

Roland Berger UAM global market study and specifications

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Short bio

Kolin Schunk is passionate about the disruptive forces in aviation/aerospace and mobility including a focus on clean energy, venture capital and startups. He is currently a Senior Consulting Specialist with Roland Berger.

Kolin graduated with a Bachelor of Science in 2011, and a Master of Law and Business in 2013 before going on to study management at Northwestern University, Kellogg School of Management, and WHU Otto Beisheim School of Management.

Abstract

Advanced Air Mobility [AAM] holds the promise to enrich existing transportation systems by providing an answer to the great mobility challenges (e.g., increasing population density, climate change, transportation congestion). To be a success, AAM needs to have the physical infrastructure in place for air vehicles to take-off and land. This field has been neglected in the past, and many stakeholders (e.g., airports, airlines, city councils) still do not know the requirements, best use cases, and its connection with existing ground-mobility options. Hence, the presentation focuses on the need for infrastructure, also known as Vertiports, of AAM presenting several vertiport typology design approaches, its dimensioning and subsequent implementation into the urban/rural environment, the need for an efficient operation (e.g., ensuring fast passenger processing, and availability of MRO services), and integration into the existing (ground) transportation system to provide a time advantage for the traveler. Illustrative examples will be used to move from theoretical concepts to practical implementation.