# OPTIMAL LOCALIZATION OF CHARGE STATIONS IN AN URBAN AREA

**Innovations and Benefits -** The study aims at the optimal localization of charging infrastructures and uses different optimization approaches depending on the definition of the problem.

The innovative aspect is linked to the massive use of a large amount of data (Big Data) relative to real mobility (so-called Floating Car Data) that allows studying a representative situation of the mobility in a given area on a significant sample of users.

**Use -** Optimal planning of the relocation of the charge structures for public or private subjects.
The localization model has been tested on a database with more than 150 million records.

**Applications and ongoing Activities -**

• Studies on the location of charging stations in the urban area of Rome financed by the MiSE;
• Collaboration with the Rome Mobility Agency for the verification and optimization of the recharge structures planning;
• Development of systems with business models integration
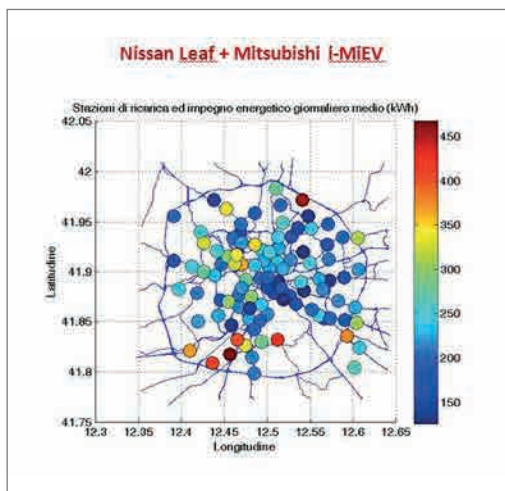


Localization of large charging infrastructures in the urban area of Rome



Study of the load required for rapid recharge infrastructures in an urban area of Rome

**Characteristics:**
CUSTOM: the service can be adapted to different needs, although the quality and reliability of the results depends crucially on the quality and quantity of the data available.