

EASA AI Concept Paper Issue 3

Application and Certifiability

Demonstration



**Getting to know the
top ten cases:**

AI Olympics!

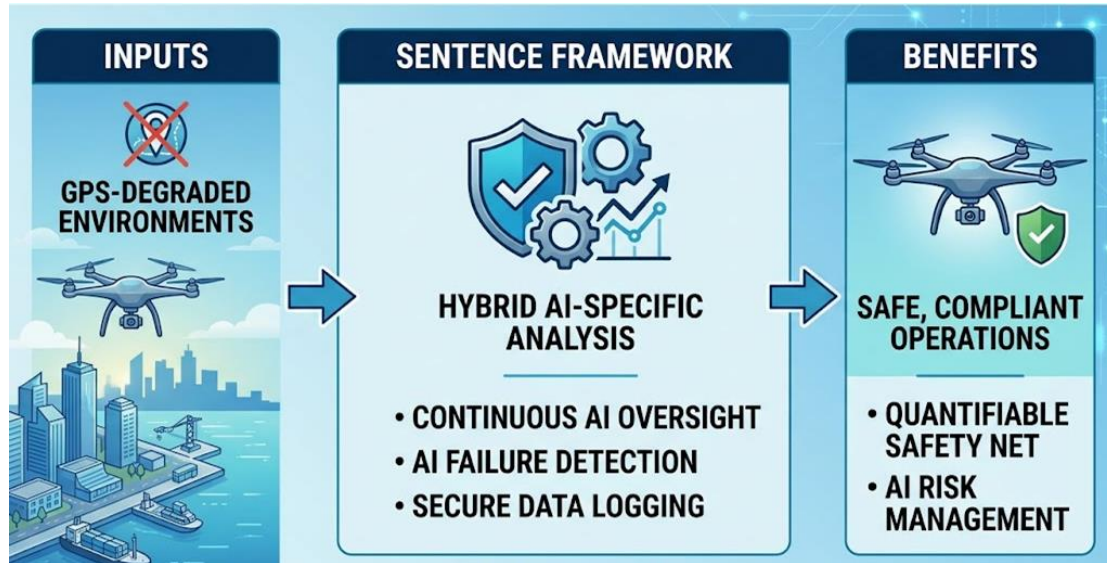
You have a slot
in the
EASA AI Days
CONGRATS!

winner



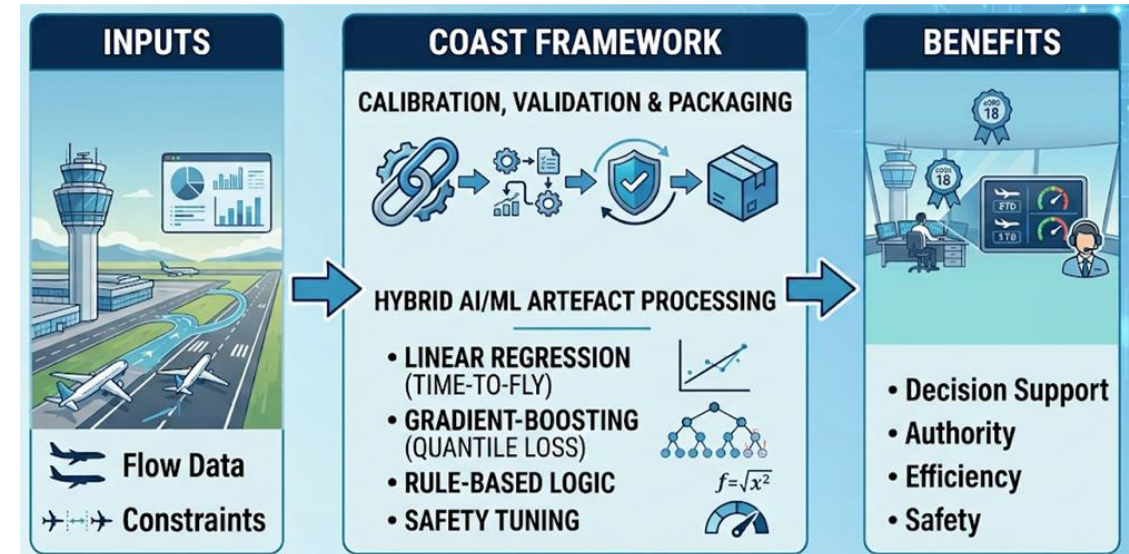
**You are
on the
TOP 10 !!!**

SenTenCe



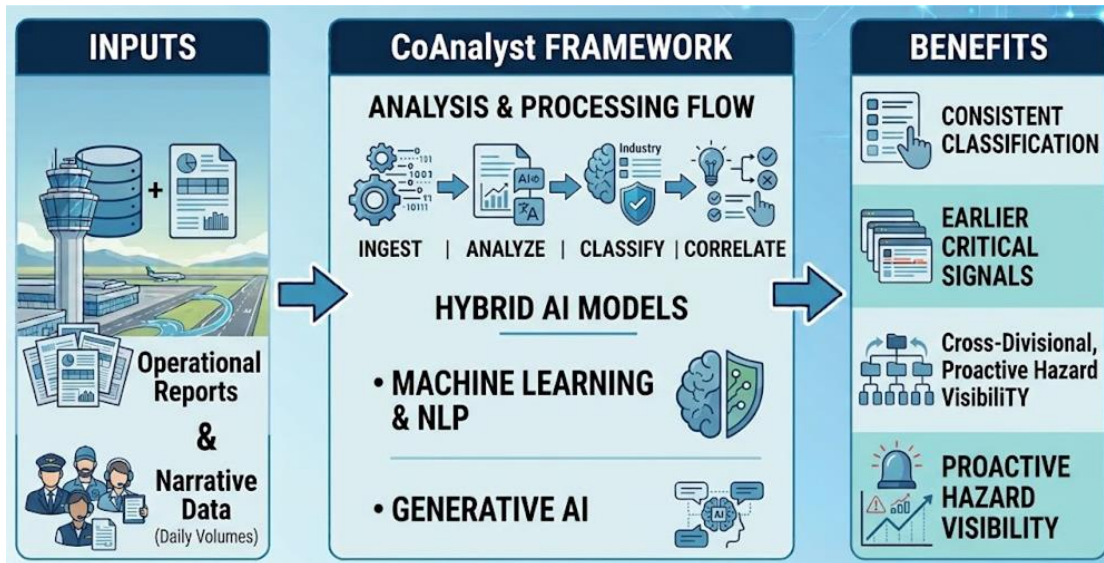
SenTenCe is a runtime monitoring framework and flight data recorder for AI drone navigation. As an independent operational oversight system it operates at **EASA Level 3A** while fulfilling **EU AI Act Article 14 human oversight requirements**. Key functions include real-time plausibility assessments, ODD violation detection, and safety interventions during BVLOS flights. It provides AI-specific failure detection and a net safety benefit.

COAST for eORD



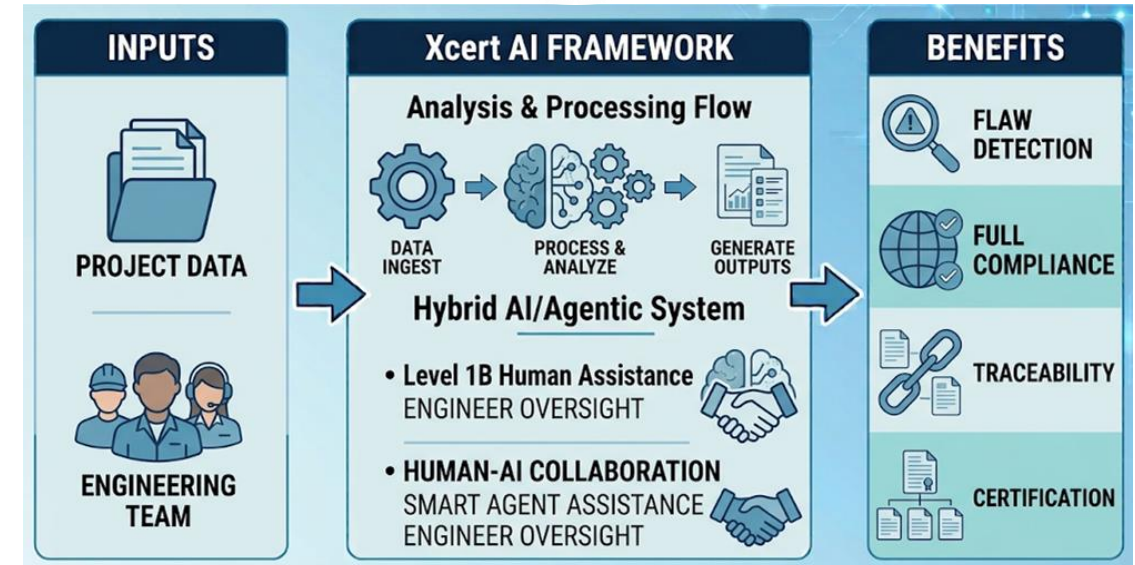
An offline toolchain providing **airport-specific hybrid AI/ML** models to supply controllers with **FTD and ITD indicators** for arrival spacing. Operating as an **EASA Level 1B AI** system, leaving full authority to controllers. Safety is assured via explicit error-rate targets, fallback logic, and comprehensive validation.

CoAnalyst



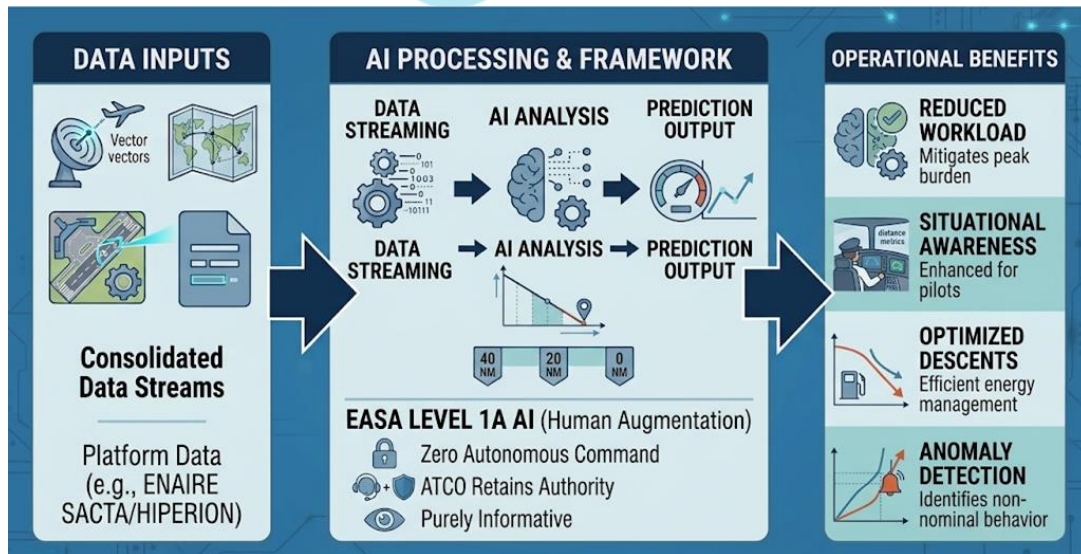
CoAnalyst is an **AI safety data intelligence companion** for aviation SMS. It uses **hybrid ML/LLMs** to classify (with DeBERTa) and summarize (with CLAUDE genAI) **safety reports as an advisory tool**. It operates as a **Level 1B AI** for human augmentation, tested and validated performances and efficiency with different airlines.

XCert AI



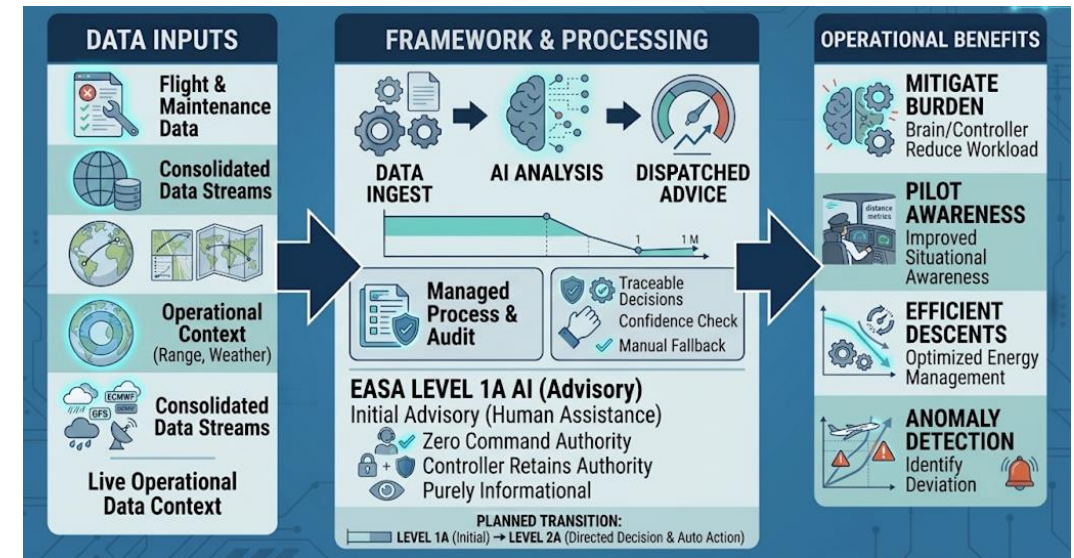
Xcert AI is an **AI-powered assistant** for aerospace **engineering and certification**. It processes project documents to **extract requirements, map evidence, and build certification arguments**. Acting as an **EASA Level 1B/2A system**, it supports human engineers who keep final approval authority, enhancing safety by identifying requirement flaws early and maintaining full traceability.

PISA MaT



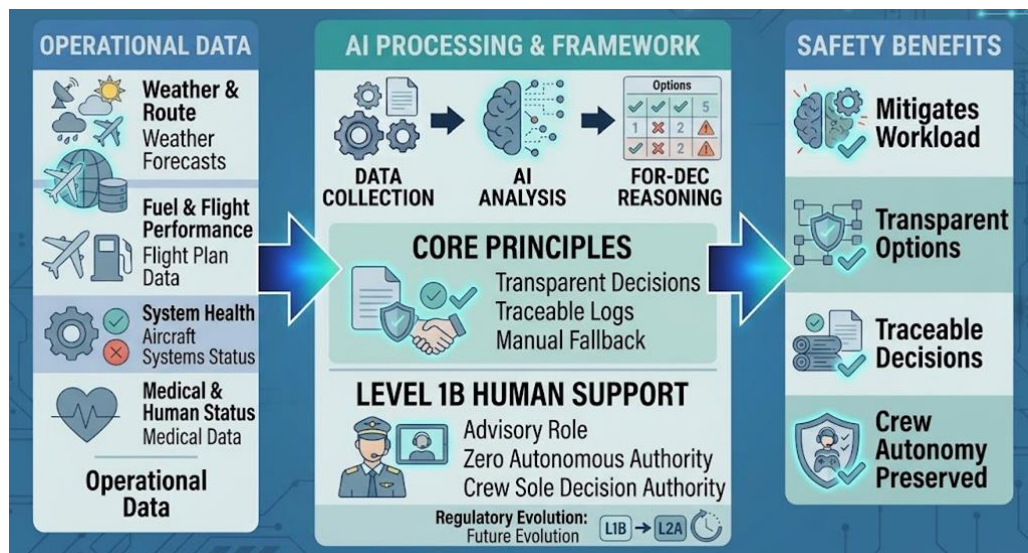
PISA MaT is a **real-time predictive decision-support** tool estimating **remaining track distance to touchdown** for arriving flights. Using ML models on surveillance and flight data, it outputs predictions with confidence indicators for 5 horizons each with an ML model. **As an EASA Level 1A AI system**, it informs controllers without autonomous authority, reducing workload and enhancing situational awareness.

AiMeE.invoke



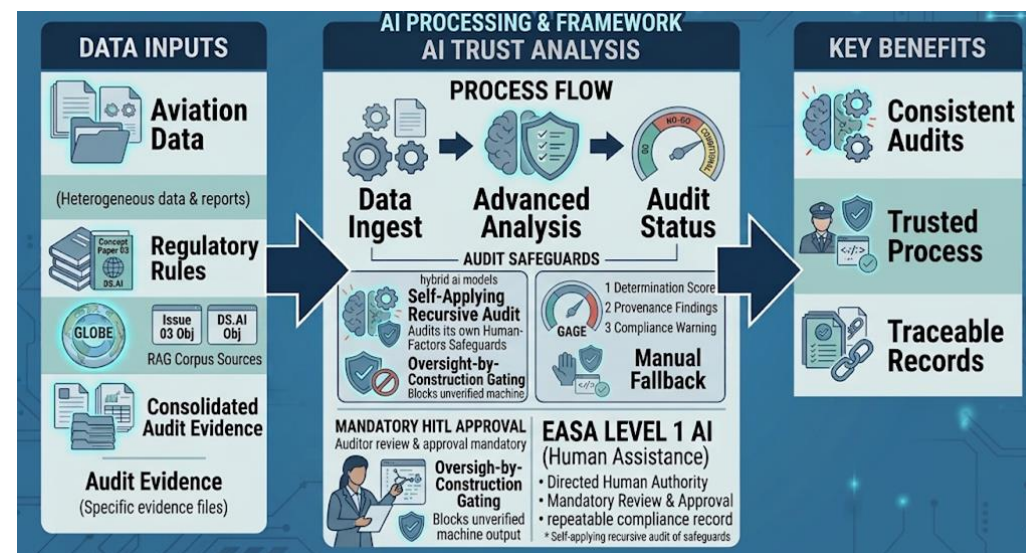
AiMeE.invoke is a **hybrid-AI decision-support** system evaluating aircraft defect reports against live operational context to **output optimal MEL** (Minimum Equipment List) dispatch recommendations. **EASA Level 1B AI system (transitioning to Level 2A)** requiring mandatory HITL approval from a certified AME. Safety is assured via a hybrid architecture bounding LLMs and LKB, automatic fallback for low-confidence inputs, and a fully traceable audit trail.

FOR-DEC AI



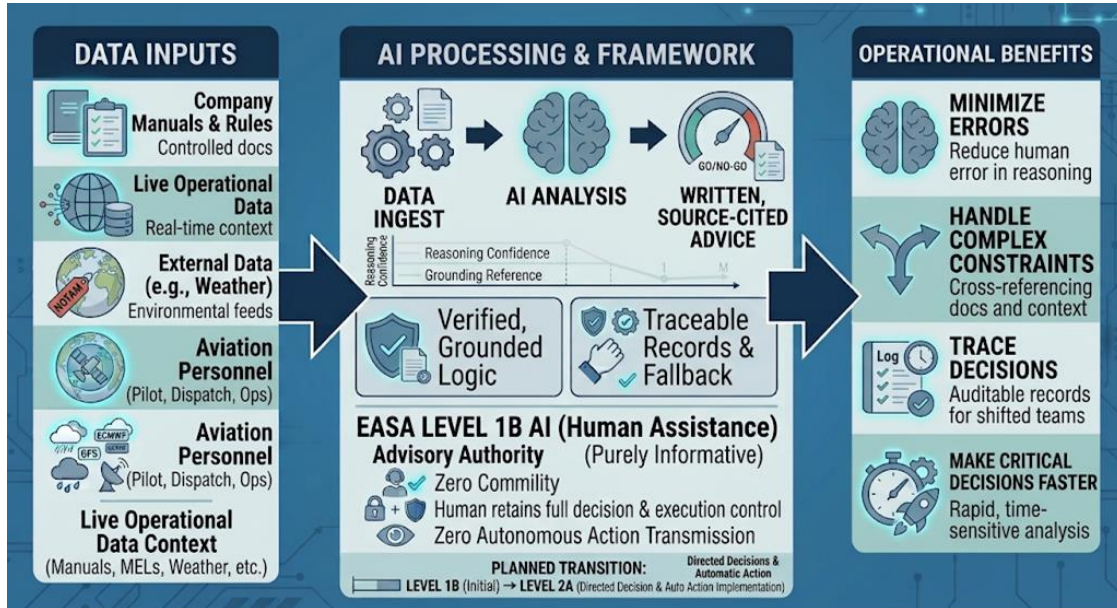
FOR-DEC AI is a **decision-support tool assisting flight crews during complex events and abnormal situations**. Processing various operational inputs it provides explainable options and risk assessments, through a hybrid architecture to **output a unified FOR-DEC reasoning** with respect to HAT principles. As an **EASA Level 1B system**, it offers guidance without taking flight authority, reducing crew workload while maintaining safety and autonomy.

HF-AI Auditor



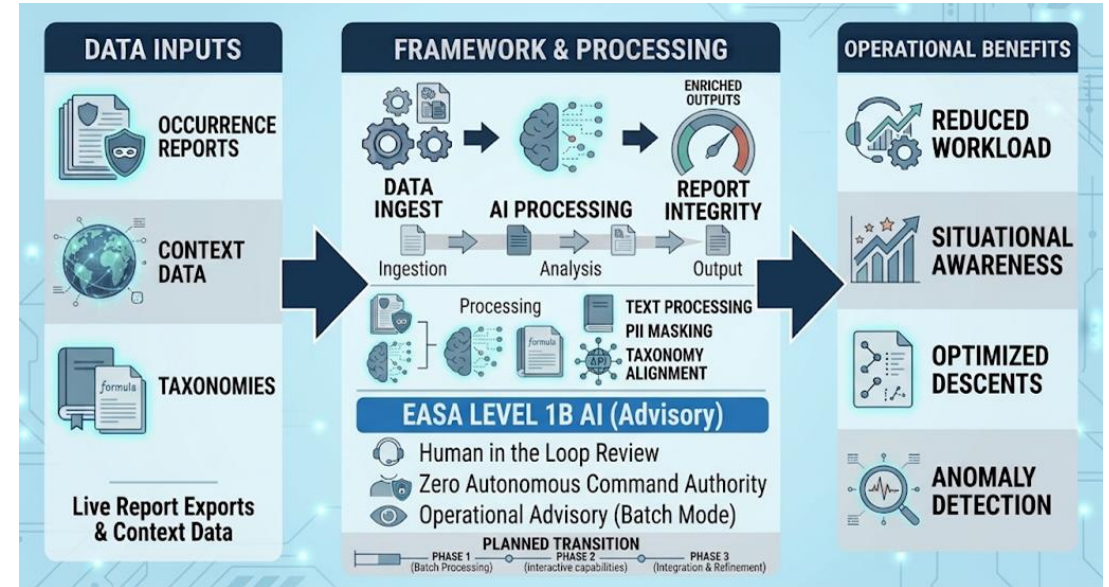
The **HF-AI Auditor** is an **EASA Level 1 AI decision-support system for auditing aviation AI systems' human-factors trustworthiness** against EASA objectives applicable to one of the 7-AI levels. It uses RAG with a LLM bounded by deterministic logic, to navigate over a version-controlled regulatory corpus. Under human authority it ingests heterogeneous subject system documentation, case files, and regulatory texts as inputs to evaluate candidate systems providing audit determinations and traceable compliance records.

WingMan



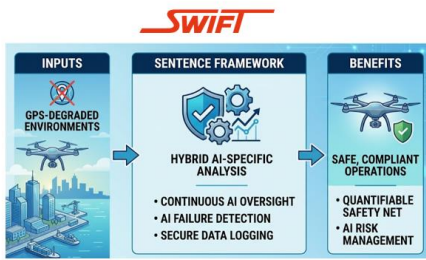
Wingman by Overwatch AI is an EASA Level 1B decision-support tool for frontline aviation staff. It uses a RAG system with an off-the-shelf non-finetuned LLM to provide source-cited, plain-language answers based on controlled operational data. Acting in an advisory capacity, it ensures safety by mitigating hallucinations, resolving conflicting constraints, and maintaining an auditable record of reasoning while keeping humans in full control.

Occurrence Assistant



The Occurrence Assistant is an **EASA Level 1B decision-support system for aviation authorities.** It optimizes report management by using NLP (sentence-transformer embeddings with a multi-task neural network) and deterministic lookups to enrich, align, and anonymize ECCAIRS 2 data. Operating in an advisory capacity, it leaves full authority to human officers. This tool eliminates triage bottlenecks and enhances safety intelligence, allowing analysts to focus on risk mitigation.

SenTenCe



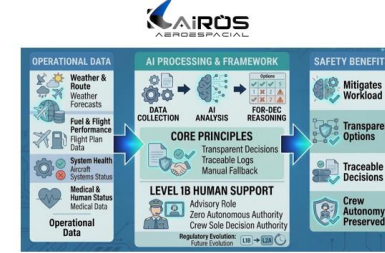
SenTenCe is a runtime monitoring framework and flight data recorder for AI drone navigation. As an independent operational oversight system it operates at **EASA Level 3A** while fulfilling **EU AI Act Article 14 human oversight requirements**. Key functions include real-time plausibility assessments, ODD violation detection, and safety interventions during BVLOS flights. It provides AI-specific failure detection and a net safety benefit.

COAST for eORD



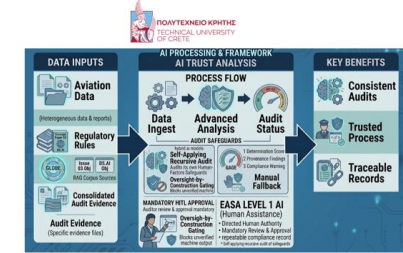
An offline toolchain providing **airport-specific hybrid AI/ML** models to supply controllers with **FTD and ITD indicators** for arrival spacing. Operating as an **EASA Level 1B** AI system, leaving full authority to controllers. Safety is assured via explicit error-rate targets, fallback logic, and comprehensive validation.

FOR-DEC AI



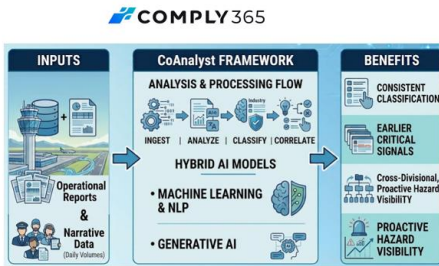
FOR-DEC AI is a **decision-support tool** assisting flight crews during complex events and abnormal situations. Processing various operational inputs it provides explainable options and risk assessments, through a hybrid architecture to **output a unified FOR-DEC reasoning** with respect to HAT principles. As an **EASA Level 1B system**, it offers guidance without taking flight authority, reducing crew workload while maintaining safety and autonomy.

HF-AI Auditor



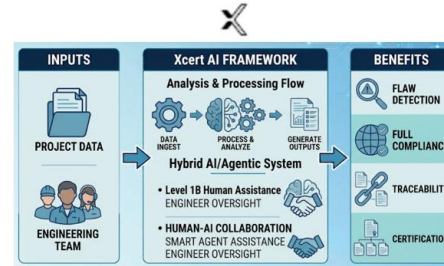
The **HF-AI Auditor** is an **EASA Level 1 AI decision-support system** for auditing aviation AI systems' **human-factors trustworthiness** against EASA objectives applicable to one of the 7-AI levels. It uses RAG with a LLM bounded by deterministic logic, to navigate over a version-controlled regulatory corpus. Under human authority it ingests heterogeneous subject system documentation, case files, and regulatory texts as inputs to evaluate candidate systems providing audit determinations and

CoAnalyst



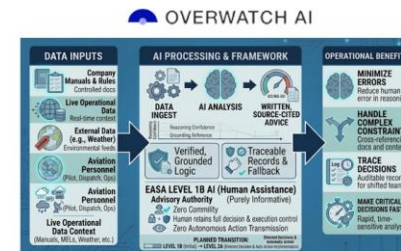
CoAnalyst is an **AI safety data intelligence companion** for aviation SMS. It uses **hybrid ML/LLMs** to classify (with DeBERTa) and summarize (with CLAUDE genAI) **safety reports as an advisory tool**. It operates as an **EASA 1B AI** for human augmentation, tested and validated performances and efficiency with different airlines.

XCert AI



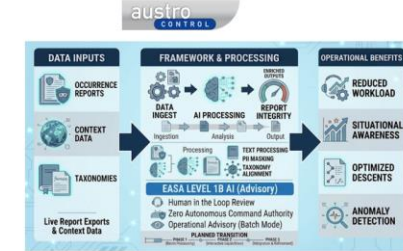
Xcert AI is an **AI-powered assistant** for aerospace **engineering and certification**. It processes project documents to **extract requirements, map evidence, and build certification arguments**. Acting as an **EASA Level 1B/2A system**, it supports human engineers who keep final approval authority, enhancing safety by identifying requirement flaws early and maintaining full traceability

WingMan



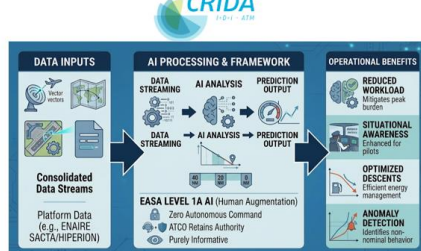
Wingman by **Overwatch AI** is an **EASA Level 1B decision-support tool** for **frontline aviation staff**. It uses a RAG system with an off-the-shelf non-finetuned LLM to provide source-cited, plain-language answers based on controlled operational data. Acting in an advisory capacity, it ensures safety by mitigating hallucinations, resolving conflicting constraints, and maintaining an auditable record of reasoning while keeping humans in full control.

Occurrence Assistant



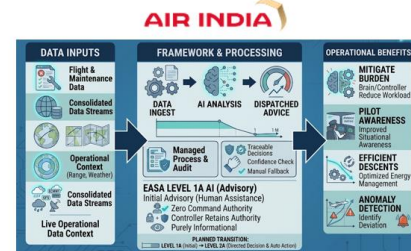
The **Occurrence Assistant** is an **EASA Level 1B decision-support system** for **aviation authorities**. It optimizes report management by using NLP (sentence-transformer embeddings with a multi-task neural network) and deterministic lookups to enrich, align, and anonymize ECCAIRS 2 data. Operating in an advisory capacity, it leaves full authority to human officers. This tool eliminates triage bottlenecks and enhances safety intelligence, allowing analysts to focus on risk mitigation.

PISA MaT



PISA MaT is a **real-time predictive decision-support tool** estimating **remaining track distance to touchdown** for arriving flights. Using ML models on surveillance and flight data, it outputs predictions with confidence indicators for 5 horizons each with an ML model. As an **EASA Level 1A AI system**, it informs controllers without autonomous authority, reducing workload and enhancing situational awareness.

AiMeE.invoke



AiMeE.invoke is a **hybrid-AI decision-support system** evaluating aircraft defect reports against live operational context to **output optimal MEL (Minimum Equipment List)** dispatch recommendations. **EASA Level 1B AI system (transitioning to Level 2A)** requiring mandatory HITL approval from a certified AME. Safety is assured via a hybrid architecture bounding LLMs and LKB, automatic fallback for low-confidence inputs, and a fully traceable audit trail.

