



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

The objective of the project PANDA is to provide a disruptive and open access model organization for an easy interconnection and change of models in the development process of EVs. As one key point of the project is the seamless link between model and testing it is important to ensure that the scenarios on which models are build are in coherence with real driving scenarios. After an analysis of existing driving cycles and a positioning of the PANDA project with a versatile approach using different types of vehicle application, vehicle specific data and their interconnection are studied. It shows that especially battery electric vehicles are quite sensitive to test conditions. The choice of the test data will therefore limit the versatility of data models. An example analysis of the battery system used within the PANDA project sums up the tested conditions. In conclusion, the testing scenarios have to be chosen in coherence between vehicle application and data-based model development.

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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)
7	IND	TUV	TUV SUD AG
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 SUED Battery GmbH



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