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Electric vehicle user-centric design for optimised energy efficiency

GRANT AGREEMENT No. 769902

DOMUS

Design OptiMisation for efficient electric vehicles based on a
USer-centric approach

DOMUS – Deliverable Report

7.5 DOMUS report on dissemination activities including
Impact

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Related WP		
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1 Purpose of the document

1.1 Deviations from the original description in the Grant Agreement Annex 1- Part A

1.1.1 Description of work related to deliverable in GA Annex 1 – Part A

D7.5 will include a comprehensive collection of DOMUS dissemination activities performed throughout the project time-line (electronic newsletter, publications, presentations and all other dissemination activities). The document will include target audience and – wherever possible – resulting impact of the activities.

1.1.2 Time deviations from original planning in GA Annex 1 – Part A

N/A

1.1.3 Content deviations from original planning in GA Annex 1 – Part A

N/A

2 Introduction

During the entire DOMUS project, partners were requested every six months to update on their dissemination activities by filling in forms available on the following links:

1. Dissemination activities

Please fill in the form list with at least one activity you have done for DOMUS project in this period (e.g. Social media posts, attending a conference/workshop (planned or realised), internal meeting/advisory board/scientific board, videos etc.).

You can fill in one activity at a time. If more activities have been done for the project, please fill in the form multiple times.

<https://forms.office.com/Pages/ResponsePage.aspx?id=iXGDZS86DkCcJakFsv7IAzijjioyY79CiiL0VZc1BPdUNUIMNkY1NU5SRk0wQVpCUVUzMFZZSEE4Qy4u>

2. Scientific publications

If you, in cooperation with other partners, have published any (scientific) publications related to the DOMUS project during this period, please fill in the form below. You can fill in one publication at a time. If more publications have been published for the project, please fill in the form multiple times. Please note, you will need to indicate whether it has an Green/Gold Open Access (or not) and if it has been peer reviewed.

<https://forms.office.com/Pages/ResponsePage.aspx?id=iXGDZS86DkCcJakFsv7IAzijjioyY79CiiL0VZc1BPdUREZXR0wzMkNM0E1QM1RTUUNESkVJUFA0OC4u>

The two tables below reflect all the activities done and reported by the Consortium from M1 until M48

2.1 Dissemination activities

Nº	Type of activities	Planned / Realised ?	Main leader	Title	Date (dd/mm/yyyy)	Place	Type of audience*	Size of audience	Countries addressed
1	Website	Realised	16 - UNR	https://www.domus-project.eu/	31/01/2018	Website	All	> 500	World Wide
2	Website: news item release	Realised	COV, CRF, IKA, TEC, TME,VIF	Priority Factors for Estimating Comfort	01/05/2018	Website	All	> 500	World Wide
3	Participation to an event other than a conference or workshop	Realised	1 - IDIADA	EUCAR's Affordability and Competitiveness Programme Board meeting	07/06/2018	Brussels	2	20 to 100	European
4	Flyers	Realised	16 - UNR	DOMUS Project Fyer	08/10/2018	Online	All	> 500	European
5	Participation to an event other than a conference or workshop	Realised	10 - LIST	ILEA - Industrie Luxembourgeoise Des Equipementiers de l'automobile	24/10/2018	Luxembourg	2	20 to 100	European
6	Press release	Realised	16 - UNR	DOMUS Newsletter I	31/10/2018		All	> 500	European

Nº	Type of activities	Planned / Realised ?	Main leader	Title	Date (dd/mm/yyyy)	Place	Type of audience*	Size of audience	Countries addressed
7	Website: news item release	Realised	VIF, TME, CRF,IDI, IKA, VOL, COV,	Design and Virtual Evaluation of Disruptive Cabin Designs for Energy Efficiency and Comfort	01/05/2019	Website	All	> 500	World Wide
8	Organisation of a conference	Realised	15 - VIF	Grazer Symposium Virtual Vehicle	08/05/2019	Graz	2	20 to 100	European
9	Website: news item release	Realised	COV, CRF, IKA, TME,VIF.	Comfort studies – towards a more holistic understanding of comfort	01/07/2019	Website	All	> 500	World Wide
10	Organisation of a Conference	Realised	15 - VIF	International Comfort Congress	29/08/2019	Delft	1	20 to 100	European
11	Participation to a conference	Realised	3 - TME	International Comfort Congress	29-30/08/2019	Delft	1	20 to 100	European
12	Website: news item release	Realised	8-HUT	Thermal Energy Storage (TES) – Subsystem & Pre-Conditioning Strategies	30/10/2019	Website	All	> 500	World Wide
13	Website: news item release	Realised		Permanent anti-fog windshield nanocoating for enhanced driver vision	13/11/2011	Website	All	> 500	World Wide
14	Participation to a conference	Realised	9 - IEE	Presentation: Printed Electronic Solutions for Future Automotive Mobility	14/11/2019	Munich,	1, 2, 5	20 to 100	European
15	Participation to a conference	Realised	9 - IEE	OE-A innovation Forum, Presentation Title: Printed Electronic Solutions for Future Automotive Mobility	14/11/2019	Munich,	1,2,8	20 to 100	World Wide
16	Participation to a conference	Realised	13 - IKA	Aachen Colloquium China: Automobile and Engine Technology	14-15/11/2019	Beijing, China	All	100 - 500	World Wide
17	Participation to an event other than a conference or workshop	Realised	1 - IDIADA	ERTRAC-EGVIA- European Commission European conference Results from road transport research in H2020 projects Draft agenda #H2020RTR19	04-05/12/2019	Brussels	1,2,3,4,5,6	100 - 500	European
18	Participation to an event other than a conference or workshop	Realised	1 - IDIADA	EU CAR Annual conference	6-7/11/2019	Brussels	1,2,5,6	100 - 500	European

Nº	Type of activities	Planned / Realised ?	Main leader	Title	Date (dd/mm/yyyy)	Place	Type of audience*	Size of audience	Countries addressed
19	Participation to a conference	Realised	3 - TME	Aachen Colloquium	7-9/10/2019	Aachen	1,2	20 to 100	European
20	Website: news item release	Realised	IEE, CRF, FCA,HUT,	Novel heating concepts for electrical vehicles for extended drives range	21/12/2019	Website	All	> 500	World Wide
21	Press release	Realised	16 - UNR	DOMUS Newsletter 2	21/12/2019		All	> 500	European
22	Website: news item release	Realised	8-HUT	Insulating Body Panels	15/01/2020	Website	All	> 500	World Wide
23	Publication - in case of scientific publication: go to tab: Publications!	Realised	10 - LIST	SiO2 thin film growth through a pure Atomic Layer Deposition at Room-Temperature	23/04/2020		1,00	> 500	World Wide
24	Website: news item release	Realised	10 - LIST	Enhanced driver vision via power consumption-less technological solution	27/04/2020	Website	All	> 500	World Wide
25	Website: news item release	Realised	COV,CRF	Development of an Efficient Thermal Cabin Model with Computational Fluid Dynamic Simulation	27/04/2020	Website	All	> 500	World Wide
26	Participation to an event other than a conference or workshop	Realised	1 - IDIADA	Webseminar: Scenarios of electro-mobility: cross-fertilization and dissemination of best practices and research within EU policies. EU-funded H2020 STEVE project	28/05/2020	Webinar	1,2.	20 to 100	European
27	Publication - in case of scientific publication: go to tab: Publications!	Realised	13 - IKA	Aachen Colloquium Sustainable Mobility	10/06/2020	Aachen	1,2,6	100 - 500	World Wide
28	Events: Participation in a Conference	Realised	13 - IKA	Aachen Colloquium	06/10/2020	Aachen, Germany	1,2,6	20 to 100	International
29	Website: news item release	Realised	8 - HUTCH	Air vent Ducts	01/12/2020	Website	All	> 500	World Wide
30	Website: news item release	Realised	8 - HUTCH	Improved form-stable phase change materials	01/12/2020	Website	All	> 500	World Wide
31	Participation in activities organized jointly with other H2020 projects	Realised	IDIADA VIF HUT FHB UNR	BioMOTIVE Stakeholder Group Meeting #4 In collaboration with DOMUS Project	23/02/2021	Online	1.	1 to 20	National

Nº	Type of activities	Planned / Realised ?	Main leader	Title	Date (dd/mm/yyyy)	Place	Type of audience*	Size of audience	Countries addressed
32	Participation in activities organized jointly with other H2020 projects	Realised	HUTCH, DNTS,IDI, VIF,FAS_G FHG, IEE,COV, AGC, LIST,UNR	Session-Clustering Workshop QUIET & DOMUS : Breakthrough technologies at component level	03/03/2021	Online	1.	1 to 20	National
33	Events: Oral presentation at a scientific event	Realised	11 - COV	Why Reinforcement Learning is so exciting	30/03/2021	Coventry, UK	1,2,3,5,6	20 to 100	International
34	Website: news item release	Realised	1- IDI	Control Logic	30/03/2021	Website	All	> 500	World Wide
35	Events: Oral presentation at a scientific event	Realised	1 - IDIADA	Simpulse Conference	29/04/2021	Online	1.	1 to 20	International
36	Editor of Special Edition Academic Journal: Frontiers in Future Automation https://www.frontiersin.org/journals/950	Realised	4 - Volvo	Virtual Design and Optimization of Human-Centric Vehicle Environments and Systems	31/07/2021	N/ Online	1,2.	100 - 500	International
37	Press release	Realised	16 - UNR	DOMUS Newsletter 3	12/12/2020	Online	All	> 500	European
38	Press release	Planned	16 - UNR	DOMUS Newsletter 4	04/11/2021	Online	All	> 500	European
39	Hosting an event	Planned	1 - IDI	DOMUS Final Event	22/11/021	Online	All	20 to 100	Worldwide

* 1: Scientific Community (higher education, Research); 2: Industry;3: Civil society;4: General public; 5: Policy makers;6: Medias;7: Investors;8: Customers; 9: Other

2.2 Publications

Type of Publication	DOI (Digital Object Identifier)	Title	Author(s)	Journal	Publisher	Date of publication (dd/mm/yyyy)	URL	Peer Review - YES/NO	Open Access
Article in Journal	10.1016/j.mechatronics.2017.04.010	Reinforcement learning-based thermal comfort control for vehicle cabins	Brusey, James Hintea, Diana Gaura, Elena Beloe, Neil	Mechatronics		01/04/2017	http://linkinghub.elsevier.com/retrieve/pii/S0957415817300570	Yes	Unknown
Article in Journal	10.1016/j.mechatronics.2017.04.010	Reinforcement learning-based thermal comfort control for vehicle cabins	Brusey James, Hintea Diana, Gaura, Elena, Beloe, Neil	Mechatronics	Elsevier	01/04/2017	http://linkinghub.elsevier.com/retrieve/pii/S0957415817300570	Yes	
Article in Journal	10.4271/2019-01-5005.Abstract	An Examination of Comfort and Sensation for Manual and Automatic Controls of the Vehicle HVAC System	Petre, Alexandra Galina Brusey, James Wilkins, Ross	SAE Journal	SEA	15/01/2019	https://www.sae.org/content/2019-01-5005/	Yes	Unknown
Article in Journal	10.4271/2019-01-5005.	An Examination of Comfort and Sensation for Manual and Automatic Controls of the Vehicle HVAC System	Petre Alexandra Galina, Brusey James, Wilkins Ross	SAE Journal	SAE	15/01/2019	https://www.sae.org/content/2019-01-5005/	Yes	
Publication in conference proceeding/workshop	SAEI 2019- Cordoba, SPAIN	Route tracking diagnosis algorithm for EV energy prediction strategies	P. Prieto, E.Trancho, B. Arteta,A. Parra,A. Coupeau,D. Cagigas,E. Ibarra	(Conference proceedings)	SAEI	04/07/2019	http://www.saei.org/edicion19/#/	No	None
Publication in conference proceeding/workshop	N/A	Investigating the effects of two fragrances on comfort in the Automotive context	Alexandre Gentner, Giuliano Gradinati, Carole Favart, Kojo Sarfo Gyamfi, James Brusey	(Conference proceedings)	Faculty of Industrial Design Engineering, Delft University of Technology	27/08/2019	http://www.icc.tudelft.nl/ICC2019/ICC2019_4B1.pdf	No	Yes - Gold OA (no charge, max 8 pages)
Publication in conference proceeding/workshop	N/A	A Holistic Comfort Model for Virtual Cabin Designs	Peter Moertl, Cyril Marx, Norah Neuhuber, Paolo Pretto	(Conference proceedings)	Faculty of Industrial Design Engineering, Delft University of Technology	27/08/2019	http://www.icc.tudelft.nl/ICC2019/ICC2019_2A4.pdf	No	Yes - Gold OA (no charge, max 8 pages)
Publication in conference proceeding/workshop	N/A	Investigating the effects of two fragrances on comfort in the Automotive context	Alexandre Gentner, Giuliano Gradinati, Carole Favart, Kojo Sarfo Gyamfi, James Brusey	Conference of proceedings, Faculty of Industrial Design Engineering, Delft University of Technology	Faculty of Industrial Design Engineering, Delft University of Technology	27/08/2019	http://www.icc.tudelft.nl/ICC2019/ICC2019_4B1.pdf	No	No charge
Publication in conference proceeding/workshop	N/A	(Thermal) Comfort And Its Specific Influencing Factors	Alexandre Gentner, Fabian Prinz, Thomas Hirn, Carole Favart, Gudrun M. I. Voß, Alexander Kirmas, Damian Backes, Stefan Ladwig	(Conference proceedings)	Aachener Kolloquium Fahrzeug- und Motorentechnik GbR	07/10/2019	-	No	No
Publication in conference proceeding/workshop	10.1109/IECON.2019.8927769	Geo-fence based route tracking diagnosis strategy for energy prediction strategies applied to EV	P. Prieto, E.Trancho, B. Arteta,A. Parra,A. Coupeau,D. Cagigas,E. Ibarra	(Conference proceedings)	IEEE. IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society. Lisbon, Portugal, Portugal	14/10/2019	https://ieeexplore.ieee.org/document/8927769/authors#authors	No	None

Type of Publication	DOI (Digital Object Identifier)	Title	Author(s)	Journal	Publisher	Date of publication (dd/mm/yyyy)	URL	Peer Review - YES/NO	Open Access
Publication in conference proceeding/workshop	10.1109/IECON.2019.8927769	Geo-Fence Based Route Tracking Diagnosis Strategy for Energy Prediction Strategies Applied to EV	P. Prieto, E. Trancho, B. Arteta, A. Parra, A. Coupeau, D. Cagigas, E. Ibarra	IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society	IEEE	17/10/2019	https://ieeexplore.ieee.org/abstract/document/8927769	Yes	
Article in Journal	doi:10.3390/ma13153285	Form-Stable Phase Change Materials Based on SEBS and Paraffin: Influence of Molecular Parameters of Styrene-b-(Ethylene-co-Butylene)-b-Styrene on Shape Stability and Retention Behavior	R. Rickert, R. Klein and F. Schönberger	Materials	MDPI	23/07/2020	https://www.mdpi.com/1996-1944/13/15/3285	Yes	yes - 1869.68
Books/Monographs	978-3-030-51044-2	Future Interior Concepts	S. Troesterer, P. Moertl	Springer Briefs	Springer	2020	https://rd.springer.com/book/10.1007/978-3-030-51044-2	No	None
Article in Journal	10.3233/WOR-208009	Investigating the effects of two fragrances on cabin comfort in an automotive environment	Alexandre Gentner, Giuliano Gradinati, Carole Favart, Kojo Sarfo Gyamfi, James Brusey	Work	IOS Press	2021	https://content.iospress.com/articles/work/wor208009	Yes	No
Publication in conference proceeding/workshop	N/A	How 3D modelling decisions can influence the thermal performance predictions within a vehicle cabin environment	Paul Marston	(Conference proceedings) Simpulse day HVAC Simulation for Electric Vehicles	Simpulse	29/04/2021	-	No	No
Article in Journal	https://doi.org/10.1016/j.buildenv.2021.107763	The influence of radiation intensity and wavelength on thermal perception	Thomas Hirn, Alexander Kirmas, Damian Backes, Lutz Eckstein	Building and Environment	Elsevier	June 2021	https://doi.org/10.1016/j.buildenv.2021.107763	Yes	Yes-Green, 24 months
Article in Journal	https://doi.org/10.1016/j.buildenv.2021.107763	Investigating the effects of two fragrances on cabin comfort in an automotive environment	Alexandre Gentner, Giuliano Gradinati, Carole Favart, Kojo Sarfo Gyamfi, James Brusey	Building and Environment	Elsevier	June 2021	https://doi.org/10.1016/j.buildenv.2021.107763	Yes	24 months

3 Acknowledgement

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

Project partners:

#	Partner	Partner Full Name
1	IDIADA	IDIADA AUTOMOTIVE TECHNOLOGY SA
2	CRF	CENTRO RICERCHE FIAT SCPA
3	TME	TOYOTA MOTOR EUROPE
4	Volvo Cars	VOLVO PERSONVAGNAR AB
5	AGC	AGC GLASS EUROPE SA
6	DNTS	DENSO Thermal Systems S.p.A.
7	Faurecia	Faurecia Sièges d'Automobile
8	HUTCH	HUTCHINSON SA
9	IEE	IEE International Electronics & Engineering S.A.
10	LIST	LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY
11	COV	COVENTRY UNIVERSITY
12	Fraunhofer	FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
13	IKA	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN
14	TECNALIA	FUNDACION TECNALIA RESEARCH & INNOVATION
15	VIF	Kompetenzzentrum - Das Virtuelle Fahrzeug, Forschungsgesellschaft mbH
16	UNR	UNIRESEARCH BV
17	FIS	Faurecia Interieur Industrie
19	FCA	Fiat Chrysler Automobiles Italy SPA



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4 Appendix A – Quality Assurance

The following questions should be answered by all reviewers (WP Leader, peer reviewer 1, peer reviewer 2 and the technical coordinator) as part of the Quality Assurance Procedure. Questions answered with NO should be motivated. The author will then make an updated version of the Deliverable. When all reviewers have answered all questions with YES, only then the Deliverable can be submitted to the EC.

NOTE: For public documents this Quality Assurance part will be removed before publication.

Question	WP Leader
	UNR
1. Do you accept this deliverable as it is?	Yes
2. Is the deliverable completely ready (or are any changes required)?	Yes
3. Does this deliverable correspond to the DoW?	Yes
4. Is the Deliverable in line with the DOMUS objectives?	Yes
a. WP Objectives?	Yes
b. Task Objectives?	Yes
5. Is the technical quality sufficient?	Yes