# Noesis Solutions and Maplesoft: **Accelerate your Digital Engineering Journey**







Inject innovation during the early design stages



Gain a competitive advantage



Optimize your product development



**Create better products** 



Transform your engineering workflow



Save resource time and costs

Transform Your Product Development Journey **Build Better Products** 



# Noesis Solutions and Maplesoft Workflow: **Automotive Example**



#### From Concept to Operation:

#### Verification Against Design Constraints

- Integration of constraints from system models.
- Extract critical engineering data from information silos.
- Generate reliable synthetic datasets.
- Automate V&V processes.

#### **Product Development**

- Turn knowledge into actionable insights.
- Optimize & automate engineering workflows.
- Extend decision making using collaboration tools across stakeholders.

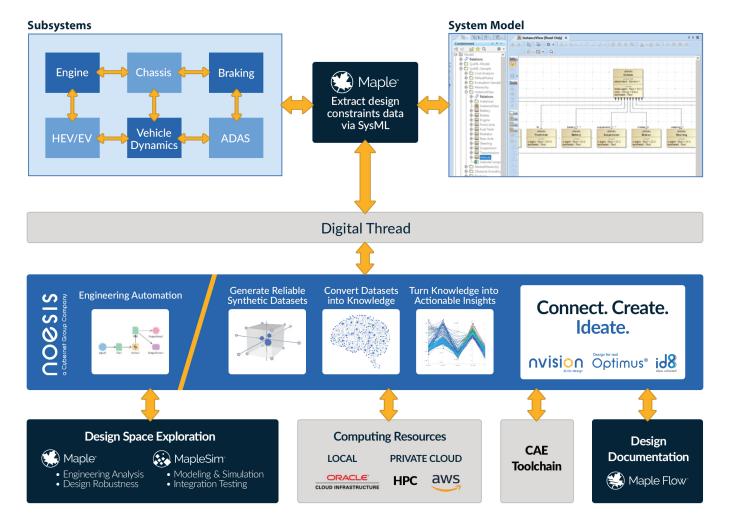
#### **Early Concept Design**

- Convert datasets into knowledge.
- Evaluate early design concepts using modeling and simulation.
- Add design robustness.
- Connect to existing CAE toolchains.

#### **Virtual Operation**

- Streamline system integration.
- Try out drive cycle & duty cycle scenarios.
- Validate operating conditions using virtual prototypes.

This example shows the optimization approach for the product development workflow of a new automotive system. The end result is a better product under reduced timelines, with data-led decisions, collaborating widely across the organization.



## Noesis Solutions and Maplesoft: **Products Included in the Solution**



Combining solutions from both companies creates a complementary set of tools designed to ease your digitization journey right from early stages of product development, saving you valuable time & resources with your go-to-market strategy.



### Design for real Optimus®

- Automation and optimization tool.
- Effective implementation of an Objectives Driven Engineering process.
- Powerful range of capabilities for Engineering Process Integration, Design Space Exploration & Optimization, and Robustness & Reliability.



- A cloud-native, open & customizable platform.
- Streamlines engineering design processes in a collaborative environment.
- Empowers organizations to take full control of the engineering design process.



- Open, solver-agnostic modeling tool.
- Reduce design time by leveraging existing knowledge.
- Perform real time what-if studies and decision making.

### noesis Engineering Services

- Personalized, Customer-centric Consultancy and Support.
- Support in making frugal use of data and IT resources.





- Useful for modeling and analyzing complex systems.
- Efficient data management.
- Equation solvers and scripting.



- High performance modeling and simulation tool.
- Multi Domain modeling capabilities.
- Real time behavior simulation.



- Easier design documentation.
- Help calculate and solve equations.
- Features such as fast solvers, built-in units tracking, flexible plots, and more.



- Professional Services to fast-track your projects.
- Support for creating initial models and connecting complex engineering datasets.



### noess a Cybernet Group Company



For more information visit our **Solution Website** or email **info@noesissolutions.com** 

