



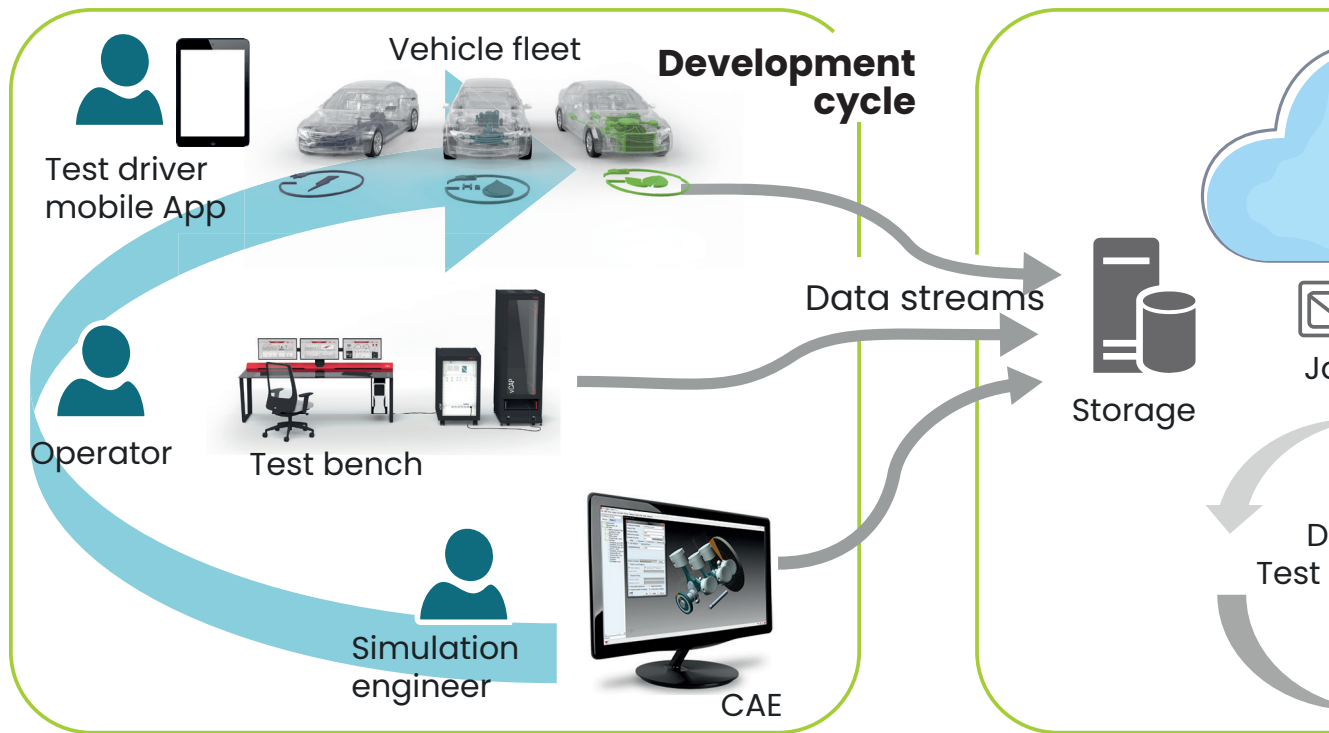
Simulate, Automate, Qualify

Software Development Services

Tailored software solutions
for today's challenges



Tailored Software Solutions that Fit Into Your Ecosystem and Solve Today's Challenges

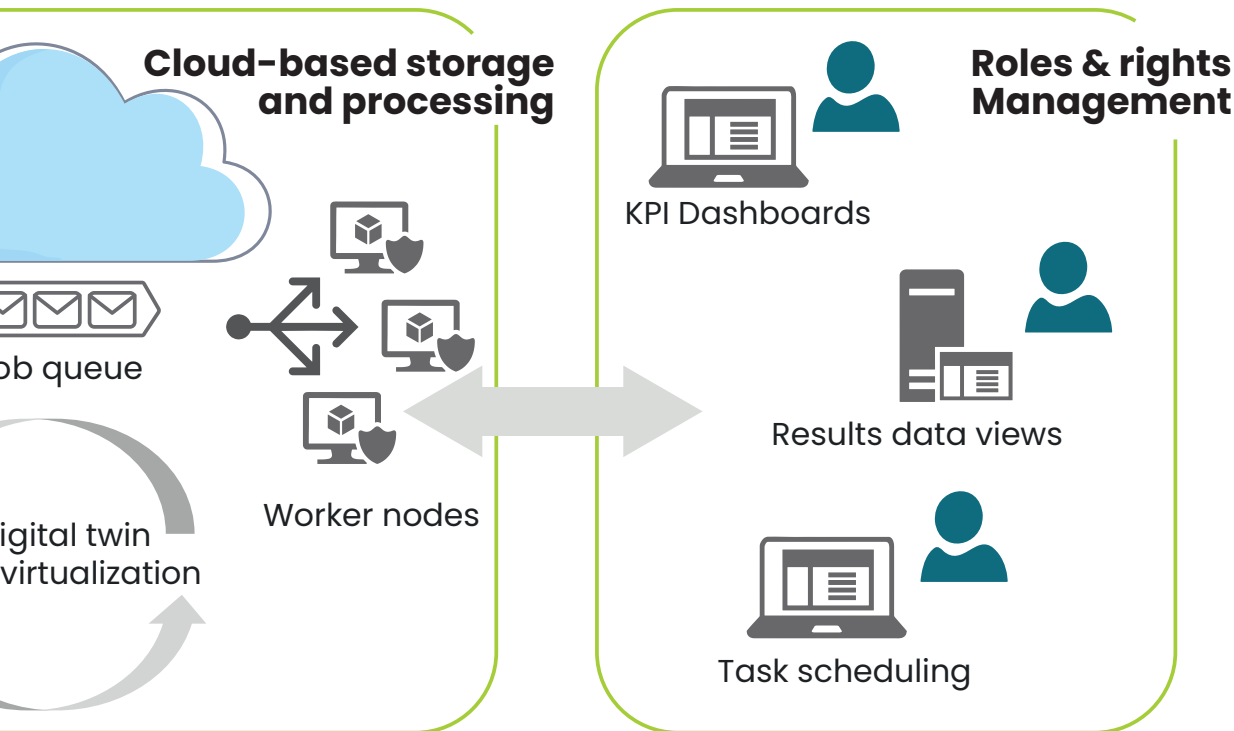


Our customers benefit from the tailored software solutions for process automation, data mining, statistics, charting and numerical optimization. Our software development services combine our broad technical and mathematical expertise with excellence in software engineering for optimal technical software solutions. Efficient and high quality software development is guaranteed by our certified processes according to CMMI and Automotive SPICE. Agile development principles based on SCRUM ensure a continuous and close link between requirements and working results.

The importance of Development & Operations

Successful implementation of a software solution into an existing organization requires a close cooperation between the development team and IT department from the start. DevOps – connected Development

and Operations – is the key. Take advantage of our experience in developing and launching complex software solutions into an Enterprise ecosystem.



End-to-End Service

- We develop software solutions on demand and according to your requirements.
- You get a solution tailored to your specific needs (Functionalities, GUI) and that fits into your environment (existing toolchain, available data sources).
- Our team of experienced developers selects the best from a wide range of programming languages and software ecosystems to fulfill your needs.
- We support you with role out, hypercare and support services

Highlights

- Enhance Your Digital Experience with Efficient and Eco-Friendly Solutions.
- Simplify Your Life by Bringing Data Management and Cloud Technologies Together.
- Our Web and Mobile Applications are Designed Just for You, Providing Tailored Solutions to Meet Your Needs.

Typical Use Cases

Fleet Testing App

How to plan, execute and analyse test drives efficiently?



Key benefits of ALEX

ALEX – Advanced Logbook Expert is a mobile app that fully digitalizes the test drive process.

Before, the test drive procedure was error-prone and time-consuming due to decentralized data entries – the test driver had to manually enter all necessary information on a notebook before and after the test drive.

The development of ALEX aimed at using a central database during all stages of the test drive process reducing entry errors, duplicates and presenting the test driver with all the necessary information in one simple mobile app.

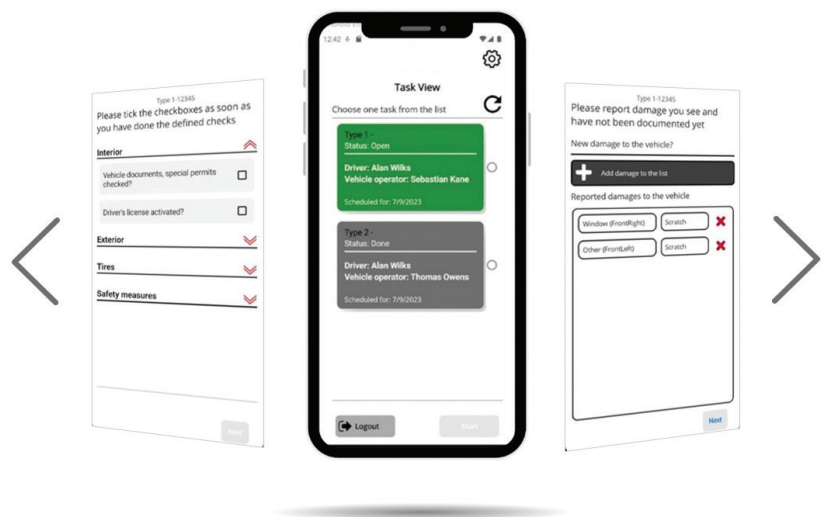
The final solution developed by our specialists consists of a fleet management desktop application, a database, and the mobile app itself.

All parameters like drivers, vehicles, and test drive tasks are entered into the desktop application and saved in a database.

ALEX can then retrieve all relevant information from the database. Likewise, the results of the test drive are saved back to the database.

ALEX includes the following functionalities

- Easy to fill out check list (including for example mileage, damages, fuel level, tire tread depth, etc.)
- Documentation of events with time stamps and GPS coordinates
- Recording of GPS data in GPX format, which can be used across multiple platforms.
- Capturing of images to document damages, documents (e.g. refueling bills) and event logs
- Audio recording that is automatically transcribed (speech to text)
- Retrieval of current parking lot of the test vehicle



Test Field Data Management

How to organize data from test centers around the globe?

The customer story

Our customer is an OEM who's engines are validated by various external partners

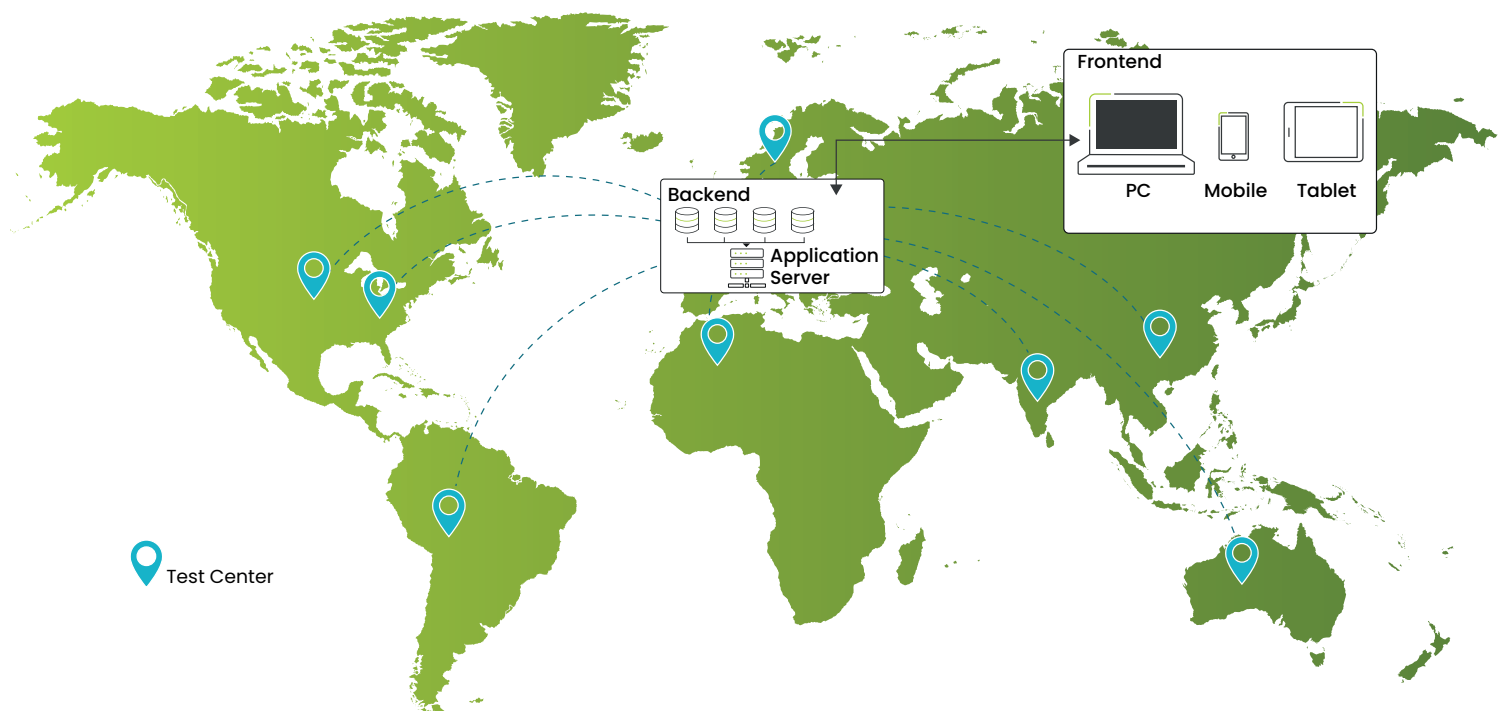
- Different companies at different locations carry out tests using various testbench automatization systems
- Distributing the latest and correct state of ECU datasets to the different engines is a challenge
- Parts of the data is regarded as core know how and therefore confidential, but can today not easily be separated from the data required to carry out the tests
- Collection of test results data is a challenge in terms of a common storage location and formatting rules

The added value we provide

Holistic data management

- Connecting distributed locations to a central service via gateways
- Interfaces to all testbench automation systems
- Web-based user frontend accessible from different end user devices
- Data storage in centralized databases
- Distinction between accessible and confidential data

Data management solution for a distributed test field



From Vehicle to Cloud

How to gather, process and visualize data just in time?

The solution allows streaming any kind of vehicle data into the cloud for visualization in dashboards as well as post processing operations.

Data can be reviewed and analyzed immediately and even during the ongoing test drive.

This allows fast decision making and test plan adaptations.

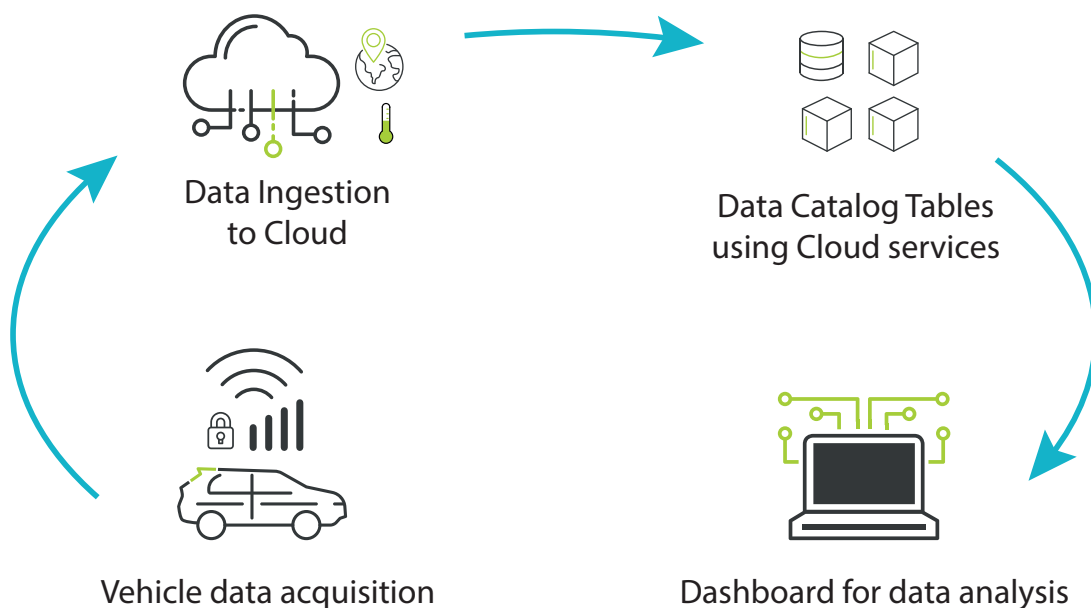
All OBD signals + GPS information can be used.

Different cloud services can be connected.

Scalable resources in the cloud allow easily collecting data from a whole vehicle fleet as well as for lots of test drives.



Data flow



ENORISE your Partner in Digital Transformation

Software projects can be realized based on the specific customer process model and will typically contain elements from the following set



Selected key results

- Improved Efficiency and Productivity
- Increased Agility and Adaptability
- Cost Reduction
- Data-Driven Decision-Making
- Competitive Advantage
- Better Security and Compliance
- Promotes company-wide standards
- Higher Business Resilience

Selected Use Cases we provided Software Solutions for:



Simulation
Data Management
and Reporting



Laboratory Information
Management System



Benchmarking
Data Management



Distributed Test Field
Data Management



Test Driver Logbook App



Smart Grid Load
Balancing Forecast



Vehicle Fleet Test
Data Collection and
Postprocessing



Automatized File Conversion
and Transfer



Test Cell Utilization
Planning and Forecast



Automatized Dataset Validation



Simulate, Automate, Qualify



**Are you interested in innovative,
pioneering software solutions?**

Contact us!

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