

Honda uses Simcenter solutions and services to solve hybrid engine restart vibrations

SIEMENS
Ingenuity for life



Simcenter Engineering services uses testing and simulation tools to help minimize noise and vibration

Integrated
1D, 3D CAE
and **test**

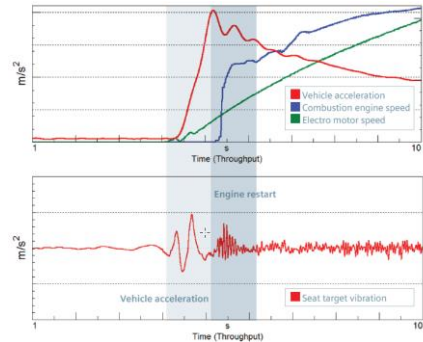


Honda R&D

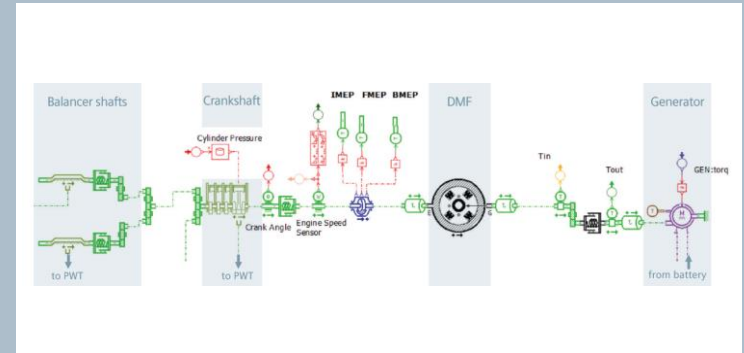
Resolving NVH of hybrid vehicles with Simcenter solutions



Predicting the entire powertrain restart process



Vehicle acceleration maneuver analysis in hybrid mode



Hybrid driveline torsional modeling to study ICE restart vibrations

- Development of a new methodology that allows accurate prediction of powertrain behavior during idling restart
- Integration of model-based development throughout Honda departments
- Better prediction of time to market through better control of the development cycle

- Develop a solid, long-term partnership for collaboration and co-development
- Use testing and processing hardware and software for data acquisition, model development, analysis and validation

“Thanks to our collaboration with Simcenter Engineering, our development cycle time is under better control.”

Satoshi Watanabe, Model-Based Development for Powertrain NVH

[YouTube movie](#)