



UPSCALING PRODUCT DEVELOPMENT SIMULATION CAPABILITIES EXPLOITING AI FOR ELECTRIC VEHICLES

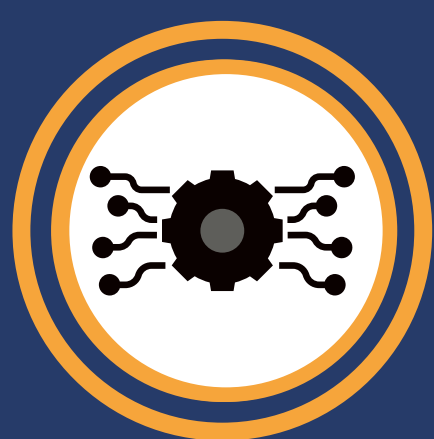
UPSCALE is the first EU project with the specific goal of integrating AI with traditional physics-based Computer Aided Engineering to reduce the development time and increase the performance of electric vehicles (EVs).

Nowadays High-Performance Computing (**HPC**) and Computer Aided Engineering (**CAE**) play a decisive role in vehicle development processes.

The two most **HPC** and **CAE** intensive parts of the development of EVs are vehicle aero-thermal and vehicle crash performance, by implementing AI these two areas will be improved generating a 20% reduction of the vehicle development time.



PROJECT GOALS AND MISSION



ENHANCE THE PERFORMANCE
OF EXISTING CAE TOOLS FOR
CRASH AND AERODYNAMICS BY
MACHINE LEARNING



IMPLEMENT AI FOR
AERODYNAMIC DESIGN



IMPLEMENT AI FOR
CRASH DESIGN



COMPUTER-AIDED
ENGINEERING PROCESS
ACCELERATION



20% REDUCTION OF
THE VEHICLE
DEVELOPMENT TIME



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