



## JAL and JAL Engineering Win IT Award for Innovation

Tokyo, JAPAN - JAL and JAL Engineering have been awarded the "IT Award (Open Innovation Area)" for the "42nd IT Award" announced by the Japan Institute of Information Technology. This is the third time this award has been received, following last year.

The award results from the theme "Maintenance DX in pursuit of 'Zero Zero 100' in aircraft maintenance."



### **【Evaluation Comments】**

JAL Engineering Co., Ltd. has been working on DX for aircraft maintenance, which is widely complicated and failure-proof, under the "Zero Zero 100" philosophy. This approach aims to prevent aircraft failures by predicting them before they occur. This initiative was highly evaluated as an example of aggressively challenging the application of new technology and promoting DX through cooperation with various partner organizations, and is worthy of the IT Award.

### **【Initiatives leading to the award】**

#### **1. Failure prediction algorithm development**

Improve the accuracy of advance detection of aircraft failures using failure prediction algorithms based on the use of digital technologies such as big data and AI to achieve reliable predictive maintenance.

#### **2. Development of diagnostic support tools for the internal condition of the engine**

Applying medical image recognition AI technology to engine endoscopy improves the accuracy of internal engine inspections and prevents engine defects before they occur.

#### **3. Development of line maintenance plan optimization applications using quantum computing technology**

An application for automatic optimization of aircraft maintenance planning has been developed using quantum computing technology for line maintenance planning work, which has been assigned to experienced personnel because of the need to take into account a huge number of constraints, such as aircraft usage and the number of mechanics.

#### **■ IT Award**

The IT Award is awarded to companies and organizations that have made outstanding efforts and achieved excellent results in "management innovation using IT" in the Japanese industry, in accordance with the IT Association's award system for companies, municipalities, institutions, and offices for excellence in information technology established in March 1983. The awards are given to companies and organizations that have made outstanding efforts and achieved excellent results in "management innovation using IT" in the Japanese industrial sector.

The award ceremony and commemorative lectures will be held on January 30 and 31, 2025, during the 40th IT Strategic Comprehensive Conference (ITMC 2024) hosted by the association at The Prince Park Tower Tokyo in Minato-ku, Tokyo.

JAL will continue to utilize digital technology to create safe and secure travel and new customer experience value, and take on the challenge of solving social issues and driving change through DX.