



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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