Funded by the European Union

NEWSLETTER #5

“Global Acoustic interaction and Psychoacoustic impact of the autonomous vehicles in interior and exterior NOISE” (GAP_NOISE) is a Horizon Europe MSCA Doctoral Network that started on 1st March 2023.

GAP_NOISE aims to develop research and a training program to create a technologically strong community of scientists and engineers capable of boosting the integration of electric powertrains in future vehicles.

Recent Activities and Consortium Engagement

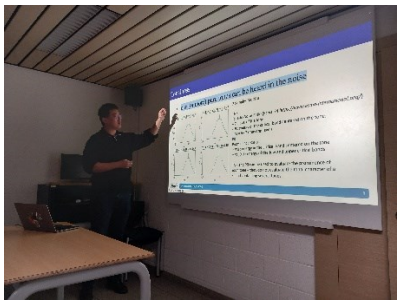
The past months have been marked by intensive collaboration, knowledge exchange, and active dissemination within the GAP_NOISE consortium. Doctoral candidates continue to strengthen their research while engaging in technical discussions, international events, and outreach initiatives.

GAP_NOISE Workshop at KU Leuven

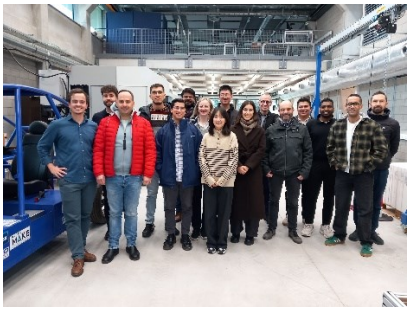
From 27th to 29th January 2026, the GAP_NOISE consortium gathered at KU Leuven for a comprehensive workshop combining technical exchange, training, and networking.

The workshop began at the Campus De Nayer, where participants were introduced to the Automotive Research Center and visited advanced laboratory facilities. Doctoral candidates presented their latest research progress and received feedback from supervisors.

The following day included the General Assembly and further technical sessions, allowing all doctoral candidates to present updates and align their work within the broader project objectives.







A key highlight of the event was the presentation skills training, delivered by Dr Juliet A. Ellis (University College London, UK). The training provided practical tools to enhance scientific communication and to pitch research to diverse audiences effectively.

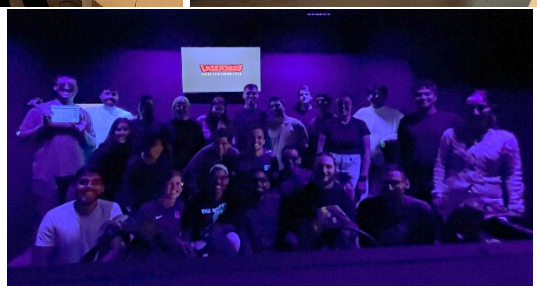
This project has received funding from the European Commission Horizon Europe Programme under Grant Agreement No. 101073014

This training and the final networking session were organized jointly with the MSCA Doctoral Networks METAVISION and METRAMAT, enabling participants to exchange ideas and connect beyond the GAP_NOISE consortium. Fellows presented their research in a concise format and engaged in discussions with peers from related projects, fostering cross-network collaboration. Our fellow Sara (DC8) was awarded some excellent Belgian chocolate for delivering one of the best pitches, as voted by her peers.

On a more informal side, the interaction continued with a laser tag evening, which was a fun way to build stronger relationships across the different consortia.







Conference Participation

GAP_NOISE doctoral candidates continue to actively disseminate their research through participation in leading international conferences.

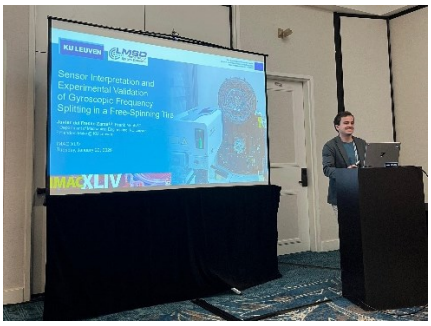
Recently, two fellows represented the project at the SEM IMAC Conference (Society for Experimental Mechanics – International Modal Analysis Conference), one of the most recognized events in the field of structural dynamics and modal analysis. The conference brings together researchers and industry experts from around the world to present advances in vibration analysis, experimental techniques, and mechanical system diagnostics.

During the event:

- Javier del Fresno Zarza (DC3) presented his work on *"Sensor Interpretation and Experimental Validation of Gyroscopic Frequency Splitting in a Free-Spinning Tire"*, focusing on advanced experimental approaches for understanding dynamic behavior in rotating systems.
- Rodrigo Salazar Colunga (DC7) presented *"Integrated Virtual Sensing Method for Real-Time Damage Detection in Mechanical Systems"*, addressing innovative methodologies for structural health monitoring and real-time diagnostics.

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Their contributions highlight the strong involvement of GAP_NOISE in high-level scientific discussions and demonstrate the relevance of the project in advancing state-of-the-art methodologies in noise, vibration, and mechanical system analysis.







Outreach Activities

On 17th February 2026, GAP_NOISE participated in an outreach initiative hosted at Siemens in Leuven, welcoming a delegation of secondary school students from *ITCG Marconi (Italy)*.

The half-day event focused on key topics such as digitalization, artificial intelligence, and electrification. GAP_NOISE fellows Joshua (DC9) and Javier (DC3) presented their PhD research and engaged with the students in an interactive discussion.

The initiative provided students with insights into current research topics and potential career paths in engineering and science. It also highlighted the importance of connecting research projects with society and education.

The event involved fellows from multiple MSCA projects, reflecting the collaborative and interdisciplinary nature of the Marie Skłodowska-Curie programme.







If you want to be updated on the evolution of our Doctoral candidates and their automotive specialisation fields check our webpage and follow us on our social media channels:

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