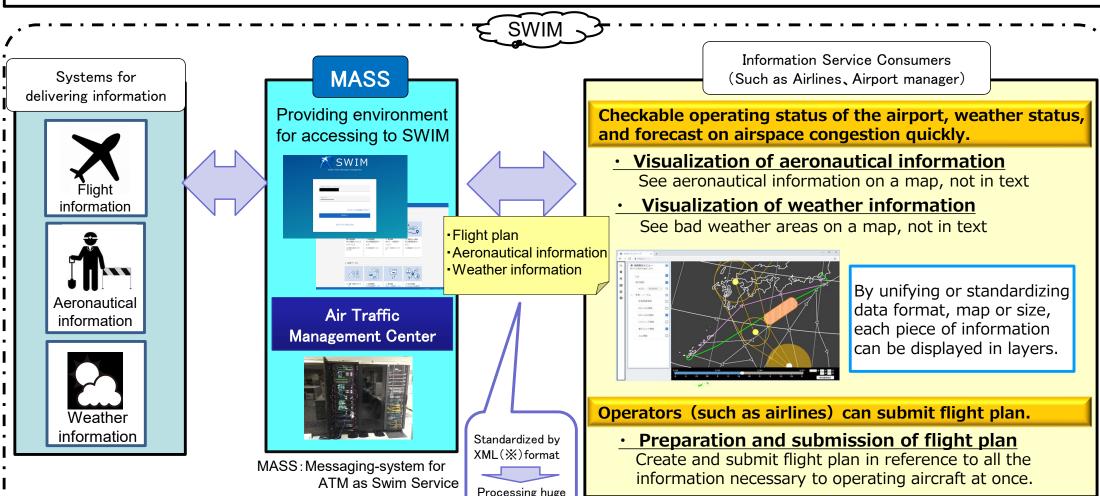
## 66 SWIM (System-Wide Information Management)

SWIM (System-Wide Information Management) is a cross-system "information management framework" that enables aviation professionals to use "reliable information services" in "reliable environment".

Since more information than ever before needs to be processed for the purpose of coping with the future growth in air traffic, it supports ATM stakeholders in improving their situational awareness and make decision making quickly by digitalize information and facilitate information exchange.



amount of data

with High-speed

XML(Extensible Markup Language): Widely-used language to facilitate data

management and exchange

## 67 TBO (Trajectory Based Operations)

- OTBO (Trajectory Based Operations) is a concept whereby aircraft trajectories are shared in real time by digital technology to air traffic control and aviation stakeholders, and this information is used to optimize control operations.
- OThe TBO will enable ①safer and more comfortable flights, ②smooth response to sudden weather changes (e.g., cumulonimbus clouds and volcanic eruptions), and ③contributes to carbon neutrality by reducing fuel consumption.
- \*Trajectory is an onboard computer calculation of the expected route by adding latitude, longitude, altitude, and time information.

