



Electric Mobility Plan for Rome

Andrea Pasotto

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AGENZIA ROMA SERVIZI PER LA MOBILITÀ

mobilità
ROMA



Strategic lines

The European Directive 2014/94/EU, declares that the States have to improve the public charging point network in order to guarantee the access to an adequate number of vehicles until 2020.

In Italy the law 134/2012 and the «National Plan for the Charging Point Network of the electric vehicles» (PNIRE) defines the development strategic lines.

The Electric mobility plan for Rome is planned according to this strategic lines and to Urban Traffic Plan of the city.

The plan defines a charging point need in the public areas. It supports the private investments in the sector, defining its rules.

The plan includes a technical and administrative regulation that schedule:

- How to submit applications
- The technical specifications of charging points
- Road signs of the parking area

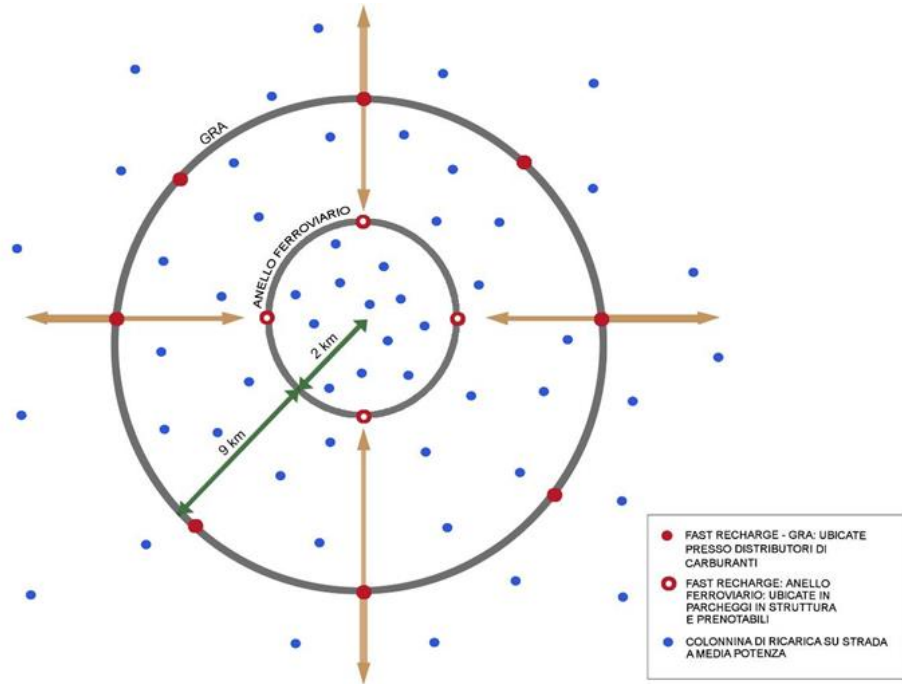
The structure of the plan is based on:

- A high speed charging point network (50 kW) along the main roads
- A set of medium power charging points (22 kW). The planning of this points is based on the traffic flow

It is also included an action plan to support the private investments in:

- Fuel distributors
- Parking lots and garages
- Private buildings

The high power network



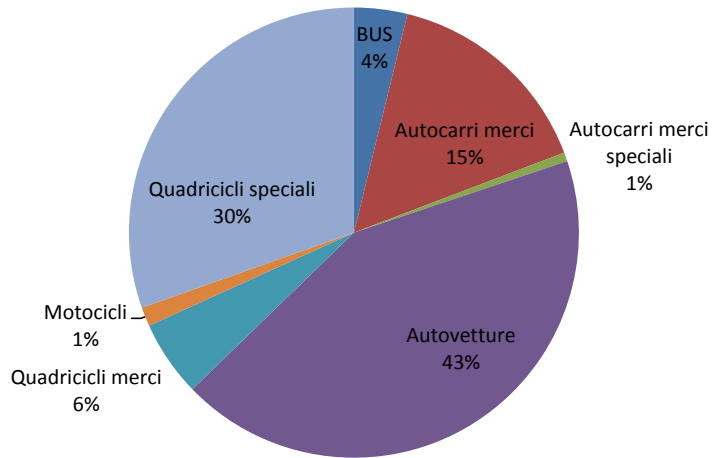
The high speed charging network will be realized in two rings:

- **GRA** (Outer highway ring) to intercept the traffic flow to the center of the town and the main tangenzial flows
- **Aurelian walls** (Inner ring), with a network for the inner traffic flows of the city

The distance between the two rings is about 9 km

Circulating vehicles

Veicoli elettrici circolanti nel territorio della città Metropolitana anno 2016



	Roma		altri comuni		Totale Città metropolitana	
	numero	%	numero	%	numero	%
BUS	83	4,5%	1	0,3%	84	3,8%
Autocarri merci	270	14,8%	68	18,3%	338	15,4%
Autocarri merci speciali	13	0,7%	1	0,3%	14	0,6%
Autovetture	728	39,9%	214	57,7%	942	42,9%
Quadricicli merci	117	6,4%	3	0,8%	120	5,5%
Motocicli	22	1,2%	8	2,2%	30	1,4%
Quadricicli speciali	592	32,4%	76	20,5%	668	30,4%
TOTALE	1825	100,0%	371	100,0%	2196	100,0%

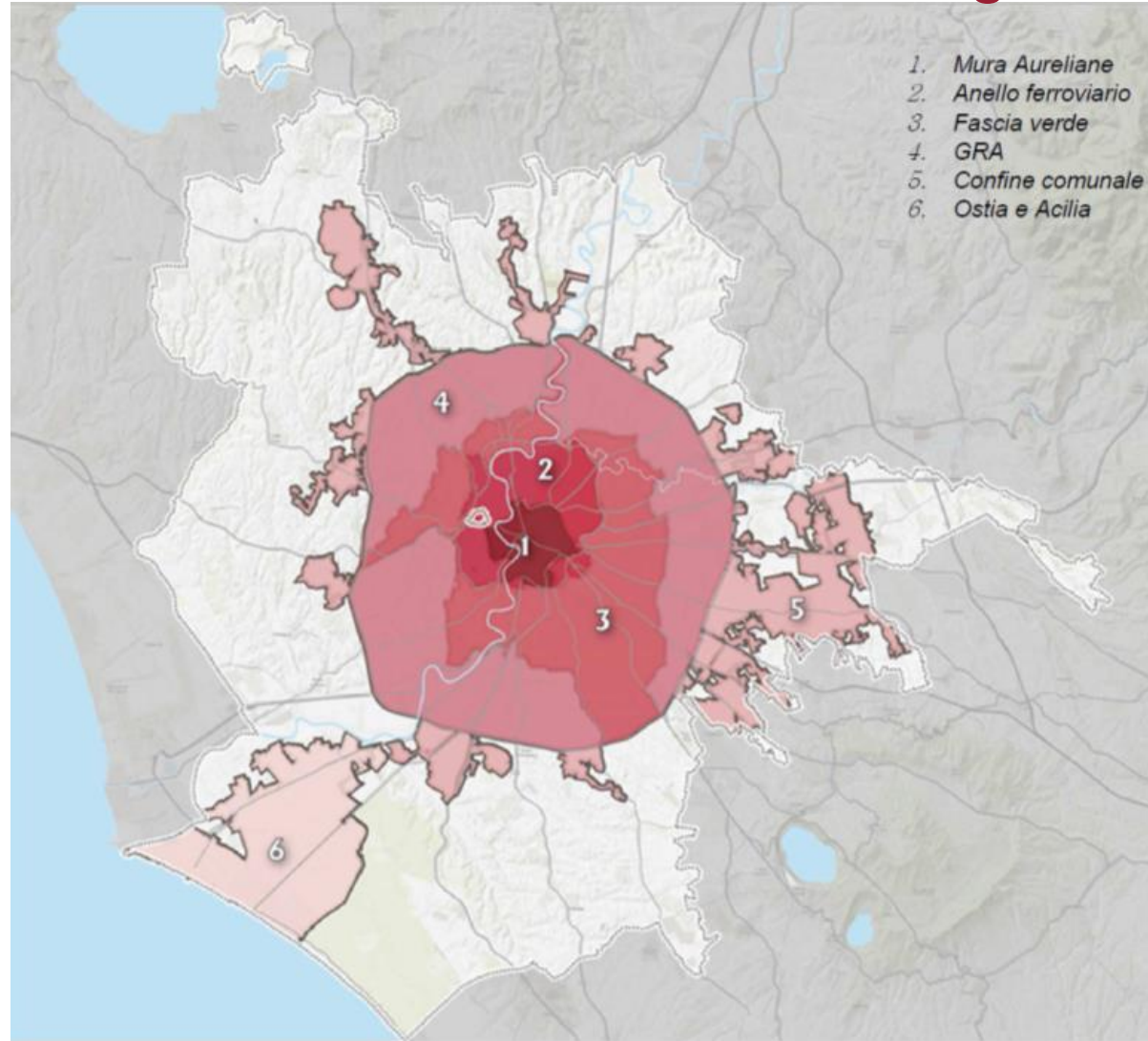
Estimated charging point

- EV sold in 2017 is + 20% compared to 2016 sales
- EV sold in 2020 will be a market share of 2% (National plan evaluation)
- The need for charging points in 2020 will be 10% of the number of the circulating vehicles (PNIRE surveys)
- The estimate need is 700 charging points for the metropolitan area
- The mobility in the metropolitan area is strongly related to the city of Rome

		2016	2017	2018	2019	2020
v.e. venduti	Roma	446	535	1.203	1.872	2.540
	Città Metropolitana	557	668	2.046	3.423	4.800
vendite totali	Roma	127.000	127.000	127.000	127.000	127.000
	Città Metropolitana	240.000	240.000	240.000	240.000	240.000
Parco circolante	Roma	1.825	2.360	3.564	5.435	7.975
	Città Metropolitana	2.196	2.864	4.910	8.333	13.133
% v.e. su totale venduto	Roma	0,35%	0,42%	0,95%	1,47%	2,00%
	Città Metropolitana	0,23%	0,28%	0,85%	1,43%	2,00%

 Dati ACI

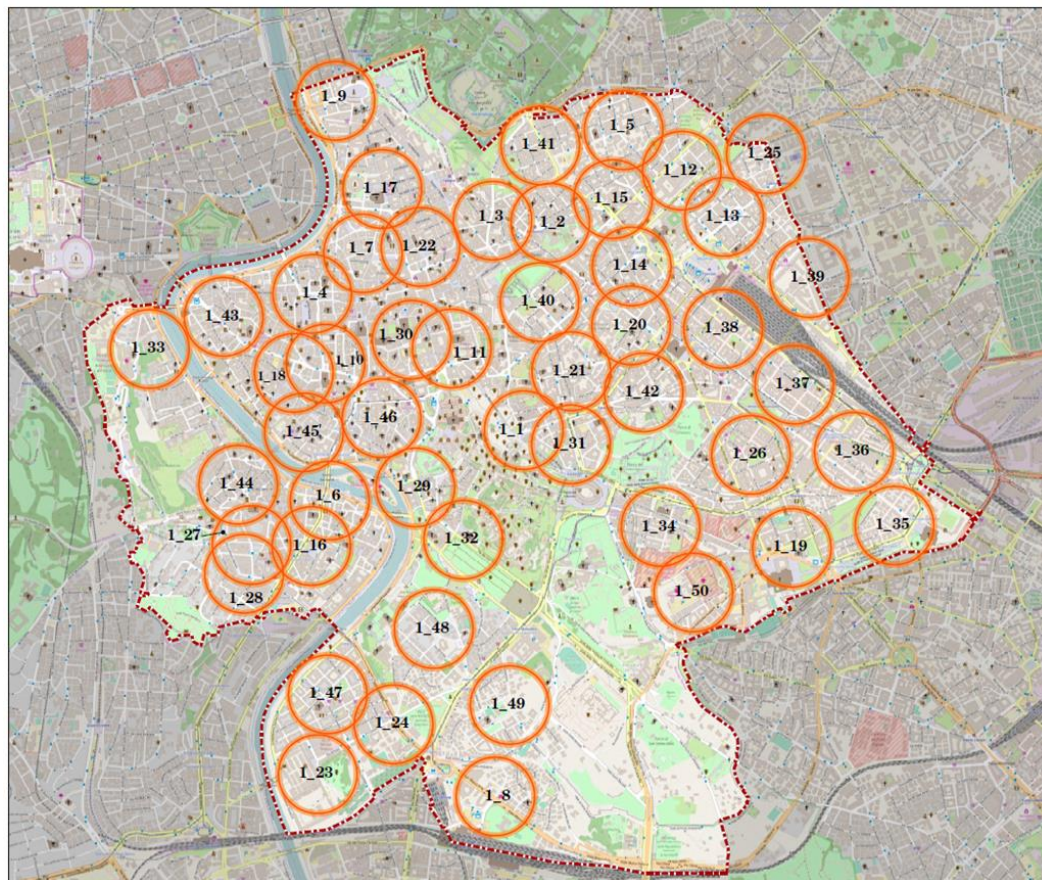
PGTU zoning



Plan socio demographic indicators

Fascia PGTU		Sup. Totale (kmq)	Sup. area urban. (Kmq)	Pop. (ab)	Densità popolazione (ab/kmq urbanizz.)	Addetti 2016	Densità addetti (addetti/sup. urbaniz.)	Indicatori piano 2020	
								Colonnine	Ambiti
								1	2
Mura Aureliane	1	14,3	7	107.247	15.321	198.309	28330	112	50
Anello ferroviario	2	33,7	15	346.215	23.081	259.928	17329	147	76
Fascia Verde	3	109,4	40	823.882	20.597	267.285	6682	151	79
GRA	4	186,8	78	805.892	10.332	287.950	3692	163	68
Confine comunale	5	850,7	121	634.446	5.243	188.369	1557	107	34
Ostia e Acilia	6	88,8	29	273.879	9.444	36.223	1249	20	15
TOTALE		1283,7	290	2.991.561	10.316	1.238.064	4269	700	322

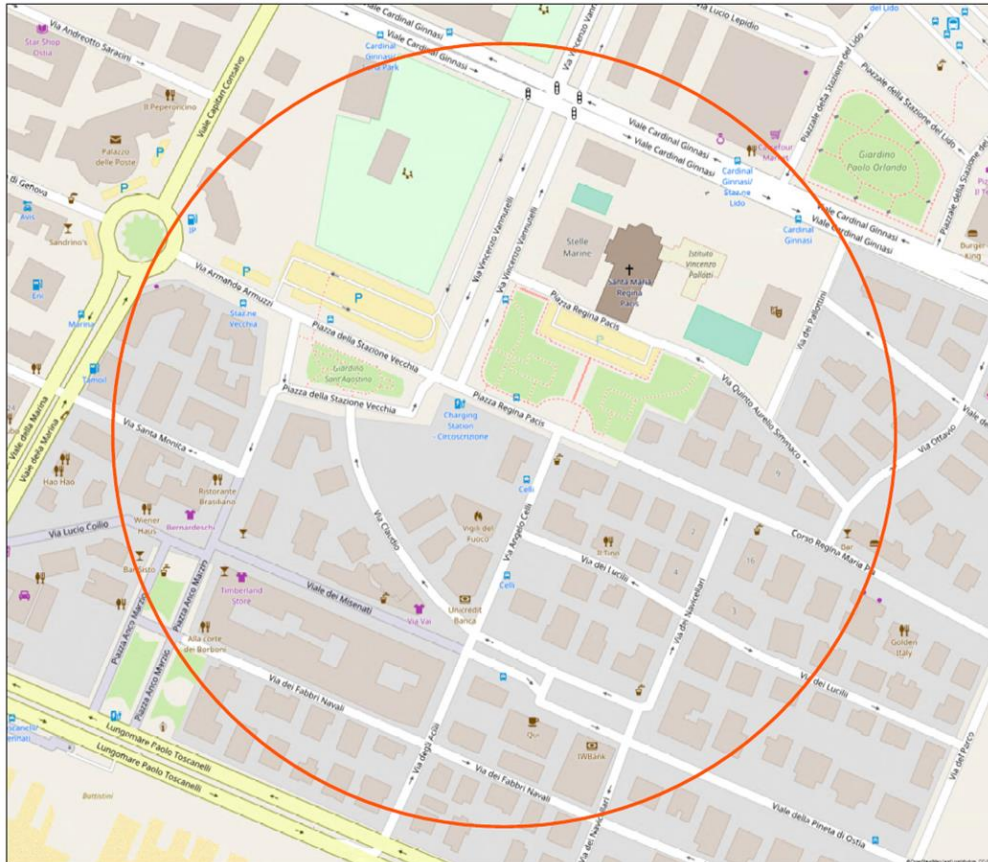
Area 1



Legenda
Key map
ZONA 1 PGTU - MURA AURELIANE

-  limite Zona Pgtu
-  Ambito di Piano

A tipologic area



Legenda

ZONA 6 PGTU - città verso il mare

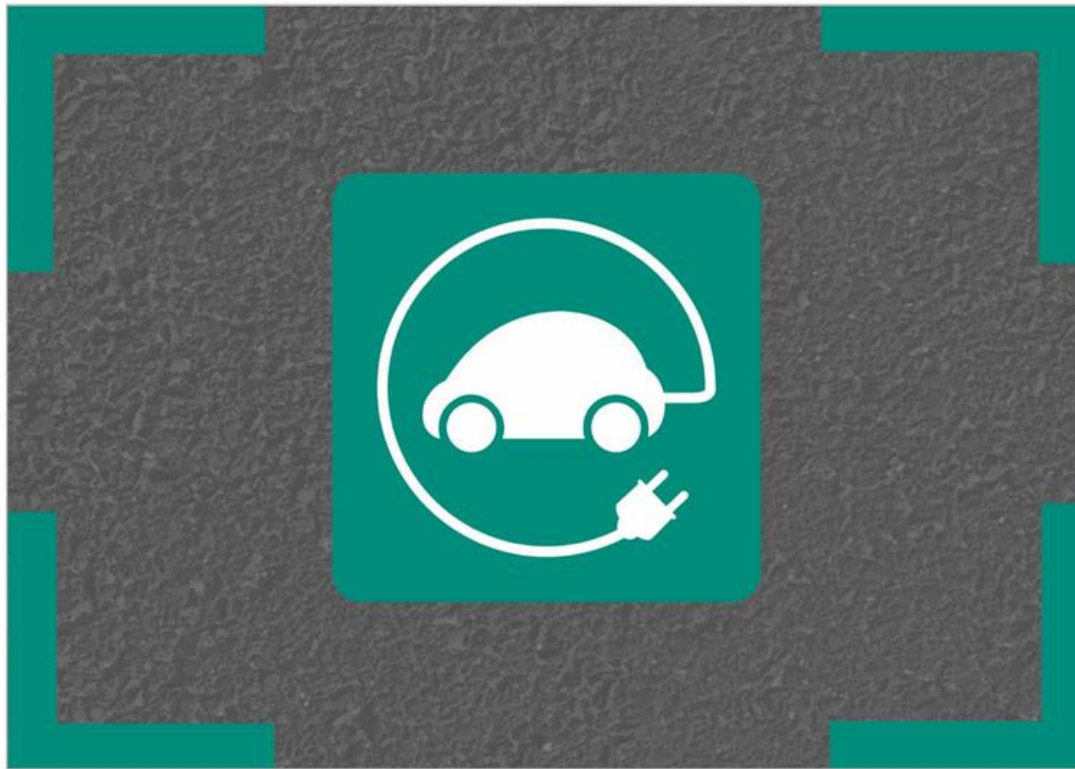
○ Ambito di Piano - N. 6_2



The regulation: other indicators

- Procedure for requesting authorization
- Technical requirements of charging station
- Penalty and controls by municipality
- Road signs of the parking areas
- Management and information duty to the municipality

Example of horizontal road signs





Thank you for your attention

andrea.pasotto@agenziamobilita.roma.it

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