



DAMIEN SUBIT

From France to Sweden



Project: **Injury biomechanics and protection of road users**

Research topic: **Engineering**

Swedish Institution: **KTH Royal Institute of Technology / Chalmers**

French Institution: **Arts et Métiers ParisTech**

Dates of mobility: **17/10/2014 to 22/10/2014**

Program: **SFVE-A (ex-TOR)**



PRESENTATION

[Damien Subit](#) is the CEO and co-founder of [Tenkey](#), a mobility solution enterprise, and Visiting Professor at the [Universidad Pontificia Comillas](#). During the time of the mobility, he was Senior Researcher at [Arts et Métiers ParisTech](#). He obtained his PhD in 2004 from the [University Aix-Marseille](#) and was habilitated in 2011. His research interests center around injury biomechanics in transportation.

ACTIVITIES IN SWEDEN

Subit, accompanied by Prof. [Sébastien Laporte](#) and Asst. Prof. [Baptiste Sandoz](#) from the [Institut de Biomécanique Humaine Georges Charpak](#) of the Ecole Nationale Supérieure d'Arts et Métiers ([ENSAM](#)), started the mobility by visiting [KTH](#) Royal Institute of Technology, the School of Engineering Sciences in Chemistry, Biotechnology and Health ([CBH](#)) and the [Neuronic Engineering division](#). He discussed among others quantitative analysis of medical images with [Svein Kleiven](#), [Johnson Ho](#), and PhD candidates [Chiara Giordano](#) and [Victor Alvarez](#). KTH is specialized in Traumatic Brain Injuries whereas the Institut focuses on the musculo-skeletal system. He then travelled to Gothenburg, where he visited [Autoliv Research](#), [SAFER](#) – Vehicle and traffic safety centre/[Chalmers University of Technology](#) and [Volvo Safety Center](#). At Autoliv, he exchanged views on the modelling of muscle activity in computational human body models and safety in assisted driving with [Ola Boström](#), [Cecilia Sunnevang](#), [Bengt Pipkorn](#) and PhD candidate [Kristoffer Mroz](#). At SAFER, he also discussed the computational pedestrian THUMS model (Total Human Model for Safety) and the development of an open source human body model with [Johan Davidson](#), [Jonas Östh](#) and PhD candidate [Ruth Paas](#). At [Volvo Cars](#), he deliberated further on safety in assisted driving and the [Drive Me program](#) with [Lorra Jakobsson](#), [Trent Victor](#), [Björn Löfving](#), [Bo Svanberg](#) and [Magdalena Lindman](#). They gave several presentations on the Institut and its research activities on injury biomechanics. A range of collaborations in the framework of the [ERC Consolidator Grant](#) were envisaged on i.a., muscle activity in THUMS and technologies for assisted driving.