

Mr. Jari Nisula, PhD, is a researcher and the CEO of his own company Risk in Motion. His area of expertise is safety and risk management. After a 5-year-long research project, Mr. Nisula defended his PhD thesis in March 2018. The topic is “*A Risk Management Framework for a Complex Adaptive Transport System*”. The objective was to deliver a risk management methodology which embraces the modern approach to safety and risk management, but is also able to absorb a continuous flow of safety data, typical of transport operations such as aviation. The proposed safety intervention strategies take into account the complexity of the system/environment. The project included a 2-year intensive cooperation with the Finnish Transport Safety Agency, Trafi, which has since been implementing the methodology, especially in its aviation section.

Mr. Nisula has over 20 years of experience on Safety Management and Human Factors. He started his safety work in the early 1990's, initially in the aviation Maintenance domain. His Master's thesis focused on *Managing Human Factors in Line Maintenance of an airline*. During his military service 1995-96 in the Finnish Air Force he worked on Safety & Human Factors topics both on Maintenance and Flight Operations domains.

He joined Airbus in 1998 and the Flight Operations Support in 2000. He helped airlines implement successful Safety Reporting programs, including Human Factors reporting programs. His work also covered various aspects of Safety Management at airlines, including Safety Data Analysis and Risk Management. Mr. Nisula co-organized 11 Airbus Human Factors symposia around the world with world-class specialists sharing their knowledge on safety and Human Factors topics.

In 2004, he set up the Airbus support for airline Safety Management System (SMS) implementation. With the aim of developing and delivering practical solutions, he ran SMS courses and seminars worldwide 2004-2009 and supported airlines in SMS implementation. Often, this included briefing airline Top Management teams on their role within the Safety Management System. During this time, he also had the opportunity to gain synthetic flight experience through flight training courses on the Airbus A340 and A380.

Gradually, Operational Risk Assessment became a key focus area. In 2007, Mr. Nisula initiated the industry working group *ARMS* and chaired it until the delivery of the ARMS methodology for Operational Risk Assessment in 2010.

Mr. Nisula has been a speaker in many international scientific and industry conferences and an invited member of industry working groups, including the Commission/EASA European Risk Classification Scheme working group, EU Occurrence Data Analysis Working Group (ODA-2), the European Civil Aviation Safety Team (ECAST), Global Aviation Information Network (GAIN) and the European Aviation Safety Agency Review Group for the new Implementing Rules effective from 2012 for Commercial Air Transport.

Mr. Nisula was a visiting lecturer on *London City University's* Air Safety Management program for many years in its beginning, lecturing on safety management and human factors. He has restarted this activity since Jan-2018 by taking over the Risk Management module.

In 2010-2012, Mr. Nisula acted as one of the two main safety and training data analysts in the *Evidence Based Training* project. This data analysis – which was probably the largest ever carried out in aviation - has shown what pilots' current training needs are, and the major international aviation organizations ICAO, IATA, IFALPA have given their support and the related rulemaking is in progress at the regulators.

In addition to the PhD degree, Mr. Nisula holds a M.Sc in Aeronautical Engineering and a university diploma in design-related aviation Human Factors. Through his work in finance, management and business development, he is able to see safety also from the management perspective.