



Do we already see the impact of Advanced Air Mobility or is it too early to tell?

Roland Berger



Currently, AAM is at the trough of disillusionment: After the SPAC-craze, investor realism is kicking in – Is AAM too good to be true?



There are huge expectations both for UAM and RAM – However, what would happen to the AAM industry if UAM might not deliver the expected results?

Emergence of AAM segments



UAM/ eVTOL vehicle are becoming a reality now given four major proof points – Also first cities/ regions planning towards operation

Proof points for technical maturity of UAM/ eVTOL vehicles – Examples



We will see first commercial operations by 2025/2026 in frontrunner cities¹⁾

Source: Desk research, Company information, Roland Berger

However, the existing number of vertiport developments is insufficient to accommodate UAM orders – Closing gap possible through further partnerships

Number of vertiports needed based on eVTOL orders vs. known vertiport developments



📕 Known vertiport development projects 🛛 📃 Gap

1) Not displaying ~600 undefined orders for UAM OEMs EHang, Eve, Volocopter and Jaunt Air Mobility; 2) Air Greenland ordered Vertical Aerospace aircraft via Avolon and 20-50 aircraft are expected to be allocated to Air Greenland 2) Includes additional ~120 vertiports needed for ~600 undefined aircraft orders yet and ~250 planned vertiport projects without specified location

Source: Roland Berger

In addition, to the physical infrastructure around vertiports also further supporting infrastructure needs to be build up

AAM ecosystem



It is not just about the eVTOL/ UAM aircraft – AAM operations are a system of systems to be put in place

To get air mobility "off the ground" it is necessary to take the eVTOL aircraft itself, and the service enabling AAM ecosystem into consideration

The overall ecosystem needs to be set up in a coordinated way, especially in the beginning

UAM ecosystems have started to form in major global cities – However, the number of cities/ regions is limited and also approach not unified yet

City examples	Paris	Rome	Munich	Los Angeles	Orlando	Tokyo	Osaka	Seoul	Singapore	Dubai
Involved companies (Selection) Building blocks	CHANS CH	Atlantia Constant	Contraction Contr	BLADE KOROADS OVERCIP LADOT	tillum ferrovial MOVE NONE	VERTICAL VERTICAL AVOLON VOLOCOPTER	VERTICAL AVOLON Skyports CKYDRIVE		AIREUS CAAN One Sky VOLOCOPTER Skyports	
Government		0	0			\bigcirc				
Other public institutions		\bigcirc	\bigcirc			\bigcirc				
Aviation authorities			\bigcirc		\bigcirc	\bigcirc	\bigcirc	\bigcirc		
eVTOL OEM										
Airport/vertiport										
Other industry players			\bigcirc				\bigcirc			\bigcirc
Defined use cases/routes	-		\bigcirc				\bigcirc			
Flight tests/sandbox			\bigcirc				\square	\bigcirc		

Building blocks of UAM ecosystems (selection)

Source: Secondary research; Roland Berger

of available

Therefore, much more needs to be done now in an orchestrated manner to bring UAM to life in frontrunner cities – RAM might depend on UAM success

Key success factors to make UAM fly

City-by-city approach (focus on individual cities **first**)

Orchestrate ecosystem build-up via investments and partnerships

Involvement of all relevant stakeholders (e.g., eVTOL OEM, potential operator, surrounding transportation ecosystem, public, regulators, authorities)

Testing AAM in a real-life environment with first use cases (e.g., Paris 2024)



UAM/ eVTOL industry needs to deliver according to expectations as well as promises to investors – Otherwise RAM market might not receive required funding in the future

