

## SOTERIA's first co-creation results on road safety

Unfolding VRUs' perspective on road safety across Europe

In 2023, SOTERIA project has proudly launched its Living Labs across four European countries on road safety for Vulnerable Road Users (VRUs). A central part of SOTERIA's research activities is the **co-creation process, directly including citizens into the design of technological solutions** to enhance road safety in complex urban environments.

### Living Lab #1

**Oxfordshire, United Kingdom**

*Safe and inclusive integration of micro-mobility to current mobility paradigms*

### Living Lab #2

**Saxony, Germany**

*VRUs safety applications for generation Z*

### Living Lab #3

**Madrid, Spain**

*Safe and shared mobility services for improving user well-being and clean urban*

### Living Lab #4

**Chania/Igoumenitsa, Greece**

*Proactivity-based and micro-vehicle centric measures for unprotected VRUs*

### 1st co-creation workshops in numbers

**4** European countries

**5** cities

Around **100** participants in all four Living Labs

More than **10** hours of total recordings time from participants' testimonies

### Most represented road user group:

- cyclists
- children and adolescents
- elderly
- people with disabilities / wheelchair users
- powered two-wheeler drivers

## Road safety issues and solutions based on participants' insights

### Infrastructural Issues

#### Common issues across the Living Labs



Lack of well-designed cycle lanes



Poor road surface condition



Inadequate street lighting and signage



Accessibility issues for people with disabilities

#### Unique issues to each Living Lab

**Oxford, UK**

Absence of underpasses at necessary intersections

**Saxony, Germany**

Poor road design promoting car usage

**Madrid, Spain**

Inadequate urban infrastructure to accommodate increased mobility demands

**Chania/Igoumenitsa, Greece**

Lack of infrastructure for wheelchairs and dangerous road conditions

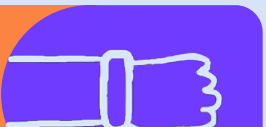
### Road users' behaviour and attitude

#### Common issues across the Living Labs

Disregard for traffic rules and regulations



Lack of respect and consideration for other road users



Increased risk due to distractions and lack of situational awareness



Non-compliance with road safety norms



#### Unique issues to each Living Lab

**Oxford, UK**

Disregard for safety among each road user group

**Saxony, Germany**

Aggressive driving of motorists

**Madrid, Spain**

Minimal situational awareness of road users in shared spaces

**Chania/Igoumenitsa, Greece**

Non-compliance with traffic regulations

### Technological assistance on the road

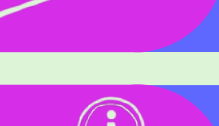
#### Common issues across the Living Labs



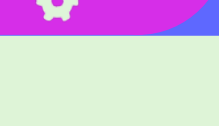
Use of navigation and routing software



Integration of smart navigation devices



Addressing accessibility challenges



Enhancing accessibility information and infrastructure



#### Unique issues to each Living Lab

Promotion of dash cameras

**Oxford, UK**

Recommendation for smart navigation devices on the handlebar

**Saxony, Germany**

Detection system for scooters' generators and penalty enforcement

**Madrid, Spain**

Redesigning routes for individuals with motor disabilities and wheelchair users facing unexpected problems

**Chania/Igoumenitsa, Greece**

### Proposed solutions to enhance road safety

#### Common proposed solutions across the Living Labs

Implementing comprehensive infrastructure upgrades and adaptations to improve road safety



Launching awareness campaigns and educational programmes to promote safer road use and compliance with regulations



Introducing advanced technological solutions aimed at enhancing road safety, including smart applications and AI-driven tools



Enforcing strict regulations and implementing measures to ensure compliance with safety standards and traffic laws



#### Unique proposed solutions to each Living Lab

**Oxford, UK**

Implementing Dutch-style roundabouts to improve traffic flow and safety

**Saxony, Germany**

Introducing temporary driving bans in front of schools to ensure the safety of schoolchildren

**Madrid, Spain**

Standardising rules for micro-mobility to create consistency in regulations across municipalities

**Chania/Igoumenitsa, Greece**

Compulsory purchase of helmets together with the purchase of motorcycles/bicycles to promote safety among riders