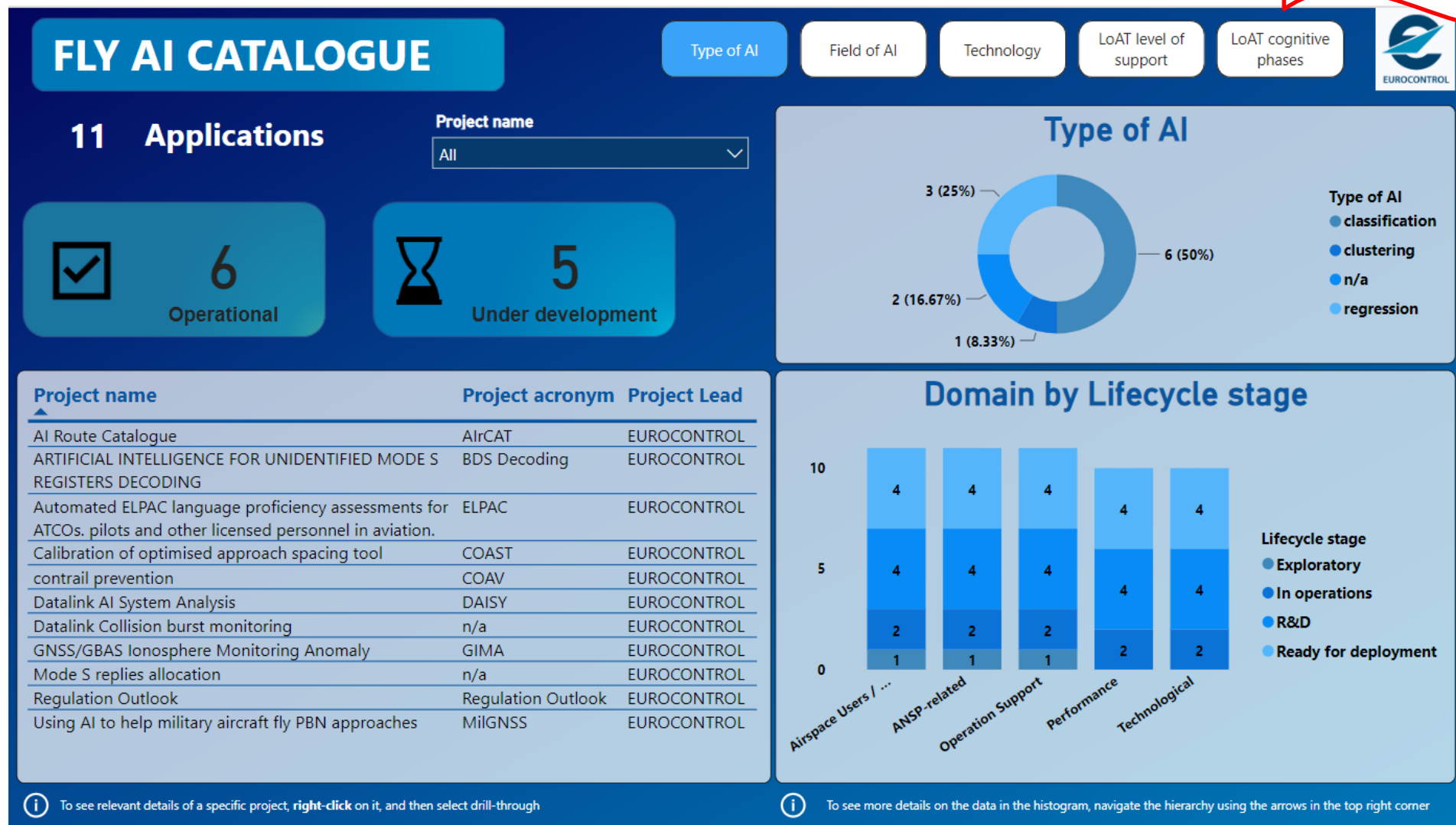


FLY AI Forum 2023

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Project Name: BDS Decoding

Lead by: EUROCONTROL

Start date
2021-10

Status
Operational

Level of Automation:

Cognitive phase
Analysis

Level of support
Performed by human

Field of AI
Natural Language Proces...

Family
supervised learning

Type of AI
classification

Technology
Neural Network

Model Process
"Off-line learning"

Type of NN
n/a

Partners
n/a

Framework
"NM"

Innovation Hub
n/a

Project Description

"Aeronautical surveillance is primarily based on cooperative sensors that perform an exchange of messages between aircraft and surveillance ground infrastructure. In addition to basic surveillance information, the surveillance ground infrastructure can also request aircraft to provide avionic related data such as the selected altitude, the magnetic heading, the ground speed, etc. However, messages containing avionic related data do not always include an identification number, making the decoding of such messages impractical for an external observer. Under the mandate given by the European Commission to EUROCONTROL (Network Manager Implementing Rule), the EUROCONTROL Network Manager is responsible for the monitoring of the surveillance infrastructure performance. As part of this activity, EUROCONTROL deployed a network of 60 receivers across Europe that passively records all exchange messages between aircraft and

Interested Domains

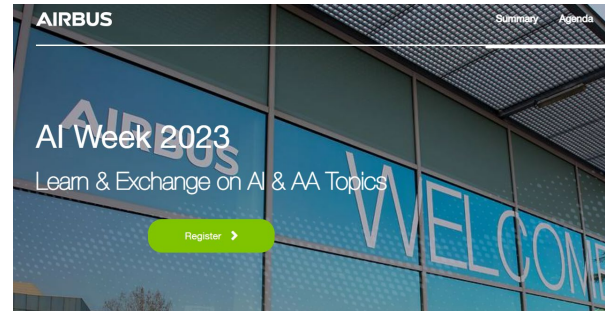
Sub-domain

- Anomaly detection
- Avionics
- CNS
- Process optimisation
- Safety

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Some 2023 AI up coming events :

- **May 16 & 17** - Cologne - EASA Artificial Intelligence Days – High level Conference 2023
- **June 19-23** – Toulouse - AIRBUS AI Week
- **June 26 & 27** – EUROCONTROL HQ – HAIKU 1st Workshop
- **October 10** - SESAR 3 JU Annual Conference
- **November 27-30** – Seville – SESAR Innovation Days



Did we meet the objectives?

- Discover recent deployments of AI in aviation
- Get the latest updates from the European Commission on AI regulatory matters from EASA on their Level 2 AI guidance material, and from EUROCAE/CEN-CENELEC on AI standardisation developments
- Discuss practical use cases demonstrating the benefits that AI can bring aviation with technical and operational experts, who will show how you could accelerate the implementation of your AI project
- Share best practices with AI peers
- Visit an AI exhibition showcasing some recent success stories
- Explore the FLY AI digitalised catalogue of applications
- Get an overview of ongoing research and training activities.

Tell us your experience



FlyAI Forum 2023 - Survey