

KARYON TO IMPROVE SAFETY AND PERFORMANCE OF SMART VEHICLE COORDINATION

New infrastructure to deliver unparalleled technology for safe cooperative systems and increased efficiency within the avionics and automotive industries

Göteborg, Sweden, November 1, 2011 - KARYON, a kernel-based architecture for safety-critical control, proposes a new perspective to improve performance of smart vehicle coordination focusing on Unmanned Aerial Systems (UAS) and Advanced Driver Assistance Systems (ADASs). The key objective is to provide system solutions for predictable and safe coordination of smart vehicles that autonomously cooperate and interact in an open and inherently uncertain environment. Currently, these systems are not allowed to operate in the public air space or on public roads, as the risk of causing severe damage cannot be excluded with sufficient certainty. The impact of the project is two-fold; it will provide improved vehicle density without driver involvement and increased traffic throughput to maintain mobility without a need to build new traffic infrastructures. The result will improve interaction in cooperation scenarios while preserving safety and assessing it according to standards.

With the support of key worldwide companies and academic partners, KARYON has a large reach network and strong exposure to relevant players and markets. GMV and EMBRAER in the aeronautics domain and SP and 4S Group in the automotive market stand behind KARYON and expect to gain competitive strength and a high return on investment from the project deliverables, while academic partners, University of Lisbon, Otto-von-Guericke-Universität Magdeburg and Chalmers University of Technology, will stay at the forefront of worldwide research in this area.

The success of the KARYON project within the marketplace will provide benefits of overall increased efficiency and safer mobility and establish efficient use of resources for sustainable transportation.

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