

# invenio



## VIRTUAL TECHNOLOGIES (VT)

**WE ARE EXPERTS FOR DIGITAL PROTOTYPES**

**WE KNOW HOW TO ANALYSE AND OPTIMISE PROCESSES**

**WE SPEAK THE USER'S LANGUAGE AND UNDERSTAND YOUR CONCERNS**

# VIRTUAL PRODUCTS ARE OUR PASSION

## THAT IS WHAT WE ARE

invenio Virtual Technologies is the leading provider in virtual product development.

We are the strategic partner for consistent digital prototypes. With our expertise in service, consulting and software-technology we provide support along the entire process chain from design, development to maintenance and sales.

## OUR RANGE OF SERVICES

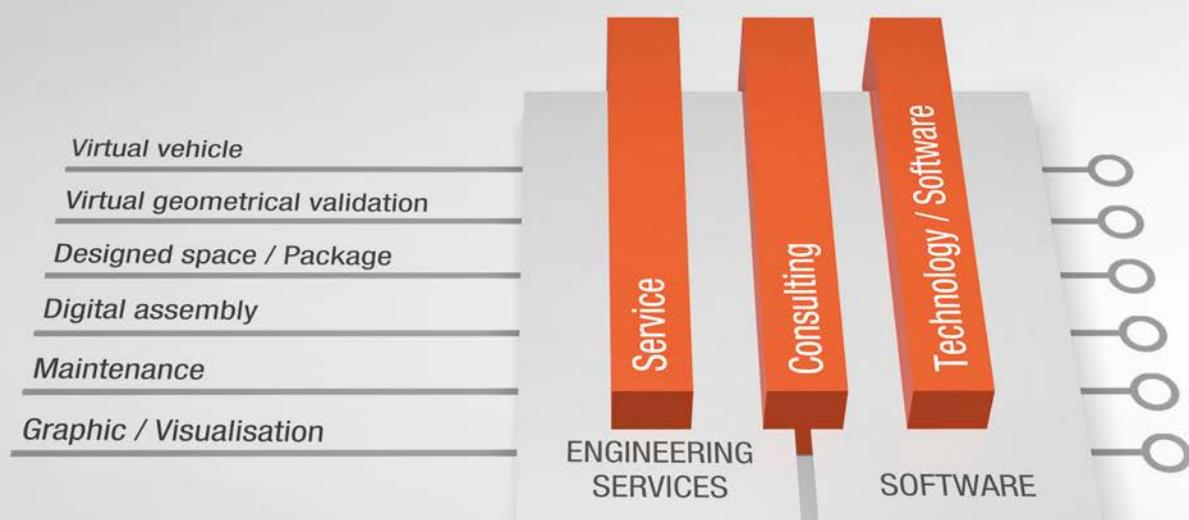
Our unique business model consisting of service, consulting and technology is based on over 20 years of experience in digital product development.

Everything from one source. Experienced engineers and technicians work in the service area. The processes are analysed by consultants with many years of practical experience and technology know-how. Our high-end software is used to implement optimisation potentials.

## YOUR BENEFITS

You are gaining a reliable partner who focuses on your objectives.

We provide service in the highest quality, identify potentials and ensure optimum processes with efficient technology.



# SERVICE. SOFTWARE. CONSULTING.

## DEVELOPMENT OF VIRTUAL PRODUCTS

We take over the design data and ensure that the virtual products are available in the PDM system in a consistent form.

*Your benefit* is a clean data basis, consistent product structures, correctly positioned models and accessible status of the development progress at any time.

## VIRTUAL GEOMETRICAL VALIDATION

We review the digital product for geometric consistency. We identify collisions and distance violations, assess problem areas and support you in finding the solution.

*Your benefit* is a collision-free product, strict compliance of distances and an up-to-date overview on the current level of readiness.

## DESIGNED SPACE / PACKAGE

We ensure that all components are installed in the right place and take into account the interfaces between the assemblies e. g. between the engine and the chassis.

*Your benefit* includes clean interfaces and a consistent overall product with regard to statics and dynamics.

## DIGITAL ASSEMBLY

We perform virtual installations and check if the planned installation order can be maintained.

*Your benefit* is early and reliable planning and a trouble-free start of production.

## MAINTENANCE

We simulate service and warranty processes simultaneously with development and ensure that commissioning concerns are taken into account from the start.

*Your benefit* is a service-appropriate product, reduced maintenance effort and low warranty costs.

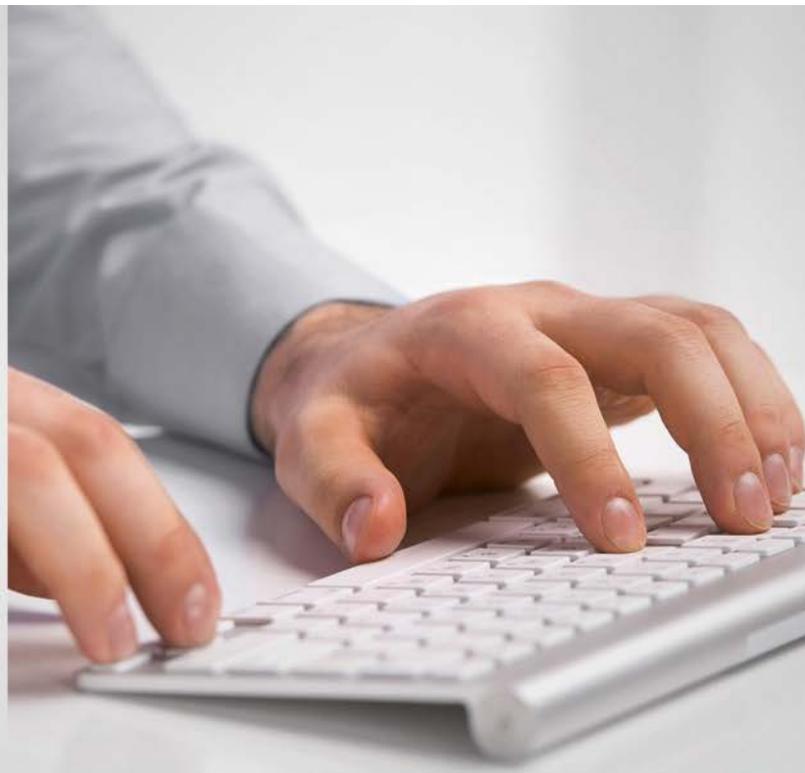
## GRAPHIC / VISUALISATION

We visualise technical products based on development data – for impressive presentations, spare parts catalogues, sales brochures etc.

*Your benefits* include minimal costs, the highest quality and short term available results – partly automated.

## THE RESULT OF OUR WORK

We ensure maximum transparency through the complete development process. The quality of the product structure and the data is available on a daily basis. We supply ideal templates for decision-making with reliable results and impressive presentations. Based on digital data, we can make reliable statements on product readiness and service friendliness. And for the marketing of your product we provide photo-realistic images.



## YOUR CONTACT AT INVENIO

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## REFERENCES (EXTRACT)

AUDI | AVL

BMW | BOEHRINGER INGELHEIM | BOMBARDIER | BORGWARNER

BOSCH | BRAUN | BRUKER | BSH

CARIAD | CONTINENTAL | CWS-BOCO

DAIMLER TRUCK | DANA | DB | DENTSPLY SIRONA | DEUTZ | DÜRR DENTAL

EBERSPÄCHER

FORD | FRESENIUS | FREUDENBERG

GARDNER DENVER | GETINGE | GH INDUKTION | GKN | GM | GRUPO ANTOLIN

HATZ | HAUNI | HEIDELBERG | HOERBIGER | HYUNDAI

JUNGHEINRICH

KESSEBÖHMER | KRAUSSMAFFEI | KROENERT | KUKA

LEAR | LEIFHEIT | LEONI | LÜRSSEN WERFT

MAGNA | MAHLE | MAN | MANNHUMMEL | MENTOR | MERCEDES BENZ | MICHELIN | MITSUBISHI

NEMAK

OHM & HÄNER

PORSCHE

RENK | ROCHE | ROLLS ROYCE

SANOVI-AVENTIS | SCHAEFFLER | SCHENCK | SCHEUGENPFLUG | SCHOTT | SCHÜLE  
SEW EURODRIVE | SIEMENS | SMITHS | SMS | SONOTRONIC NAGEL | SPIEGELBERG  
STELLANTIS | SULZER | SUSS

TBH | TENNECO | TI | TOMRA | TRUMPF

VAILLANT | VALEO | VITESCO | VOLKSWAGEN | VONROLL AUTOMOTIVE

WEBASTO | WEIDPLAS

YANFENG | YAZAKI

ZF