

KLIMATOR | ZF

Tomorrow's Safe Mobility Solutions Start with Road Condition Intelligence

ZF enables safe mobility by integrating Klimator's road weather condition information for advanced solutions and systems.

THE CHALLENGE

Without timely road condition information, reacting to hazards becomes a perceptive gamble. Waiting until the vehicle encounters a hazard means it's too late to prevent mishaps. Without predictive data, some drivers will always be the first to detect risks like slips or skids, often at the cost of safety or efficiency. The main focus of Klimator's collaboration with ZF was to combine Klimator's information with different sources of data reflecting road friction. The overarching goal was to test, implement, and evaluate predictive road condition data to get insights in advance. Thus it becomes possible to proactively mitigate risks, reducing the likelihood of accidents and ensuring smoother, safer journeys for all.

THE SOLUTION

In the collaborative project, InFusion, Klimator's two solutions, the in-vehicle software, and the cloud-based solution, were used. Together with several vehicle sensors, the project resulted in a foundation for a cloud application for time-varying road condition information for different vehicle classes.

THE OUTCOME

The initial road condition projects yielded data quality reports and an MVP application. This demonstrated a real-time predictive estimation of road conditions and friction through the integrated data sources tailored to the specific vehicle. Through the InFusion project, it was confirmed that effective detection of road conditions and friction require diverse data sources from within and around the vehicle.

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KLIMATOR

WEBSITE

klimator.se

FOUNDED

2001

HEADQUARTERS

Göteborg, Sweden

NO. OF EMPLOYEES

10–50

ABOUT STARTUP AUTOBAHN

STARTUP AUTOBAHN powered by Plug and Play is an open innovation platform that provides an interface between innovative tech companies and industry-leading corporations. The basis of the program is the partnership that develops between startups and the corporate business units. The two entities hold an equal footing from the get-go: together they evaluate the potential for a joint venture, move forward to pilot the technology, and work to achieve the ultimate goal – a successful production-ready implementation. Designed with the intention to exceed startup acceleration, STARTUP AUTOBAHN powered by Plug and Play moderates a community for collaboration with a focus on implementable results. Over the years, the platform has successfully cultivated over 400 projects with more than 300 startups since its founding in 2016.



Klimator minimizes risks associated with road and weather conditions.

Klimator's platform enables improved driver experience, more robust ADAS and AD systems, and smarter EV routing by providing predictive weather and road weather information for all roads at all times.

ACKNOWLEDGEMENTS

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