

Press Release

Generative AI accelerates homologation: FEV simplifies country-specific type approval processes

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Aachen, July 2025 – Vehicle development does not end with technical readiness: The road to global market launches is only completed once homologation has been successfully achieved. Here, OEMs and suppliers are facing growing challenges in the increasing complexity of national regulations. FEV addresses these with an innovative, AI-based approach. The company-wide used FEV GenAI Hub significantly simplifies and accelerates the analysis of regulatory requirements across different global markets, offering time and cost savings that can provide customers with a decisive competitive edge.

“In the specific case of type approval, we use the in-house AI platform ‘FEV GenAI Hub’ to extract, enrich, and then analyze legal regulations from standards, guidelines, and laws through a fully automated process,” said Dr. Thomas Hülshorst, Group Vice President Intelligent Mobility & Software at FEV. “Different regional requirements – for North America, Asia or Europe, for example – can be accurately compared, with any deviations clearly identified.”

Based on this analysis, the platform immediately derives specific recommendations for legally compliant product adaptation.

Significant increase in efficiency for homologation

In practice, FEV has been able to reduce the processing time for comprehensive requirements analyses from several months to just a few weeks. Instead of manually checking hundreds of pages of complex legal texts, the AI now reliably supports the engineers with semantic searches, automatic classification and gap analyses at requirements level. This saves time and reduces potential sources of error at the same time.

The advantages for customers at a glance:

- Time savings: Reduces analysis time by up to 60 percent
- Cost savings: Cuts resource requirements by up to 50 percent
- Scalability: Enables comparison of regulatory requirements across global markets
- Safety: Identifies homologation risks early and provides actionable recommendations

Future-oriented use of AI

With the GenAI Hub, FEV is creating a central platform for the use of generative AI in vehicle development. The homologation process is just one of many fields of application. The next evolution steps of the platform will enable further automation in system development, test management and project controlling in the future. The goal remains unchanged: to make development processes more efficient, safer and more market-oriented, and to give customers a decisive advantage in the market.

Footage



Caption: Increased efficiency in homologation: The 'FEV GenAI Hub' serves as a central platform for the application of generative AI in vehicle development.
Source: FEV

About FEV

FEV has always pushed the limits.

FEV is a globally leading engineering provider in the automotive industry and internationally recognized leader of innovation across different sectors and industries. Professor Franz Pischinger laid the foundations by combining his background in academia and engineering with a great vision for continual progress. The company has supplied solutions and strategy consulting to the world's largest automotive OEMs and has supported customers through the entire transportation and mobility ecosystem.

As the world continues to evolve, so does FEV.

That's why FEV is unleashing its technological and strategic expertise into other areas, applying its forward thinking to the aerospace and energy sectors. Thanks to its software and system expertise, the company also leads the way making intelligent solutions available to everyone. FEV brings together the brightest minds from different backgrounds and specialties to find new solutions for both current and future challenges.

But FEV won't stop there.

Looking ahead, FEV continues to push the limits of innovation. With its highly qualified 7,000 employees at more than 45 locations globally, FEV imagines solutions that don't just meet today's needs but tomorrow's. Ultimately, FEV keeps evolving – to a better, cleaner future built on sustainable mobility, energy and software that drives everything. For the company's partners, its people and the world. [#FeelEVolution](#)