

WEEKLY REWIND

OUR TAKE ON THE NEWS THAT CAUGHT OUR ATTENTION
IN ADVANCED AIR MOBILITY & THE REST OF AEROSPACE

ADVANCED AIR MOBILITY

- Volocopter announced the creation of a JV with Geely, one of China's largest car manufacturers, to commercialize eVTOL services in China - **The increased cooperation with Volocopter, points to a reduced importance for Geely's Terrafugia AAM division**
- Lilium announced the addition of two cities in Germany, Nuremberg and Munich, to their proposed European network - **Lilium continues to grow its worldwide operation network but we are still ways away from breaking ground on any facility**
- Bye Aerospace announced their eFlyer 800, an all-electric competitor to the King Air, with 80% lower operating costs and based on battery cells with an energy density of 550 wh/kg - **The aircraft is still some ways away, but the business case hinges on batteries that do not exist yet, and best anything planned in the next few years by a factor of 1.6**
- Joby Aviation expects 10,000 flight cycles out of a battery pack, with the cost of replacing batteries "essentially insignificant" to the vehicle operating costs - **The flight cycles that Joby is forecasting are in line with the latest battery technology but the cost might not be as insignificant as they think**
- Leonardo Helicopters has confirmed plans to develop a hybrid-electric light helicopter in the '25-'30 timeframe - **Leonardo is observing the AAM market: while the full extent of the impact of eVTOL on the helo market is not clear, legacy OEMs should follow the path of car OEMs and prepare for a future where their current market is significantly smaller**
- Kanematsu Corporation signed an MoU with vertiport developer Skyports to support eVTOL operations in Japan - **Japan is an underestimated eVTOL market with many fundamentals that fit very well eVTOL vehicles and services**

THE REST OF AEROSPACE

- Mars Ingenuity, the small robotic solar helicopter deployed by Mars rover Perseverance, completed its first and second flight successfully, proving the capabilities of NASA to operate an air vehicle on another planet - **The continued success of this proof of concept is paving the way for inclusion of air vehicles in future planetary missions**

QUOTE OF THE WEEK

"This type of remarkable economy and performance is made possible by [...] advanced battery cell technology that results in significantly higher energy densities."

George Bye, CEO, Bye Aerospace
