

UVAR Exchange

- Road signs
- C-ITS
- Cross-border enforcement

UVAR Exchange: August 2021 until January 2023

A European Parliament Pilot Preparatory Action

- Leading the way for legislation changes



LEZ road signs

- Stakeholders complain of confusion cross-border
- No harmonised category for UVAR/LEZ (UNECE/CEN)
- Text particularly difficult (cross-border & camera recognition)



Low Emission Zones (LEZ): typologies of road signs and definitions from some EU countries



France – ZFE Zone à Faibles Emissions – Low Emission Zone



Belgium – ZBE Zone à basses émissions – Low Emission Zone



Spain (Barcelona) ZBE Zonas Baixes Emissions – Low Emission Zone



Spain (Madrid) ZBEDEP - Zona de Bajas Emisiones de Especial Protección - Special Protection Low Emission Zone



NL: Draft ZEZ road sign



Portugal – ZER Zona de emissões reduzidas - reduced emission zone



Czech Rep. – NEZ Nízkoemisní zóna – Low Emission Zone



Germany - Umweltzone – Environmental zone



The Netherlands - Milieu Zone – Environmental zone



Denmark - Miljøzone - Environmental Zone



Sweden - Miljözon - Environmental Zone

Sign Text: hard to read



Limited Traffic Zones (LTZ): typologies of road signs and definitions from some EU countries



Italy – ZTL Zona a Traffico Limitato - limited traffic zone



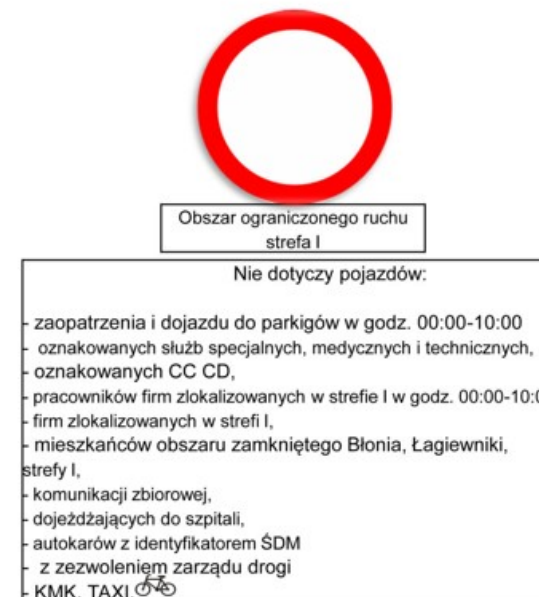
France – ZTL Zone a Traffic Limité – limited traffic zone



Belgium – ZAL Zone à Accès Limité – limited access zone; BTZ Beperkt Toegankelijke Zones – restricted traffic zone



Salzburg – Zufahrtsverbot - Prohibition of access



Poland – Strefa Ograniczonego Ruchu (SOR - Krakow) – restricted traffic zone; Strefa Ograniczonej Dostępności (SOD – Gdańsk) limited availability zone

Road sign work

- Review current situation
 - Reports with guidelines for clearer use of UVAR signs
 1. Practical aspects on road signs, eg symbols rather than text, positioning advice, possibly combining signs
 2. Guidelines for VMS
 - Looking at new types of signs
 - Especially ZEZs, new LEZ countries
 - Workshops for input & discussion
 - Working with UNECE & CEN towards harmonisation & UVAR road sign categories
 - Demonstrate VMS 4 UVAR, perhaps alterations static signs
 - Workshops to discuss options
- Better info to drivers (= more compliance)
- More seamless travel across borders

C-ITS UVAR Demos

C-ITS = Cooperative Intelligent Transport Systems

- C-ITS offers opportunities for UVARs
- We will test & demonstrate them
- Test the DATEX II format (UVAR Box) info directly to vehicles with C-ITS (ready for e.g. automated vehicles)
 - Focusing only on with UVAR cities with C-ITS relevant standards (eg Turin, Vienna, Brno....)
- Sending information through e.g. Turin's Geofencing Lab
- Workshops to get input as to what is needed

Cross-border enforcement

- LEZ & Parking Cross-border enforcement is difficult
 - eg Aachen loses about half its traffic fines (LEZ & Parking)
 - foreign vehicles can park and drive with 'impunity'
 - Cities must disseminate UVARs EU-wide – but no EU-wide tools to help enforce
 - Foreign drivers must pre-register LEZs – no other way city can identify emissions
 - Bi-lateral agreements & 3rd party 'debt agencies' used
 - But can work legally for red traffic light & m/way tolls with CBE & EETS....
- An EU-wide solution would solve these so
 - Identification → drivers don't need pre-register (& pay related fines)
 - Enforcement → fairer, more compliance, more of the € to city rather than 3rd party
- Directives that might be affected in next review
 - CBE = Cross Border Enforcement, for safety issues
 - EETS = European Electronic Tolling System, for tolls

Cross-border enforcement

- Identify current & potential EU-wide options
 - Eg used for other purposes, or by some MS
 - EUCARIS provides for EETS & CBE Directives for all MS, but not for UVARs (legal issues)
- Identify barriers, challenges:
 - Legal, Technical, Administrative, Procedural
 - What are the problems / barriers for cities / MS?
 - What needs to be done to make the current options work?
- Questionnaires, bilateral meetings to gather information
- Workshops
 - Wide selection of cities; discuss issues to make sure all are identified / assessed / resolved
 - Choose pilot cities / MS
- Demonstrators to prove it can work
 - EUCARIS, national vehicle database agencies, cities, ministries
 - Identifying any other issues

Thanks for listening, and here's the team



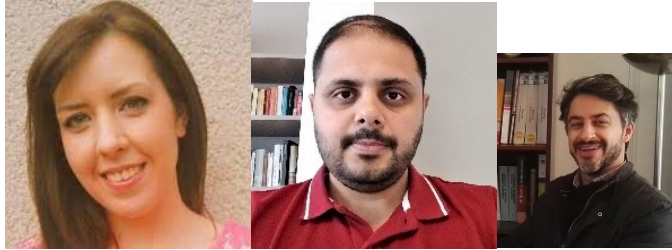
Maria Rodrigues

Tharsis Teoh



Nuno Rodrigues

Steven Boerma

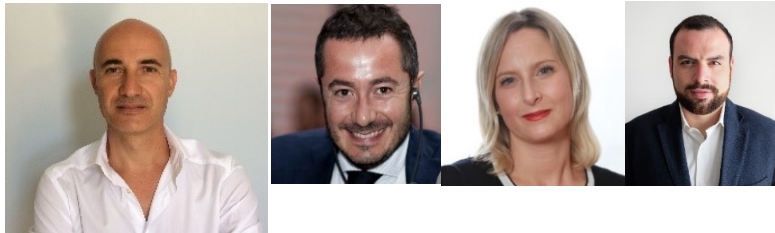
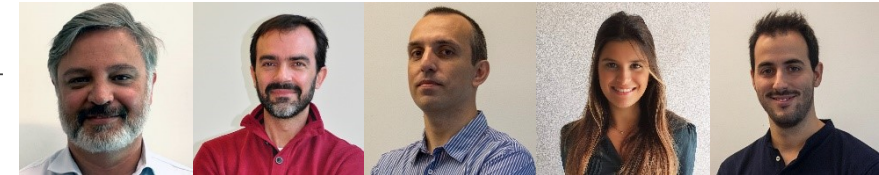


Maruša Benkic

Jayant Sangwan



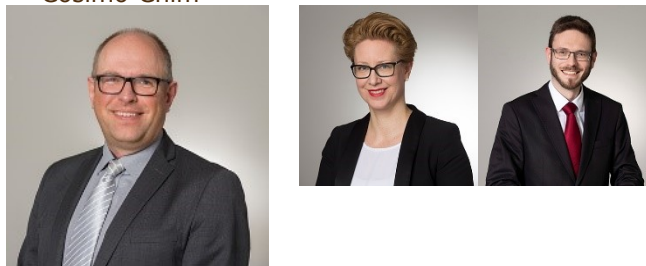
INTELLIGENT
TRANSPORT
SYSTEMS



Cosimo Chiffi



Lucy Sadler



Martin Böhm

Sign up to be involved: <http://uvarxsignup.panteia.eu>

Maria Rodrigues m.rodriques@panteia.nl

Lucy Sadler Lucy.Sadler@airqualitypolicy.eu

Further info: <https://panteia.com/themes/transport-mobility/urban-mobility/uvarexchange/>

Questionnaire:

https://ec.europa.eu/eusurvey/runner/UVARExchange_Project_Survey_November_2021