

Summary

MAESTRO is an arrival (AMAN) and departure (DMAN) sequencing tool, co-developed by Egis Avia and DSNA, and operated in many airports in the world.

Developers: Egis Avia (the Aviation branch of Egis)

Applicable sectors							Themes		
All Infrastructure	Buildings	Roads	Water	Energy	Transport	Construction	Materials	Ecology	Wastewater
							Potable Water	Carbon/GHG	Other

Countries	France	Access	Commercially available from Egis
Compatibility with other tools	The tool is compatible with other Egis tools such as Tandem Empreinte.	Guidance for users	Tool support comes in the form of Egis consulting services.
Inputs & outputs	<p>The software tool receives data on air traffic, runway configuration and capacity and airport data.</p> <p>It outputs optimum airspace and runway utilisation to ensure no queuing, holding points or problems caused by runway closure.</p>	Methodology	<p>MAESTRO AMAN is a multi-airport and multi-runway decision making tool designed to manage approach operations on airports. The system enables:</p> <ul style="list-style-type: none"> - Optimum utilisation of airspace and runway capacity by distributing the workload associated to arrival and departure control among En-Route, Approach and ground-based controllers involved; - Minimised delays, queuing and congestion; - Reduced fuel consumption, hence reduced environmental footprint. <p>MAESTRO DMAN provides a pre-departure sequence to regulate and minimise aircraft queues at runway threshold. It compiles and processes air traffic management and airport data.</p> <p>It actually assigns each aircraft a runway and a trajectory based on runway configuration, capacity, potential closure, and the strategy decided by the ATC tower chief.</p> <p>The controller uses a specific interface to give departure or start-up clearances at the most appropriate time in order to feed runways depending on their capacity, while reducing delays, aircraft congestion, thus reducing GHG emissions.</p>
Database library	MAESTRO contains inbuilt data and functions so as to support management of arrival and departure.		
Data intensity & flexibility	Data intensity is reduced by the tool's accompanying databases and consultancy services.		