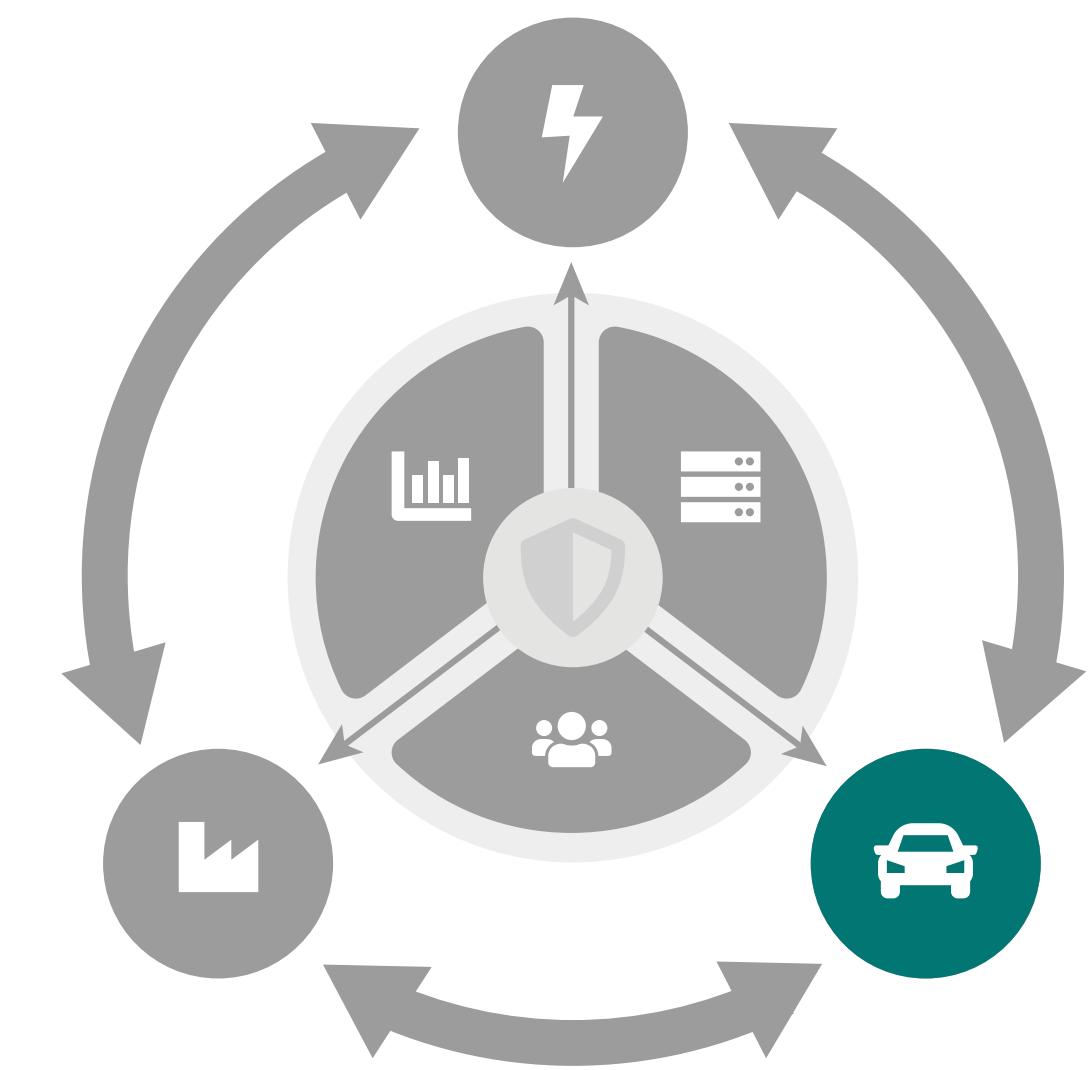




Modeling the legal framework for IT-Security in the mobility domain

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Motivation and Research Questions	Impact
<ul style="list-style-type: none"> Distributed and complex, possibly also inconsistent legal framework for IT security in the mobility domain <ul style="list-style-type: none"> Multiple levels of regulation Mobility-specific and general simultaneously Semi-automatic formalization of relevant legal requirements for architectural design decisions regarding privacy and IT-Security What are the legal requirements and possible inconsistencies in mobility-specific IT-security law and how can these be formalized? 	<ul style="list-style-type: none"> Facilitation of the practical application of the law (e.g. for software architects) and the jurisprudential debate through a clear legal framework, which allows appropriate security assurance. Advice to the legislator to develop a clear and consistent law focused on end-to-end-security.

Research Activities and Results	
<p>Research Methods:</p> <ul style="list-style-type: none"> Horizontal and vertical modeling of the legal framework <ul style="list-style-type: none"> Evaluating the applicability of the individual laws Elaboration of the interrelationships Consolidating definition and description of key terminology and methodologies 	<p>Results:</p> <ul style="list-style-type: none"> Development of a concept of resilience for dealing with uncertainty Analysis of the legal framework for safety and security updates for vehicles Regulatory gap for end-to-end security in open systems such as ITS → knowledge transfer necessary:

Publications
<ul style="list-style-type: none"> Die Resilienz als neue Anforderung des Rechts der Daten- und IT-Sicherheit. PhD thesis 2025. Kostenfreie ISO-Normen für alle? Zulässigkeit und Bedeutung von Verweisen auf private Normung im IT-Recht. In: InTeR 2024. IT-Sicherheit in offenen Infrastrukturen ½. In: RDV 2022/2023. Grundlagen für ein gesetzliches IT-Sicherheitsrisikomanagement: Ansätze zur Vereinheitlichung von Rollenmodell, Risikomanagement und Definitionen für das IT-Sicherheitsrecht. In: CR 2022.

links to:

