Alma Mater Studiorum Università di Bologna
School of Engineering and Architecture - Forlì

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Evolution of the mobility and implications for the air transport

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The societal need for a seamless, safe, secure, cost effective transport system, capable to bring people together and deliver goods with low effects on the environment, is the subject of several analyses and studies.
Paradigms such as "door-to door on demand mobility", "decarbonising transport" are the references for the mobility planning processes, addressing low carbon footprint solutions, while improving the overall system performance and exploiting the opportunity provided by the technology evolution, enabling a more automated and connected transport network.

The Aviation sector needs to address the challenges, in cooperation and complementarity with adjacent terrestrial transport modes, applying a continuous improvement process to the existing products by including incrementally research results. Moreover it is also aiming to mature breakthrough technologies and concepts for a future generation of air vehicles. The goal is to enhance the manufacturing and the operation through breakthrough innovation which is looking towards more radical concept or business model changes.
The presentation addresses the theme proposing a review of the emergent trends in the mobility planning and the anticipated implications in the aviation sector in terms of evolution of the enabling technologies and of impacts on the aeronautical products and on the air traffic management.

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