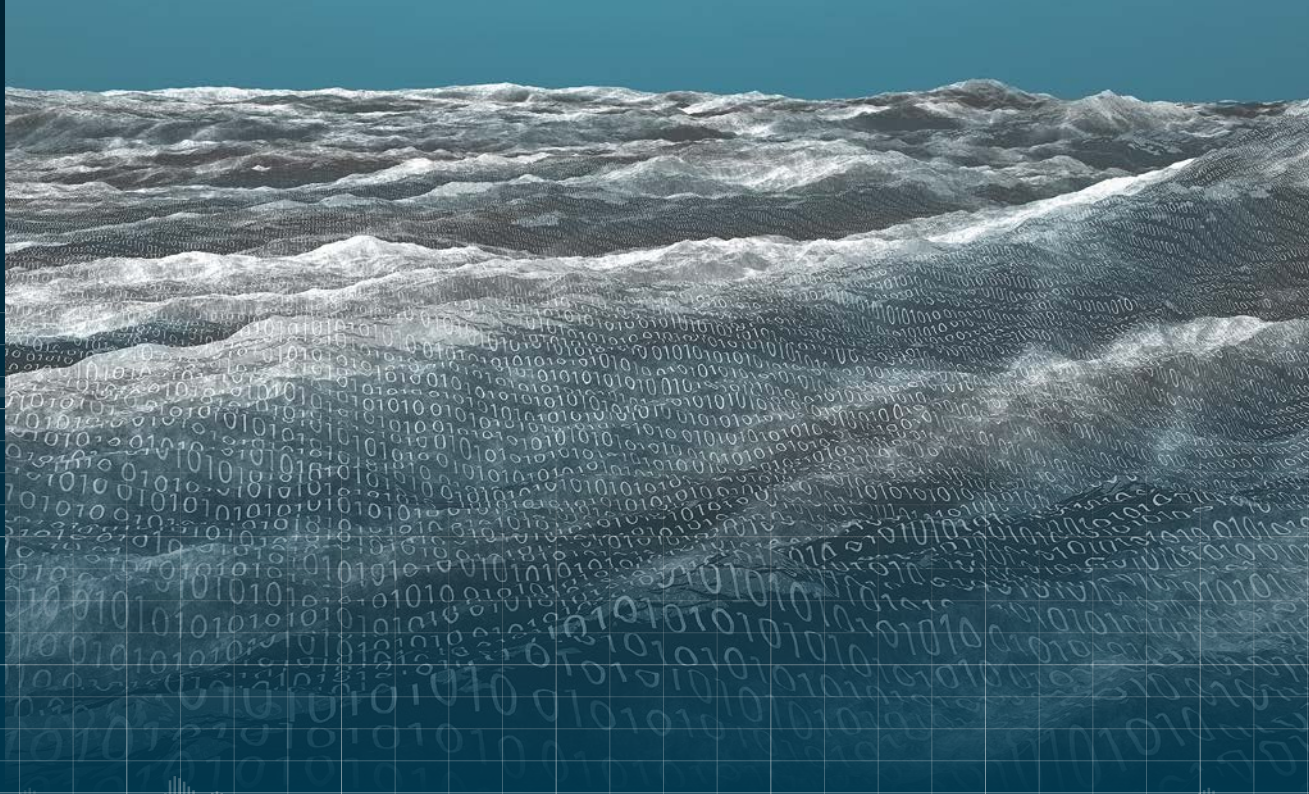


AVL/NORCOM DATA INTELLIGENCE PORTFOLIO

Leveraging big data for the automotive industry



Lost in a sea of data?

During the development, verification and validation phases in the automotive industry, huge amounts of data are generated from road testing, vehicle and component testbeds or from simulations. The measurement data gathered over several projects (and sometimes several years) can constitute a valuable asset, if the value can be exploited with the ability to analyze such large data sets in a fast, highly scalable way.

CHALLENGES

- New automotive areas, new data sources, new report requirements:
 - The data volume grows exponentially, especially in areas like ADAS/AD
 - Data variety increases and new data formats arise
 - The speed of data processing moves from batch to real-time
- Data integration from testbed, road testing and simulation is getting increasingly important, and data quality is a crucial factor, e.g. model approximations
- Test data cannot be found fast enough or metadata is missing, which makes expensive retesting necessary
- On the human side, the recruiting of experienced data scientists is a tough challenge

Proven strengths combined in a flexible solution

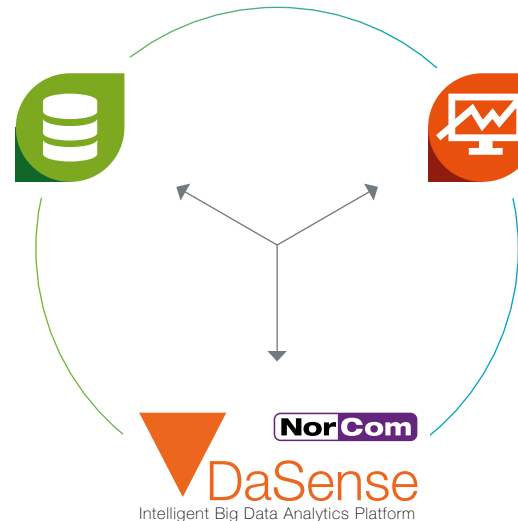
The key benefit of our solution is the combination of the strengths of all the involved products paired with AVL's expertise in all main fields of powertrain and vehicle development. Benefit from its flexibility: use it all together, only in parts, extend it later or combine it with existing 3rd party solutions.

DATA MANAGEMENT

- Search for metadata, measurement data, events and KPIs
- Analyze harmonized measurement data stored in AVL SANTORIN MX™ with NorCom DaSense
- Save back and store result data in SANTORIN MX
- Rely on ASAM ODS conformity
- Your tool for data lifecycle management

ANALYTICS-AS-A-SERVICE

- Use AVL engineering services and data analytics support based on NorCom DaSense
- Let your your complex engineering tasks be solved with data analytics and machine learning approaches
- Get holistic end-to-end support for data-driven projects



DATA PROCESSING

- AVL CONCERTO™ is the established generic data processing platform for automotive data
- Enhance CONCERTO with Big Data capabilities through NorCom DaSense
- Use well-known CONCERTO user interface to run advanced analytics

DATA ANALYTICS

- NorCom DaSense integrates Big Data technologies with the scalable and secure processing of huge amounts of measurement data using the latest frameworks for advanced analytics, machine learning and AI
- Start your own analysis requests directly in the clear user interface of NorCom DaSense
- The algorithm is sent to potentially globally distributed data and returns aggregated results back to the inquirer regardless of his location – thus delivering much faster conclusions and insights

Two leading industry experts combine their capabilities to deliver tailored data intelligence solutions to the automotive industry

OUR OFFERING

- Use NorCom DaSense as a stand-alone solution to work on your engineering tasks
- Benefit from AVL's engineering expertise with analytics-as-a-service based on NorCom DaSense
- Add Big Data capabilities to CONCERTO with NorCom DaSense
- Analyze your measurement data stored in SANTORIN MX with NorCom DaSense

ADDED VALUE

- Gain valuable new data insights and make them available to your development engineers
- Boost development efficiency through data re-use
- Enhance frontloading in data-driven development
- Reduce the number of required test drives and save costs by finding relevant events in your existing data set
- Re-use your measurement data for more advanced, scalable analytics tasks
- Keep your benchmarks up-to-date by applying newly defined KPIs on your entire historical data set
- Improve your productivity by reducing the search time for the relevant data
- Execute advanced analytics without being a data scientist

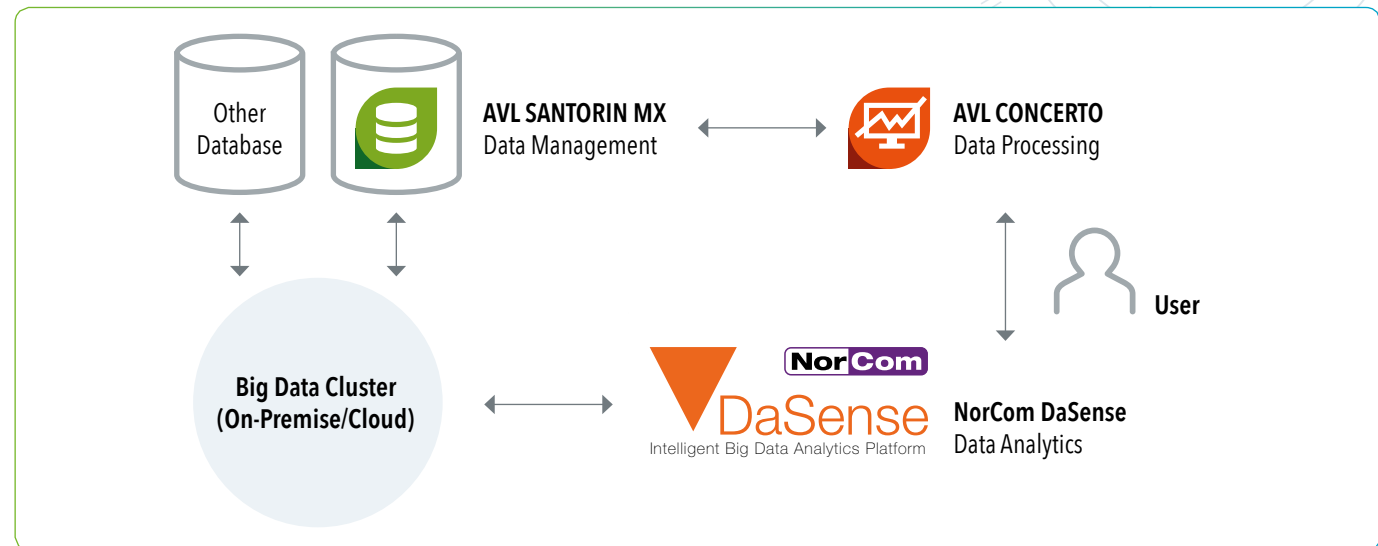


Together with you, our team of data scientists and engineering experts tailors our Data Intelligence solution according to your needs and supports the complete vehicle development process from concept phase to after sales management.

Step into the world of Big Data and gain insight into your measurement data

AVL and NorCom provide an open and seamless Data Intelligence portfolio for the automotive industry. The portfolio supports the analytics of classical time series data as well as object data, which is key for ADAS/AD applications. It creates new insights and offers fast and efficient solutions for all kinds of automotive engineering challenges.

AVL/NORCOM DATA INTELLIGENCE PORTFOLIO



Our solution supports end-to-end analytics use cases for measurement data as it combines ASAM ODS conforming data management in SANTORIN MX with the Big Data analytics capabilities of NorCom DaSense.

Use NorCom DaSense to analyze huge amounts of data without being a data scientist or let AVL's engineering experts do the work for you and merely parametrize the resulting advanced analytics apps to your needs.

For engineers who have to run advanced analytics, the combination of CONCERTO and NorCom DaSense is a powerful Big Data solution. Get fast analytics results in a working environment engineers are familiar with.

FIND OUT MORE:

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