

ECMWF's AIFS — Europe's Weather Agency Puts an AI Model Into Daily Operational Forecasting

AI in the Public Sector · Good practice · United Kingdom

Quality score: 80/100

Evidence strength: Observational / pre–post

Summary

ECMWF made its AIFS machine-learning weather model operational in February 2025, with a probabilistic version following in July — cutting compute needs by roughly 1,000x versus physics-based models while matching or beating them on measures including tropical cyclone tracks.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	3/3
Transparency, fairness & accountability	2/3
Transferability / demonstrated replication	2/3
Scalability beyond pilot	3/3
Governance, capability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-27

[European Centre for Medium-Range Weather Forecasts \(ECMWF\)](#) — accessed 2026-08-27

[ECMWF: ECMWF's AI forecasts become operational](#) — accessed 2026-08-27

[CACM: AI Weather Forecasting Goes Operational](#) — accessed 2026-08-27

[NOAA: NOAA deploys new generation of AI-driven global weather models](#) — accessed 2026-08-27

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