Our skills and our simulation capabilities
> Expertise in simulation and control with all softwares of the domain (Matlab/Simulink, AMESim, GT Power...)
> Access to advanced models of IFP Energies nouvelles
> xMOD Simulation platform

Projects
> 0D/1D modelling from subsystem to whole powertrain
> Development of simulation platforms from MiL to HiL
> Integration, evaluation and validation of control strategies and energy supervision
> Pre-sizing of engine architectures
> Engine tuning & calibration

Virtual Powertrain: a unique expertise on simulation-based powertrain development

Qualified teams on your sites
our expertise for your projects

Operation of your own test cells
> Engine set-up / instrumentation
> Mechanical & electro-technical operation
> Engine test beds supervision (Energetic and mechanical development)
> Chassis dyno testing
> Test cells commissioning (automation, integration, parametrization)
> Test cells maintenance
> Coordination, technical support, training
> Mileage accumulation on tracks and roads

Projects
> Gazoline and Diesel calibration
> Engine management system control
> Reliability / safety validation
> Architecture development (engines, gearboxes, components)
> Simulation-computation
> Project management
> Quality
> Oil & lubricants expertise

For more than 20 years, the partner of OEMs and equipment suppliers
> Engineering of thermal, hybrid and electric powertrains
> Unique expertise in R&D: member of IFP Group Powertrain Technologies

Powertrain development in our technical centers:
from design to industrialization

Our testing equipments
> 28 engine test beds
> 1 chassis dyno emissions - performances
4WD, climatic (-7°C/+45°C)
> 1 chassis dyno for mileage accumulation
> 2 climatic cells
> 2 gearbox test cells
> Battery test cells (2 packs and 12 cells)
> 1 HIL test bed (ECU validation)
> Set of various component test beds

Projects
> Mechanical architecture development
> Calibration of engines, vehicles and after-treatment systems

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