



X-TEAM D2D Extended ATM for Door-to-Door Travel


Vittorio Di Vito (1), Bartosz Dziugiel (2), Axel Classen (3), Miguel Mujica Mota, Margarita Bagamanova, Abdel el Makhloufi (4), Mario Ciaburri, Gabriella Duca (5), Luigi Brucculeri (6), Stefano Proietti (7)

1) CIRA, Italian Aerospace Research Center Capua, Italy; 2) ILOT, Institute of Aviation Warsaw, Poland ; 3) DLR, German Aerospace Center Cologne, Germany; 4) Amsterdam University of Applied Sciences Amsterdam, The Netherlands; 5) ISSNOVA, Institute for Sustainable Society and Innovation Naples, Italy; 6) D-Flight Rome, Italy; 7) ISINNOVA, Institute of Studies for the Integration of Systems Rome, Italy




X-TEAM D2D project has received funding from the SESAR Joint Undertaking with grant agreement No 891061 under European Union's Horizon 2020 research and innovation program.


Project's methodology



Definition of reference scenarios, according to baseline (2025), intermediate (2035), final (2050) time horizons, performing definition of reference transport scenarios for Door-to-Door (D2D) mobility, identification of bi-directional relationship among ATM and other transport modes, identification of specific passenger centric use cases, identification of barriers as well as technological enablers for the integration of ATM and air transport into overall intermodal transport system



Design of ConOps for infrastructures and services integration according to baseline (2025), intermediate (2035), final (2050) time horizons, addressing mobility infrastructures integration with ATM and mobility services integration with ATM. Preliminary high-level analysis of the legal, economic and regulatory aspects related to the implementation of the proposed ConOps of mobility as a service including ATM will be addressed

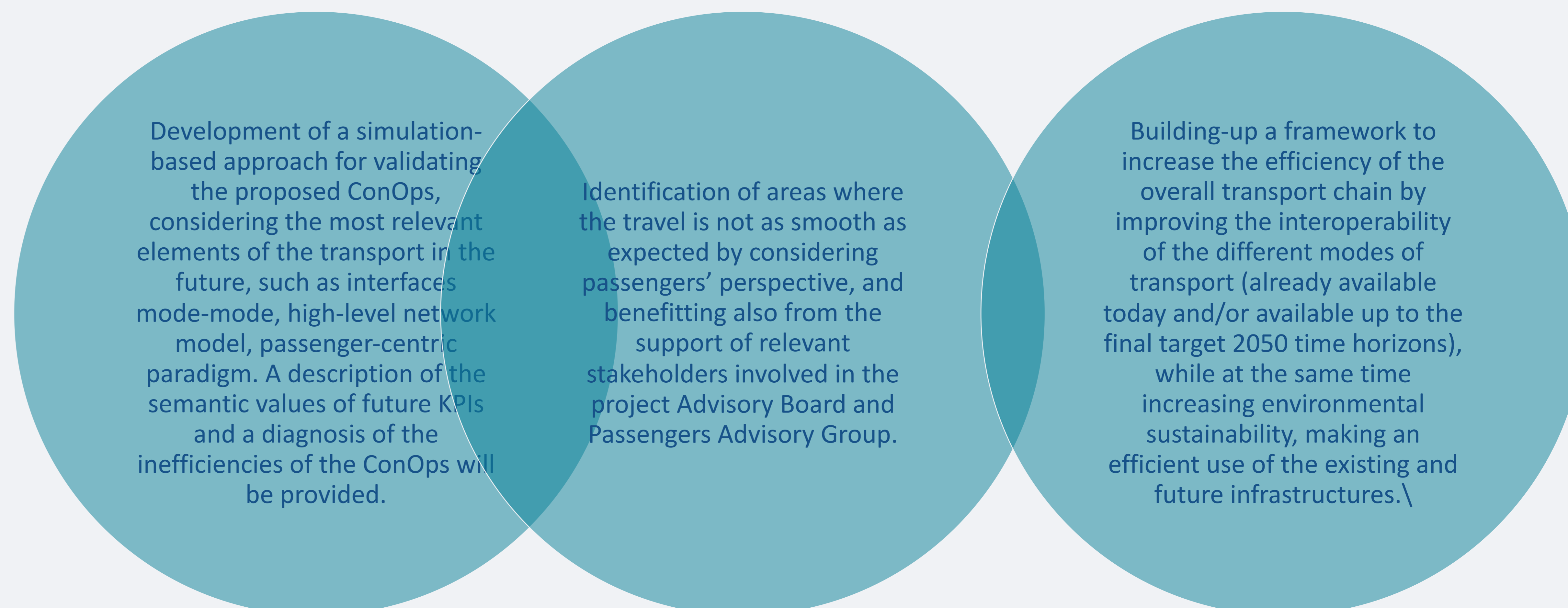


Performances considerations and preliminary validation, performing analysis of the limitations and opportunities arising from the integration of ATM into an overall seamless urban and extended urban and regional transport system, covering the strategic, pre-tactical and, more in particular, tactical flow management phase, defining overall integrated transportation system performance indicators and identifying specific ATM contribution to overall system performances. Preliminary validation will be carried out by means of simulation of the feasibility of the proposed ConOps.

X-TEAM D2D in brief

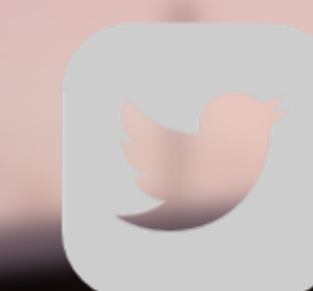
X-TEAM D2D project aims at defining, developing and initially validating a Concept of Operations (ConOps) for a seamless integration of Air Traffic Management (ATM) and Air Transport into an overall intermodal network, including other available transportation modes (road, rail, water). This will contribute to significant enhancement in door-to-door connectivity, supporting to the ACARE SRIA FlightPath 2050 goal of enabling connection in up to 4 hours between any location in Europe. The project provides and validates a Concept of Operations (ConOps) for seamless door-to-door mobility in urban and suburban (up to regional and country-wide level) environment, targeting as scenario the connection of a metropolis with the surrounding area (up to country-wide level) and taking into account the transportation and passengers service scenarios envisaged for the next decades, according to baseline (2025), intermediate (2035) and final (2050) time horizons.

Objectives



Follow the X-TEAM D2D project

www.xteamd2d.eu



@Xteamd2d

www.sesarju.eu/projects/xteamd2d



[company/x-teamd2d/](https://www.linkedin.com/company/x-teamd2d/)