

D2.12

Minutes of the second stakeholder event



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Revisions table

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Content

Revisions table.....	1
Executive summary	3
List of abbreviations	4
List of figures	4
Introduction	5
Second round of stakeholder events.....	5
Focus groups (April 2024)	5
Stakeholder event in Leuven (May 2024)	6
Stakeholder event in Paris (September 2024)	7
Stakeholder event in Barcelona (October 2024)	8
Online workshop – Sound of Silence (April 2025)	9
Conclusion.....	9
Annex	10
Stakeholder event in Leuven (May 2024)	10
Agenda:	10
Participants:	11
Stakeholder event in Paris (September 2024)	11
Agenda:	11
Participants:	13
Stakeholder event in Barcelona (October 2024)	14
Agenda:	14
Participation:	15
Online workshop – Sound of Silence (April 2025)	15
Agenda:	15
Participation:	16



Executive summary

This deliverable presents the minutes from the second round of stakeholder discussions concerning noise and emissions from L-category vehicles. These discussions were conducted as part of the LENS project.

While the first event in March 2023 was held online, the project's stakeholder engagement activities have evolved significantly since then. The consortium originally planned a follow-up event to gather input from relevant stakeholders, but expanded its approach by organising focus groups, three in-person stakeholder events in different European cities, and one online citizens' workshop.

These activities enabled the project to collect insights from a broad range of stakeholders, including city authorities, enforcement agencies, industry representatives, researchers and citizens' organisations. This information was used to develop practical recommendations for reducing noise and emissions from L-category vehicles.

The activities began with online focus group discussions in April 2024, followed by three physical stakeholder events in Leuven (Belgium), Paris (France) and Barcelona (Spain) throughout 2024. They concluded with an online workshop in April 2025, which focused on citizens' perspectives on motorcycle noise. Together, these activities gathered views from across Europe, fostering cross-sectoral dialogue and strengthening the project's stakeholder network.

The two stakeholder groups, originally established separately to represent cities and citizens' organisations, were later merged into one forum. This change aimed to facilitate communication, simplify participation, and ensure better exchange between local authorities and community representatives.

The engagement activities demonstrated the added value of involving diverse stakeholders in the development of noise and emission reduction strategies. These discussions will inform the forthcoming LENS policy recommendations paper for decision-makers at various governance levels.



List of abbreviations

ACEM	Association of Motorcycle Manufacturers
CRETA	Control of Mobility and Reduction of Traffic Emissions
EU	European Union
FMI	Fédération Internationale de Motocyclisme
IFPEN	IFP Energies Nouvelles

List of figures

Figure 1: Visit live-testing location Leuven

Figure 2: Participants event Paris

Figure 3: Stakeholder event Barcelona

7

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9



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Introduction

This deliverable provides a record of the second series of stakeholder events held as part of the LENS project. It summarises the organisation, content and outcomes of the five events held between April 2024 and April 2025.

These events aimed to strengthen collaboration between project partners and external stakeholders, and to gather feedback on how the project's findings could inform real-world regulatory and policy improvements.

In addition to its initial objective of facilitating stakeholder dialogue, the LENS consortium took a more ambitious approach, extending its outreach to a wider range of contexts and participants. This included in-person events in Belgium, France and Spain, as well as an online workshop engaging with groups of European citizens.

This process demonstrates how LENS incorporates a variety of perspectives, ranging from public authorities to citizen's organisations, to inform the development, dissemination and policy relevance of the project.

The annex provide detailed agendas and attendance lists for all events.

Second round of stakeholder events

Focus groups (April 2024)

In April 2024, the LENS consortium organised a series of focus group discussions with representatives from cities, citizens' organisations and end-user groups. The aim was to ensure that the project's recommendations reflected governance realities and community experiences relating to noise and air pollution caused by L-category vehicles.

Participants included city officials from Budapest and Brussels, citizens' groups from Germany and Albania, and the Fédération Internationale de Motocyclisme (FIM), who represented end users.

Public authorities shared insights on urban development and improvements to air quality, while noting that noise remains a lower political priority. In Brussels, for example, the introduction of a 30 km/h citywide speed limit has led to a noticeable reduction in traffic noise, and new enforcement technologies are being tested. Citizen groups from the Black Forest region of Germany described the severe impact of motorcycle noise in rural areas, calling for stronger enforcement against tampering and better alignment between EU and national policies. Contributions from Albania highlighted the challenges faced by smaller cities undergoing rapid motorisation with limited public transport options. End-user representatives emphasised that overly restrictive local driving bans could provoke opposition within the motorcycling community. They advocated consistent enforcement of existing



rules and manufacturer-level obligations instead, noting a generational shift towards electric two-wheelers.

Throughout the discussions, participants agreed on the need for clearer regulations, consistent enforcement and stronger integration of community perspectives into urban mobility strategies.

Stakeholder event in Leuven (May 2024)



Fig. 1 Visit live-testing location Leuven

The first in-person stakeholder event of this cycle took place on 15 May in Leuven, focusing on in-field measurement campaigns. Supported by the Leuven Police, participants observed tests on over 100 vehicles.

Representatives of cities and citizens' groups were introduced to the technical procedures and observed demonstrations of the equipment. The consortium gave presentations on the laboratory and



roadside testing that has been conducted to date and shared the preliminary findings with the audience. There was a high level of interest in the technical aspects of the campaign and the policy relevance of the results, as reflected in the discussions. Participants emphasised the importance of monitoring and enforcement in addressing noise and emissions.

Stakeholder event in Paris (September 2024)



Fig 2. Participants event Paris

Hosted by IFP Energies Nouvelles (IFPEN) on 17–18 September 2024, the Paris event attracted over forty participants from local authorities, research institutions, industry and citizens' groups.

The event brought together over forty stakeholders from local and regional authorities, industry, citizens' organisations and research institutions. The programme included visits to ongoing roadside measurement campaigns, as well as thematic discussions organised in cooperation with the POLIS Network and the Association of European Motorcycle Manufacturers (ACEM).

Attendees discussed a variety of policy challenges, such as integrating powered two-wheelers and light electric vehicles into urban mobility, managing parking, ensuring safety and security, the role of L-vehicles in urban freight, and establishing governance structures for sustainable mobility. A recurring



theme in the discussions was the concept of 'right-sizing' vehicles for urban use, with a particular focus on the contrast between large passenger cars and the potential of smaller vehicles. Participants also debated the need for stronger enforcement frameworks and clearer safety and parking regulations, as well as opportunities for shared mobility solutions.

On the second day, the focus was on LENS-specific progress, with presentations on real-world and laboratory testing campaigns, including results from Leuven and preliminary findings from the Paris campaign.

Stakeholder event in Barcelona (October 2024)



Fig 3. Stakeholder event Barcelona

The third in-person event, organised in collaboration with the Control of Mobility and Reduction of Traffic Emissions ([CRETA](#)) project on 15 October, focused on integrating shared mobility solutions into urban air quality strategies.

City officials, Catalan authorities and researchers discussed Barcelona's plan to achieve climate neutrality by 2030. Presentations showcased the results of the LENS measurement campaign



conducted in the city, while also exploring the potential of remote sensing technology for dynamic enforcement.

The event emphasised the importance of data-driven policymaking and cross-project collaboration, attracting significant participation from local and European stakeholders alike.

Online workshop – Sound of Silence (April 2025)

The final event in this series was an online workshop titled 'Sound of Silence? – Citizens' Perspective on Noise Pollution', which was jointly organised with citizens' initiatives from Germany and the Netherlands on 9 April.

The discussion was joined by 68 participants, including local representatives, researchers, and policymakers. Presentations covered the health impacts of noise, citizen science data collection and new enforcement tools, such as noise cameras.

Citizens shared their practical experiences and local initiatives aimed at reducing motorcycle noise and called for stronger European legislation. The workshop demonstrated the power of grassroots engagement and the importance of integrating citizen-generated knowledge into formal policymaking.

Conclusion

The second cycle of stakeholder events saw strong and growing engagement from a wide range of participants, including public authorities, citizens, researchers and industry representatives.

By combining live demonstrations, local exchanges and citizen-led dialogues, the LENS consortium succeeded in facilitating discussions that connected technical research with lived experience.

Stakeholders consistently emphasised the importance of real-world data, enforcement and improved regulatory coordination. Cities emphasised the need to promote smaller, more efficient vehicles, citizens' groups called for stronger action on persistent noise issues, and industry actors contributed insights on technological innovation and practical implementation challenges.

These exchanges provided useful input for the forthcoming LENS policy recommendations targeting decision-makers at local, regional, national and EU levels.

The stakeholder engagement process also exceeded initial project expectations in terms of both scope and participation. Collaboration among partners and stakeholders was described as smooth and constructive, creating a strong foundation for continued cooperation beyond the project's lifetime.

POLIS and the other LENS partners will maintain these stakeholder connections to ensure that the established network continues to support sustainable mobility and enforcement initiatives across Europe.



Annex

Stakeholder event in Leuven (May 2024)

Agenda:

Time	Item	Speaker
12:00	Arrival & Light Lunch at Van Den Heuvel Institute	
13:00	Welcome words by LENS & Tour de Table	Leonidas Ntziachristos, EMISIA
13:30	Welcome words by representatives from Leuven	Tim Asperges, City of Leuven
13:45	Status quo L-vehicle pollution and importance of tests for police	Matthieu Caudron, Leuven Police
14:00	LENS update on latest developments	Leonidas Ntziachristos, EMISIA
14:15	Tampering detection in-field surveys in the LENS project (Paris & 3rd city)	Ake Sjodin, IVL
14:30	Q&A	All
14:45	Coffee Break	
15:15	Roadside measurements of L-vehicle noise and emissions	Hervé Denayer on Noise, KU Leuven
15:30	Roadside measurements of L-vehicle noise and emissions	Hafiz Hashim Imtiaz, TU Graz
15:45	Revised laboratory testing	
16:00	WP3	Alba Garbí, IDIADA
16:15	WP 6	Leonidas Ntziachristos, EMISIA
16:30	Coffee Break	
16:45	Visit live-testing location	All
17:00	Walking tour of additional on-street measurement site	All
18:30	Dinner	All



Participants:

Employer	Stakeholder category
City of Leuven	Public authorities
Leuven Police	Public authorities
BKK Centre for Budapest Transport	Public authorities
ABCD Ltd	Public authorities
EMISIA	Research
IDIADA	Research
KU Leuven	Research
IVL - Swedish Environmental Research Institute	Research
TU Graz	Research
NEFOM	Citizen's organisation
SOS Europe	Citizen's organisation
Bundesverband Gegen Motorradlärm	Citizen's organisation
VAGM e.V.	Citizen's organisation
POLIS	NGO

Stakeholder event in Paris (September 2024)

Agenda:

Day 1 (17 September 2024)

Time	Item	Speaker
08:30	Welcome coffee & registration	
09:00	Welcome words by IFPEN	Philippe Degeilh, IFPEN
09:10	Welcome words by LENS	Giorgos Triantafyllopoulos, EMISIA
09:15	Setting the scene: insights from ACEM and POLIS	Antonio Perlot, ACEM Ivo Cré, POLIS
09:30	Frugal electric vehicles – the missing link in ZE urban mobility?	Christopher Hodder, Fédération Internationale du Motocyclisme Thomas Duscha, SWOBSEE Enrico Mayrhofer, ACEM Pieter Dekker, LEVERAGE project



10:45	Parking management & Road space (re)Allocation	David Timothé Buen Abad, Bruxelles Mobilite José Maria Riaño, ANESDOR/ACEM Federico Vitale, Confindustria ANCMA/ACEM
11:45	Coffee Break	
12:00	Governance: sharing the way to sustainable mobility	Julien Chamussy, FLUCTUO Camille Loth, Cooltra José Maria Riaño, ANESDOR/ACEM Federico Vitale, Confindustria ANCMA/ACEM
13:15	Lunch Break	
14:15	Urban freight	Loïc Nys Taymans D'Eyepnon, Bruxelles Mobilite Federico Vitale, Confindustria ANCMA/ACEM
15:30	Road Safety: a new era on two-wheels	Laurent Carnis, Universite Gustave Eiffel Hannah Cordts von Lowis of Menar, TfL Veneta Vassileva, ACEM
16:45	Coffee Break	
17:15	Paris measures to curb (L-vehicle) pollution	Christophe Mietlicki (Bruitparif)
17:45	Introduction to the LENS project & setting the scene for the next day	Niklas Schmalholz (POLIS)
19:00	Dinner	All

Day 2 (18 September 2024)

Time	Item	Speaker
08:30	Welcome coffee & registration	
09:00	IFPEN Research & Innovation activities	Philippe Degeilh, IFPEN



09:30	Introduction to the LENS project	Giorgos Triantafyllopoulos, EMISIA
10:15	LENS Paris Roadside measurement campaign	Ake Sjödin, IVL
10:45	Outlook on Barcelona stakeholder event & communication information	Niklas Schmalholz, POLIS
11:00	Coffee Break	
11:30	Walk to measurement site	All
12:00	Visit of measurement site 8 Av. du 18 Juin 1940 92500 Rueil-Malmaison, France	All
12:30	Return to IFPEN premises	All

Participants:

Employer	Stakeholder category
Ministry of Transport Baden-Württemberg	Public authorities
Lille Metropole	Public authorities
BKK Centre for Budapest Transport	Public authorities
ABCD Ltd	Public authorities
Samsun Metropolitan Municipality	Public authorities
City of Paris	Public authorities
Brussels Mobility	Public authorities
City of Zviahel	Public authorities
City of Stockholm	Public authorities
City of Antwerp	Public authorities
Bruxelles Environnement	Public authorities
Transport for London	Public authorities
Federation Internationale de Motocyclisme	End users
ACEM	
KTM	Industry
Piaggio	Industry
Honda Motor Europe	Industry
Bruitparif	Research
EMISIA	Research
IFPEN	Research
KU Leuven	Research
IVL - Swedish Environmental Research Institute	Research
TU Graz	Research
Cerema	Research



HAN, University of applied science	Research
Université Gustave Eiffel	Research
NEFOM	Citizen's organisation
SOS Europe	Citizen's organisation
Bundesverband gegen Motorradlärm	Citizen's organisation
VAGM e.V.	Citizen's organisation
POLIS	NGO
Swobbee GmbH	Industry
Intermobility	NGO
ADEME	Public agency
ANESDOR	End users
FORSEE POWER	Industry
Cooltra	Industry
CSIAM	Industry

Stakeholder event in Barcelona (October 2024)

Agenda:

Time	Item	Speaker
10:00	Welcome coffee & registration	
10:30	Setting the scene: Challenges of L-vehicle pollution & LENS solutions	Leonidas Ntziachristos, EMISIA
10:50	Welcome words by OPUS	Javier Buhigas, OPUS RSE
11:00	Ecological challenges related to pollution in Catalunya	Maria Savall Mañó, Barcelona City Council
11:30	Introduction to LENS: Aims, aspirations and air- & noise pollution measurement	Leonidas Ntziachristos, EMISIA
12:00	Coffee Break	
12:30	LENS Project – L-vehicle sensing: Noise & Emissions Remote Sensing of Motorcycles in Barcelona and beyond	Ake Sjödin, IVL
13:00	Introduction to CRETA: Aim of the project & implementation pla	Carles Fuentes, ABERTIS Autopistas
13:30	Lunch Break	
14:30	CRETA Project: Spanish vehicle emission remote sensing	Javier Buhigas, OPUS RSE



15:15	Regional air pollution challenges in Catalunya and related mitigation strategies	Eva Pérez Gabucio, Generalitat de Catalunya
16:00	Communication & Site visit information	Niklas Schmalholz, POLIS
16:15	Site visit of the measurement campaign	All

Participation:

Employer	Stakeholder category
Barcelona Metropolitan Area	Public authorities
ABCD Ltd	Public authorities
Environment and Resources Authority Malta	Public authorities
Generalitat de Catalunya	Public authorities
EMISIA	Research
IDIADA	Research
IVL - Swedish Environmental Research Institute	Research
POLIS	NGO
Tecnalia	Research
OPUS RSE	Industry
Indra Sistemas S.A	Consulting
Tokyo Dylec. Corp.	Industry
SofiaGreen	Public authorities
DENSO	Industry
Esp India Pvt Ltd	Consulting
CSIAM	Industry
Vinces Consulting	Consulting

Online workshop – Sound of Silence (April 2025)

Agenda:

Time	Item	Speaker
10:00	Welcome words & introduction to the webinar	
10:	Introduction to the LENS project	Leonidas Ntziachristos, EMISIA
10:	Different perspectives on noise-pollution of L-vehicles in the Netherlands: Physical and mental health of noise pollution on citizens (Tony Hardenberg) Dutch government perspective on noise pollution (Nick Mabjaia, RIVM)	moderated by Hester Volten, RIVM



	Mitigation options for loud vehicle noise (Michael Dittrich, TNO)	
11:	Presentation of several citizens' groups from The Netherlands and Germany: Courtcase Zuidendijk/ Smart Monitoring systems (J. Leeflang, Citizen group Drechterland) Eldorado for bikers/Data from Baden-Württemberg (F. Hahn, Citizen group Nordschwarzwald) Stop traffic noise Amersfoort/Citycouncil approaches (K. Dirksen, Citizen group Amersfoort)	
11:	Presentation SOS-Europe "Roads to silence"	Leo Fluitman, NEFOM
12:00	Outlook on the mitigation strategies & next steps as part of the LENS project	

Participation:

As LENS only collected email addresses during registration for the webinar (information that cannot be disclosed due to GDPR requirements) we identified the participants' organisations where possible, based on their email domains.

Employer	Stakeholder category
BMW	Industry
FIM	End users
CERTH	Research
Environnement Brussels	Public authorities
VAGM e.V	Citizen's organisation
Utrecht	Public authorities
IDIADA	Research
POLIS	NGO
Acustica	Consulting
Porsche	Industry
SOS Massif des voges	Citizen's organisation
Den Haag	Public authorities
Bundestag	Public authorities
Amersfoort	Public authorities
ACEM	End users
Suzuki	Industry
Vinces Consulting	Consulting

