Adaptive self-Governed aerial Ecosystem by Negotiated Traffic

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In 2010, the European ATM system controlled 9.5 million flights and on busy days, 33,000 flights. The forecast foresees this increasing to nearly 17 million flights per year by 2030 and 50,000 flights on busy days.


AGENT is facing this reality through development of an innovative approach that proposes self-governed solutions handling the consequences of the unexpected conflict events in the en-route airspace. AGENT seeks to perform a flight efficient, safe collaborative and supervised separation management, operationally integrated with trajectory management and collision avoidance within Trajectory-Based Operation concept.

In addition to above, this approach will provide us with other benefits:

- Overall minimized deviations from flight routes, thus guaranteeing higher accuracy of arrivals to the airports.
- Reduction of the fuel consumption and emissions due to adherence to the optimized routes planned. As a result, AGENT minimizes the environmental impact and the airlines costs as well.

In summary, the AGENT project achieves at the ATM level:

HIGH OCCUPANCY RATE, ZERO RISK LEVEL.