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ENSEMBLE

ENabling SafE Multi-Brand pLatooning for Europe

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1.1. Revision history

Version	Date	Author	Summary of changes	Status
1.0	25/03/2022	Anna Zanetti (Ertico)	Changes	Prepared
2.0	28/03/2022	Milica Zizic	Checked	Revised
3.0	30/03/2022	Marika Hoedemaeker	Coordinator review	Approved



2. EXECUTIVE SUMMARY

2.1. 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.

2.2. 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 were:

- 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 has been established. In the end, all activities within the project aim to accelerate the deployment of multi-brand truck platooning in Europe.

2.3. Abstract of this Deliverable

ENSEMBLE organized its final event in two parts. First, a public demo was organized to show the actual implementation of the multi-brand platooning in real traffic conditions. In this event also the technical results of the project were presented. Second, a final event was organized to present the impact results of the project and discuss the outcomes with European Commission representatives and external stakeholders. Both events were successful.



3.INTRODUCTION

3.1. Background

In the context of the ENSEMBLE project, two final events have been organised. The first part was planned in Spain, in the Barcelona area in September 2021 and a live demonstration of a sevenbrand platoon on the road was organised. Then, high-level speakers and local authorities intervened in the discussion about the actual implementation of truck platooning technology. The second part of the final event was planned on 17 March 2022 in Brussels. On this occasion, experts presented the final results of their impact studies which have been carried out in the final months of the project. In parallel, the technical speeches were alternated with a roundtable with European Commission representatives and with a panel composed of external stakeholder representatives. Considering the COVID-19 restrictions in Spain and Belgium at the time of the two events, both were organised in a hybrid format, thus allowing more participation from invitees.

3.2. Aim

The aim of this report is to describe the two final events that were organized by ENSEMBLE. It gives a summary of the messages and presentations, the statistics from the audience and pictures.

3.3. Structure of this report

Chapter 3 describes the first part of the ENSEMBLE final event which has taken place in Barcelona on 23 September 2021. Then, in Chapter 4, the second part of the final event occurred on 17 March 2022 will be described. Both chapters will describe the type of event, the agenda, information about the audience and pictures of the day.



4. ENSEMBLE PUBLIC DEMO 23-09-2021

This section describes what happened during the ENSEMBLE public demo in the Barcelona area on 23 September 2021. First, the event will be described considering the information inserted in the Press Release sent out to press contacts. Then, the agenda of the event, together with attendance numbers and other communication statistics are described. Finally, some pictures are attached.

4.1. Description

On 23 September 2021, the ENSEMBLE project successfully deployed its multi-brand platooning technology. Seven trucks from the major European truck manufacturers (OEMs), joined and drove together in a fully coordinated platoon on the Spanish public roads. At the ENSEMBLE Public Demonstration event that took place at the Fira Congress Barcelona Hotel, participants experienced a live broadcast of a platooning demonstration on the Spanish highways in real-time, as well as an interesting program of presentations about the technical implementations and further standardization opportunities of platooning.

		Program
	09:30 am	Registration and coffee
With live stream of the plato	10:00 am 10:15 am	Opening speech Introduction to ENSEMBLE M. Hoedemaeker
WILL.	10:30 am	Start of platoon driving
	10:45 am	Live streaming platoon/Q&A Z. Jeftic
Online event starts at noon	12:00 am	Start online event; G. Sarros, EU project officer
Multi-brand platooning	12:15 pm	Multi-brand Specifications and Communication Protocols; E. Mascalchi and J. van Doorn Implementation&achievements D. Willemsen
with 7 trucks	13:30 pm 14:00 pm	Arrival of trucks
ENSEMBLE Public Demo, 23 September 2021	15:00 pm	Standarisation; P. Schmitting/K. Sjöberg Impact of platooning on roads & bridges; F. Schmidt
Hotel Fira, Barcelona, Spain	16:30 pm	Networking & drinks

4.2. Agenda



4.3. Attendants and other statistics

The invitees to the ENSEMBLE public demonstration in Barcelona belonged to several different categories. ENSEMBLE partners, industry representatives, European policymakers, technical experts and engineers and press-related contacts received the invitation to join the hybrid event.

Considering the Covid-19 regulations in place at the time of the demonstration in Spain, the adopted format of the event was hybrid. Invitees were able to take part to the discussion both online and, for a limited number, in person. Most of the ENSEMBLE experts and Consortium partners were able join the public demonstration event in person, counting 70 participants physically present in the venue (See Appendix 1).

4.4. Pictures of the public demo event







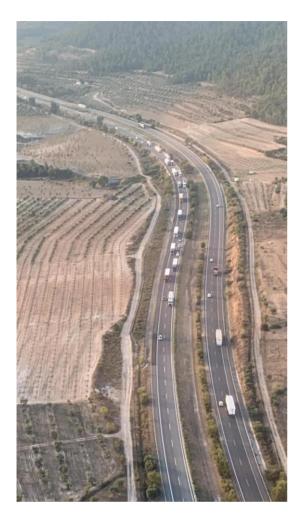






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5. ENSEMBLE FINAL EVENT 17-03-2022

This section describes what happened during the ENSEMBLE final event in the Brussels on 17 March 2022. First, the event will be described considering the information inserted in the Press Release sent out to press contacts. Then, the agenda of the event, together with attendance numbers and other communication statistics are described. Finally, some pictures are attached.

5.1. Description

On 17 March, Thursday, the ENSEMBLE consortium held its final public event in Brussels, marking the end of the 46-month project, which closes officially on 31 March, with discussions of the project's achievements and results. Experts and high-level speakers contributed to the debate about the adoption of multi-brand platooning in Europe at the online event with over 200 invitees connected to follow the livestream.

Joost Vantomme, CEO at ERTICO-ITS Europe, and Marika Hoedemaeker, ENSEMBLE project coordinator, opened the event underlining the insights and the achievements that the ENSEMBLE project delivered in technology and innovation, strengthening the collaboration between the relevant market actors and associations.

Four European Commission representatives, Ewa Ptaszynska, Deputy Head of Unit, Road Transport Unit, DG Move; Patrick Mercier-Handisyde, Senior Policy Officer, Future Urban & Mobility Systems, DG RTD; Antony Lagrange, Team Leader Automated/Connected Vehicles and Safety, DG GROW; and Georgios Sarros, Project Officer, Horizon Europe Transport, CINEA, kicked off the first panel of the day discussing the European perspective on the development of truck platooning technology.

An important high point of the discussion was Antony Lagrange's confirmation that the next logical step for the European Commission would be to recognise ENSEMBLE's harmonised V2V protocol format enabling truck platooning via an implementation measure of the General Vehicle Safety Regulation 2019/2144.

Kristof Rombaut, from the Flemish Road Operator Agency - Agentschap Wegen en Verkeer - acknowledged the importance for Flanders to become a digital road operator in support of connected and automated driving.

The event moved to more technical speeches welcoming the experts from TNO, Université Gustave Eiffel, Applus IDIADA, and all ENSEMBLE partners. First, the impact of multi-brand truck platooning was discussed from different angles starting with Dehlia Willemsen (TNO) who presented the results from real life testing. Then, Nico Deschle (TNO) analysed the impact of multi-brand truck platooning on fuel consumption, Kinjal Bhattacharyya (Université Gustave Eiffel) discussed the impact on traffic flow and Christoph Jallais (Université Gustave Eiffel) closed the morning session with a presentation of the impact on road users.



After the break, the future of multi-brand truck platooning became the main topic of the afternoon sessions. Francois Combes (Université Gustave Eiffel) opened the debate introducing the economic business case of ENSEMBLE, followed by Ernst-Jan van Ark (TNO) who focused on platoon matching. Carlos Lujan (Applus IDIADA) concluded the technical speeches with his work about future regulations.

Future implementations of the platooning technology were the key topic of the panel discussion with external stakeholders. Carin ten Hage successfully moderated the talk between Stefan Deix, Director EUCAR/CCAM Association, David Storer, Director Research Innovation & New Mobility – CLEPA, Steve Phillips, Secretary General, CEDR, Carlo Giro, Manager-EU Goods Transport IRU and Marika Hoedemaeker, ENSEMBLE Project Coordinator.

The live stream can be viewed on the ENSEMBLE website: Events | Platooning Ensemble.

	ENSEMB	BLE FINAL EVENT AGENDA
10:00	Start	Carin ten Hage, executive coach Off the Map
		Opening session
10:05		Joost Vantomme, CEO ERTICO -ITS Europe
10:15	ENSEMBLE intro movie	
10:25	Introduction to ENSEMBLE	Marika Hoedemaeker, TNO, project coordinator
10:40	Europe	an Commission Keynote round table
	Ewa Ptaszynska Patrick Mercier-Handisyde Antony Lagrange Georgios Sarros	Deputy head of unit Directorate-General for Mobility and Transport - DG Move - Road Transport Unit Senior Policy officer, Future Urban & Mobility Systems, DG RTD, European Commission Team Leader Automated/Connected vehicles and Safety DG GROW, European Commission Project manager, Horizon Europe Transport, CINEA, European Commission
11:10	Ambitions of the Flanders region on multi-brand truck platooning	Kristof Rombaut, MOW
	The	Impact of multi-brand platooning

5.2. Agenda



12:20Impact of12:40Q&A set12:40Q&A set13:45Econom14:05Platoon14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika	from real life	Dehlia Willemsen, senior scientist TNO
12:00Impact of12:20Impact of12:20Impact of12:40Q&A set13:45Econom14:05Platoon14:25Q&A set14:30Future of14:50Stefan DDavid StSteve PlCarlo GiMarika		
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12:20Impact of12:40Q&A set12:40Q&A set13:45Econom14:05Platoon14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika	ption	
12:40Q&A set13:45Econom14:05Platoon14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika	on traffic flow	Kinjal Bhattacharyya, Université Gustave Eiffel
13:45Econom14:05Platoon14:25Q&A ses14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika	on other road users	Christoph Jallais, Université Gustave Eiffel
14:05Platoon14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika	ssion	Christoph Jallais, Université Gustave Eiffel
14:05Platoon14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika		
14:05Platoon14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PlCarlo GiMarika	The	future of multi-brand platooning
14:25Q&A set14:30Future r14:50Stefan DDavid StSteve PICarlo GiMarika	nic Business case	Francois Combes, Université Gustave Eiffel
14:30 Future r 14:50 Stefan D David St Steve Pl Carlo Gi Marika	matching	Ernst-Jan van Ark, TNO
14:50 Stefan D David St Steve Pl Carlo Gi Marika	ssion	Ernst-Jan van Ark, TNO
David St Steve Pl Carlo Gi Marika	regulations	Carlos Lujan, APPLUS IDIADA
David St Steve Pl Carlo Gi Marika	Exte	ernal Stakeholder Panel discussion
Steve Pl Carlo Gi Marika	Deix	Director EUCAR / CCAM Association
Carlo Gi Marika	torer	Director Research Innovation & New Mobility - CLEPA
Marika	hillips	Secretary General, CEDR
	iro	Manager - EU Goods Transport IRU
	Lla a da waa alaa a	Project coordinator ENSEMBLE
15:20 ENSEME	Hoedemaeker	
	Hoedemaeker BLE final movie	
15:20 ENSEME		

5.3. Attendants and other statistics

The invitees to the ENSEMBLE final event belonged to several different categories. Industry representatives, European policy makers, technical experts and engineers and press-related contacts received the invitation to join the event online.

The total amount of registered invitees is 310 (updated on the day of the event). In total, 175 unique IP addresses followed the live stream. The average watching time was 01 hour and 32 minutes. Total watching time: 787 hours and 18 minutes. In parallel, the invited high-level speakers, the ENSEMBLE experts and the organisers of the event joined the event in person, counting 26 people who attended the event in person in Brussels (see Appendix 2).

[Public]

The press release, which has been shared with press contacts has been re-proposed by the journals below:

- Transport Media (The Netherlands)
- Diario de transporte (Spain)
- Camion actualidad (Spain)
- Nexotrans (Spain)
- Transporte3 (Spain)
- Kamioni (Bulgaria)
- Logistra (Germany)
- <u>Devirsaati</u> (Turkey)
- <u>VadoeTorno</u> (Italy)

5.4. Pictures from the final event

























6. SUMMARY AND CONCLUSION

This document is a short report about the two ENSEMBLE final events: the first one organised in September 2021 and the second organised in March 2022. In the first event in Barcelona, multibrand truck platooning has become a reality because the major European truck manufacturers (OEMs) joined and drove together in a fully coordinated platoon. On 17 March 2022, experts from the Consortium presented the latest results from the ENSEMBLE impact studies. What they presented are the summaries of the deliverables submitted to the European Commission. Technical speeches alternated firstly the European Commission round table that allowed to debate about the implication of truck platooning technologies on European roadways. Then, a panel composed of external stakeholder representatives discussed the same implications but from truck manufacturers' and road authorities' points of view. Both events engaged not only a technical audience but also policy makers and industry representatives.



APPENDIX 1 – ENSEMBLE FINAL EVENT 23-09-2021

EMMLF signature tite.		ſ	is meeting		
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ENSEMBLE PUBLIC DEMONSTRATION	Surname	Namo	Organisation	Signature	
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APPENDIX 2 – ENSEMBLE FINAL EVENT 17-03-2022

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