Calculator: OPAS – Air Traffic Control Simulator

http://www.egis-group.com/

Summary

OPAS is a fast time simulator co-developed by Egis Avia and french Civil Aviation DSNA, used to optimise ground movements, traffic flows and airspace usage.

Applicable sectors								Themes			
All Infrastructure			s Roads	Water	Energy	Transport	Construction	Materials	Ecology	Wastewater	
		Buildings						Potable Water	Carbon/GHG	Other	
Countries	Fr	ance					Access	Commercially available from Egis			
Compatibility with other tools	SU	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	ai O gr	OPAS produces a variety of information on aspects of noise, carbon emissions, parking, airspace traffic, in order to optimise these. Output files can usefully be presented as graphics such as trajectories, density maps, contours and 3D views.					Methodology	OPAS is made of three components for en route, approach, and ground simulations. It is a fast time simulator that implements Air Traffic Control pseudo instructions sent to an aircraft in the simulation, so as to adjust speed, level, or headings and ensure separation. Therefore trajectories generated by the simulator are very close to radar track as observed in real life. The accuracy of the simulator allows for comparing the emissions of an aircraft in different airspace configurations but also on the ground, evaluating different routings, using rapid exit taxiway, evaluating aircraft			
Database library		OPAS con to imitate rcraft beha	Air Traf				Data intensity & flexibility	Data intensity is reduced by the tool's accompanying databases and consultancy services.			