



Optimization of scalaBle rEaltime modeLs and functiOnal testing for e-drive COnceptS

EUROPEAN COMMISSION

Horizon 2020

GV-07-2017

GA # 769506

Deliverable No.	OBELICS D1.4	
Deliverable Title	Metrics to measure objectives	
Deliverable Date	2018-11-30	
Deliverable Type	REPORT	
Dissemination level	Confidential – member only (CO)	
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Approved by	Horst Pfluegl (AVL) – Project Coordinator	2019-02-12
Status	Final	2019-02-19



Publishable Executive Summary

Deliverable D1.4 focuses on the definition of metrics that will allow to determine if and how the project objectives are met by means of the use-cases work. To summarize the objectives, the overall goal of OBELICS is to develop a systematic and comprehensive framework for the design, development and testing of advanced e-powertrains and EVs line-ups, to

- a) reduce development & testing efforts by 40% while
- b) developing scalable, accurate, multi-physics models to improve the efficiency of the e-drivetrain by 20%,
- c) developing virtual integration environment for seamless integration,
- d) increase safety by a factor of 10
- e) demonstrate expected impacts on the basis of 17 use cases and to
- f) optimize existing testing procedures and contribute to the international standardization.

All activities towards the achievement of the above-mentioned objectives are mainly use case driven and as such, developments within each use case contribute to the achievement of one or more overall project targets. This is especially true for objectives a) to d). For Target e) and f) the contributions are measured differently, since e) is directly depending on use-case demonstrations and f) will be shown extra with a standardization deliverable.

The focus of this deliverable D1.4 is to describe the selected approach towards the development of the metrics and the related measurement that will allow to determine if the overall project goals are met.



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 no.	Partner organisation name	Short Name
1	AVL List GmbH	AVL
2	Centro Recherche Fiat SCpA	CRF
3	FORD Otomotiv Sanayi Anonim sirketi	FO
4	Renault Trucks SAS	RT-SAS
5	AVL Software and Functions GmbH	AVL-SFR
6	Robert Bosch GmbH	Bosch
7	SIEMENS INDUSTRY SOFTWARE NV	SIE-NV
8	SIEMENS Industry Software SAS	SIE-SAS
9	Uniresearch BV	UNR
10	Valeo Equipements Electroniques Moteurs	Valeo
11	Commissariat à l'Énergie Atomique et aux Energies Alternatives	CEA
12	LBF Fraunhofer	FhG-LBF
13	FH Joanneum Gesellschaft M.B.H.	FHJ
14	National Institute of Chemistry	NIC
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 769506.

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