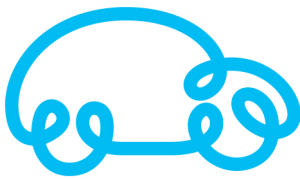


Dream-like simulation abilities for automated cars



DREAMS4CARS

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Contributors	Hermann Heich, Heich Consult		
	Mauro Da Lio, University of Trento		
	David Windridge, MU		
	Henrik Svensson, HIS		
	Elmar Berghoefer, DFKI		
	Sean Anderson, USFD		
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0.3	13.08.2019	Andrea Saroldi	Updates for CRF: sections 2.3, 3, 4.7.
0.4	28.10.2019	Andrea Saroldi	Updates after project meeting discussion.
0.5	23.11.2019	Mauro Da Lio	Revision following the discussion in the last meeting.
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0.7	4.12.2019	Mauro Da Lio	Update.
0.8	13.12.2019	Andrea Saroldi	Update.
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1.1	17.12.2019	Mauro Da Lio	Final version.

Executive Summary

According to the focus of Horizon 2020 on converting research into sustainable knowledge, products and services that have a potential impact to strengthen Europe's position within a global market and to bring socio-economic benefits, this document describes strategies adopted in the Dreams4Cars Project for exploitation and dissemination of project results, both at a general project consortium level and at partners level.

This deliverable is designed to enhance the impact of the final results of Dreams4Cars and prepare for the transition towards scientific and industrial uptake in order to achieve the expected impacts. The target audiences have been identified and multiple dissemination and communication activities have taken place during project lifetime. The exploitation activities are coordinated by the industrial partner from the Automotive Industry CRF in collaboration with the project management and are supported by project partners.

Due to the strong innovative character of Dreams4Cars, it is not easy to penetrate the automotive- and suppliers- market with a clear commercial approach. The closer to the market, the more "familiar" approaches tend to be preferred; but on the other hand, limitations of traditional methods are becoming more and more apparent and, albeit for future developments, there are chances of adoption of new ideas.

Exploitation, Dissemination and to some extent Communication in Dreams4Cars is hence rather geared to diffuse information about the benefits of the neuromorphic/bioinspired approach. The advantages have been underpinned by concrete examples that show how the Dreams4Cars bioinspired approach manages traffic situations in an efficient way. One particular point that has been consistently stressed in the dissemination activities toward industry (for example the workshops reported in D6.5) has been the *explainable* nature of the AI of the agent (without which no hope for adoption would exist in safety critical applications). Another aspect on which communication has focused was explaining how the development of agents with Dreams4Cars technologies is actually carried out; making several parallelisms within traditional workflows (for example learning physically inspired vehicle models instead of developing and tuning analytical models; learning inverse models instead of developing Model Predictive Control; and so on) so that the prospective adopters feel the gap to be as close as possible (and worth to be investigated given that traditional methods fall short in many aspect).

Thus, following this approach, related to the introduction of a set of concepts with the potential to improve Advanced Driver Assistance and Autonomous Driving Systems, the deliverable summarises the overall strategy, identified target groups, on-going liaison activities with other research projects and companies, links with standardisation activities, and performed dissemination activities of different types: conferences, workshops, events, papers and articles.

Exploitable results are also identified, and exploitation intentions are described for each partner. Finally, a set of tables is annexed to list all the dissemination and communication activities performed in the period.

Exploitation within Dreams4Cars is built on three main pillars, namely Dissemination (and Communication), Liaison activities, and Market introduction. Furthermore, input to and collaboration with initiatives on Standardisation is in the focus of Dreams4Cars. All these elements have also the objective to contribute the preparation of introduction of Dreams4Cars concepts and results into market products. Combining these elements forms the Dream4Cars Exploitation strategy.