



The Federal Aviation Administration (FAA) and the aviation community have initiated a safety analysis and data sharing collaboration to proactively analyze broad and extensive data to advance aviation safety. The initiative, known as Aviation Safety Information Analysis and Sharing (ASIAS), leverages internal FAA datasets, airline safety data, publicly available data, manufacturers' data and other data. The airline safety data is being safeguarded by The MITRE Corporation, in a de-identified manner to foster broad participation and engagement. ASIAS fuses various aviation data sources in order to proactively identify safety trends and to assess the impact of changes in the aviation operating environment. The two components of this activity are the *Analysis* of aggregate data and the *Sharing* of information in support of Safety Management Systems.

## Information Analysis



ASIAS resources include both public and non-public aviation data. Public data sources include, but are not limited to, air traffic management data related to traffic, weather, and procedures. Non-public sources include de-identified data from aircraft operators, including digital flight data and safety reports submitted by flight crews. Future plans include the addition of de-identified reports from maintenance and dispatch personnel, flight attendants, and air traffic controllers. Governance agreements with participating operators and owners of specific databases provide ASIAS analysts with access to safety data without having to archive sensitive proprietary information centrally.

Governed by a broad set of agreements with initially ten major U.S. airlines, ASIAS will have the ability to query millions of flight data records and de-identified textual reports via a secure communications network that connects servers located at each airline to a central server at MITRE's laboratories located in McLean, VA.

## Information Sharing



Under the direction of an ASIAS Executive Board (AEB), which includes representatives from Government and Industry, ASIAS will establish key safety benchmarks so that individual operators may assess their own safety performance against the industry as a whole.

ASIAS will conduct analyses that are authorized by the AEB in terms of directed studies, assessment of safety enhancements, known risk monitoring, and vulnerability discovery. In the interest of enhancing aviation safety, the results of these analyses will be shared with the ASIAS participants.

ASIAS will serve as a central conduit for the exchange of data entry and analytical capabilities among its participants, thereby potentially attracting other aircraft operators to the program. The ASIAS vision is a network of at least 50 domestic and international airlines over the next few years, making it the only such center of its kind in the world.

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