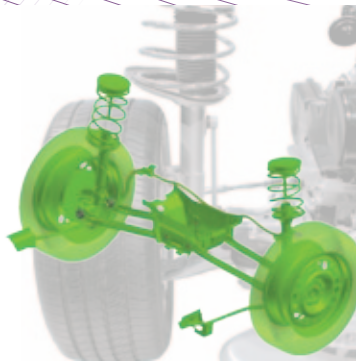


# Virtual Performance Solution

Optimizing Product Performance with Simulation



Virtual Performance Solution helps improve the efficiency of your Computer Aided Engineering workflows during product development.

- Gain time, flexibility, quality and lower costs while accelerating your development cycle.
- Leverage concurrent engineering and optimize design variants.
- Account for manufacturing conditions to improve the accuracy and reliability of your results.

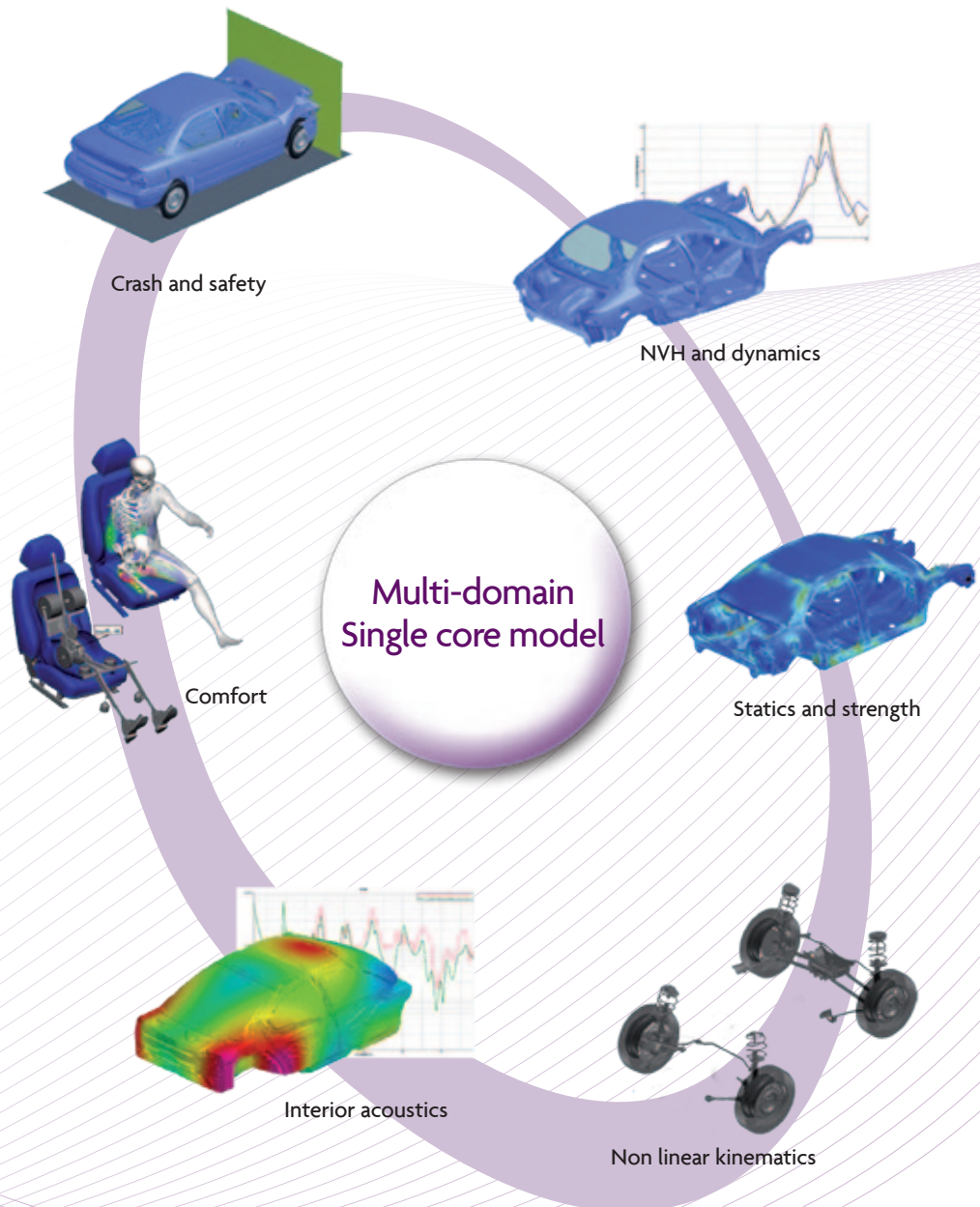
*“Using a single core model allows us to perform faster design changes, giving us a competitive advantage. Furthermore, the calculation with the Implicit module is two times faster and uses less memory.”*

Eberhard Keim, CAE Department Manager, EDAG Ingolstadt.

*“Virtual Performance Solution allows cost and time savings in our Product Development Cycle.”*

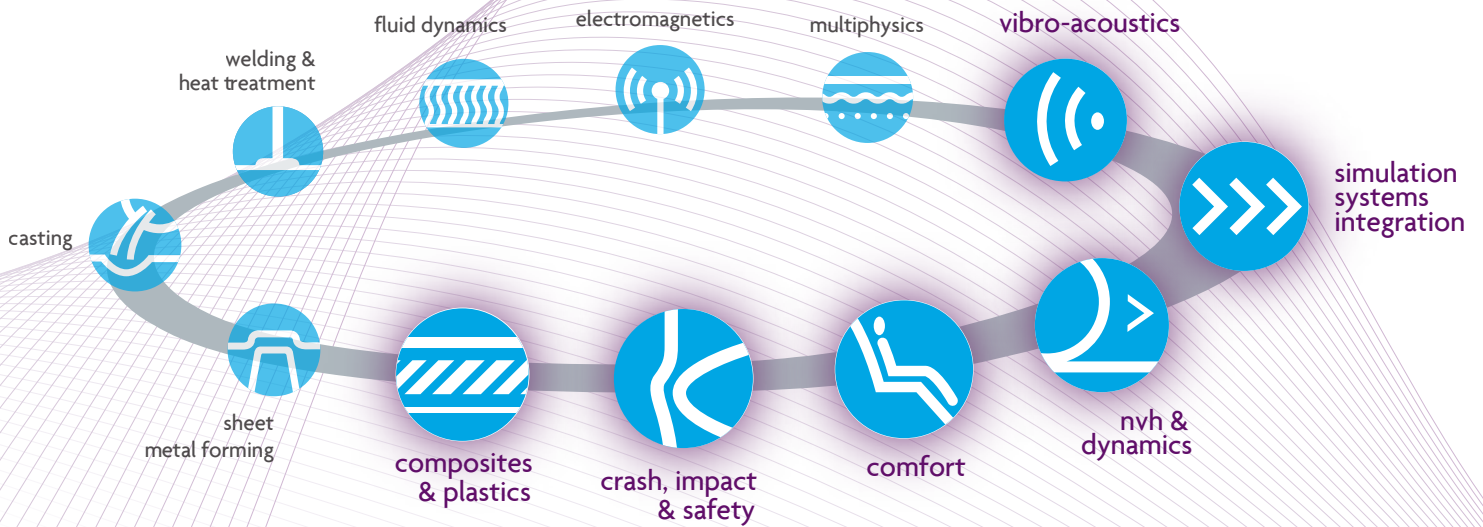
Mr. Kazuhiro Obayashi, Integrated CAE Department Manager, NISSAN MOTOR CO. LTD.

## Optimize your product development cycle thanks to multi-domain, concurrent engineering using a single core model.



### BENEFITS

- Master design iterations with a single core model and cut cost and time by saving model translation tasks between crash, safety, comfort, statics, dynamics, NVH, interior acoustics and durability.
- Reduce design iterations and optimize safety margins by improving quality and predictability thanks to contacts, nonlinearities, and manufacturing history handling.
- Decrease IT and training costs using one single scalable solution with fewer solvers and GUI installations. Reduce specialized IT (perform NVH simulation on the crash cluster).



## CUSTOMER REFERENCES

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For more information on ESI's Virtual Performance Solution, please visit:

[www.esi-group.com/vps](http://www.esi-group.com/vps)

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ABOUT ESI GROUP

ESI is a pioneer and world-leading provider in virtual prototyping that takes into account the physics of materials. ESI has developed an extensive suite of coherent, industry-oriented applications to realistically simulate a product's behavior during testing, to fine-tune manufacturing processes in accordance with desired product performance, and to evaluate the environment's impact on performance. ESI's solutions fit into a single collaborative and open environment for End-to-End Virtual Prototyping, thus eliminating the need for physical prototypes during product development. The company employs over 800 high-level specialists worldwide covering more than 30 countries.



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