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ENSEMBLE

ENabling SafE Multi-Brand pLatooning for Europe

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Revision history

Version	Date	Author	Summary of changes	Status
1.0	08/03/2022	Franziska Schmidt (Univ Eiffel)	First version	Prepared
2.0	14/03/2022	Franziska Schmidt (Univ Eiffel)	Second version, after comments from WP Leader	Prepared
3.0	24/03/2022	Marika Hoedemaeker	Coordinator review	Approved

1. EXECUTIVE SUMMARY

1.1. Context and need of a multi brand platooning project

Context

Platooning technology has made significant advances in the last decade, but to achieve the next step towards deployment of truck platooning, an integral multi-brand approach is required. Aiming for Europe-wide deployment of platooning, ‘multi-brand’ solutions are paramount. It is the ambition of ENSEMBLE to realise pre-standards for interoperability between trucks, platoons and logistics solution providers, to speed up actual market pick-up of (sub)system development and implementation and to enable harmonisation of legal frameworks in the member states.

Project scope

The main goal of the ENSEMBLE project is to pave the way for the adoption of multi-brand truck platooning in Europe to improve fuel economy, traffic safety and throughput. This has been demonstrated by driving up to seven differently branded trucks in one (or more) platoon(s) under real world traffic conditions across national borders. During the years, the project goals are:

- Year 1: setting the specifications and developing a reference design with acceptance criteria
- Year 2 and 3: implementing this reference design on the OEM own trucks as well as perform impact assessments with several criteria
- Year 4: focus on testing the multi-brand platoons on test tracks and international public roads

The technical results will be evaluated against the initial requirements. Also, the impact on fuel consumption, drivers and other road users will be established. In the end, all activities within the project aim to accelerate the deployment of multi-brand truck platooning in Europe.

Abstract of this Deliverable

This deliverable lists all relevant bibliographic sources for ENSEMBLE, both existing ones and those published within ENSEMBLE.

2. STATE-OF-THE-ART, LITERATURE REVIEW

The work within ENSEMBLE has used existing literature. For that, institutional access to the Web of Science have been used by the partners, especially the academic ones.

Below are the references that have been used for the work:

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The open points for each scientific domain and the needs for research have been explained in the various deliverables.

3. PUBLICATIONS FROM ENSEMBLE

Several publications about the ENSEMBLE project are still to be expected:

- Journal papers are still in the process of being written and/or reviewed, as the procedure can be quite time consuming.
- Several communications in scientific conferences are still to be expected; indeed, during the last years (2022-2022), scientific conferences were scarce, and moreover employers did not (always) authorize participation. Therefore, communications in conferences will still be done in 2022 and after.

3.1. Journal papers

- Leiva-Padilla P, Blanc J, Salgado A, Hammoum F, Hornych P. Fatigue Life Predictions for a European Pavement Test Section Subjected to Individual and Platoon Truck Configurations. *Transportation Research Record*. January 2022. doi:10.1177/03611981211065430. Available online <https://journals.sagepub.com/doi/pdf/10.1177/03611981211065430>
- Lanaud, E., Ladino, A., & Buisson, C. (2021). First observations about response times and connectivity in a vehicles platooning experiment. *Transport Findings*. Available online <https://hal.archives-ouvertes.fr/hal-03168981>
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Several journal papers are foreseen, as examples one can cite:



- TNO, IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, Overview paper, together with CLEPA, EU ENSEMBLE project: specification of a generic solution for a Platooning Support Function,
- TNO, IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, Overview paper, together with DAIMLER, EU ENSEMBLE project: reference design and implementation of the Platooning Support Function,
- TNO, IEEE Intelligent Vehicles Symposium, Paper, V2X Communication Test Tool for scenario-based assessment of truck platooning, <https://iv2022.com/>

3.2. Conference communications

- Paul Marsac, Juliette Blanc, Olivier Chupin, Thomas Gabet, Ferhat Hammoum, Navneet Garg, Mai Lan Nguyen (2022), Optimization of Truck Platoon Wander Patterns Based on Thermo-Viscoelastic Simulations to Mitigate the Damage Effects on Road Structures, in APT Conference, April 2022, Nantes (France). Available online <https://hal.archives-ouvertes.fr/hal-02942266/document>
- Leiva-Padilla P, Blanc J, Salgado A, Hammoum F, Hornych P. Fatigue Life Predictions for a European Pavement Test Section Subjected to Individual and Platoon Truck Configurations. Presented during TRB Annual meeting 2022. Available online <https://journals.sagepub.com/doi/pdf/10.1177/03611981211065430>
- Ladino, A., Xiao, L., Adjenugwhure, K., Deschle, N., & Klunder, G. (2021). Cross-Platform Simulation Architecture with application to truck platooning impact assessment. ITS World Congress, July, 2021. Available online <https://arxiv.org/ftp/arxiv/papers/2105/2105.08987.pdf>
- Carlos Lujan, Cesar Elpuente, Oriol Flix, Marta Tobar, Mutual recognition for platooning tests in open roads based on ENSEMBLE project. ITS World Congress, July, 2021.
- Simon Ellwanger, Prashanth Dhurjati, Markus Fischer et. Al, Functional-safety considerations for multi-brand truck platooning. ITS World Congress, July, 2021.
- Edoardo Mascacchi, Alessandro Coda, Dehlija Willemsen, Specifications for multi-brand truck platooning, Proceedings of 8th Transport Research Arena TRA 2020, April 27-30, 2020, Helsinki, Finland. Available online: https://platooningensemble.eu/storage/uploads/documents/2020/03/13/TRA2020_01112019_mascalchi.pdf

- Ignacio Lafuentea, Carlos Lujána, Marta Tobara, Estrella Martíneza, Platooning regulatory state of the art based on the H2020 Project: ENSEMBLE, Proceedings of 8th Transport Research Arena TRA 2020, April 27-30, 2020, Helsinki, Finland.
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- Deesh Dileep, Mauro Fusco, Jan Verhaegh, Laurentiu Hetel, Jean-Pierre Richard, Wim Michiels, Achieving an L2 string stable one vehicle look-ahead platoon with heterogeneity in time-delays, European Control Conference 2019. Available online <https://hal.archives-ouvertes.fr/hal-02337916/document>
- Carlos Luján, Ignacio Lafuente, Marta Tobar, Estrella Martínez, Regulatory framework state of the art for truck platooning, ITS world Conference Singapore, Octobre 2019.
- Alessandro Coda, Lina Konstantinopoulou, John Vissers, Specifications for Multi-Brand Truck Platooning, ITS world Conference Singapore, Octobre 2019.
- Lina Konstantinopoulou, Alessandro Coda, John Vissers, Specifications for Multi-Brand Truck Platooning, CLEPA, Presented during ITS Europe Conference Eindhoven, 2-6 June 2019.
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- Luján, Tobar, Martínez, Lafuente, Platooning regulatory state of the art based on the H2020 Project: ENSEMBLE, 2019 JSAE Annual Congress, May 2019. Available online <https://www.jsae.or.jp/2019haru/english/>
- Bernard Jacob, Odile Arbeit de Chalendar, Truck platooning: expected benefits and implementation conditions on highways, Presented at HVTT15, Rotterdam, 2018. Available online: <https://hvtforum.org/wp-content/uploads/2019/11/Jacob-TRUCK-PLATOONING-EXPECTED-BENEFITS-AND-IMPLEMENTATION-CONDITIONS-ON-HIGHWAYS.pdf>
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VTC2018-Fall-27-30 August 2018, Chicago, USA. Available online: ([PDF](#)) [Decision Making for Connected and Automated Vehicles: A Max-Plus Approach \(researchgate.net\)](#)

- Hoedemaeker, M. ENSEMBLE. Presented in the workshop “Transforming Freight Movement through ITS”. ITS WC2018, Copenhagen Sept 17-21). [05187-Copenhagen-2018-post-congress-report_short .pdf \(erticonetwork.com\)](#)
- Hoedemaeker, M. ENSEMBLE. Presented in the workshop “Creating synergies between CEF and H2020, the example of road freight transport”. ITS WC2018, Copenhagen Sept 17-21). [05187-Copenhagen-2018-post-congress-report_short .pdf \(erticonetwork.com\)](#)
- Willemsen, D. ENSEMBLE. Presented at Car2Car Forum Lelystad, November 20, 2018.
- Hoedemaeker, M. ENSEMBLE. Presented at 3rd International VDI Conference Autonomous Trucks, the future of transportation. March 27-28, 2019 Munich Germany. [International VDI Conference - Autonomous Trucks - International VDI Conference - Autonomous Trucks - AVL International Simulation Conference 2019 - avl.com](#)
- Hoedemaeker, M. ENSEMBLE. Presented at H2020 RTR19 conference, 4-5 dec 2019, Brussels
- Hoedemaeker, M. ENSEMBLE. Presented at H2020 RTR21 conference, 29-30 March 2022, Brussels
- Hoedemaeker, M. ENSEMBLE. Presented at SUMMITS’22 – 3rd International Intelligent Transportation Systems Summit, Ankara, Turkey, 09-10 March 2022 <http://www.auszirvesi.org/en>
- Hoedemaeker, M. ENSEMBLE. Presented at ITS WC 11-15 Oct 2021 Hamburg. SIS38: Connected & Automated Driving research cooperation between Europe and Japan. [Welcome to ITS World Congress - itsworldcongress.com](#)
- Hoedemaeker, M. ENSEMBLE. Presented at Sweden4Platooning Closing Conference. 11 March, 2020 Stockholm Sweden. [S4PCC \(google.com\)](#)
- Hoedemaeker, M. Efficient Freight transport by deployment of ICT technologies. TRB session 1421; Game-Changing Technologies for Multimodal Freight Corridor Management: North American, European, and Asian Initiatives. Transportation Research Board 98th Annual Meeting, 13-17 January 2019, Washington D.C. [Browse the Online Programs Archive \(mytrb.org\)](#)
- Hoedemaeker, M. ENSEMBLE. TRB session 1468; Truck Platooning: The Likely First Adopter of Cooperative Automation on Highways. Transportation Research Board 98th Annual Meeting, 13-17 January 2019, Washington D.C.

3.3. Other publications

Paris Match (French newspaper), The publication of a short paper/interview on platooning, with a short reference to ENSEMBLE: <https://www.parismatch.com/Actu/Environnement/Conduite-automatisee-peloton-de-camions-1675336>

