-2013**



**Health plan
2009-2011**



**Environmental Plan
2011-2013**



- Sustainable mobility
- Electric mobility

EUROPEAN PROJECTS FOR SUPPORT THE REGIONAL POLICY

OBJECTIVES



- Analysis, exchange, comparison of city logistics actions
- Improvement of existing policies (including the electric mobility)



- Development of a prototype bus that can use a mixture of methane and hydrogen (15 %)



- Demonstrate the benefits arising from the adoption of sustainable forms of mobility

- Mobility Management Actions



REGIONAL ACTIONS FOR SUSTAINABLE MOBILITY:

- Regional agreements for the Air Quality with Provinces and Municipalities
- Support for the local policies: anti-smog actions; LPT development...
- Programs for the sustainable mobility 2003-2005
DPF, New buses, Cycle network, Sustainable mobility, City Logistics
- Regional funds for Methane/LPG conversion: 10MLN €
- Funds for DPF installation: 5MLN €
- Mi Nuovo Elettrico (Electric Mobility)
- Bike sharing, Car sharing
- Incentives for rail transport LR15/09
- New rail yards

since
2002

68 MLN €

30.000 vehicles
converted
(forecast)

678DPF
BUS
2008



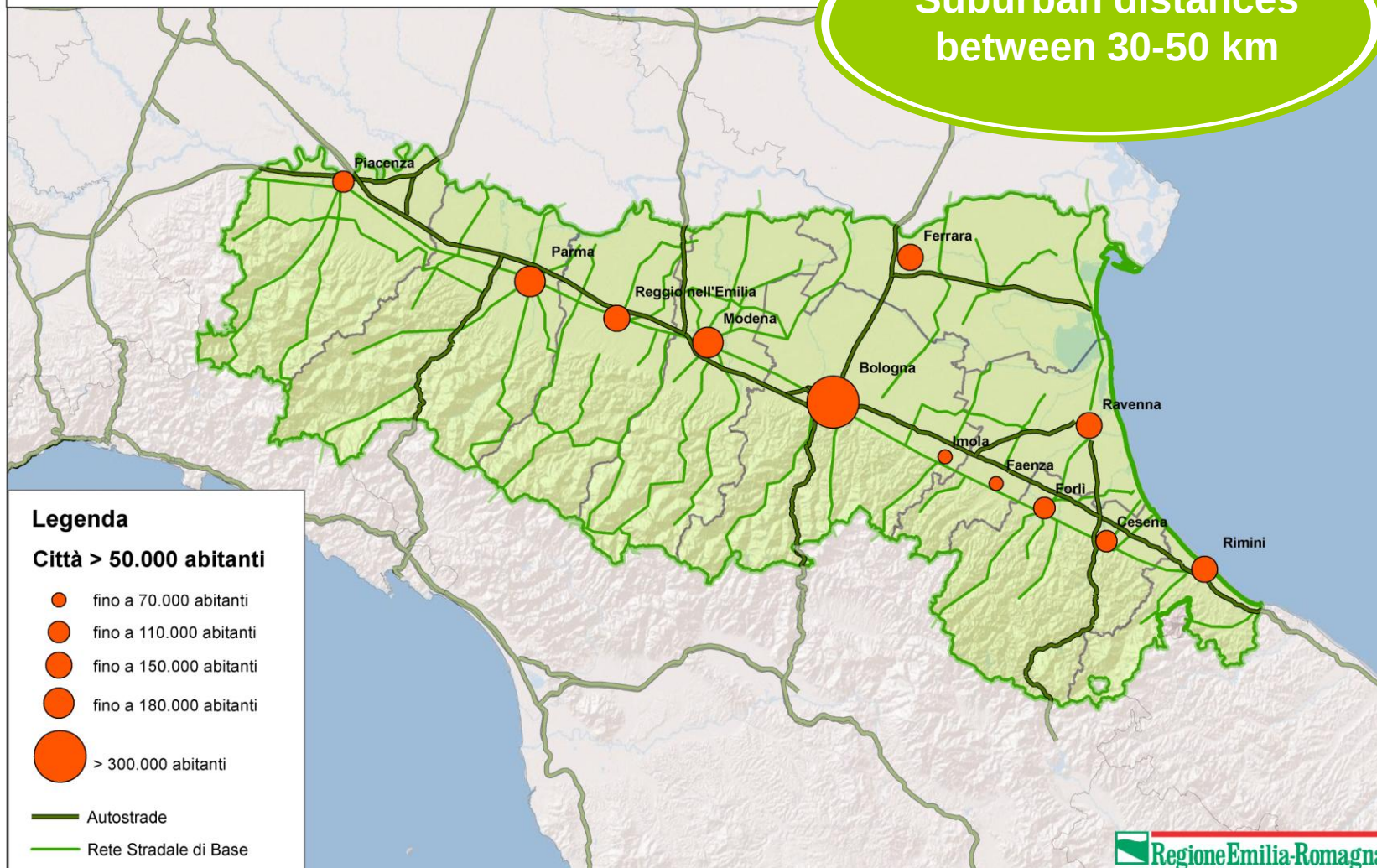
Intermodal
transport

9 MLN €
2010-2012

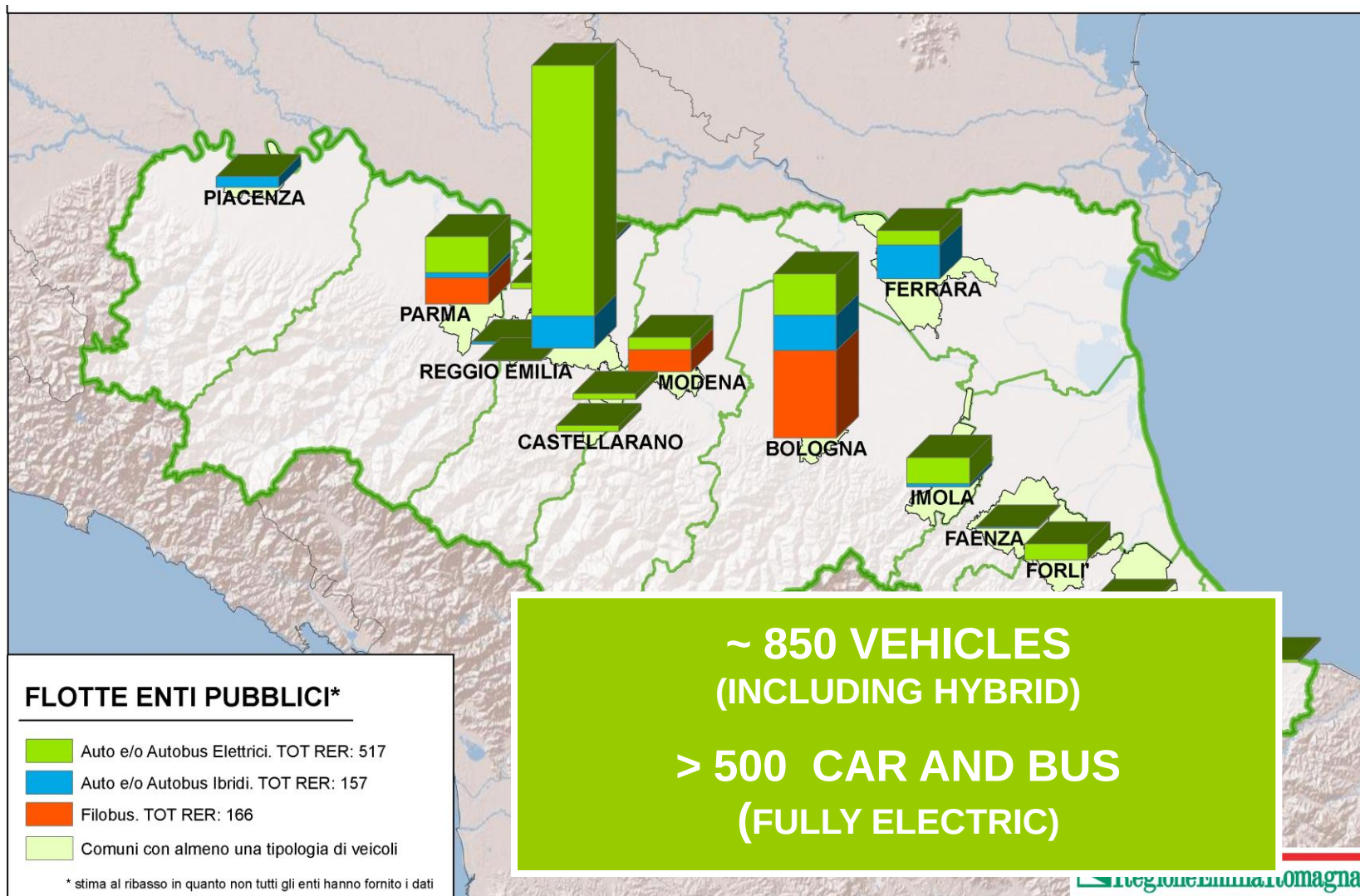
TERRITORIAL FRAMEWORK

Primary roads and municipalities >50.000 inhabitants

Suburban distances
between 30-50 km

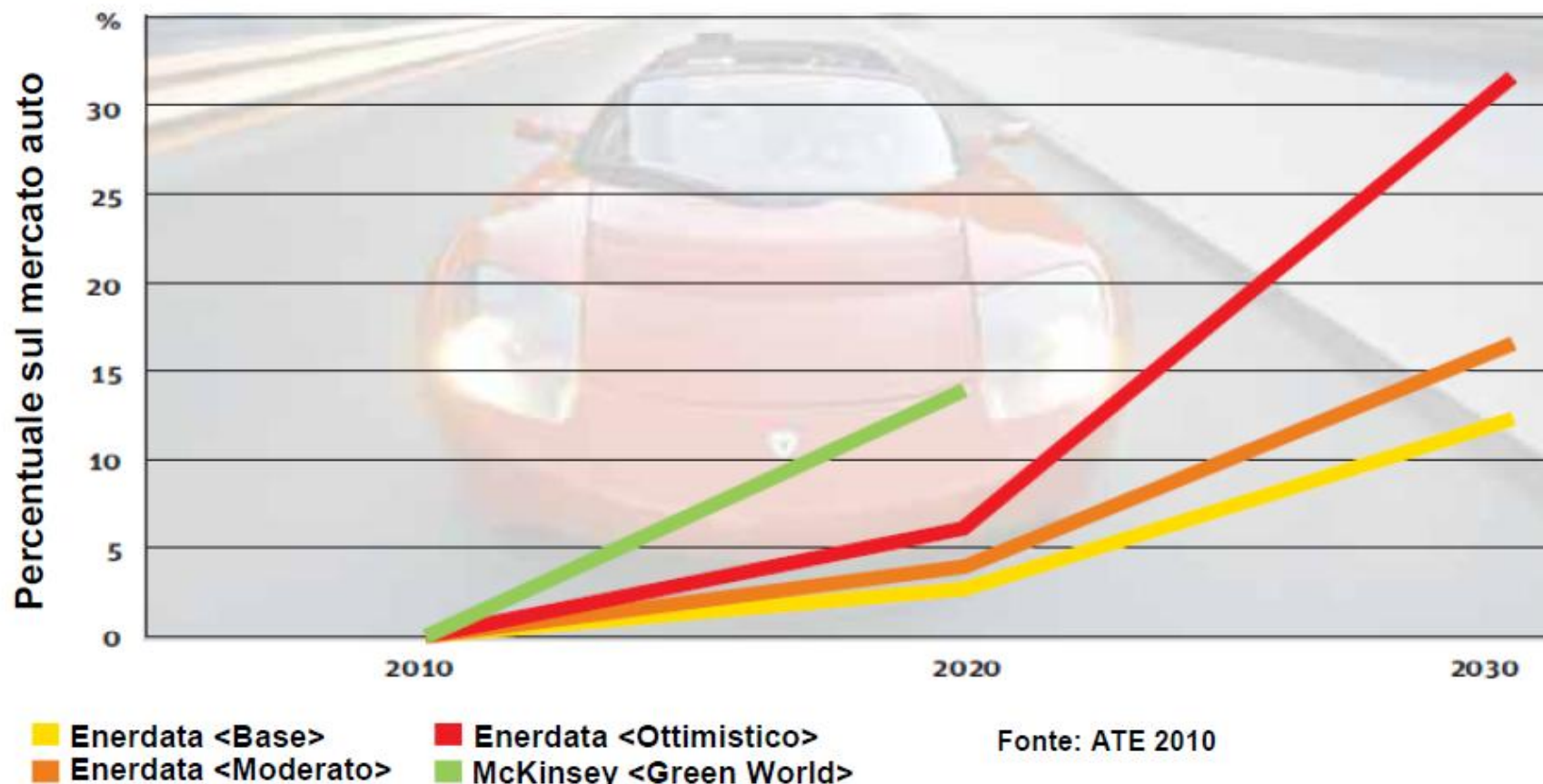


FLEET OF ELECTRIC VEHICLES IN PUBLIC ADMINISTRATION



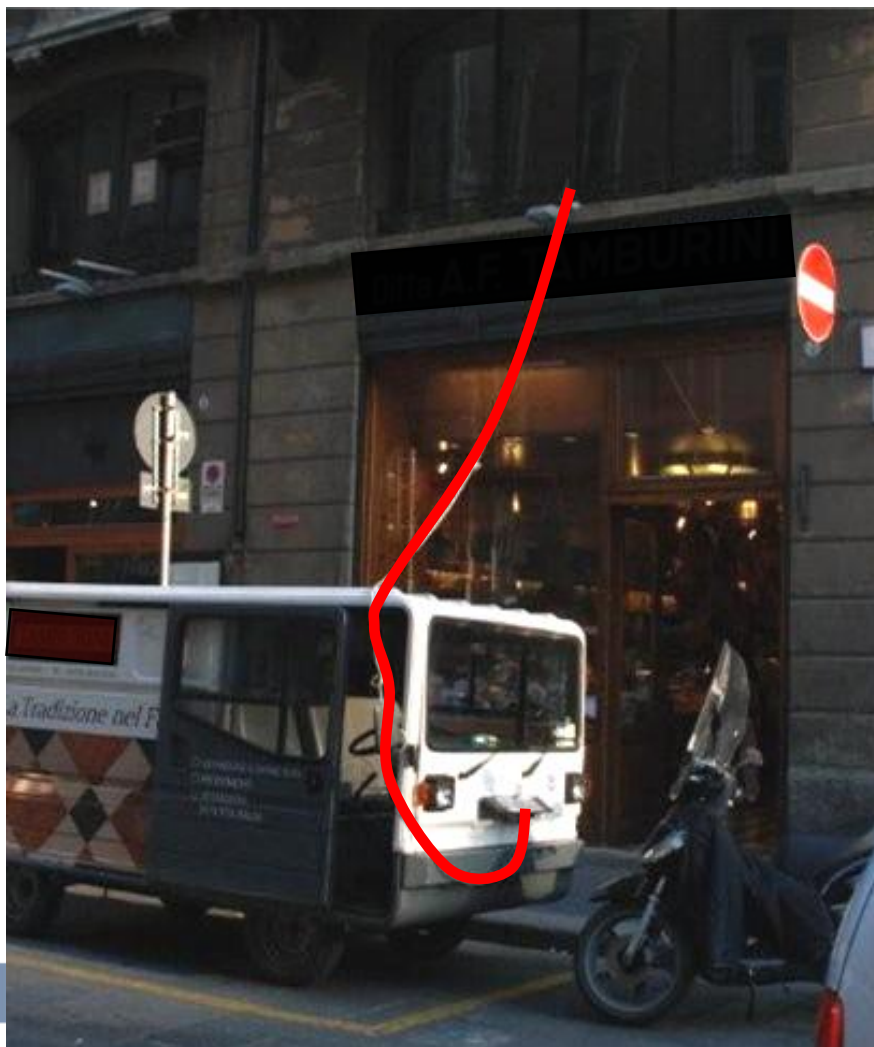
FORECAST OF DEVELOPMENT FOR ELECTRIC VEHICLES

Previsioni andamento mercato auto elettriche ed ibride in Europa

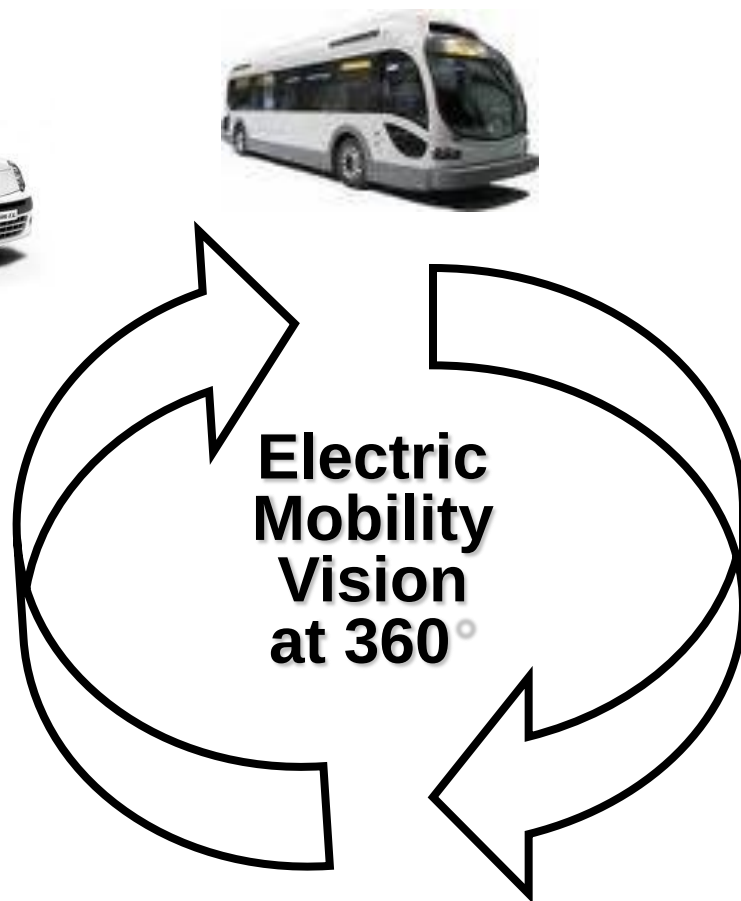


THE NEED OF A CHARGING INFRASTRUCTURE

SOME FLASH AROUND THE CITY...



THE APPROACH



ELECTRIC MOBILITY REGIONAL PLAN



MI MUOVO SYSTEM



AGREEMENTS WITH ELECTRIC PROVIDERS AND MUNICIPALITIES



L'ENERGIA CHE TI ASCOLTA.



5 PILOTS

INTEROPERABILITY

~ 100 PUBLIC CHARGING STATION

ENEL 50% RENEWABLE ENERGY

HERA 100% RENEWABLE ENERGY

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



**Electric mobility plan
implementation**



Wider metropolitan context

Public charging point



Goods delivery

**Electric vehicle's
introduction**



Tourism



AGREEMENT WITH HERA AND MUNICIPALITIES OF MODENA, IMOLA



Comune di Modena



Città di Imola

Electric mobility plan
implementation

Public charging point

Wider metropolitan context



Agreement with IREN and Municipality of Parma. Coming soon!

FOR EACH PARKING WE NEED A CHARGING POINT?



Better Place Project - Israel

TARGET:

- fleets
- citizens

FINALITY

- emergency charging
- charging for long stop
- guarantee recharging

LOCALIZATION:

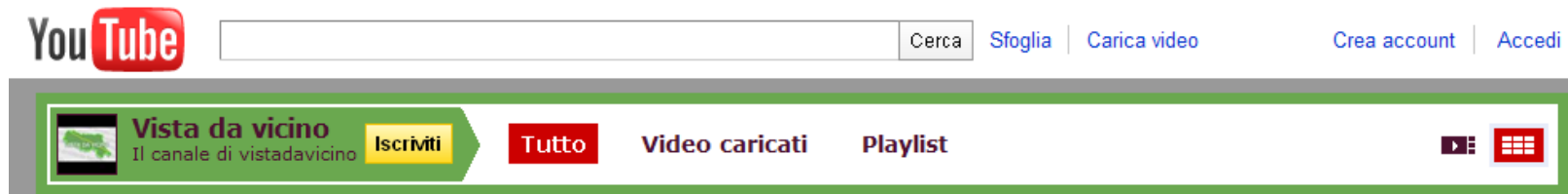
- frequently used area
- interchange parking
 - city centre
 - workplace

But basically

HOME STATION



VISTA DA VICINO: ON-LINE COMMUNICATION



UNA REGIONE ALLA (RI)CARICA

http://www.youtube.com/watch?v=azAmY3bbctw&feature=player_detailpage

Thanks for your attention !

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