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## **FREQUENTIS and ENAV elevate airport efficiency and sustainability in Milan with Arrival Manager**

- **Frequentis Arrival Manager (AMAN) at Milan Area Control Centre has transformed approach flights to Milan's three airports**
- **AMAN assists with optimised sequencing arrivals, reducing flight time and fuel usage**
- **Estimated saving of 93 kilograms of CO<sub>2</sub> emissions per flight**

Italian Air Navigation Service Provider (ANSP) ENAV has announced the Frequentis AMAN has transformed approach flights within the Milan Area Control Centre, responsible for the airspace over north-west Italy. By dynamically calculating Estimated Landing Times (ELDT) and updating Target Landing Times (TLDT), this innovative system assists air traffic controllers in sequencing arrivals, reducing flight time, and promoting fuel conservation at Milan Malpensa, Milan Linate, and Bergamo Orio al Serio airports.

The impact of AMAN's implementation is substantial, with ENAV estimating an average reduction of 30 seconds per flight arriving at Malpensa Airport, resulting in fuel savings of 30 kilograms, equivalent to approximately 93 kilograms of CO<sub>2</sub> emissions per flight.

The successful integration of AMAN at the ENAV Control Centre in Rome for Fiumicino Airport at the end of 2022 already showcased remarkable environmental benefits. Over 360,000 kilograms of fuel savings have been achieved, resulting in a reduction of approximately one million kilograms of CO<sub>2</sub> emissions. This reinforces the impactful strides made towards sustainability in aviation.

AMAN operates through expected flight path data and radar system updates, strategically planning the landing order of planes from around 180 miles (approximately 330 kilometres) from the runway. This sequence is continuously refined along the arrival route, optimising traffic flow and reducing environmental impact. Furthermore, considering operational needs, AMAN innovatively distributes flight delays to active sectors, where air traffic controllers are currently managing flights, supporting the handling of the delay and easing a controller's workload.

"We are proud to be at the forefront of this monumental achievement. Frequentis remains committed to developing solutions that not only enhance air traffic management but also significantly contribute to a more sustainable aviation ecosystem," says Frank Köhne, Member of the Frequentis ATM Executive Board.

The collaborative effort between Frequentis and ENAV underscores a shared commitment to innovation and sustainability in the aviation sector.



Lorenzo Ghiradi, ENAV; Marco Bucci, ENAV; Thomas Guenter, Frequentis; Christian Accardo, ENAV; Frank Koehne, Frequentis Orthogon; © Frequentis

## About FREQUENTIS

Frequentis is a global supplier of communication and information systems for control centres with safety-critical tasks. The listed family company develops and markets its "control centre solutions" in the Air Traffic Management segment (civil and military air traffic control, air defence) and the Public Safety & Transport segment (police, fire brigades, emergency rescue services, railways, coastguards, port authorities). With a market share of 30%, Frequentis is the world market leader in voice communication systems for air traffic control. Frequentis is also the global leader in aeronautical information management and aeronautical message handling systems.

As a global player with around 2,200 employees (full-time equivalents/FTE), Frequentis has a global network of companies and representatives in more than 50 countries. Its head office is in Vienna, Austria. Frequentis' products, services, and solutions are used at more than 45,000 operator working positions in around 150 countries. Shares in Frequentis are traded on the Vienna and Frankfurt stock exchanges; ISIN: ATFREQUENT09, WKN: A2PHG5. In 2022, revenues were EUR 386.0 million and EBIT was EUR 25.0 million.

Wherever Frequentis' systems are used, safety-critical operators bear responsibility for the safety of other people and goods. The company also works towards a more sustainable future through its air traffic optimisation solutions.

For more information, please visit [www.frequentis.com](http://www.frequentis.com)

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