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Dangerous Goods Transportation Routing, Monitoring and Enforcement

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ABSTRACT

GOOD ROUTE is a co-funded European project, in the context of the 6th Framework, that aims to develop a cooperative system for dangerous goods vehicles routing, monitoring, re-routing (in case of need), enforcement and driver support, based upon dynamic, real time date, in order to minimise the Societal Risks related to their movements, whereas still generating the most cost efficient solution for all actors involved in their logistic chain. For this scope, a new classification scheme of the dangerous goods, according to Agreement concerning the international carriage of Dangerous goods by Road (ADR), with infrastructure based safety measures, context of transportation (i.e. level of loading) and vehicle characteristic, will be performed, whereas dynamic data collection and fusion will be realised from I2V/V2V sources and a series of on-board sensors. Then, a series of risk calculation algorithms will be realised, leading to a new route guidance function, the “minimum risk route guidance”.

Keywords: Dangerous goods, ADR, routing, monitoring, enforcement, driver support, cooperative system, decision support system.

Relevant Topics: Routing and Navigation