Smart Parking Management

SOLUTION
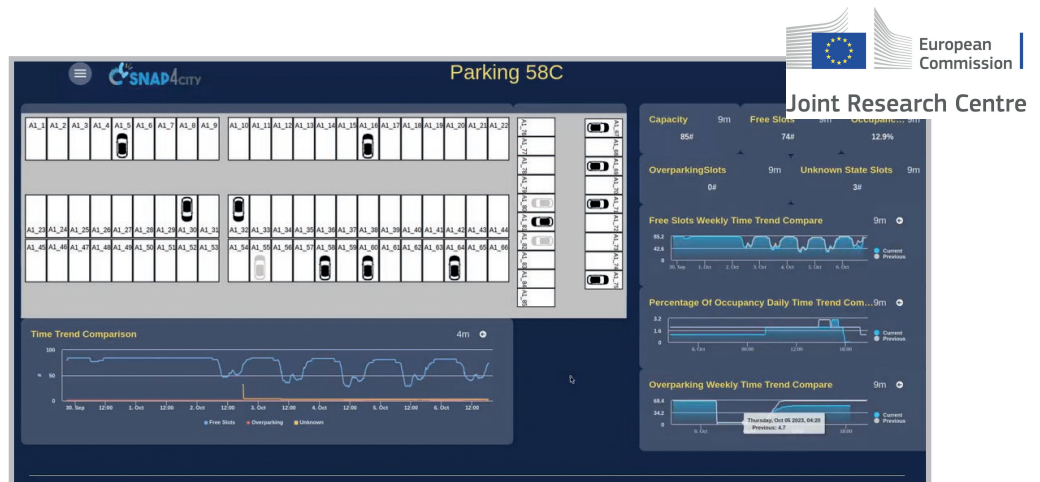
The smart parking solution of Snap4City can significatively contribute to the operation management and sustainability of municipalities to serve citizens (residents and visitors) and to more efficiently manage the optimal use of resources in combination with the collected and analyzed data. The main goals are the reduction of emissions informing the drivers of the free places in clear manner, and with predictive capabilities, supporting parking solution off-roads and on the roads, supporting a large range of modalities of payments and business models which can be differentiated by area and municipalities, and that supports the possibility of taking into account the special needs of disables, city operators, residential, commercial operators, etc.
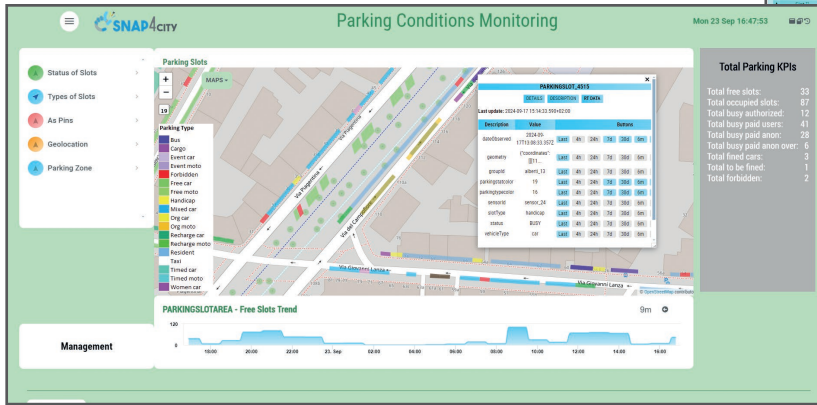
The solution is mainly based on a Smart Parking Manager which is Snap4City Solution based on a number of views/dashboards for the different municipalities and operators. The Smart Parking Manager allows at the operators to keep under control the status of the: parking sensors, off-road parking facilities, payment solutions for the final users, registers users and their profiles and wallets, parking areas and their payment profiles, parking business models and profiles, etc.

From the field, the Smart Parking Manager receives and/or collects notifications from: parking sensors on the roads (a range of them can be used, for instance based on Lora, NBIOT), in/out events from off-road parking, Snap4City mobile App ("in a Snap" series) for registered users which can use the wallet to pay, parking paying pole on road and at the entrance of the off-road parking, etc. Other solutions are available as well, such as the automated authorization via car plate recognition, the usage of transponders for the authorization at the entrance on off-road parking or areas, the recognition of some Bluetooth code for automated registration, etc. The combinations of the above-mentioned payments / authentication systems with the user profiling and business models allows to set up a large range of solutions which satisfy all the needs of cities and parking operators, and in most cases they can be active on the same platform.
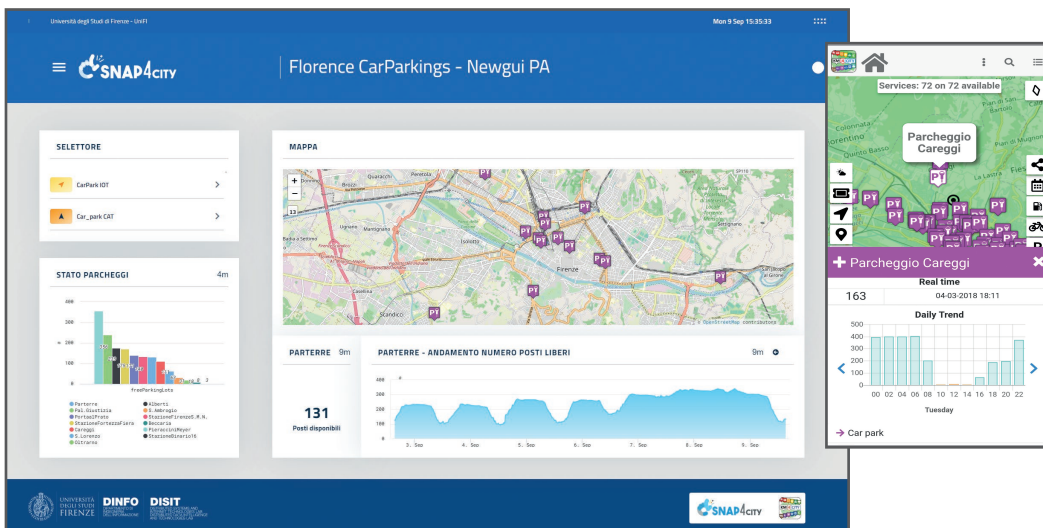
The mobile Apps of "in a Snap" series provide services for the drivers which are looking for parking, providing the information about the best parking in their preferred area, informing of the rates, and accounting them only the effective number of minutes they stay (if the business models has been selected), receiving notifications some minutes before the planned parking time expired (depending on the paying model and business model). Other business models based on time slots and minimum parking time can be viable as well.

A specific version of the mobile App "in a Snap" is provided to the municipality operators which can easily identify the areas, the number of infractions for unpermitted parking and overparking. The mobile app also supports them in producing the fines. They can take the eventual picture, and when needed print the official fine to leave it on the "car-glass". At the same time the operators in the central station can monitor the activities and even the position of the on-road operators, eventually provide suggestions/messages.

Extended version accessible from: https://www.snap4city.org/1013
Parking predictions: https://www.snap4city.org/802
Parking management: https://www.snap4city.org/970
Contact: https://www.snap4city.org

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