Digital Twin vision at Airbus as part of the overall digital transformation program DDMS

Within the Airbus digital transformation program DDMS we have put the digital twin concept at the heart of our digital transformation journey. This keynote will give an overview of the overall framework and will provide a small deep dive or the key enablers we have been working on in the last few years such as Model Based System Engineering and digital continuity based on data meshing principles.

Biography:

Marco Ferrogalini belongs today to Airbus Group leading the digital transformation on the Modelling and Simulation/MBSE stream within the DDMS (Digital Design Manufacturing and Services) program across all Airbus divisions (commercial aircraft, defense and space systems, and helicopters).

Along his career he has been involved in complex vehicles system engineering activities, especially on the systems development and integration on sports cars (Ferrari - Maserati), on rolling stocks and more recently on aerospace systems. He has always been acting on two axes. On one hand, he has been developing processes/methods/tools approaches aiming at continuous improvements, on the other hand, he has been managing large engineering teams on the operational side (project execution).

He has quite a wide experience in modeling and simulation approaches (FEM, vehicle dynamics, CFD, Acoustic) with a strong focus on MBSE Model-Based System Engineering for system operational analysis and functional/logical architectures. Indeed, in the last decade, he has been pioneering and leading the introduction of this approach in the railway industrial sector in two of the major worldwide OEMs (Alstom and Bombardier) developing end to end all the related aspects (processes, methods, tools, training/coaching, and change management).

Despite the above professional activities, Marco remains very active in the System Engineering social networking, contributing to the MBSE Working Group of the INCOSE and giving lectures on System Engineering and Model-Based System Engineering in many Engineering schools.