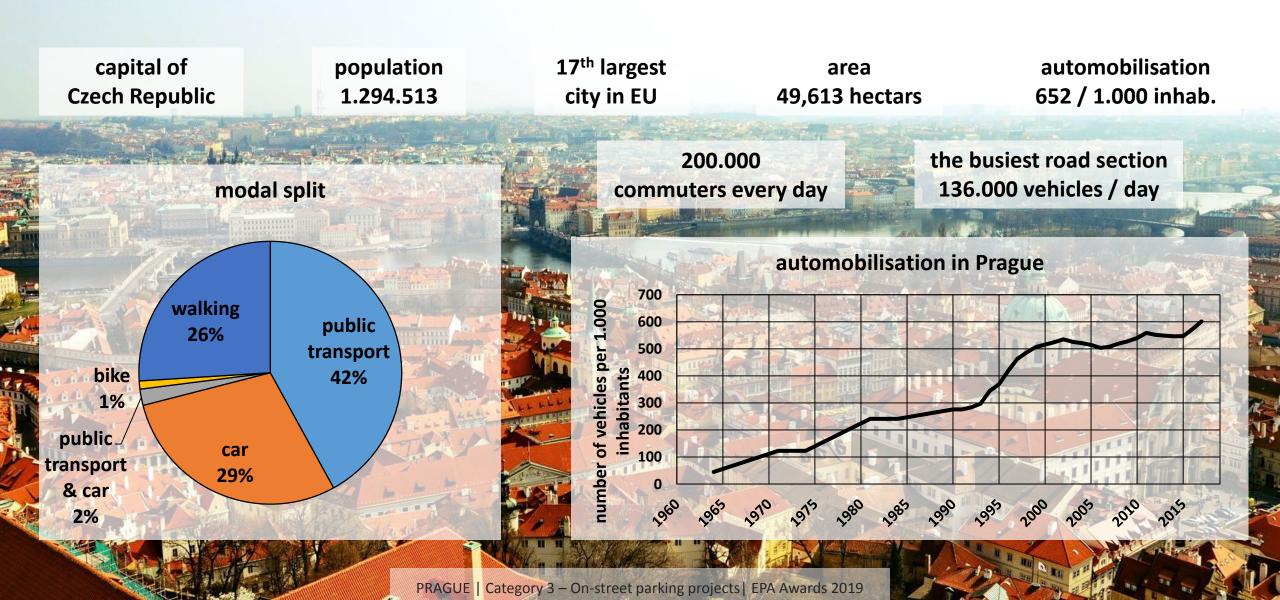


SUCCESSFULL IMPLEMENTATION OF SMART TECHNOLOGIES INTO ON-STREET PARKING REGULATION, USE AND ENFORCEMENT



## **PRAGUE - QUICK CITY OVERVIEW**



## PARKING REGULATION TIMELINE

2014 1979 1997 2018 1996 2008 2016 first parking after the expansion & new national new concept in regulation Velvet expansion new concept new concept legislation full operation policy Revolution first use Very different from New operator, basis of Parking policy The regulation Political desicion to First use of the new Old contracts to today setting. Parking the zoning system adjustments - parking expands to three new full scale upgrade of concept in the newly operate parking cards for locals, Prague has today. fees are profit of the city districts. the technological & joined city districts. regulation in 4 city City and operator is guarded parking lots Parking fees are profit municipality, thanks districts expire. New processional for visitors with staff of the private to new national law. background of ondebugging the fresh operator takes over and establishes the charging them. street parking system. operator. Only the historic city Since this year, the regulation system in new concept. All center regulated. regulation is called the city. parking regulation The Paid Parking operated by one city PRAGUE | Category 3 - On-street parking projects | EPA Awards 2019 Zones. company.



## WHAT IS NEW IN PARKING REGULATION IN PRAGUE?

#### **ENFORCEMENT**

- city owned centralised IT system (CIS – Central Information System) that collects all sorts of data required for operation of the regulation
- camera monitoring vehicles - third party vehicles monitoring streets with camera cars
- upgraded enforcement and penalisation process

#### **USER-FRIENDLINESS**

- online parking permit renewal (new permits are still issued at the distribution points due to legal requirements)
- new payment application
- end of paper parking cards and parking meter tickets
- new parking meters

## NEW TYPES OF PARKING PERMITS

- disabled users
- family caretakers
- carsharing
- possibility to temporary changes the vehicle's plate number in the parking permit (e.g. due to maintanance)



#### **REGULATED ON-STREET PARKING IN PRAGUE, JANUARY 2019** ha-Březiněves Praha-Čakovice Praha-Ďáblice raha-Suchdo Praha 18 Praha-Lysolaje raha-Nebušice Praha-Troja Praha 19 Praha 20 Praha 14 Praha-Dolní Počernice Praha-Klánovice Praha-Běchovice Praha-Štěrboholy Praha 10pp Praha 21 Praha-Dubeč Praha-Koloděj Praha 15 Praha-Řeporvi Praha-Slivenec Praha-Petrovice Praha 22 Praha-Královice Praha-Velká Chuchle Praha-Újezd Praha-Lochkov Praha-Kunratice raha-Benice Praha-Nedvěž Praha-Libuš regualted parking Park and Ride Praha-Zbraslav city district Praha-Lipence 10 km City of Prague | 2019 Prague | Data source: The Prague Institute of Planning and Development, State Administration of Land Surveying and Cadastre, Technical Road Administration Company

The New concept of digitalized on-street parking took place in city districts where it has been established for the first time in 2016 (Prague 5, Prague 6 and Prague 8).

City districts Prague 1,
Prague 2, Prague 3 and
Prague 7 had a parking
regulation before. They
moved to the New concept
when the previous operators
contracts expired
(September 2017 and
January 2018).

Parking regulation now covers over 100.000 parking places (January 2019).



### resident parking



PO - PÁ 08 - 20 h S PLATNÝM PARKOVACÍM OPRÁVNĚNÍM OBLAST 5.1

P5-1234

### visitors parking



PO - PÁ 08 - 20 h MAX 2h

P5-1234

## mixed parking (residents + visitors)



PO - PÁ 08 - 20 h NEBO S PLATNÝM PARKOVACÍM OPRÁVNĚNÍM OBLAST 4

P5-1234





## **NEW PAYMENT FACILITIES**



Parking meters Parkeon Strada

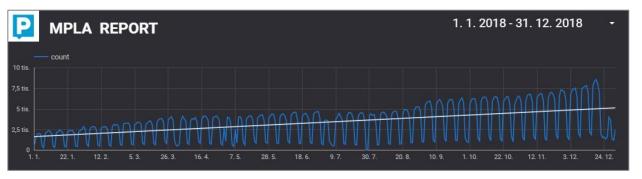
#### Mobile payment app

- Third party web appplication.
- Payments with debit/credit cards, and CCS cards.
- Works in many other cities in Czech Republic.





The web application runs on all mobile phones, tablets and PSs, on Windows, Android and iOS. No need to install an app.



Mobile payment is getting more and more popular among users.



## THREE STEP ENFORCEMENT AND PENALISATION

#### **Data collection**

Monitoring vehicles run the city streets scanning the vehicles' registration plate numbers and on-line check them in the Central Information System (CIS).



#### Offence confirmation

The CIS collects the "no-respect" cases to later provide them to the municipal police offce for further confirmation (in compliance with Czech legislation).



#### **Executive act / penalty**

After the confirmation by the municipal police office the offences are passed down to the local administration authority office (city districts) who then issue the penalisation to the vehicle operator (in compliance with Czech legislation). The financial means collected from fines are profit of the city district.



Cameras of the roof of the monitoring car ☐ InfraRed for scanning the number plates

☐ Visible spectrum camera for overview



A view from the monitoring camera car



#### **NEW SPECIFIC PARKING PERMITS**

Some parking permits are possible to distribute or use only thanks to the digitalisation.

# Parking permit for **disabled persons** & their **caretakers**



A long term parking permit similar to a resident's permit for persons with disabilities. Unlike the resident's permit, this one is only valid only on a small number of streets close to home or job address. No need for permanent residence required by law.

A parking permit can be issued to those who frequently care about persons with limited mobility or others health issues. It is a powerfull tool for family members.

Digital platform provides a possibility to issue the parking permit to a custom-made limited areas to prevent its misuse.

## Parking permit for carsharing



This parking permit allows carsharing vehicles to park for free and for unlimited time in regulated parking areas just and only when the vehicle is out of reservation (isn't used by a user). When the vehicle is being used and parks, the user has to pay a regular parking fee.

The parking enforcement is given the information about reservations of each car via a direct connection between carsharing companies and the city owned system.

The City of Prague in a cooperation with the Czech Carsharing Association developed a <u>tool to view and</u> reserve the shared vehicles that are currently not used.



#### **OPEN DATA PLATFORM**

The digital platform of parking regulation lets the city to distribute periodically updated open data online to everyone who is interested. The open data can serve for analytical purposes or to be used by individuals and companies for developing their own applications.





The city of Prague provides a dataset with historical data on **on-street paid visitors parking** and **map data** with locations and other valuable attributes on **Park&Ride parking lots**, **on-street parking regulation street segments** (useful for new map/payment applications), **parking meters**, **parking places for the disabled users** etc.

The city also provides a free **API connectivity** on data related to parking. New third party applications can then show **current occupancy of disabled-only parking places**, **occupancy on Park&Ride** parking lots and **new data on visitors short term parking**.



OPEN MAP DATA

OPEN STAT / API DATA