North Asia Data and Technology PoC Strategic Partnership Program

Selected themes for Cycle 3

Number	Theme	Summary
1	**Modern Baggage Messaging**	The current airline industry baggage message standard (Type B) was developed in 1985. The transmission relies on fragmented ARINC and SITA global aeronautical networks, resulting in high messaging costs, a relatively high message failure rate, and difficulty in innovation and scalability. This PoC aims to validate airlines' capabilities to process baggage messages based on IATA modern standard, Baggage Information Exchange (BIX). It also validates whether airlines, airports and ground service providers can efficiently exchange structured baggage data through a unified, Internet-based platform enabled by the IATA Baggage Community System (BCS). This solution helps airlines reduce operating costs, improve the efficiency of integration with partner systems, enhance information-sharing, and provide a stronger technological foundation for business innovation across the aviation industry.
2	**AI-enabled Compliance Checklist Assistant for Digital Manuals**	Airline operations manuals are complex, multi-layered document systems. Following updates to civil aviation regulations or advisory circulars, airlines are typically required to manually review their manuals to ensure compliance and complete corresponding compliance checklists. This process is time-consuming, relies heavily on expert judgement, and often leads to inconsistencies or information gaps across different manuals and operational processes. This PoC aims to validate how AI capabilities can support compliance checklist automation based on digitalized operations manuals. By aligning manual content with checklist requirements, the PoC will explore automated identification of relevant clauses, extraction of supporting evidence, and generation of structured outputs such as "Yes", "No", or "Not Applicable", providing preliminary and reviewable inputs for business users. In addition, the PoC will explore bilingual terminology consistency analysis as an optional extension, subject to data availability. This approach helps transform fragmented information across manuals and compliance workflows into structured and traceable decision inputs. It has the potential to reduce manual workload, improve consistency and efficiency of compliance checks, and lay the foundation for future digital manual management and AI-enabled operational support capabilities.