

# Zero downtime

AUTOMATION FOR ANOMALY AND FAULT DETECTION

## Driving a zero downtime future

Quality starts in the development and extends to the field. Many problems in the field are complex and hard to find. Engineering teams require context to identify and fix issues faster, avoiding the production of additional vehicles with the same problem.

After-sales teams also use a similar approach to detect beforehand vehicles that require servicing to switch from a reactive to a proactive customer engagement, raising the bar in the quality of the offered service.

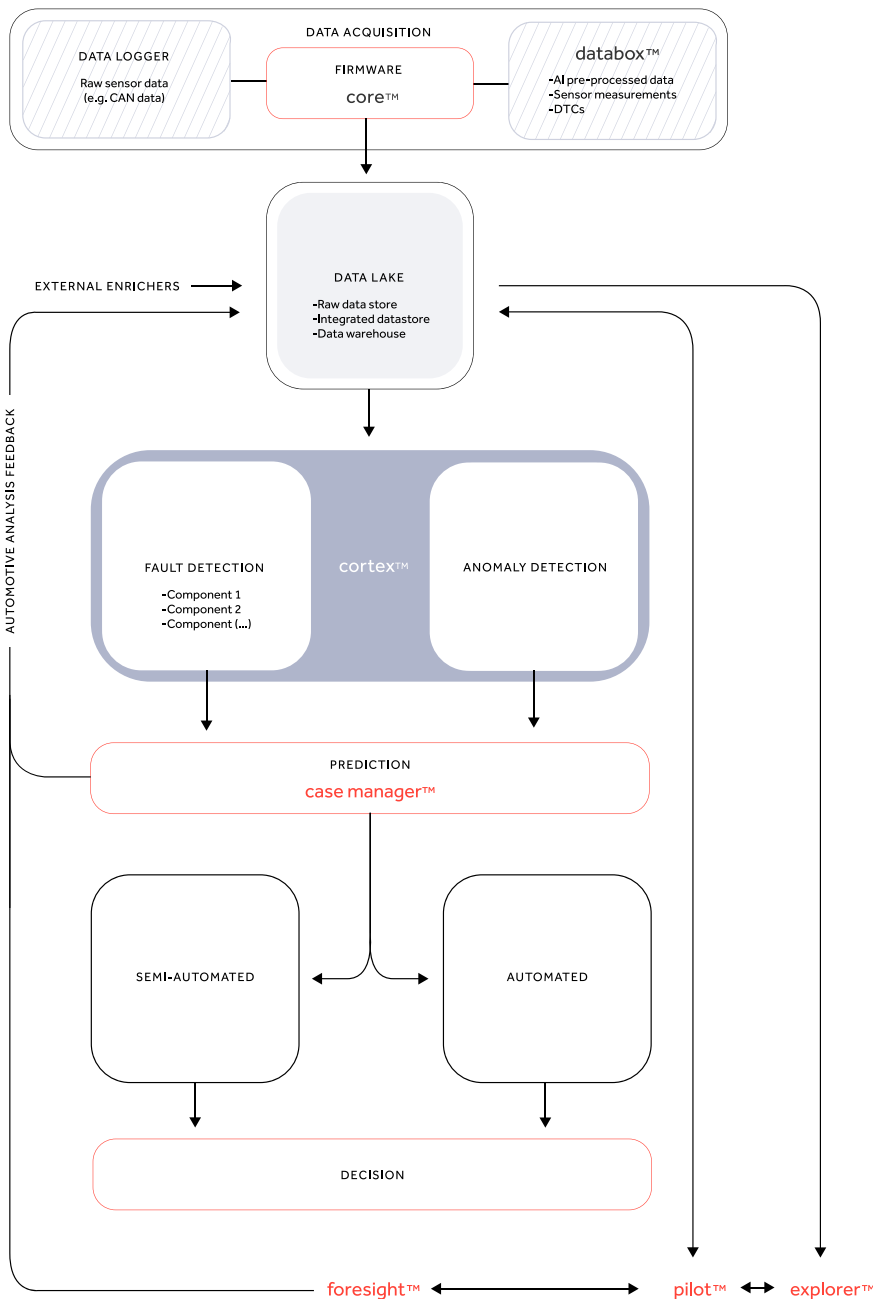
At scale you need automation to do this efficiently. For that, we use machine learning.

Our end-to-end solution enables R&D and after-sales teams to automate fault detection.



# Stratio Approach

The flowchart below represents a high level overview of how we automate anomaly and fault detection.



## ONBOARD DATA PROCESSING

Data acquisition rules and machine learning models are deployed with Stratio Core in any telematics equipment onboard the vehicle.

## OFFBOARD DATA PROCESSING

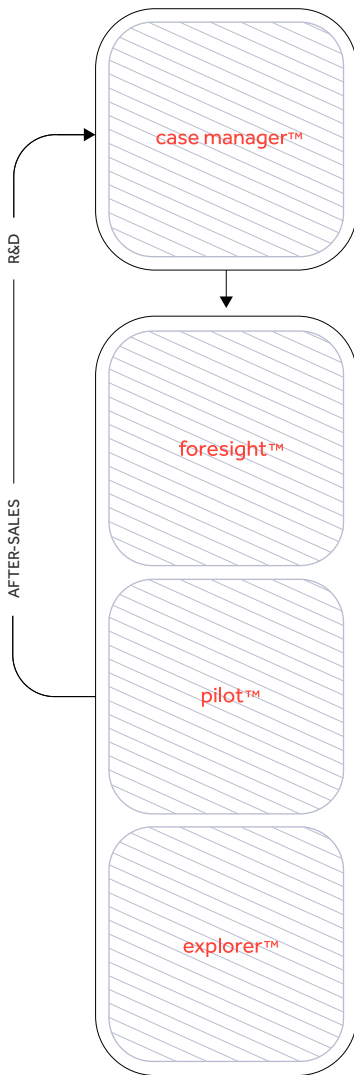
Our anomaly and fault detection system segments the ingested data through several pipelines. If required, a human in the loop approach is used to accelerate models and improve its performance.

## PRODUCT SUITE

Our anomaly and fault detection solution comprises four products for both R&D (Case Manager) and after-sales teams (Foresight), plus supporting products (Explorer and Pilot).

# Product Suite

To cope with the increasing fault rates, vehicle testing can't stop at the factory and test tracks anymore. Testing needs to become continuous throughout the vehicle's lifecycle.



## CASE MANAGER

Speeds up the training of machine learning models and allows automotive experts to contribute to the models' continuous enhancement.



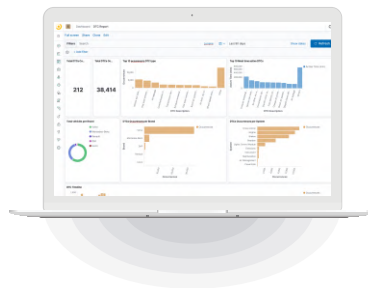
## FORESIGHT

Provides after-sales teams with an overview of the detected faults beforehand and enables servicing customers at the right time.



## PILOT

Enables the monitoring of driver performance and behaviour, adding value to the end customer whilst providing extra context to analysts.



## EXPLORER

Data visualization tool designed to support the extraction of additional insights.

Want to learn more on how to leverage machine learning to automate anomaly and fault detection?

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