

## Press release

# Establishing SurferLab: embedded digital technologies to make transportation safer and smarter

2017/03/16



Bombardier Transportation, Prosyst, and the University of Valenciennes and Hainaut-Cambresis (UVHC) announce the establishment of their joint laboratory SurferLab, dedicated to research of innovative industrial solutions within embedded digital technologies field in order to make transportation safer and smarter. SurferLab intends to develop new concepts applicable to transportation systems, relying on the UVHC's scientific work.

SurferLab's work will involve creating embedded systems based on artificial intelligence, for example on trains or aircrafts, to optimize various driving, monitoring and / or diagnostic functions. These systems are made more intelligent, autonomous and capable of adapting to unexpected events. This innovative approach consists of "embedding" a maximum number of functions where classical approaches tend to "land" these same functions at the risk of disconnecting them from their informational context. SurferLab relies on several existing patents coming from previous collaboration between its founding members.

SurferLab aims at working on both scientific and technological targets. Among other things, it has the strategic objective of anticipating the next progress and revolution in the fields of transportation with regards to ICT and digital factory.

SurferLab is also an open structure, capable of providing staff with work in the distributed intelligence, embedded systems, and artificial intelligence within the transportation field.

In Hauts-de-France region, SurferLab is a unique tool for the transportation field. It is co-financed by both the Hauts-de-France region and the European Union Regional Development Fund. SurferLab is labeled by the i-Trans cluster. It is supported scientifically by the CNRS and hosted by the Laboratory of Industrial and Human Automation control, Mechanical engineering and Computer Science (LAMIH UMR CNRS 8201) at UVHC.

**From March 21st to 23rd, SurferLab will be present at SIFER, Pavillon Hauts-de-France, i-Trans stand no. 1/340. On Wednesday March 22nd, 10h15 - 12h15 (Forum 2), it will participate in the conference "Innovation in railway, a key to competitiveness for the sector and the region".**

### Press contacts

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