



Powerful **A**dvanced **N**-Level **D**igital **A**rchitecture
for models of electrified vehicles and their components

<https://project-panda.eu/>

Research Innovation Action

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Virtual product development and production of
all types of electrified vehicles and components

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Publishable Executive Summary

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The PANDA project is extending the virtual simulation of electrified vehicles with the Energetic Macroscopic Representation (EMR) methodology [PANDA 2020], also having them organized by a modern application in a Cloud Storage Infrastructure.

Under the constraints of the project, the services of an existing vendor have been employed to allow our partners to develop and test vehicle models in the cloud. To make the move from real to virtual testing as easy as possible, a file sharing application was created to serve the end-users of this methodology.

Contrasting solutions which already exist on the market, the PANDA solution is tailor-made to perfectly fit in the methodology described by the initial outline. The burden of learning to use new programs is kept to a minimum, as the PANDA solution is comprised of a single application which mitigates the challenges created by this novel mode of work.

Additionally, the provided cloud storage is structured using folders, making natural and universal the further task of organizing the developed models under a tree.

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Table 1: Project Partners

#	Type	Partner	Partner Full Name
1	UNIV	ULille	Université de Lille
2	IND	SISW	Siemens Industry Software SRL
3	UNIV	VUB	Vrije Universiteit Brussels
4	IND	VEEM	VALEO Equipement Electriques Moteur SAS
5	UNIV	UTCN	Universitatea Tehnica Cluj Napoca
6	SME	TY	Tajfun HIL (Typhoon HIL)
8	UNIV	UBFC	Université Bourgogne Franche-Comté
9	SME	UNR	Uniresearch BV
10	IND	RTR	Renault Technologie Roumanie
11	SME	Bluways	BlueWays International bva
12	IND	TUV-BT	TUV SUD Battery GmbH



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