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18. abstract The core topic for this project is “Advanced Mobility Services”, which is addressed in both use cases and, in addition to the application of new technology and technology modules, examines whether added value can be created in the direction of safer, more comfortable and faster traffic with the help of the Gaia-X data ecosystem. Two application-oriented use cases were selected for this purpose, both of which investigate autonomous driving in accordance with the L4 law. To implement the use cases, a Gaia-X framework with a suitable architecture will be set up as an entry point into the Gaia-X project family. In addition, a data infrastructure and a data ecosystem must be created that meets both the Gaia-X requirements and the use case requirements. This work forms the basis for the implementation of the two use cases as part of Gaia-X. The first use case (relevant for OECON) “Safe coordination of autonomous vehicles” considers a nominal use case. The focus here is on the coordination of the specific operating areas of automated and connected vehicles (ODD), where an automated function or system is designed for proper operation. The definition of the ODD plays a decisive role, especially in higher levels of automation, in which vehicle operators cannot permanently monitor the system and thus pursue other activities.	
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