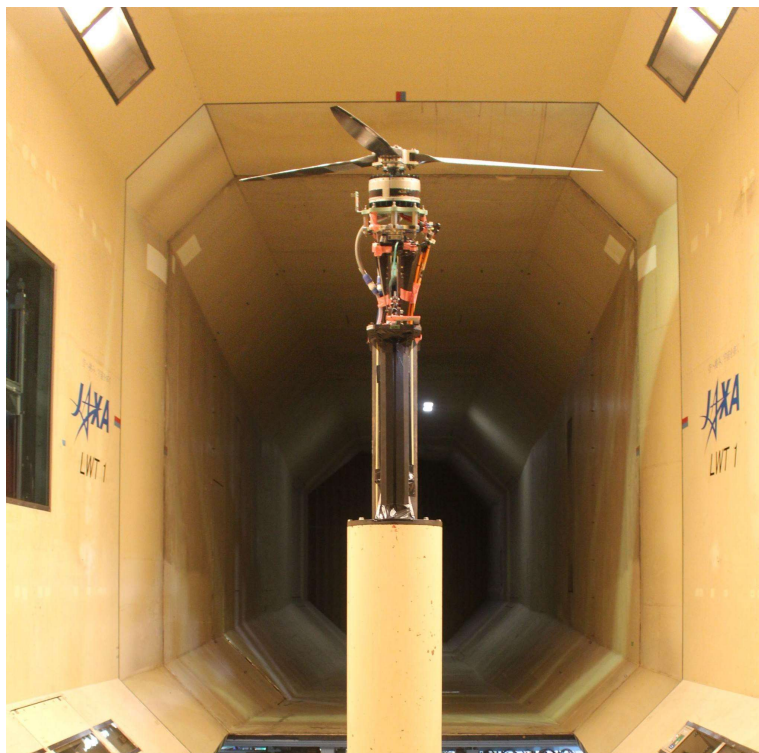


SkyDrive Signed an Agreement with JAXA for Joint Research Towards Future Noise Reduction for eVTOL

TOYOTA, Japan, September 06, 2023 –SkyDrive Inc. (“SkyDrive”), a leading Japanese eVTOL aircraft (*1) manufacturer based in Japan, announced that the company had proudly concluded a joint research agreement with the Japan Aerospace Exploration Agency (“JAXA”) for the practical application of eVTOLs. In addition to our own research on noise reduction, we will promote research on the improvement of noise estimation technology for eVTOLs in cooperation with JAXA.



JAXA Testing on Noise Detection in a Large Low-speed Wind Tunnel

■Overview

With the mission of “taking the lead in the once-in-a-century mobility revolution,” SkyDrive is developing eVTOL aircraft to create a future where everyone has access to eVTOL as their daily transportation. SkyDrive has been selected to participate in the Advanced Air Mobility “Smart Mobility Expo” Project at Expo 2025 Osaka, Kansai, Japan. The company aims to fly its “SKYDRIVE” (*2) eVTOL aircraft at the Expo.

For eVTOLs to be practical, their certificate of “airworthiness” needs to be achieved following safety and environmental regulations. The aircraft currently under development is expected to have different characteristics from conventional rotary-

wing aircraft in terms of lower noise such as rotor diameter, layout, system configurations, etc. Therefore, it is essential to acquire technology to estimate and evaluate the noise level of eVTOLs.

JAXA has been developing technology for noise source identification of rotor blades with their largest wind tunnel test facilities in Japan. SkyDrive has now begun a joint research project in the JAXA facility to reduce the noise level of eVTOLs by utilizing their technology.

■Responsibilities

Roles of SkyDrive and JAXA

Items		SkyDrive	JAXA
1	Rotor/ Scaled Full-Aircraft Model Wind Tunnel Test	◎	○
2	Actual Rotor/Full-Size Aircraft Noise Detection	○	◎
3	External Noise Estimation	○	◎
4	Identification of Technical Issues for Future Aircrafts	◎	○
5	Establish Technology Roadmap for Future Aircrafts	○	◎
6	Conclusion	◎	◎
		◎ Main	○ Deputy

Our eVTOL is an electric aircraft that uses electric engines that enable lower noise operations. However, in order for this aircraft to take off and land in neighborhoods and to be applied as daily choice transportation, we are working to further noise reduction. SkyDrive will continue its effort to reduce the noise source development of rotors and systems using the results from the joint research with JAXA.

■Nobuo KISHI, Chief Technology Officer, SkyDrive Inc., commented:

We are very pleased to conduct this joint research with JAXA that focuses on noise reduction of eVTOLs. We will use the data acquired through the research by using JAXA's existing noise source identification technology to take us through the major step to developing flying cars that the society needs.

Editor's Note:

(*1) "eVTOL" is an abbreviation for electric vertical takeoff and landing. eVTOL aircraft are characterized by electrification, a fully autonomous autopilot, and vertical takeoff and landing. It is also called Advanced Air Mobility (AAM) or Urban Air Mobility (UAM).

(*2) "SKYDRIVE" is a product name of SkyDrive Model SD-05. Model SD-05 is in the process of acquiring its Japan Civil Aviation Bureau certification.

Related press release: <https://en.skydrive2020.com/archives/7336>

About SkyDrive Inc.

SkyDrive was formally established in July 2018 after testing flying car concepts and prototypes from 2014 with the mission of “taking the lead in the once-in-a-century mobility revolution.” Its vision is to create a future where everyone has access to eVTOLs as their daily transportation in Japan and across the world. The company succeeded in the first crewed flight test in Japan in 2019 and its eVTOL “SKYDRIVE” is in the process of acquiring its Japan Civil Aviation Bureau (JCAB) certification. SkyDrive has been selected as a company to participate in the Advanced Air Mobility (AAM) project at Expo 2025 Osaka, Kansai, Japan. SkyDrive is headquartered in Toyota, Aichi Prefecture. Tomohiro Fukuzawa is the CEO of the company.

For more information, please visit: <https://en.skydrive2020.com/>

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