

ViVID workstream objectives



Virtual engineering

Implementation and execution of virtual engineering test programme.



ViVID programme management

Implementation of PM good practice to guarantee project success and integration into the Transit program.



Simulation

Enhancement of the performance of existing CAE models and creation of novel CAE methods and models to fundamentally improve their co-simulation capabilities, the time-to-simulate and the accuracy of the results for their efficient use in the product development. This will be tested on specifically identified usecases.



XiL – X in the Loop

Integration of Powertrain X in the Loop Methodology into a commercial vehicle electrical architecture, providing the ability to drive the system under various simulated scenario representative of real world conditions for early attribute validation.



Simulator

Creation and implementation of a framework for the assessment of product alternatives and new features for full-scale Commercial Vehicle using the Simulator technology to drastically accelerate time-to-market leveraging the output from Simulation an XiL.



Model build process

Definition and implementation of the MBSE environment within Ford, including model supply and build process for the simulated environment



Skills and training

Definition of a framework for the upskilling of existing workforces and integration of novel research streams in taught modules.

