UVAR Box

Digitising data of urban vehicle access regulations (UVAR) across Europe to facilitate the private, public and commercial use of UVARs.

UVAR Box will provide up to date and relevant information about Urban Vehicle Access Regulations (UVARs), addressing current fragmentation and lack of availability of UVAR data.
This project was awarded in the framework of the Preparatory Action – User-friendly Information Tool on Urban and Regional Vehicle Access Regulation Schemes, Notice: 2019/S 229-561113, Reference number: MOVE/B4/2019-498.

WHAT IS UVAR BOX?

UVAR Box is an EU-funded project providing tools to enable road users' information on access regulations to cities and regions in Europe, digitally, both ahead of and during their trip. Access regulations to cities include Low Emission Zones, Parking Regulations, Congestion Charging Schemes, Limited Traffic Zones and Pedestrian Zones. The project started in September 2020 and will run for two years. The main outcomes are the following:

- **A data structure for data on Urban Vehicle Access Regulations (UVARs)**
- **Machine-readable formats of UVAR data to enable its incorporation into navigation systems or mobile applications**
- **A user-friendly software tool, documentation and training to help authorities put their UVARs into this format.**

These outcomes will support harmonisation of UVAR information from local authorities, and support road users in their trip planning across the EU. UVAR Box will assist local authorities and Member States to set up their issuing procedures, digitally, and comply with European regulations on travel information (Single Digital Gateway – SDG), and any that might come from the review of the ITS Directive.Regulation).
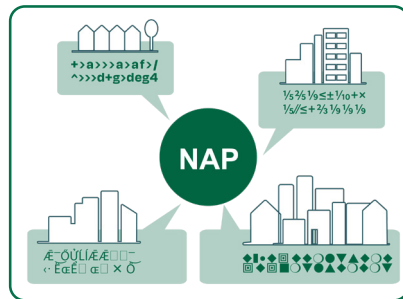

WHY UVAR BOX?

More and more European cities are introducing UVARs of different kinds. These local access regulations serve policy objectives such as air quality, liveability, climate change and congestion reduction. The most common types of UVARs include: Low Emission Zones, Parking Regulations, Congestion Charging Schemes, Limited Traffic Zones and Pedestrian Zones.
Providing relevant and effective information regarding UVAR schemes to all road users is of utmost importance to ensure schemes are respected and publicly accepted. They also facilitate the organisation of access of goods and people into urban areas.

While EU-wide information on UVARs is available on the website www.urbanaccessregulations.eu, currently, no digitised static and dynamic machine-readable data is available in a standardised or interoperable format yet, as EU-wide standards still need to be agreed on. There is an obvious advantage for road users and road transport operators to be able to have integrated information on UVAR schemes in apps, fleet management tools and navigation devices while planning their trip and during their journey. UVAR Box tools will enable the digital integration of UVAR data into these services.

WHO BENEFITS?

- **Cities with an UVAR in place:**

  digitise your regulation to share it with your National Access Point (NAP), and with navigation systems, who support road users getting around your city!

- **Logistics operators:**

  better plan your deliveries according to UVARs' legal requirements in the cities of your customers!

- **Drivers:**

  receive notifications through your navigation system on specific access regulations of areas you are approaching!

  More use cases at:
  www.uvarbox.eu

HOW DOES UVAR BOX PROCEED?

UVAR Box will go through the following steps to accomplish its goals:

1 Establish and define **an adequate UVAR data structure** to ensure full compatibility and coherence between the UVAR Box tools. It enables the compliance of digital UVAR information with the Single Digital Gateway (SDG) Regulation,its data categories and metadata. These fit the DATEX II interface and exchange requirements.

2
- Develop **the UVAR Toolbox**, which is based on the UVAR data structure, and consists of three different tools:
- a word template or excel spreadsheets, which lists UVAR data types and attributes
- **a user-friendly web-based tool**, to be used mainly by cities and other UVAR competent authorities as entry point to provide their UVAR information, in compliance with the SDG Regulation
- **an UVAR DATEX II profile**, developed in cooperation with the DATEX II CEF Programme Support Action and standardisation bodies, allowing integration of UVAR information into navigation systems and mobile applications

3 Encourage the emergence of **innovative services** exploiting the UVAR Toolbox. The project will enable mobility service providers to develop scalable and replicable services that can be deployed across the entire European road network. A Hackathon will enable and challenge providers to develop UVAR services.

4 Define **a strategy to ensure UVARs can be digitized** after the end of the project. It includes working with authorities to integrate the toolbox in their digital processes, reach out to the NAPs to enable UVAR data accessibility, and facilitate contact with mobility information service providers to use the available UVAR data.

STAKEHOLDER INVOLVEMENT

UVAR Box will reach out to all stakeholders contributing to the UVAR data value chain.

1 **UVAR Data generators:**
competent authorities that legislate, regulate, and enforce UVARs. These include cities, regions, road and police authorities and others.

2 **UVAR Data handlers:**
stakeholders that process data, such as National Access Points

3 **UVAR Data users:**
(incl. service providers like navigation systems or mobility apps) and end users – mostly road users.
Stakeholders are invited to get engaged from all EU countries. National experts will support UVAR data generators in 5 defined focus areas. They will raise awareness amongst the national stakeholders, perform an assessment of local UVAR data and experiences, provide training and support to use the UVAR Box tool.

GET IN TOUCH WITH US

If you are interested in the national digitisation processes, you can contact our dedicated **country coaches.** For explanation concerning the project and the cooperation with stakeholders, feel free to approach the **project contacts**. We also invite you to visit our **homepage** and **social media channels**. The **UVAR Toolbox will be ready at the end of 2021**. For cities: contact us as soon as possible, so we can help prepare you for data conversion in 2022!

FOR FURTHER INFORMATION ON UVAR BOX:

Check https://uvarbox.eu/
Register on our homepage to be kept updated by email with news and events!

https://twitter.com/UvarBox

https://www.linkedin.com/groups/12479675/

PROJECT CONTACT

Project Coordinator:
Pedro BARRADAS
ARMIS Information System
pedro.barradas@armis.pt

**Communication
& Stakeholder outreach manager:**
Manon COYNE
Polis
mcoyne@polisnetwork.eu

COUNTRY COACHES

Austria:
Martin BÖHM
AustriaTech

Benelux:
Nuno RODRIGUES
MAPtm

Germany:
Florian HILTI
PRISMA Solutions

Italy:
Cosimo CHIFFI,
Tito STEFANELLI
TRT

Claudio DISPERATI,
Antonio LIBERATO
MemEX

PROJECT PARTNERS

UVAR Box is led by ARMIS and supported by the following partners:

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