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航空宇宙工学専攻

Press Release



NABLA  
Mobility

peach

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NABLA Mobility Inc.

Department of Aeronautics and Astronautics, The University of Tokyo

Peach Aviation Limited

## **NABLA Mobility, the University of Tokyo, and Peach to launch a new joint initiative to reduce environmental footprint in aviation through the collaboration between industry and academia**

**TOKYO, Feb 16th, 2022** - NABLA Mobility Inc. (Shinjuku-ku Tokyo, CEO: Shinji Tanaka, NABLA Mobility), Tsuchiya and Itoh Laboratory at Department of Aeronautics and Astronautics, the University of Tokyo (Bunkyo-ku Tokyo, Tsuchiya & Itoh Lab.), and Peach Aviation Limited (hereafter: Peach Sennan-gun Osaka, CEO: Takeaki Mori) today announced their launch of a new joint initiative. The initiative aims to reduce environmental footprint through the collaboration between industry and academia.

While many countries in the world aim towards carbon neutrality, the reduction of carbon footprint (※1) in the aviation industry has been addressed in Japan as well. Under the initiative, NABLA Mobility, Tsuchiya & Itoh Lab., and Peach will propose a measure to reduce environmental footprint by combining the expertise of both Tsuchiya & Itoh Lab. and NABLA Mobility as well as utilizing flight data provided by Peach.

One of the proposals includes the optimization of airline operation. Tsuchiya & Ito Lab. and NABLA Mobility will take an advantage of their research capability and data analytics technologies together with the flight data from Peach, to optimize aircraft trajectories from takeoff to landing at Kansai International Airport, a major hub of Peach, and others.



A321LR, which Peach introduced for the first time in Japan on December 28, 2021

Peach, the first LCC in Japan and now aiming to become the leading LCC in Asia, has been proactively pursuing decarbonization in the aviation industry. Riding this wave of momentum, this new initiative will help accelerate product development and the implementation of effective measures to realize decarbonization that expected in the aviation.

**About NABLA Mobility ([www.nabla-mobility.com](http://www.nabla-mobility.com))**

Established in April 2021, NABLA Mobility is a startup company committed to providing solutions for improving operational efficiency in the aviation industry as well as helping with the global decarbonation effort by utilizing various AI/ML algorithm and flight operation data.

**About Tsuchiya & Itoh Lab. ([www.flight.t.u-tokyo.ac.jp](http://www.flight.t.u-tokyo.ac.jp))**

Tsuchiya & Itoh Lab. aims to create an air traffic management system in which human and aircrafts cooperate with each other to save the environment including the flight dynamics control of aircrafts and spacecrafts. As part of their study, they drive their research on eco-friendly flight operations that aim to reduce both the fuel consumption and CO2 emissions.

**About Peach ([www.flypeach.com](http://www.flypeach.com))**

Peach Aviation began services based out of Kansai Airport in March 2012. From seven base airports, i.e., New Chitose, Sendai, Narita, Kansai, Fukuoka, Naha and Chubu Centrair International Airport, we operate 33 domestic and 17 international flights.

※1 “CO2 emissions reduction effort in the aviation industry as of 2021” - Ministry of Land, Infrastructure, Transport and Tourism  
<https://www.mlit.go.jp/common/001403136.pdf>