Output factsheet: ICT-enhanced services for smart parking

Project index number and acronym	**CE243**
Lead partner	**City of Vicenza**
Output number and title	**Output O.T2.1 - ICT-enhanced services for smart parking**
Responsible partner (PP name and number)	**Transport Research Centre- PP4**
Project website	https://www.interreg-central.eu/SOLEZ
Delivery date	14.03.2019

Summary description of the key features of the tool (developed and/or implemented)

This tool has been designed mainly in order to improve planning of low carbon mobility and to show that it is possible to reduce impacts of traffic regulation by means of well-adjusted smart parking service and to utilize data for better traffic organization in an operative area.

The tool has a modular structure and has been developed in 3 successive parts corresponding to 3 project deliverables.

Part 1 contains a review of different kind of technologies available for planning and designing smart parking systems implementation. By describing advantages and disadvantages of specific technologies as well as the purposes they are suitable for, it provides support to mobility experts and policy makers by improving their knowledge on these topics. Therefore, it is a valid tool to help them in the designing and definition of the smart parking strategy for own territory.

Part 2 proposes possible parking regulation schemes describing the detection technologies and related intelligent networks necessary for the implementation, including data management and data evaluation to comply with the interoperability requirements of already operating and existing ITS systems.

Part 3 is an implementation guide to use the cloud-based SOLEZ software created within the project.

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NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

The tool has been developed in the following NUTS (sub-regional / NUTS3 level): CZ Region (NUTS 2) CZ06, Jihovýchod Sub-region (NUTS 3) CZ064, Jihomoravský kraj

The tool is being and will be implemented in the following NUTS (sub-regional / NUTS3 level):

ITH32, Vicenza
HR037, Dubrovacko-neretvanska županija
CZ064, Jihomoravský kraj
PL633, Trójmiejski
SK031, Žilinský kraj

Expected impact and benefits of the tool for the concerned territories and target groups

The smart parking Tool developed provides a very effective way for local municipalities to gain experience on possibilities offered by smart parking regulation schemes. It represents a "Single Point of Access" to a valuable amount of information, that each territory can then use to design its own highly personalized solution.

In more detail, the proposed Tool can help Mobility Planners and Public Administrators from Central European cities to define more effective parking regulation strategy for their territories by

i)   Providing comprehensive and validated information and advice on how to access the new ITS technologies and assess their suitability, how to choose between different technologies with regard to the overall transport concept of cities and their urban areas.

ii)   Using Software that collects data about parking availability, provides real time data, dialogs with existing apps for info-mobility, supports intermodality towards drivers to the public transport

Sustainability of the tool and its transferability to other territories and stakeholders

The SOLEZ smart parking tool has been created taking into consideration the wide spectrum of specific requirements for each of the 5 functional urban areas where it will be pilot-tested during the project.

Considering such a wide starting scenario, which take into consideration the needs of metropolitan cities such as Gdansk and smaller city such as Zilina, the tool can well form the basis to find solutions also in other territories outside project area. Furthermore, its modular structure, contributes to its sustainability and transferability characteristic. For example, depending on local needs, administrations can decide to use only 1 or 2 modules during any stage of smart parking planning process implementation. They can be guided in designing a parking regulation scheme (part 2), customized the SOLEZ software (part 3) by using already existing detection technology. Other municipalities, which has to set the system from scratch, can find it very useful the first part of the tool, which provides an overview of all detection technologies available useful to select the most suited one for the smart parking strategy they aim to implement.

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Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

The transnational dimension of the Consortium and the presence of 5 different Pilot Areas from 5 different countries was important to develop a tool really flexible, and transferable. Each EU country and each type of urban area has indeed specific needs and regulations: being able to satisfy these different requirements has been a key challenge in tool development process.

Indeed, flexibility and scalability has proven to be essential at all levels when talking about smart parking solutions. The project demonstrated that the process for approving and implementing new parking solution is generally long in all cities, while changes in mobility priorities, in the regulatory framework, in urban plans, or simply an important real estate investment can directly affect parking-related decisions. For this reason, cost effectiveness, low initial investment and flexibility of proposed solutions resulted to be very important elements. The decision to go for a cloud-based software is coherent with this finding.

References to relevant deliverables and web-links
If applicable, pictures or images to be provided as annex

The smart parking toolbox is described in the following deliverables/reports:

- **DT2.1.1-** *Transnational review and user requirements analysis for smart parking solutions*
- **DT2.1.2-** *Overall design of the Parking Regulation Scheme and related Data Management System*
- **DT2.1.3-** Smart parking Tool developed

The documents are available on https://www.interreg-central.eu/Content.Node/SOLEZ.html in the Publication section.