PARKUNLOAD

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Only wats, trucks and light commencial vehicles

Morking days Manday to Saturday from 8:00h to 20:00h

Ione code: STO-001

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erking time regulated with PARKUNLOAD mobile app

smart regulation and control of loading and unloading parking areas



STO-001 158 Rue de Rivoli, 75001 Paris

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Challenges in urban freight distribution parking areas (last mile)



As a result, cities have a real lack of real data and face difficulties to feasibly restrict urban freight traffic during pollution episodes, while other cities fight against parking indiscipline and/or a suffer higher parking pressure due to e-commerce effect (Amazon...).

Now, the city can define and enforce advanced and fully digitalized **flexible urban mobility policies** for restricted parking areas, due to an innovative and scalable IoT platform, based on smart parking road signs and mobile applications.

* Urban freight ranks as 10%-15% of city traffic and it is responsible for 25% of urban transport-related CO2 emissions and 30 to 50% of other transport-related pollutants (*ERTRAC Urban Mobility 2014*).



LADEZONE

Nur zum

Be- und Entladen

PARKUNLOAD® Platform



Smart parking road sign for a loading parking area





Principle of operation







IoT platform

PARKUNLOAD® is an innovative, scalable and disruptive **IoT platform** to control and flexibly regulate **restricted parking zones to perform loading and unloading operations in urban areas** of multiple cities **using smart traffic signs and mobile applications** for both drivers and parking enforcement agents.



Smart parking road signs

Extremely quick, energy-saver and precise method to identify and locate urban freight parking zones. Mobile app for drivers

ert

To easily register their parking operations and gather occupancy information (free parking slots).



To efficiently control the status of the vehicles in the urban freight parking zones of the city.



Web-based BackOffice

To set-up the platform, define particular parking permit and timelimit per zone and consult statistics.



PARKUNLOAD® App for drivers



Splash and register



Application launching process



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Mobile phone register

The user simply indicates the mobile phone number and receives an SMS validation code to get registered.





Registration of the vehicle



			- 11	
Repeat vehicle	plate		- 11	
Type of vehicle		`	_	
Vehicle with spa	anish plate?			
Vehicle emissio	ns			
Without	C	0		
Reduced mobili	ity (PMR)			
Vehicle use				
Professional	Pers	onal		
Professional sec	ctor	```	-	
Registe	er new vehic	le		

Vehicle's regulatory data

Additionally, PARKUNLOAD requires regulatory data such as vehicle type, (heavy, light), vehicle emissions, vehicle use (professional, private, PRM), etc.

The cities may use vehicle's data to define flexible parking permits and the maximum parking time allowed.



Vehicle's data

The driver indicates the main vehicle's properties: plate, brand, model and a real picture.



Navigation menu





Sliding panel sidebar

The driver navigates through the main application features by using a side navigation menu.





Parking permit and max. time



Get close to your parking area traffic sign

Searching parking areas...



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Parking area



Regulation schedule From 8:00 to 20:00 Max. parking time 30 min 1 Start parking Search area in map

Parking regulatory conditions

The app displays the specific parking conditions of the vehicle in the current zone based on its location, schedule, vehicle's features and vehicle's use.

Start parking time

If the vehicle has the parking permit, the driver may start the parking time, for as long as the maximum time communicated.



Traffic sign detection

The app automatically and precisely detects the current parking zone of the user.



Parking time events











Parking tickets





The app displays all the user's parking tickets grouped by date.



•••• Carrier 😤 1:20 PM * 100% 💼 Û ← Parking ticket Vehicle Mercedes Vito Brand and model 5876HSB Vehicle plate Van Vehicle type C Emissions Professional Vehicle use Installation and maintenance Prof. sector

•

Parking area

Area code City Address **Regulation schedule**

Parking time

Parking start 25/07/2017 15:30 Parking end 25/07/2017 15:55 25/07/2017 16:00 Parking limit Max. parking time 30 min **Parking duration** 17min 42 sec

Parking ticket

...........

STO-001

Stockholm

8 Rue de Rivoli

8:00 to 20:00

The user can visualize, export and share with other apps (e-mail, etc.) PDF format parking tickets.





Estimated parking occupancy



Parking availability

Parking occupancy list

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The driver can gather detailed parking occupancy information of the closer parking zones, indicating the number of free slots or the best time to be released the next parking slot.





Parking occupancy map

The app also displays urban freight parking occupancy information on a map, based on the geolocation of the driver,





Notifications



Press home to unlock

Parking event notifications

The app raises notifications based on parking events: 5' to finish, already finished, time exceeded, etc.



PARKUNLOAD® Benefits of the IoT platfaorm



Benefits for drivers





Benefits for parking enforcement agents







City Benefits







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