

Vertiport integration into urban environment

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Short bio

Damian Kysely is the Head of Infrastructure, EMEA for Skyports. He leads Skyports' vertiport business in Europe and Middle East, overlooking business development, government affairs, infrastructure development and technology deployment. In his previous role at Skyports, he managed the design and development of the world's first vertiport in Singapore in October 2019. Prior to joining Skyports, Damian founded a UK government backed company developing analytics tools for drone infrastructure deployment in built environments and held previous roles in transport technology consulting and early-stage venture capital.

Abstract

For Advanced Air Mobility to realise its full potential, urban planners and regulators need to rethink the guidelines for integrating aviation infrastructure in cities around the world. The growth of the AAM industry hinges on its ability to activate existing infrastructure and deploy greenfield infrastructure for eVTOL aircraft. Vertiports need to be sited in locations which are highly accessible for passengers to maximise convenience, reliability and timesaving which are the key attributes of this new transportation system. The challenges of designing and deploying vertiport infrastructure in such nascent industry include planning & permitting, airspace integration, vertiport design, operations, electrification and passenger journey. Industry projects, such as the vertiport testbed at Groupe ADP's Pontoise airfield, are vital in finding solutions to the challenges above and for bringing the regulators and the public on the journey.